



**Palo Alto Pedestrian and  
Bicycle Advisory Committee**

**Tuesday, March 7, 2023 at 6:15 P.M.**

**In-Person Meeting**

**Location:** Matadero Room at Mitchell Park Community Center  
3700 Middlefield Road, Palo Alto, CA 94303

**The Public May Join Online:** <https://cityofpaloalto.zoom.us/j/85423333426>;  
Dial-in: 669-900-6833 | Meeting ID: 854 2333 3426

**PART I: TDA 3 – BICYCLE AND PEDESTRIAN TRANSPORTATION PLAN (BPTP) UPDATE**

1. CALL TO ORDER 6:15 PM
2. AGENDA CHANGES 6:16 PM
3. APPROVAL OF ACTION MINUTES 6:17 PM
  - a. February 7, 2023 PABAC meeting: Part I: TDA 3—Bicycle and Pedestrian Transportation Plan Update and Part II: Other Items
4. PUBLIC COMMENTS 6:18 PM  
Note: Written comments submitted by email to [Transportation@CityofPaloAlto.org](mailto:Transportation@CityofPaloAlto.org) between 12:00pm on January 19, 2022, and 12:00pm on February 17, 2023 are attached with the agenda packet. [NOTE: None for this meeting packet]
5. STAFF UPDATE 6:21 PM
  - a. 2022 BPTP Update (*Ozzy Arce, OOT*)
6. ADJOURNMENT 6:23 PM

**PART II: OTHER ITEMS**

1. CALL TO ORDER 6:23 PM
2. AGENDA CHANGES 6:24 PM
3. PUBLIC COMMENTS 6:25 PM
4. DISCUSSION ITEMS
  - a. Park Blvd. to Portage Ave. Bike Route Update (*Claire Raybould, Planning*) 6:30 PM  
See Attachment 1 for materials.
  - b. Caltrans Crossings & Bridge Rail Projects (*Srilatha Raavi, Caltrans*) 7:00 PM  
See Attachment 2 for materials.
  - c. PABAC 2023 meeting location update: Rinconada Library Option 7:30 PM

- d. Options for PABAC members to participate in PABAC meetings virtually 7:40 PM  
See Attachment 3, Palo Alto Architectural Review Board (ARB) Staff Report: *Review and Adoption of the Revised ARB By-Laws to Address Remote/Virtual Meeting Attendance*  
See Attachment 4, Overview of Brown Act Rules to participate virtually

5. STANDING ITEMS 7:45 PM

- a. Grant Update – None
- b. CSTSC Update – January 26, 2023 CSTSC Meeting summary, attached
- c. VTA BPAC Update (*R. Neff*)
- d. Subcommittee Reports
- i. Rail Grade Separation Subcommittee (*B. Arthur*)
  - ii. Bike Bridge Maintenance Subcommittee (*Chair Ellson*)
  - iii. Repaving Subcommittee (*R. Neff*)
  - iv. Muni Code Subcommittee (*E. Nordman*)
  - v. Sight line and Safety Problem Reporting on Bike Routes (*E. Nordman*)
  - vi. Open Space & Parks E-Bikes Subcommittee (*P. Goldstein*)
- e. Announcements
- f. Future Agenda Items
- Muni code clean-up progress update (Committee report delivered: 2018; Last update from staff: 11/1/2022)
  - PAUSD Hoover school campus reconstruction update (Last review: 5/3/2022)
  - S. Palo Alto Bikeways project status/grant proposal (Last update: 02/07/2023)
  - Rail Grade Separations (Last update: 8/2/2022)
  - Municipal Code re: micromobility issues
  - BPTP Update Implementation Status Item for the City website
  - PABAC assistance reporting sight line/safety issues on bike/ped network (Requested by Staff: 10/6/22)
  - Explore alternatives for bike/ped non-injury collision and near-miss reporting
  - Bike parking code updates for converting existing business-owned auto parking spaces to bicycle parking
  - Park Blvd to Portage Ave. (last discussion: 11/1/2022)

6. ADJOURNMENT 8:05 PM

**END OF AGENDA**



Palo Alto Pedestrian and  
Bicycle Advisory Committee

Tuesday, February 7, 2023

6:15 P.M.

**VIRTUAL MEETING**

Palo Alto, CA

Members Present: Bruce Arthur (Chair), Alan Wachtel, Arnout Boelens, Art Liberman, Bill Courington, Cedric le la Beaujardiere, Eric Nordman (Vice Chair), Jane Rosten, Kathy Durham, Ken Joye, Nicole Rodia, Paul Goldstein, Penny Ellson, Richard Swent, Robert Neff (late),

Members Absent: Bill Zaumen, Nicole Zoeller Boelens, Steve Rock

Staff Present: Sylvia Star-Lack, Ozzy Arce

Guests:

**PART I: TDA 3 – BICYCLE/PEDESTRIAN TRANSPORTATION PLAN (BPTP) UPDATE**

**1. CALL TO ORDER**

Chair Bruce Arthur called the meeting to order.

**2. Adoption of a Resolution Authorizing Use of Teleconferencing for Pedestrian and Bicycle Advisory Committee Meetings During Covid-19 State of Emergency (See attached Resolution)**

Chair Arthur introduced the Adoption of the Attached Resolution Authorizing Use of Teleconferencing PABAC meetings during the State of Emergency and asked for a motion to Adopt.

Mr. Ken Joye moved to adopt the resolution, seconded by Ms. Penny Ellson.

Upon call of the roll, the adoption carried unanimously.

**3. AGENDA CHANGES**

None.

1  
2 **4. APPROVAL OF ACTION MINUTES**

3  
4 **A. January 10, 2023 PABAC meeting: Part I: TDA 3 – Bicycle and Pedestrian**  
5 **Transportation Plan Update and Part II: Other Items**  
6

7 Ms. Penny Ellson motioned to approve the minutes of the January 10, 2023 PABAC meeting.  
8 Mr. Ken Joye seconded. Approval of the minutes passed unanimously with abstentions from Mr.  
9 Art Liberman, Mr. Cedric le la Beaujardiere, and Mr. Paul Goldstein.

10  
11 **5. PUBLIC COMMENTS**

12 *Written comments submitted by email to [Transportation@CityofPaloAlto.org](mailto:Transportation@CityofPaloAlto.org) between*  
13 *12:00 pm on December 12, 2022 and 12:00 pm on January 19, 2023 were attached with*  
14 *the agenda packet.*

15 None.

16 **6. STAFF UPDATES**

17 **a. 2022 BPTP Update (Ozzy Arce, OOT)**

18 Mr. Ozzy Arce, Senior Transportation Planner & Project Manager, provided an update on the  
19 BPTP update project. Since they continue to be in the middle of the procurement process for a  
20 consultant, City staff is limited in what they can share. The two potential consultants have been  
21 interviewed and the city will be moving forward into contract negotiations this month once a  
22 preferred vendor is selected. The hope is to have someone onboarded very soon. He stated he  
23 will continue to update the group as the process moves forward.

24 Mr. Ken Joye inquired if there was a timeline for when public forums might be held regarding  
25 the BPTP update.

26 Mr. Arce answered that there was a built-in community engagement plan they were hoping to  
27 develop at the onset of the project, but specific dates are yet to be determined.

28 Ms. Penny Ellson stated that the budget update in the Council agenda contained a notice that the  
29 payment to the consultant was scheduled for the second quarter of 2023 and wanted to know if  
30 that was when the work is starting.

31 Mr. Arce stated their plan was to start as soon as they could and that he would check in with  
32 OOT's Administrative Staff about that.

33 Chair Arthur asked if he had insights when the PABAC would be able to participate.

34 Mr. Arce answered that it would be a while before the formal kickoff takes place but they would  
35 update the group as they can.

36 Vice Chair Eric Nordman asked when would be the best time to pass suggested minor projects  
37 on to the consultants.

1 Ms. Sylvia Star-Lack encouraged Committee members to send a 311 request to the City with  
2 PABAC as the first word in the project description and they would be put it in the database.

3 **7. ADJOURNMENT**

4 Chair Arthur adjourned Part I of the TDA 3 portion of the meeting.

5 **PART II: OTHER ITEMS**

6 **1. CALL TO ORDER**

7 Chair Arthur called the section to order.

8 **2. AGENDA CHANGES**

9 Ms. Star-Lack stated that she would be reporting on additional grants other than what were  
10 shown on the Agenda under Standing Items, item Part II, 6a.

11 **3. PUBLIC COMMENTS**

12 None.

13 **4. STAFF UPDATES**

14 **a. 2023 Bike to Work Day – May 18, 2023**  
15

16 Mr. Arce announced that May is Bike Month and that this year’s Bike to Work Day (BTWD) is  
17 on Thursday, May 18, 2023. The city will purchase T-shirts again for any city energizer stations  
18 if members of PABAC are interested in volunteering to lead a station. Anyone wanting to lead  
19 those efforts should contact Ms. Star-Lack.

20 Mr. Cedric le la Beaujardiere stated he was a member of the Palo Alto Transportation  
21 Management Authority and would see if that group would be interested in participating.

22 Ms. Star-Lack stated she would provide T-shirts but was unable to provide staff to hand them  
23 out. Ms. Ellson said she was interested in helping with BTWD activities, including t-shirt  
24 distribution. She requests help from the committee in organizing people and getting volunteers to  
25 sign up for shifts.

26 **5. DISCUSSION ITEMS**

27 **a. City sidewalk repairs & improvements – See Attachment 1 for visuals &**  
28 **Attachment 2 for District Sidewalk Map. Staff contact: Brittney Leung, Public**  
29 **Works: [Brittany.Leung@cityofpaloalto.org](mailto:Brittany.Leung@cityofpaloalto.org)**

30 Mr. Arce announced the City will be starting a sidewalk repair effort throughout the city starting  
31 in District 1 this year. He provided an email for Staff to submit any additional locations they felt  
32 were in need of repair: Brittney Leung at Public Works by the deadline of Friday, February 17.

1 Ms. Star-Lack stated she wanted to read into the minutes the little portion of the Caltrans  
2 Maintenance Agreement so everybody was aware about who was supposed to do what with the  
3 sidewalks on El Camino. “This provides for cleaning, maintaining and repairing curbs, gutters,  
4 sidewalks and other appurtenances between the road bed and the outer highway right of way  
5 boundary line. It also includes weed and brush control by chemical, biological or mechanical  
6 methods and plant replacement, trimming and removal of trees and pest control. Monolithic curb  
7 and gutter: The gutter portion is the part of the pavement which is state responsibility to  
8 maintain. The curb portion is part of the sidewalk which is a city responsibility to maintain.  
9 Should either party hereto while making repairs to their respective portion replace the entire curb  
10 and gutter unit, the party making such repairs will replace the entire curb and gutter unit at their  
11 own expense. Curb and gutter units located in medians will be as provided for herein below.”

12 **b. Location and logistics for the 2023 in-person PABAC meetings.**

13 Ms. Star-Lack presented two options for the location of PABAC’s in-person meetings for the  
14 next nine months [through 2023]. Option 1 would be the Downtown Library being available for  
15 all nine months and Option 2 was Mitchell Park Community Center, which was not available for  
16 the summer months.

17 PABAC members made various other suggestions and recommendations for meeting locations.

18 Chair Arthur asked member to pick between Option 1 and 2 for the time being and asked Ms.  
19 Star-Lack to look at Rinconada Library as an option to be discussed at the next PABAC meeting.

20 Vice Chair Nordman made a motion to go with Option 2.

21 Mr. Liberman seconded the motion.

22 Chair Arthur asked for a show of hands for Option 2 with a result of 9-1.

23 **6. STANDING ITEMS**

24 **a. Grant Update – S. Palo Alto Bikeways Project Update (Sylvia Star-Lack,**  
25 **OOT)**

26 Ms. Star-Lack let the committee know they did not receive the One Bay Area Grant (OBAG) and  
27 the Active Transportation Program (ATP) Grant for which she had applied for the South Palo  
28 Alto Bikeways Project. She would be following up to find out how the City could qualify for  
29 those grants in the future. Ms. Star-Lack also reported that the City was awarded a \$160,000  
30 grant from the Federal’s Safe Streets for All Grant program to create an action plan from the  
31 Local Road Safety Plan that VTA made for the city to qualify for future construction dollars.

32 **b. CSTSC Update – January 26, 2023 CSTSC Meeting summary will be**  
33 **provided in the next PABAC meeting agenda packet**

34 Mr. Arce stated the minutes for the late January CSTSC meeting were being finalized and would  
35 be in the following month’s PABAC meeting packet.

1           **c.       VTA BPAC Update (R. Neff)**

2 Mr. Neff announced that a free upgraded version of the Transit app is available to anyone in the  
3 VTA service area. He stated that this would be the last year to get TFCA grants for signal timing  
4 improvement projects because they were not effective with electric cars or cars that turn off their  
5 motor when they come to stop signs.

6           **d.       Subcommittee Reports**

7                   **i.       Rail Grade Separation Subcommittee (B. Arthur)**

8  
9 Chair Arthur commented that the Subcommittee would continue to meet to advocate getting  
10 more money allocated by the Council to do more in-depth plans. He announced that Vice Chair  
11 Nordman wanted to join the committee.

12                   **ii.       Bike Bridge Maintenance Subcommittee (Penny Ellson)**

13 Ms. Ellson noted there was nothing new to report.

14                   **iii.       Repaving Subcommittee (R. Neff)**

15 Vice Chair Nordman remarked that an updated version of the Repaving list/plan for the FY23  
16 had been sent out. The main change was a section of Maybell that was planned to be paved.

17 Mr. Liberman questioned if there was an update on the repaving of El Camino Real and inquired  
18 what was going on with the island and poles that were supposed to be removed at the intersection  
19 of El Camino and Charleston.

20 Ms. Star-Lack stated she would forward along the newsletters to PABAC giving updates about  
21 what is happening on Charleston. Regarding the paving project, Palo Alto needed to do sewer  
22 work and are working with Caltrans about how to schedule the work so it will better align with  
23 their construction calendar.

24                   **iv.       Muni Code Subcommittee (E. Nordman)**

25 There were no updates.

26                   **v.       Sight line and Safety Problem Reporting on Bike Routes (E.  
27 Nordman)**

28 There were no updates.

29                   **vi.       Open Space & Parks E-Bikes Subcommittee (P. Goldstein)**

30 Mr. Goldstein stated they were working with the Parks and Rec Commission on regulations  
31 regarding banning electric bicycles on unpaved trails in the open spaces. The hope is to set up a  
32 meeting with the Parks and Rec Ad-Hoc Subcommittee early the following week. He presented a  
33 proposal he made requesting that a year-long pilot study be made having people comment pros

1 and cons and devising regulations regarding speed limits and behaviors and asked for PABAC's  
2 input.

3 Ms. Ellson stated that the decision by Parks and Rec seemed to be driven by a concern about  
4 comments they were getting from the Audubon Society about the impact of the sound of e-bikes  
5 on birds and wanted to ask Parks and Rec to provide the source data they used in making that  
6 decision.

7 There was discussion that the trails in the Baylands were robust but that the e-bikes were hard on  
8 the trails in Arastradero Preserve and the Foothills Open Space in the winter when it is wet.

9 **e. Announcements**

10 Mr. Arnout Boelens stated Safe Streets for Palo Alto received numerous signatures and letters in  
11 support of a Safe System policy to be adopted by Council and a commitment to a time to reach  
12 the City's goal of zero injuries and fatalities on Palo Alto streets. Those would be presented to  
13 the Council during public comments at 8:10 at the February 13 Council meeting.

14 **f. Future Agenda Items**

- 15 ➤ Muni code clean-up progress update (Committee report delivered: 2018; Last update  
16 from staff: 11/1/2022)
- 17 ➤ PAUSD Hoover school campus reconstruction update (Last review: 5/3/2022)
- 18 ➤ S. Palo Alto Bikeways project status/grant proposal (Last update: 10/6/2022)
- 19 ➤ Rail Grade Separations (Last update: 8/2/2022)
- 20 ➤ Municipal Code re: micromobility issues
- 21 ➤ BPTP Update Implementation Status Item for the City website
- 22 ➤ PABAC assistance reporting sight line/safety issues on bike/ped network (Requested by  
23 Staff: 10/6/22)
- 24 ➤ Explore alternatives for bike/ped non-injury collision and near-miss reporting
- 25 ➤ Bike parking code updates for converting existing business-owned auto parking spaces to  
26 bicycle parking
- 27 ➤ Park Blvd to Portage Ave. (last discussion: 11/1/2022)
- 28 ➤ Annual update on Office of Transportation projects

29 **8. ADJOURNMENT** at 7:30 p.m.

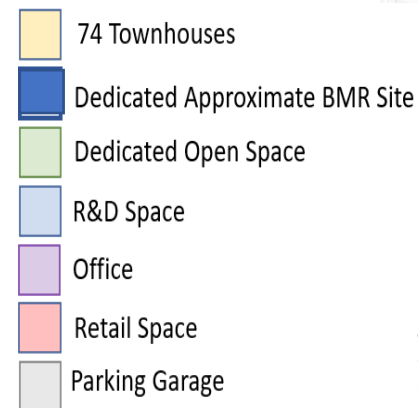




**3200 Park/200 Portage/  
340 Portage**  
Palo Alto Bicycle Advisory Committee

# PROJECT DESCRIPTION

- Demolish a portion of the cannery building to construct a 74-unit townhome development
- Remodel the remaining cannery building
- Construct a parking garage
- Dedicate 3.25 acres to the City, one acre for affordable housing and 2.25 acres for a park

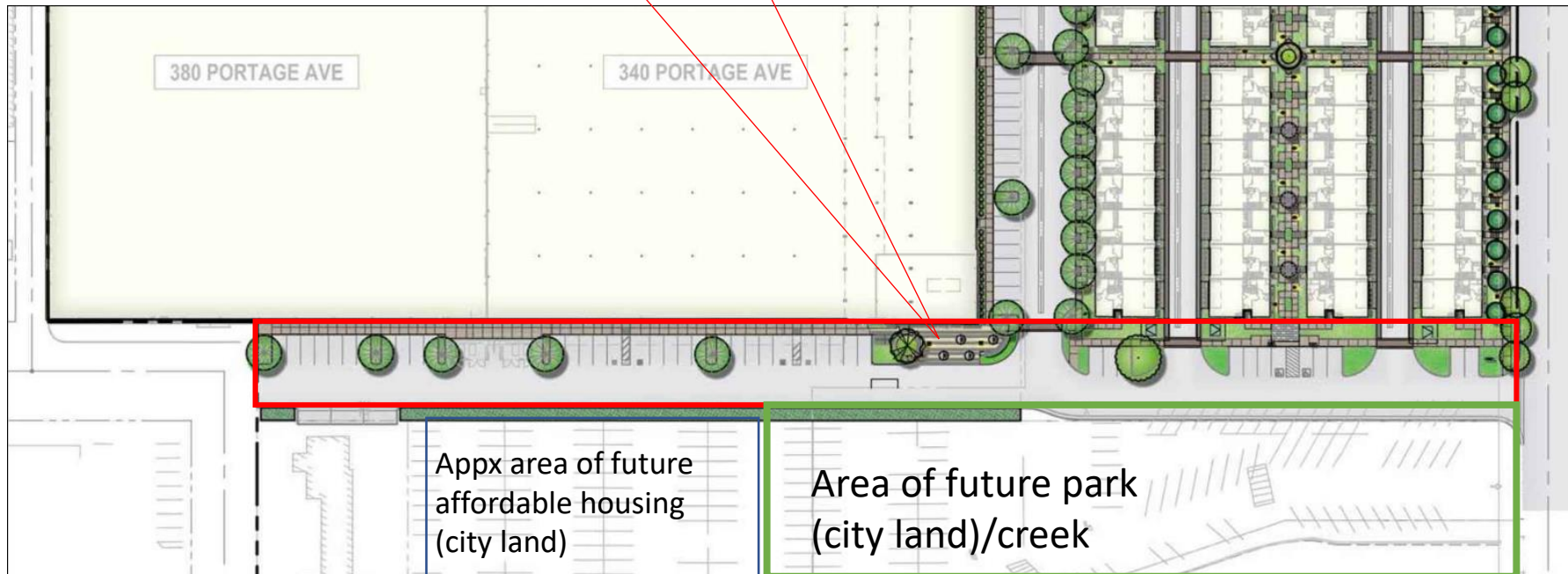


# ENHANCED BIKEWAY CONNECTION

- The City's Bike/Ped Transportation Plan and County Trails Plan identify a pathway between Park Boulevard and Portage Avenue as an area for a future enhanced bikeway (i.e. sharrows or better).
- The site plan provides a private street along the envisioned alignment but does not specifically show the enhanced bikeway. This was identified as a significant impact under CEQA (inconsistency with an adopted plan). Mitigation is required to provide an enhanced bikeway and any necessary easements for public access to mitigate the impact to less than significant



# DEVELOPMENT AGREEMENT ALTERNATIVE

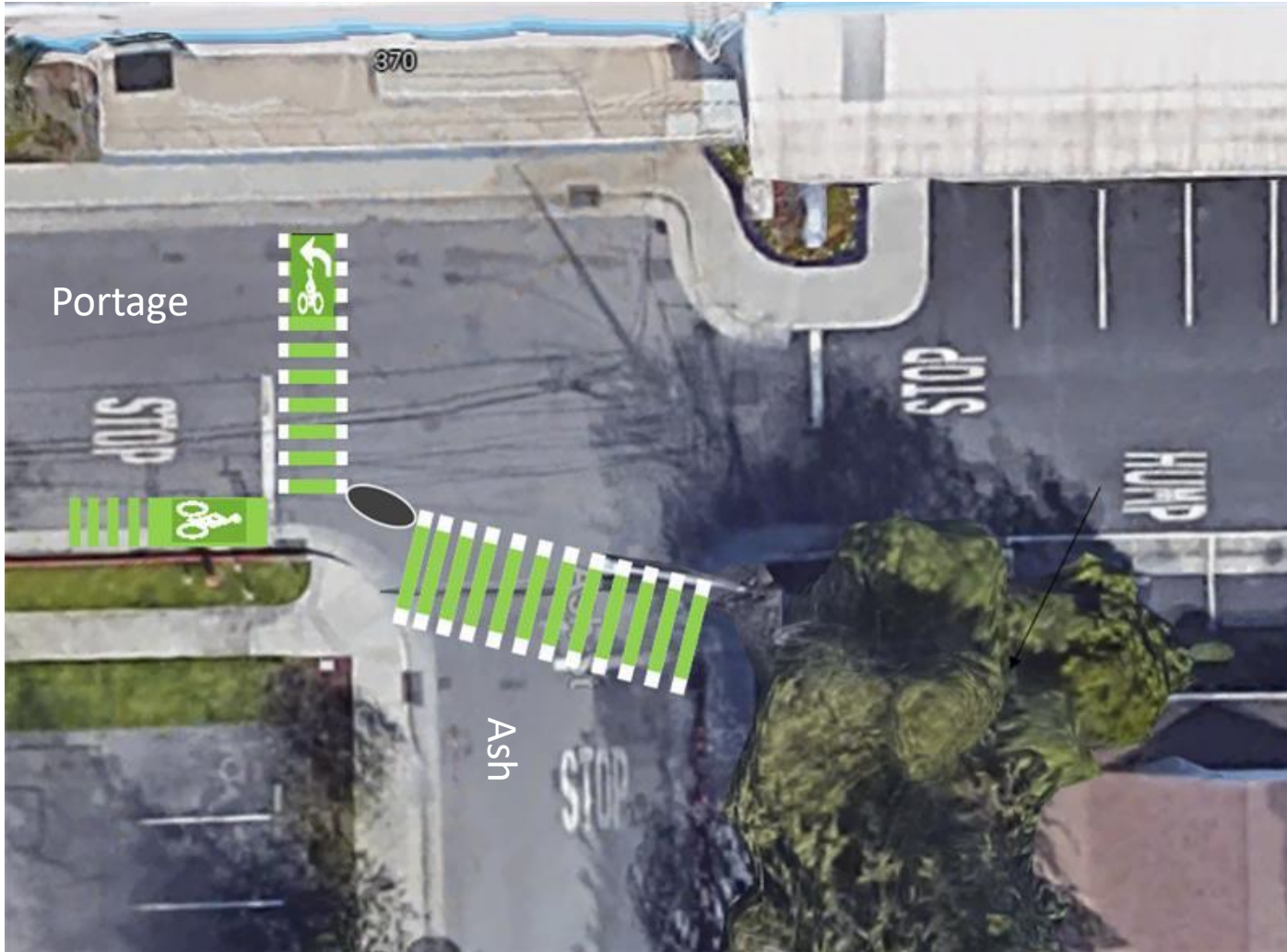


# PROPOSED BICYCLE CONNECTION

- 5-foot wide bike lane in each direction; reduced to 4 feet in each direction adjacent 3201 Ash Street
- Separated from street
- Improvements planned at each end for safe connections to the path



# PROPOSED BICYCLE CONNECTION-PORTAGE/ASH



# PROPOSED BICYCLE CONNECTION-PARK BOULEVARD

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# QUESTIONS/COMMENTS

Claire Raybould

[Claire.Raybould@cityofpaloalto.org](mailto:Claire.Raybould@cityofpaloalto.org)

March 7, 2023

[www.cityofpaloalto.org](http://www.cityofpaloalto.org)



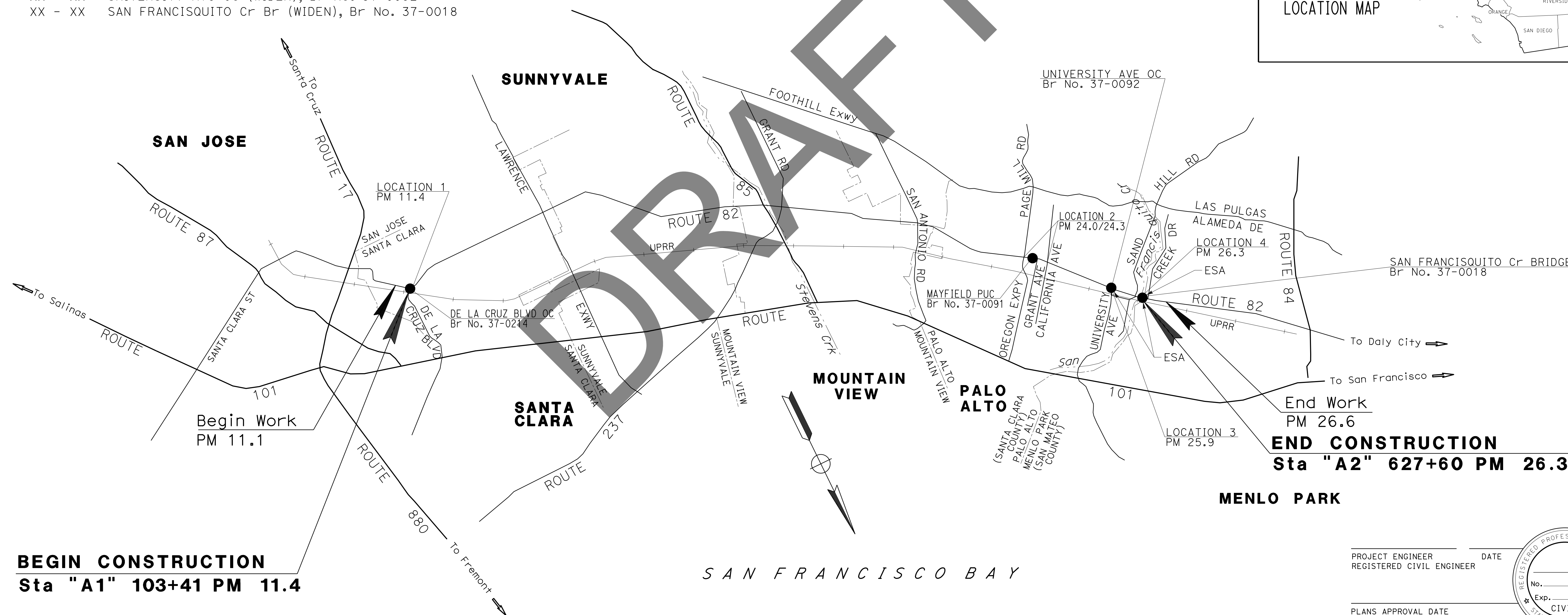
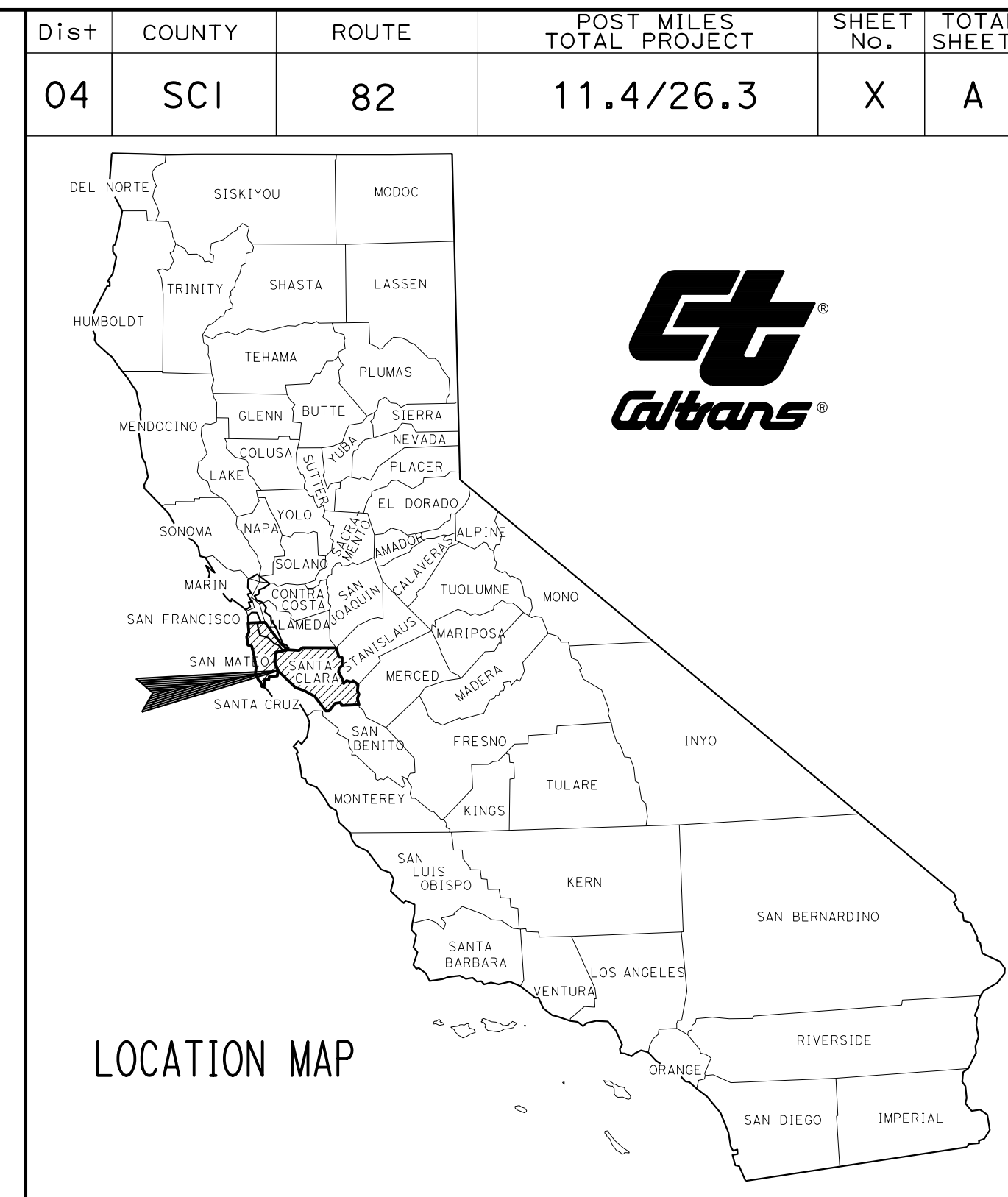
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION  
ON AND ADJACENT TO  
STATE HIGHWAY  
IN SANTA CLARA COUNTY  
AT VARIOUS LOCATIONS  
FROM DE LA CRUZ BOULEVARD OVERCROSSING  
TO SAN FRANCISQUITO CREEK BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2022

INDEX OF PLANS

- 1 TITLE SHEET AND LOCATION MAP
  - XX - XX LAYOUT
  - XX - XX CONSTRUCTION DETAILS
  - XX - XX TEMPORARY WATER POLLUTION CONTROL PLAN AND QUANTITIES
  - XX - XX DRAINAGE PLAN, PROFILES, DETAILS AND QUANTITIES
  - XX - XX UTILITY PLAN
  - XX - XX CONSTRUCTION AREA SIGNS
  - XX - XX MOTORIST INFORMATION PLANS
  - XX - XX TRAFFIC HANDLING PLANS AND QUANTITIES
  - XX - XX PAVEMENT DELINEATION PLAN AND QUANTITIES
  - XX - XX SIGN PLAN, DETAILS AND QUANTITIES
  - XX - XX SUMMARY OF QUANTITIES
  - XX - XX EROSION CONTROL LEGEND, PLANS AND QUANTITIES
  - XX - XX ELECTRICAL PLANS
  - XX - XX REVISED STANDARD PLANS
- STRUCTURE PLANS
- XX - XX DE LA CRUZ Blvd OC (WIDEN), Br No. 37-0214
  - XX - XX MAYFIELD Ped UC (REMOVAL), Br No. 37-0091
  - XX - XX UNIVERSITY Ave OC (WIDEN), Br No. 37-0092
  - XX - XX SAN FRANCISQUITO Cr Br (WIDEN), Br No. 37-0018



PROJECT MANAGER  
DESIGN MANAGER

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

SAN FRANCISCO BAY

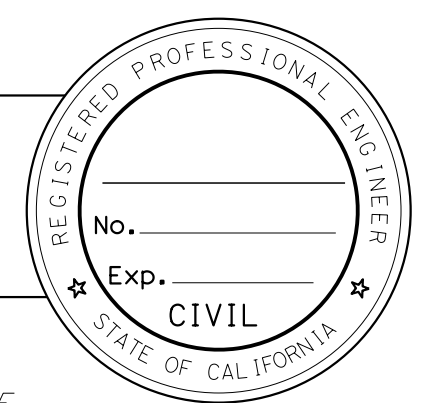
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UNIT 0000 PROJECT NUMBER & PHASE 0000000001

PROJECT ENGINEER REGISTERED CIVIL ENGINEER DATE



PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	<b>04-0P9804</b>
PROJECT ID	<b>0418000032</b>

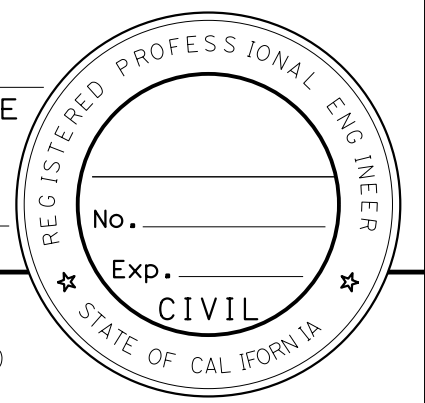
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TIME PLOTTED => 09:19  
00-00-00

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04	SCI	82	Var	X	X

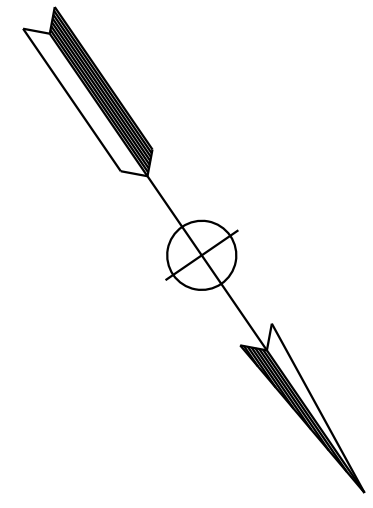
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PLANS APPROVAL DATE \_\_\_\_\_

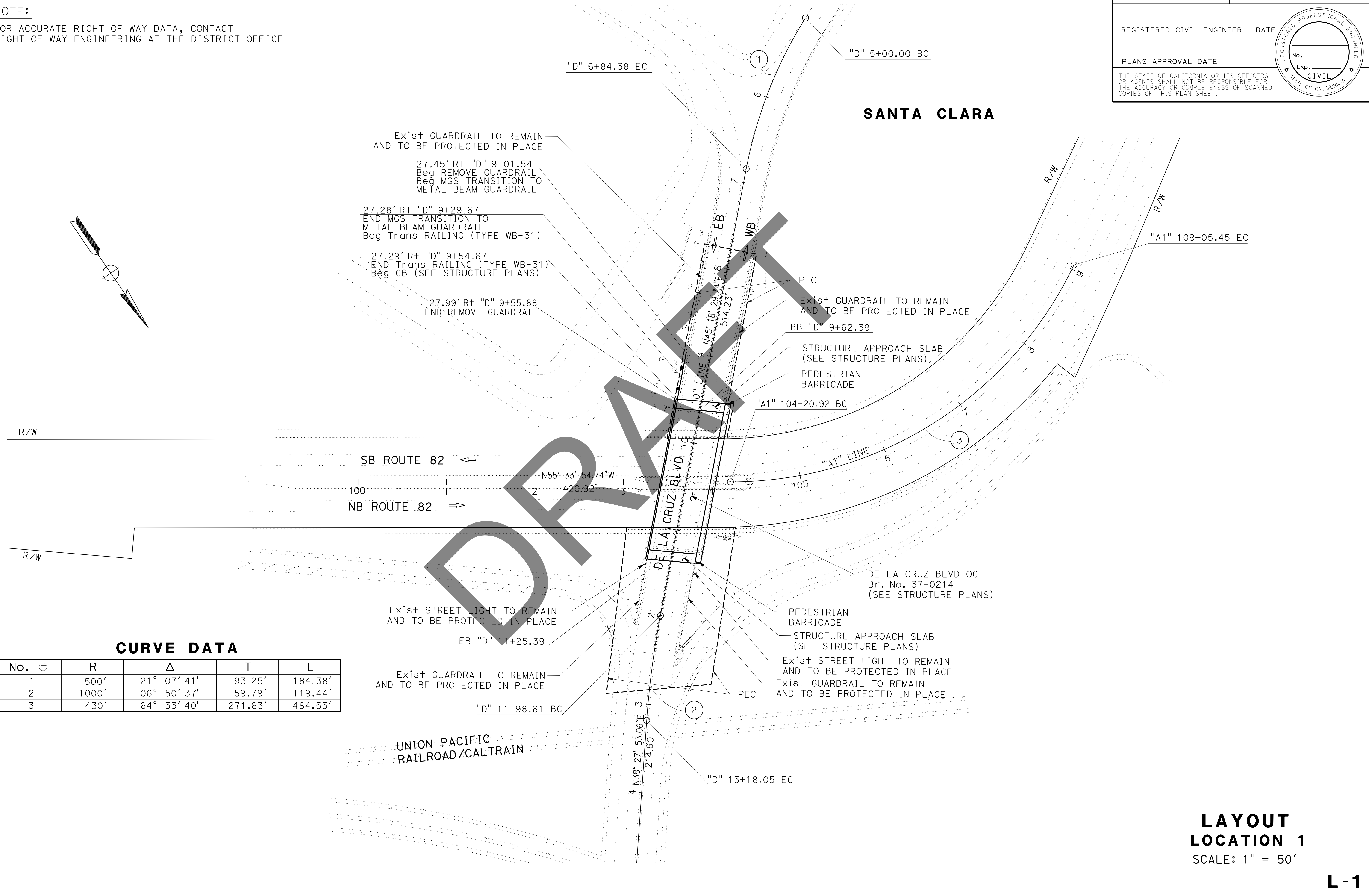
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



NOTE:  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 kKENNY YAP  
 MUSTAQUR RAHMAN  
 FUNCTIONAL SUPERVISOR  
 MUSTAQUR RAHMAN  
 REVISOR  
 DATE  
 REVISIONS  
 DESIGNED BY  
 CHECKED BY  
 CALCULATED BY  
 DESIGNED BY  
 CHECKED BY



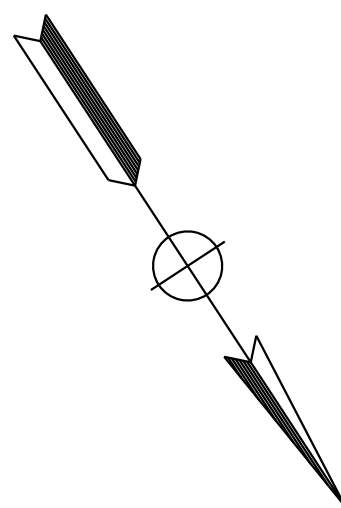
**CURVE DATA**

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3		430'	64° 33' 40"	271.63'	484.53'

**LAYOUT LOCATION 1**  
SCALE: 1" = 50'

**L-1**

NOTE:  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



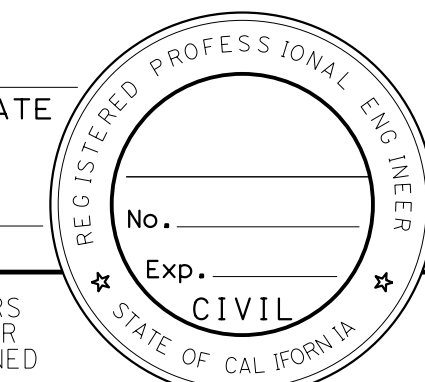
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04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

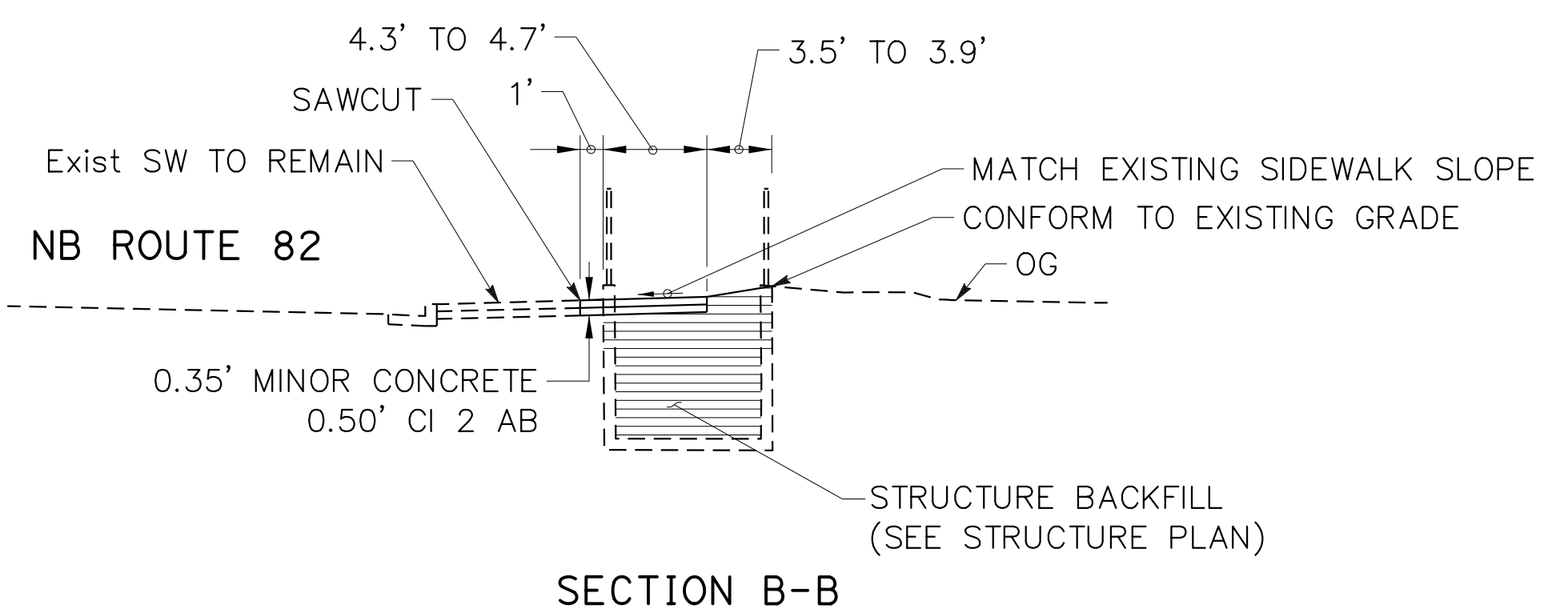
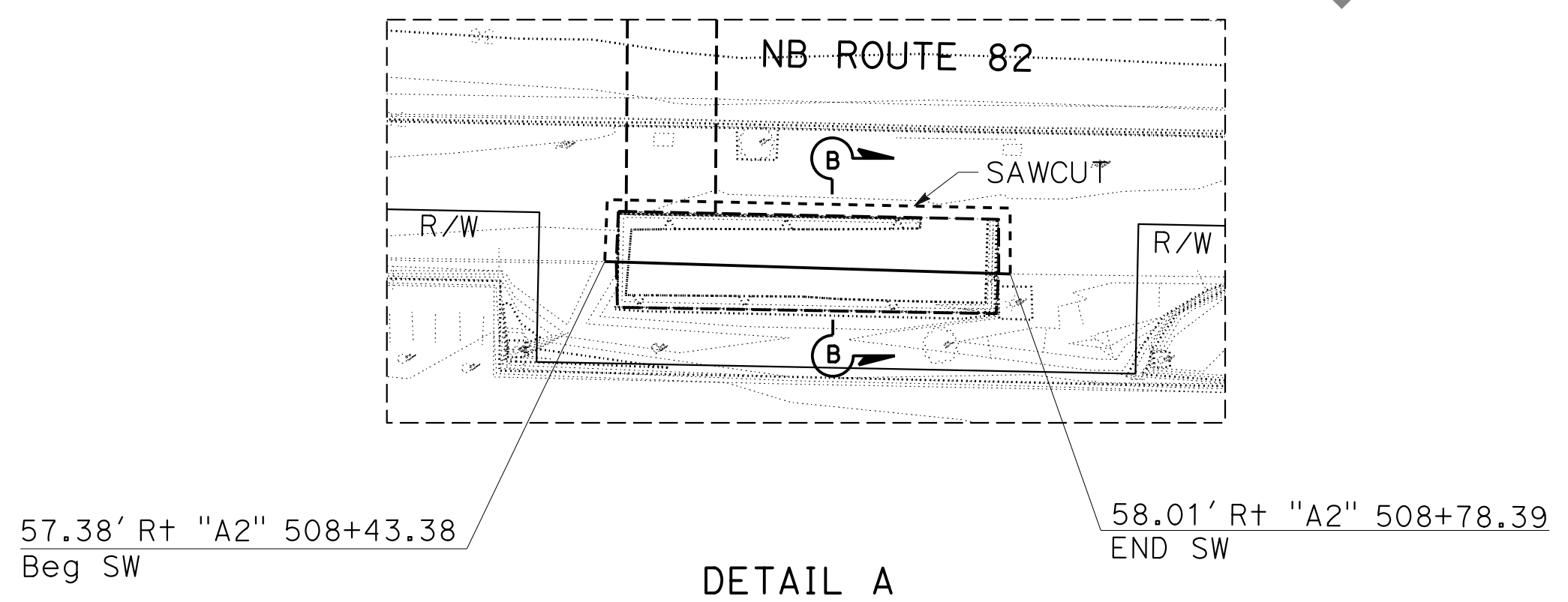
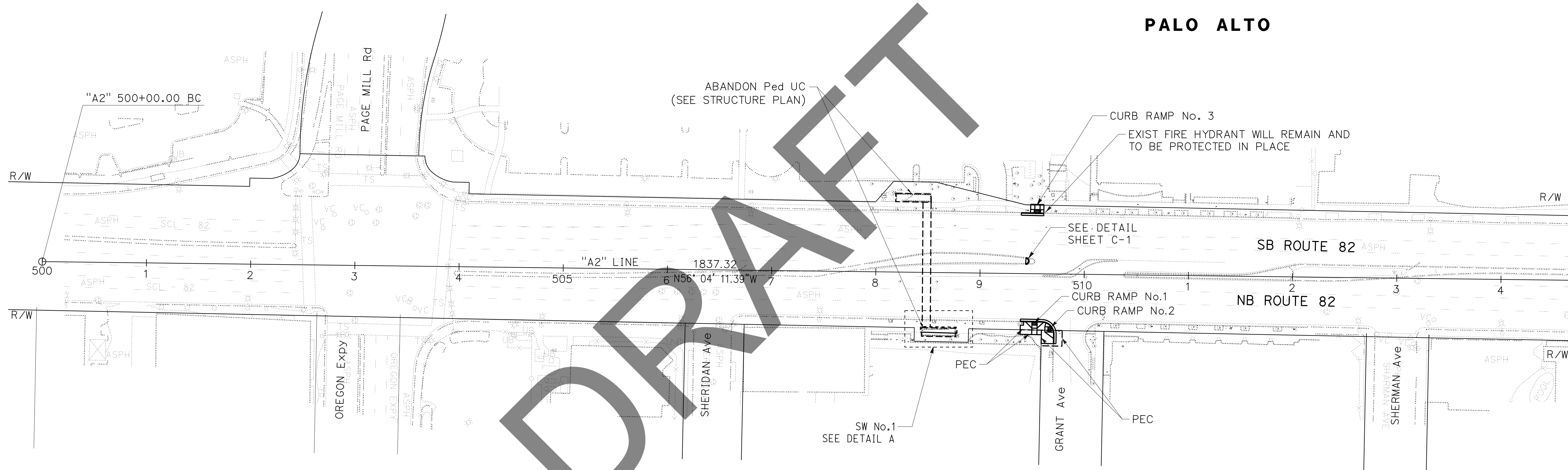
  

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

FUNCTIONAL SUPERVISOR: MUSTAOUR RAHMAN  
CALCULATED/DESIGNED BY: KKENNY YAP  
CHECKED BY: MUSTAOUR RAHMAN  
REVISED BY: DATE  
REVISED BY: DATE



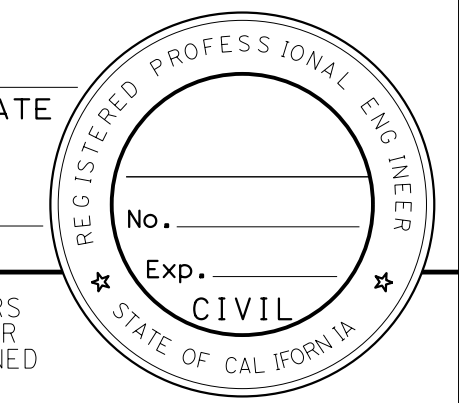
FOR NOTE, ABBREVIATION AND LEGEND, SEE SHEET L-1

**LAYOUT LOCATION 2**  
SCALE: 1" = 50'

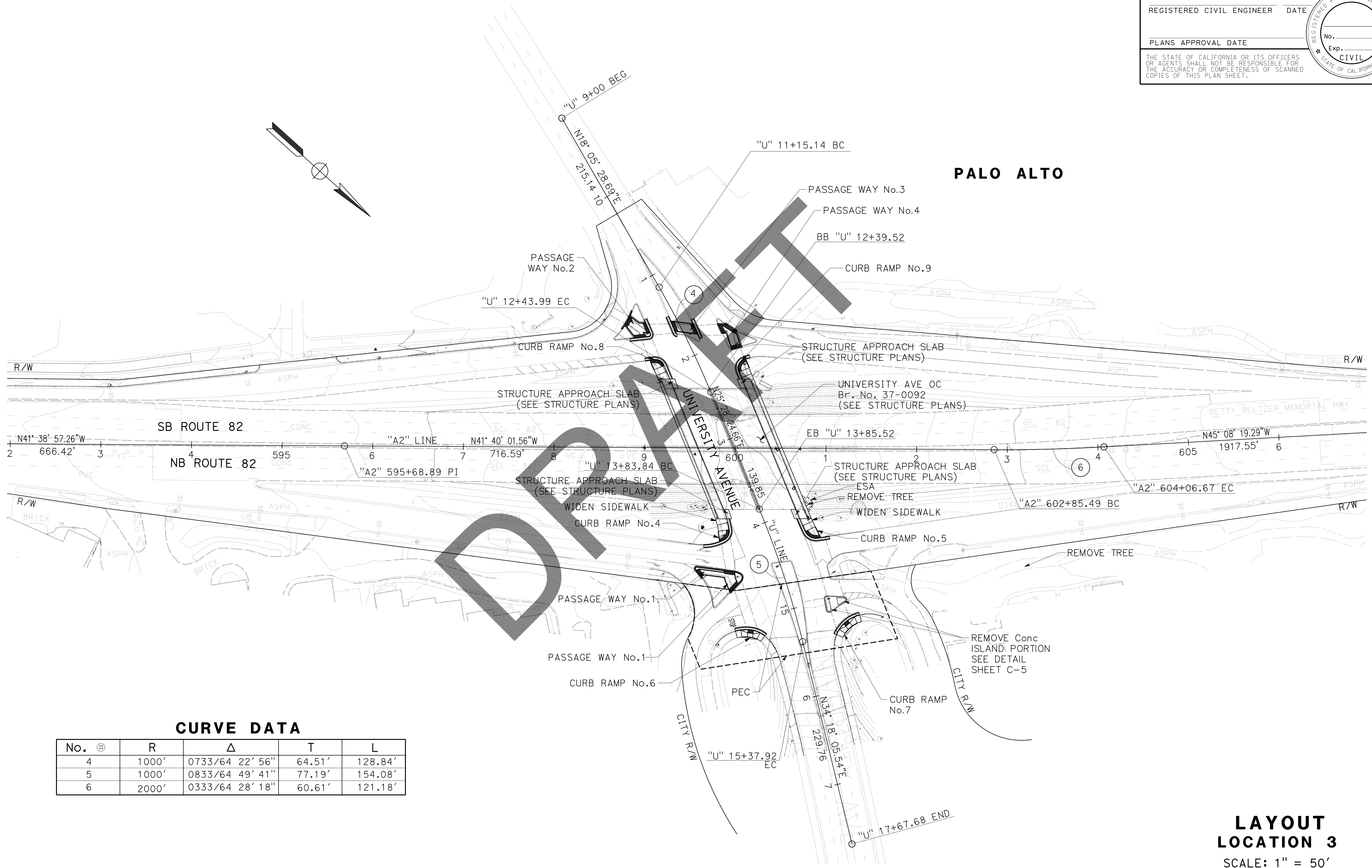
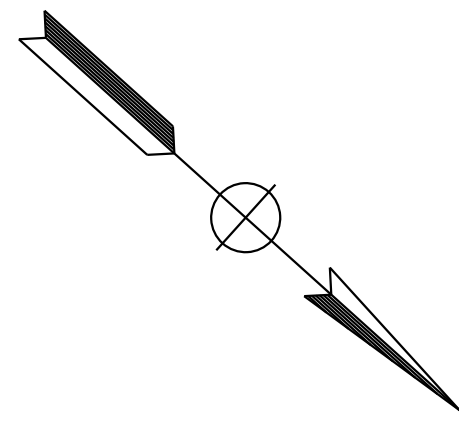
**L-2**

LAST REVISION: DATE PLOTTED => 22-FEB-2023 10-21-21 TIME PLOTTED => 09:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X
REGISTERED CIVIL ENGINEER				DATE	
PLANS APPROVAL DATE				No.	
				Exp.	
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**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**CURVE DATA**

No.	⊕	R	Δ	T	L
4		1000'	0733/64 22' 56"	64.51'	128.84'
5		1000'	0833/64 49' 41"	77.19'	154.08'
6		2000'	0333/64 28' 18"	60.61'	121.18'

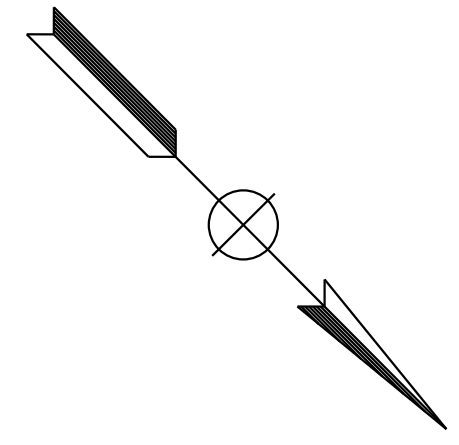
**LAYOUT  
 LOCATION 3**  
 SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 kKENNY YAP  
 MUSTAQUR RAHMAN  
 MUSTAQUR RAHMAN  
 MUSTAQUR RAHMAN  
 Et Caltrans

LAST REVISION: DATE PLOTTED => 22-FEB-2023  
 10-21-21 TIME PLOTTED => 09:22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**PALO ALTO**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

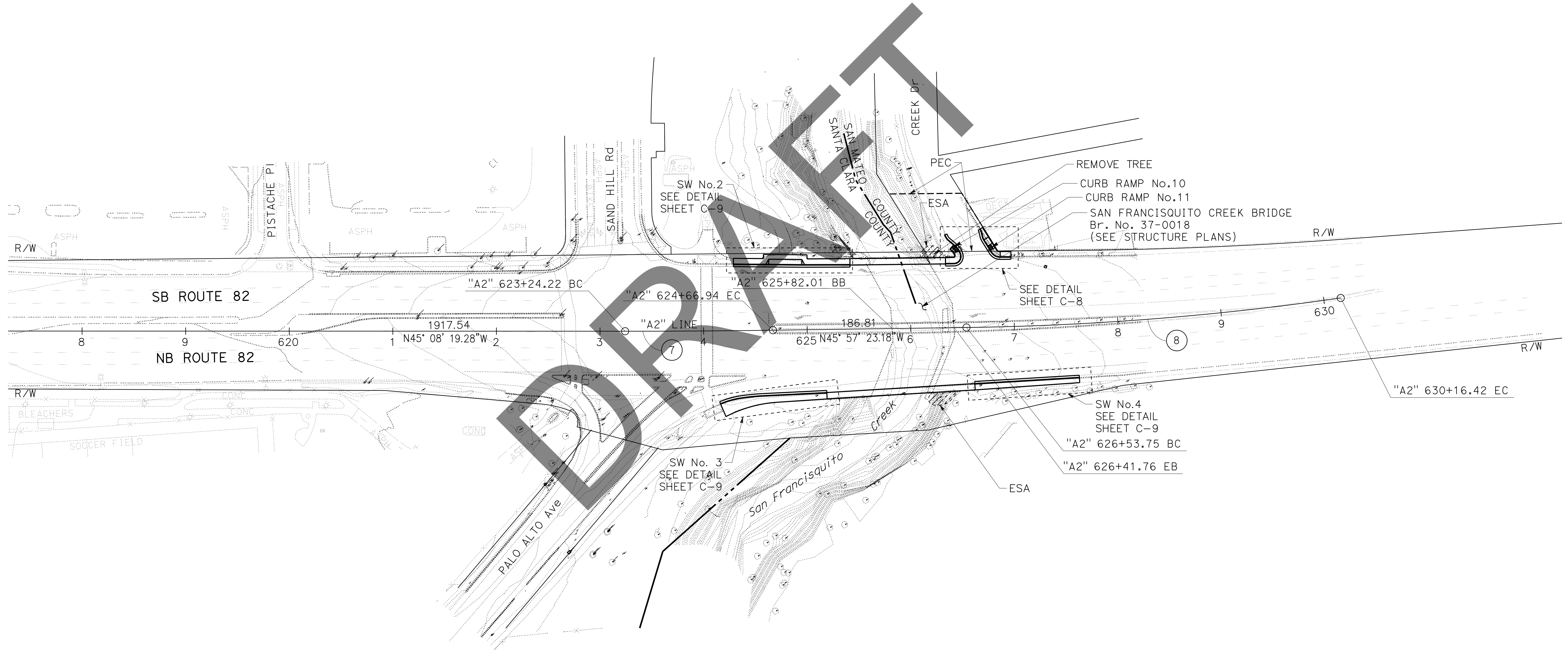
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**CURVE DATA**

No. ⊕	R	Δ	T	L
7	10000'	00° 49' 04"	71.36'	142.72'
8	2800'	07° 25' 17"	181.59'	362.67'



**LAYOUT  
 LOCATION 4**  
 SCALE: 1" = 50'

**L-4**

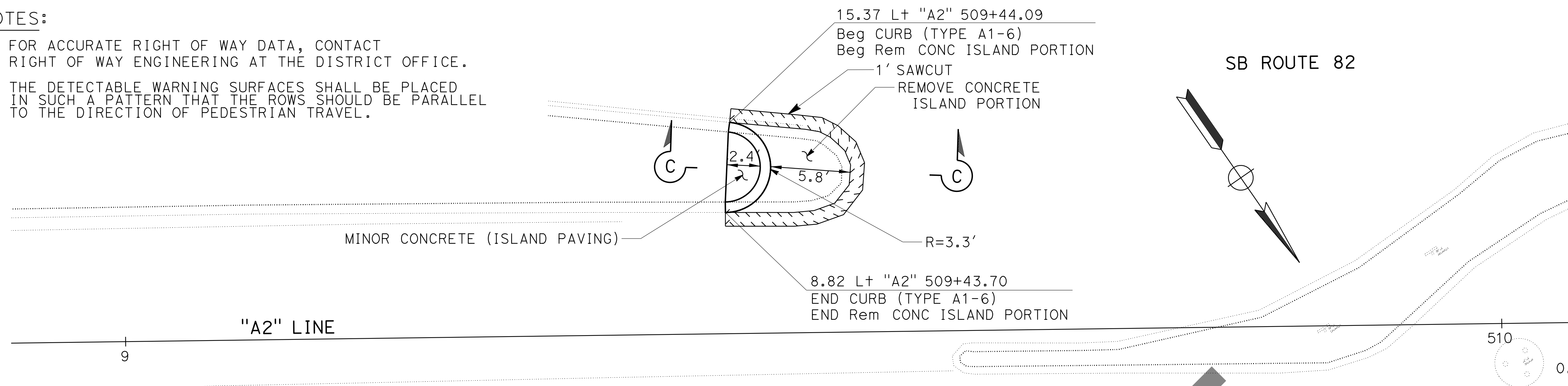
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: MUSTAQUR RAHMAN  
 CHECKED BY: MUSTAQUR RAHMAN  
 CALCULATED/DESIGNED BY: KKENNY YAP  
 REVISOR: MUSTAQUR RAHMAN  
 DATE: 7/2/2010

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- THE DETECTABLE WARNING SURFACES SHALL BE PLACED IN SUCH A PATTERN THAT THE ROWS SHOULD BE PARALLEL TO THE DIRECTION OF PEDESTRIAN TRAVEL.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 No. \_\_\_\_\_  
 Exp. \_\_\_\_\_  
 CIVIL  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**CURVE DATA**

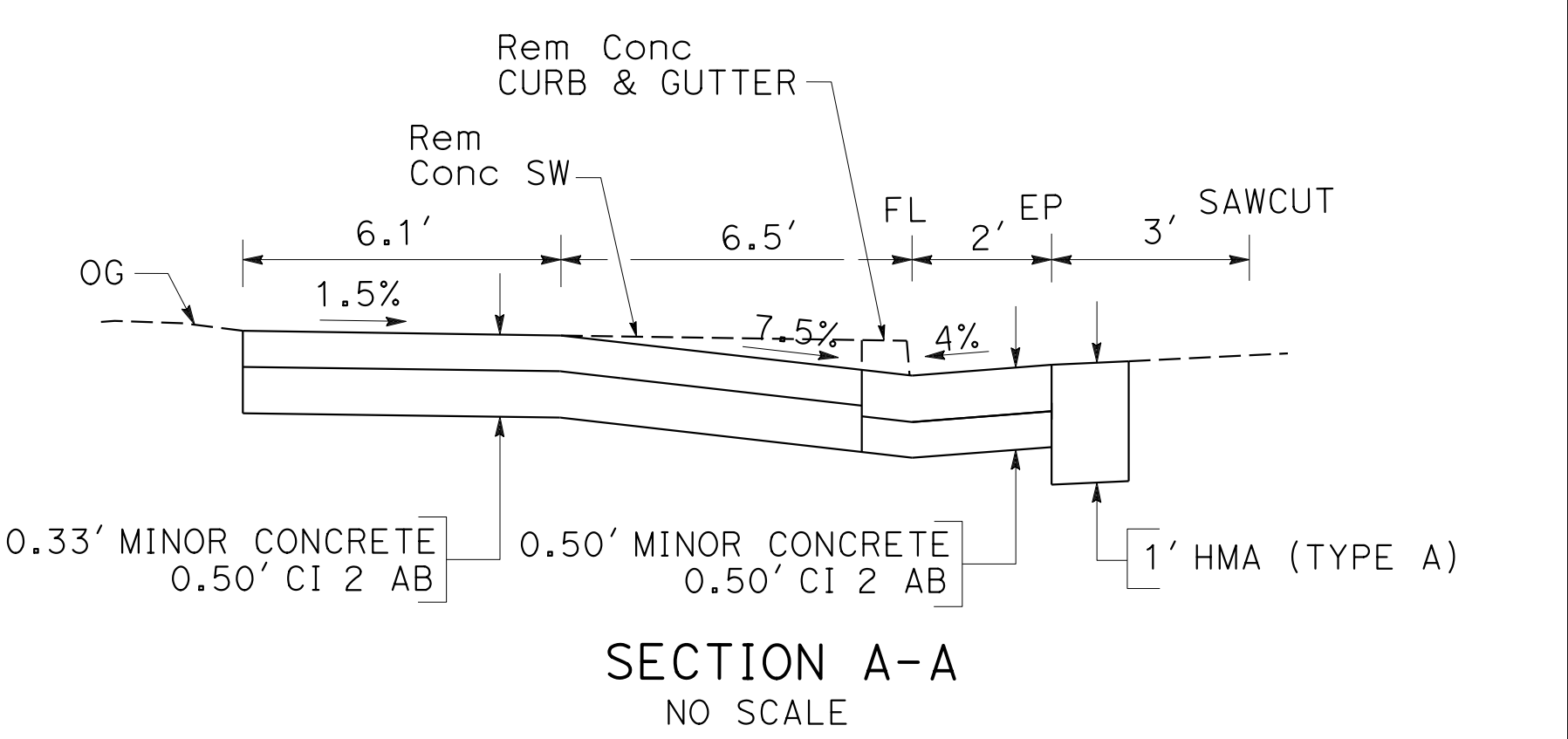
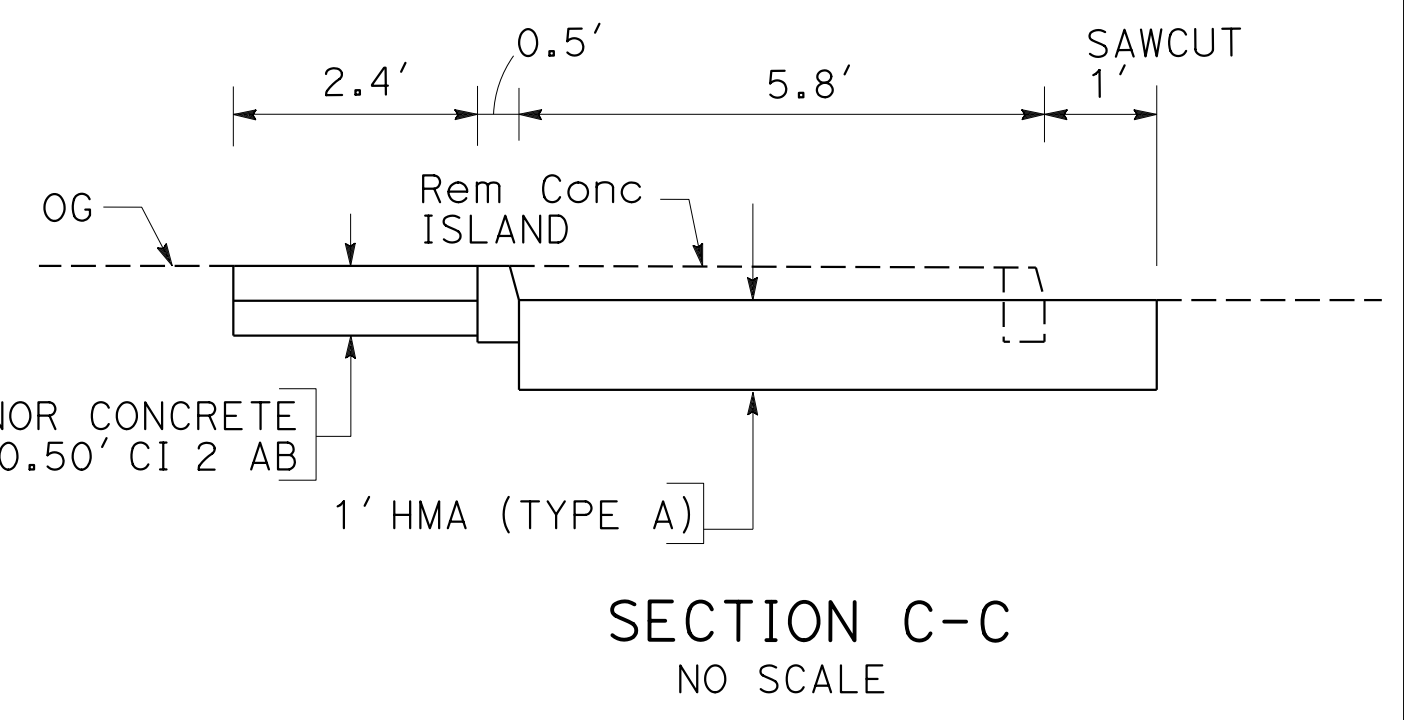
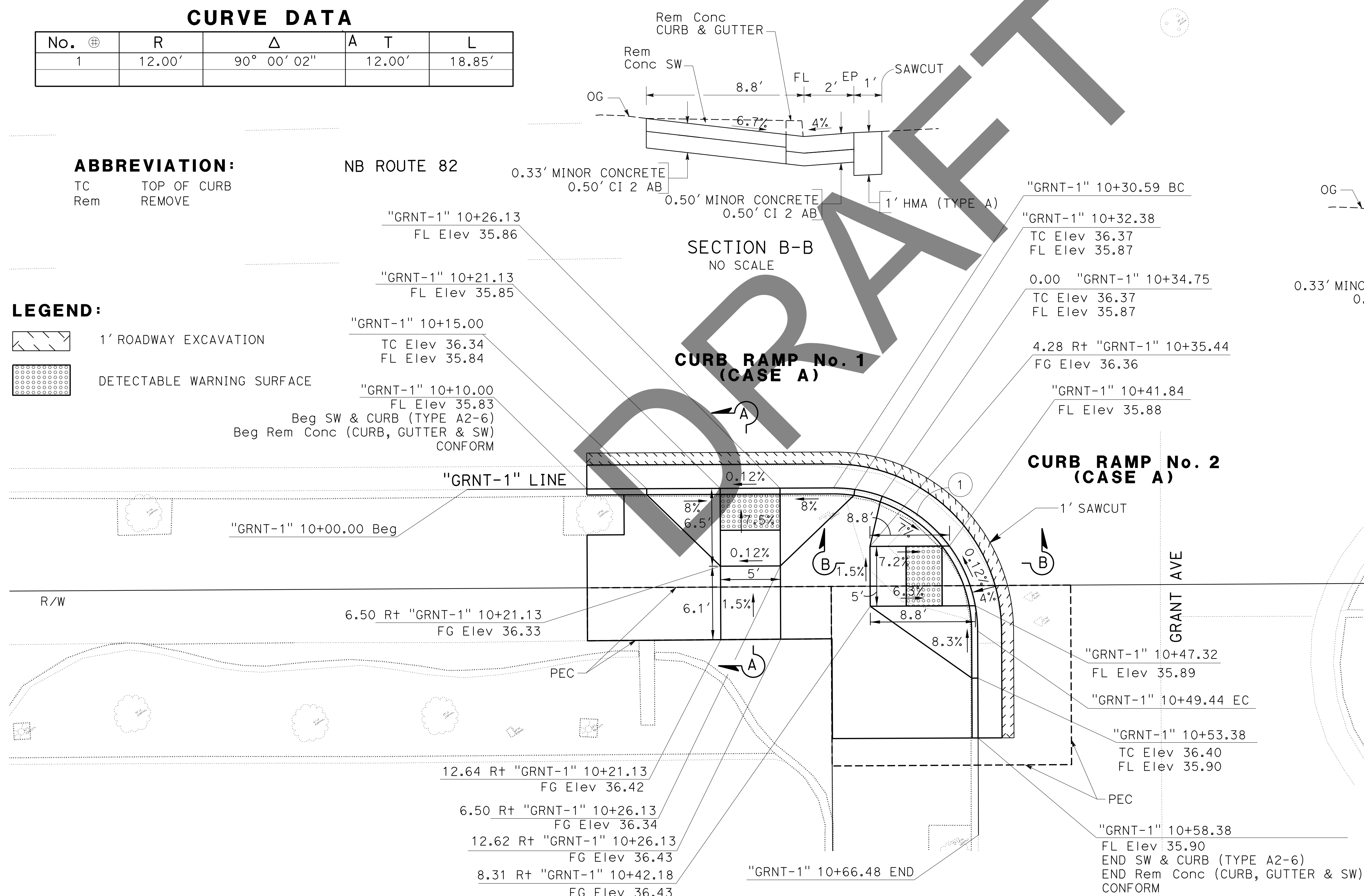
No.	⊕	R	Δ	A	T	L
1		12.00'	90° 00' 02"	12.00'	18.85'	

**ABBREVIATION:**

TC TOP OF CURB  
 Rem REMOVE

**LEGEND:**

- 1' ROADWAY EXCAVATION
- DETECTABLE WARNING SURFACE



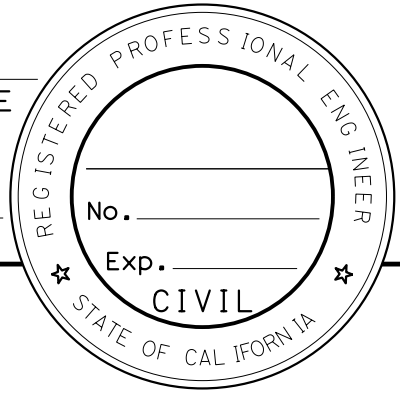
**CONSTRUCTION DETAILS**  
NO SCALE

**C-1**

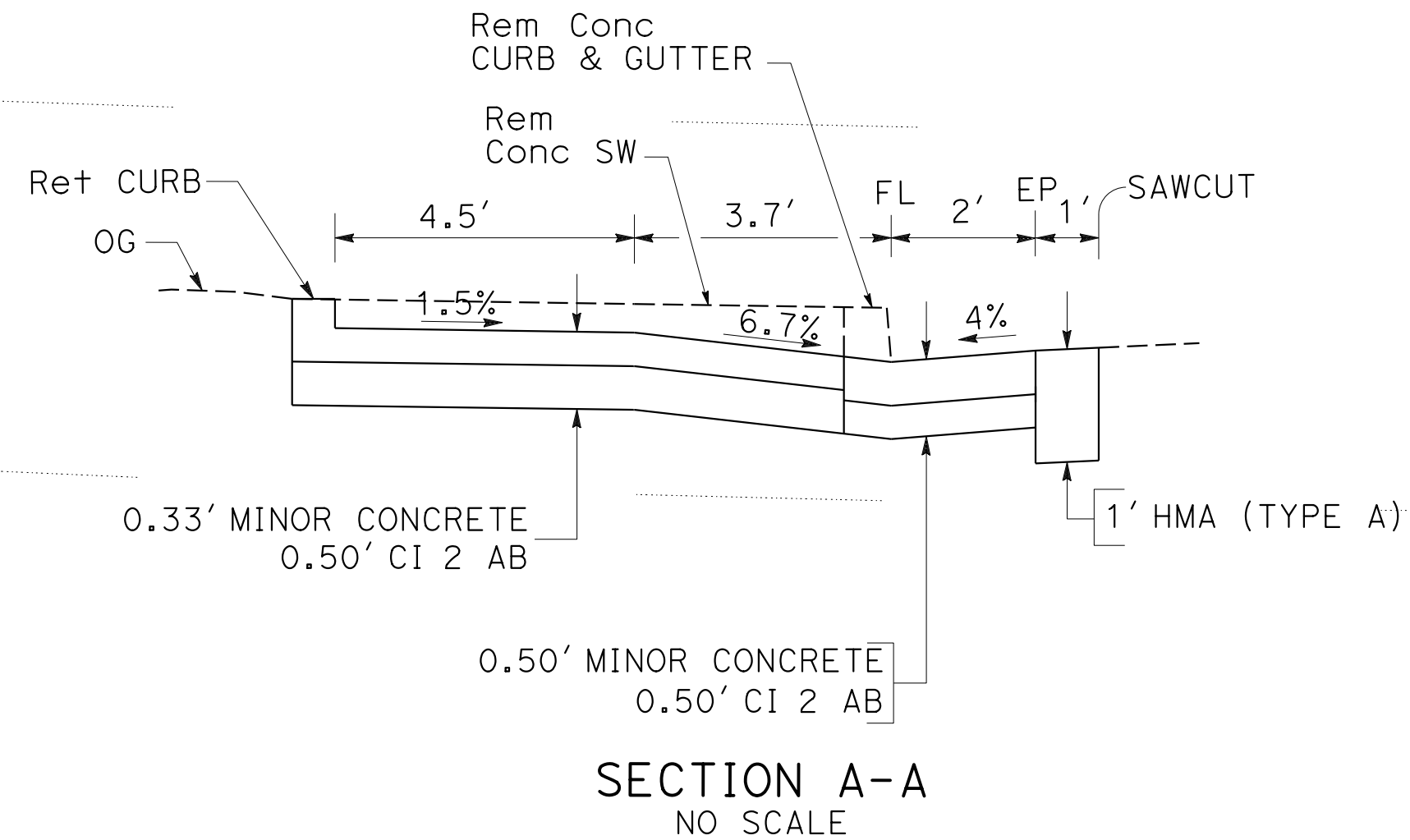
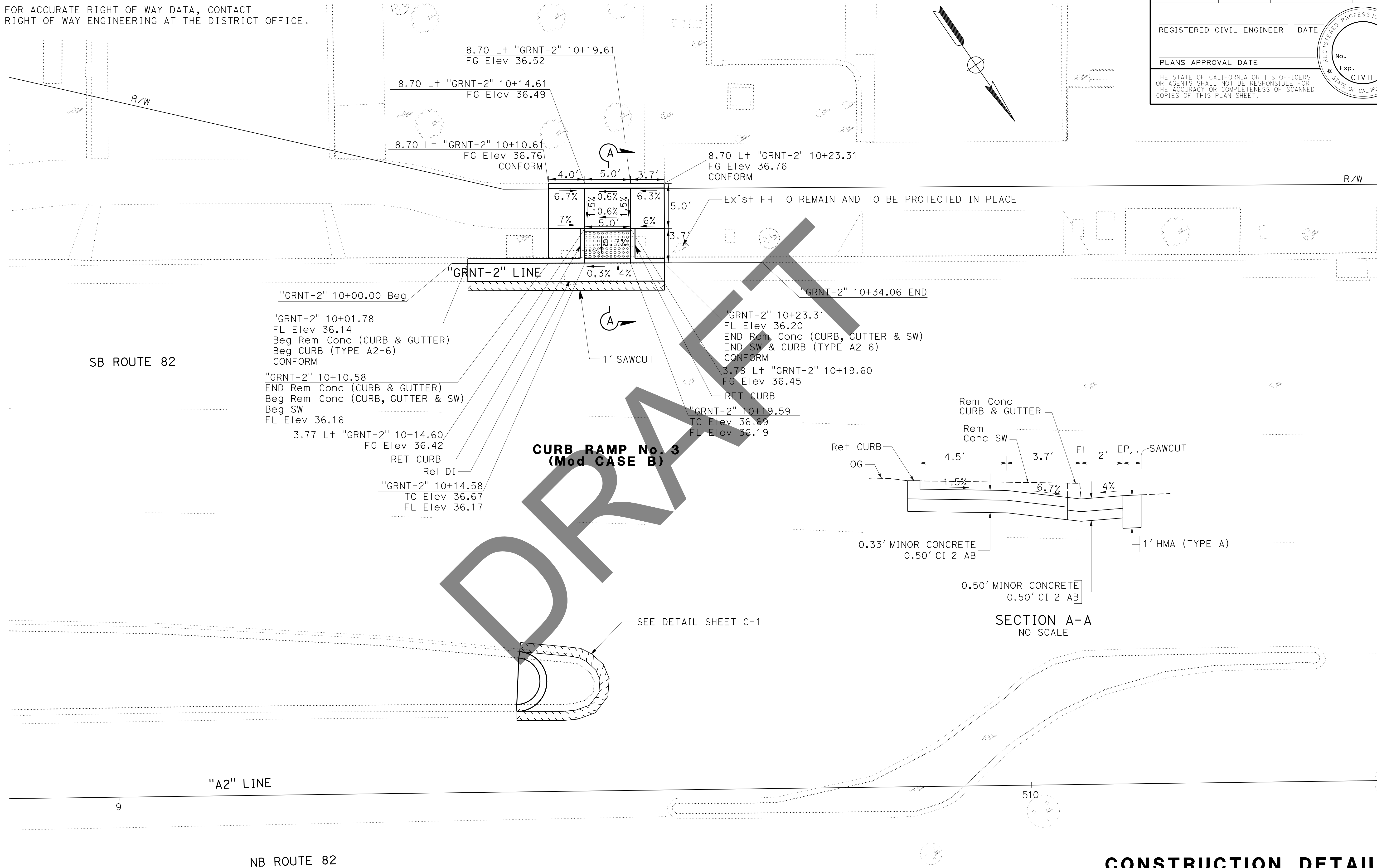


LAST REVISION DATE PLOTTED => 22-FEB-2023  
 10-21-21 TIME PLOTTED => 09:24

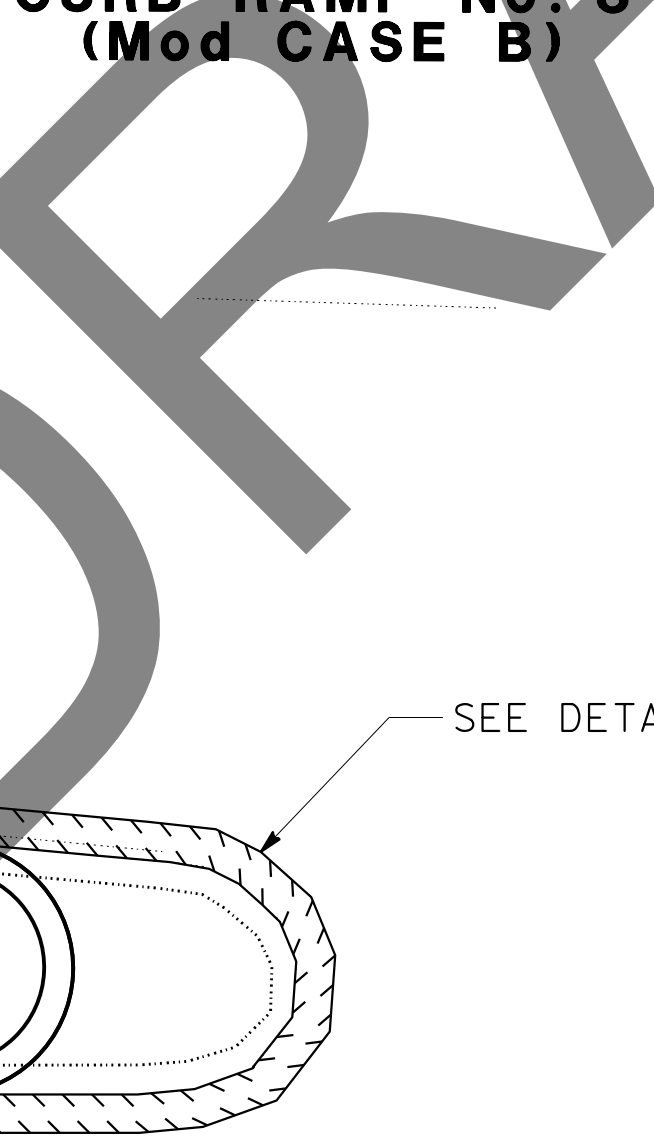
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**CURB RAMP No. 3 (Mod CASE B)**



SEE DETAIL SHEET C-1

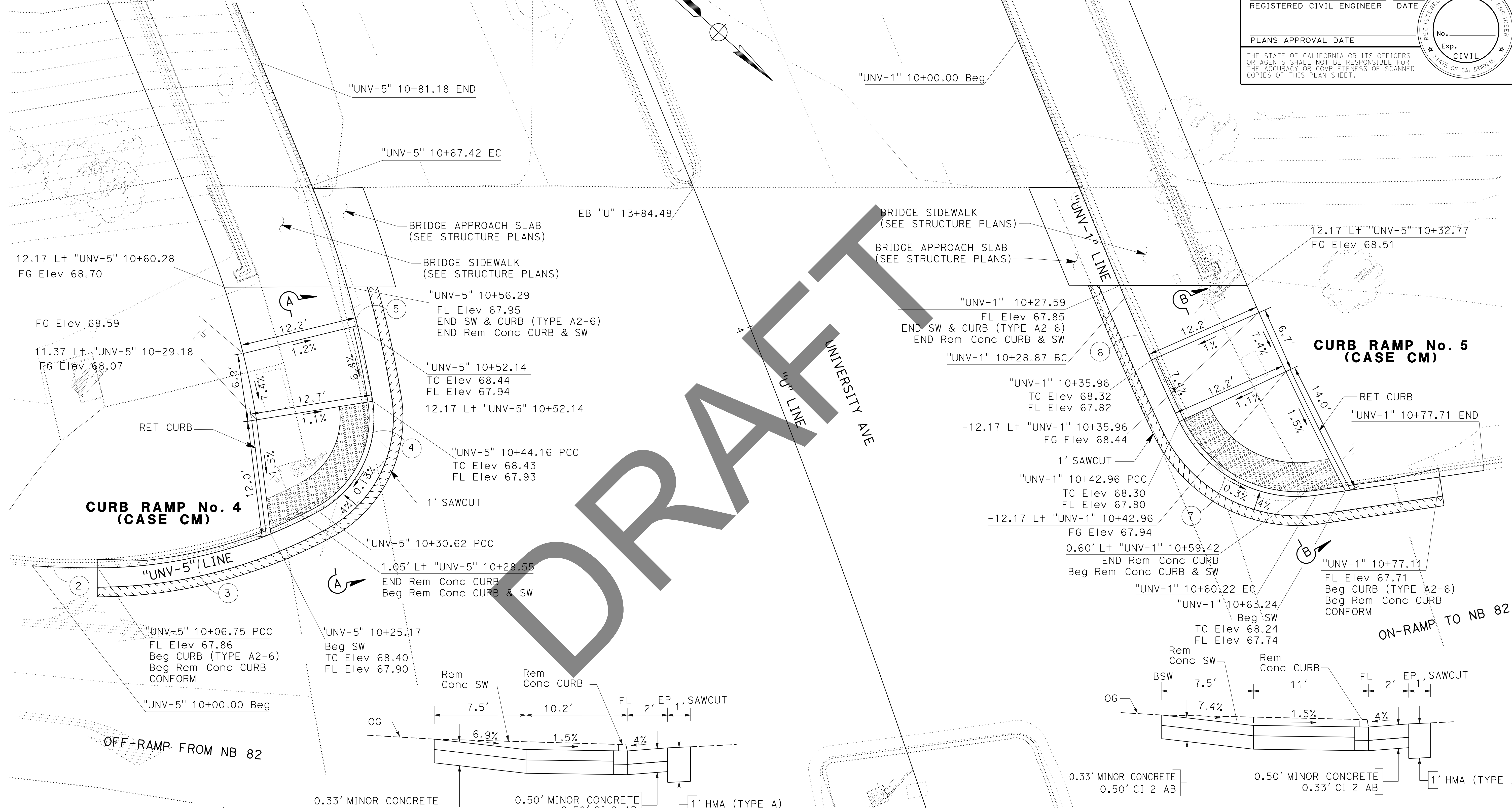
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE	REVISOR	DATE
	FUNCTIONAL SUPERVISOR	MUSTAQR RAHMAN	DESIGNED BY	KKENNY YAP
	CHECKED BY		REVISION	
	CALCULATED/DESIGNED BY		REVISION	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 No. \_\_\_\_\_  
 Exp. \_\_\_\_\_  
 CIVIL  
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

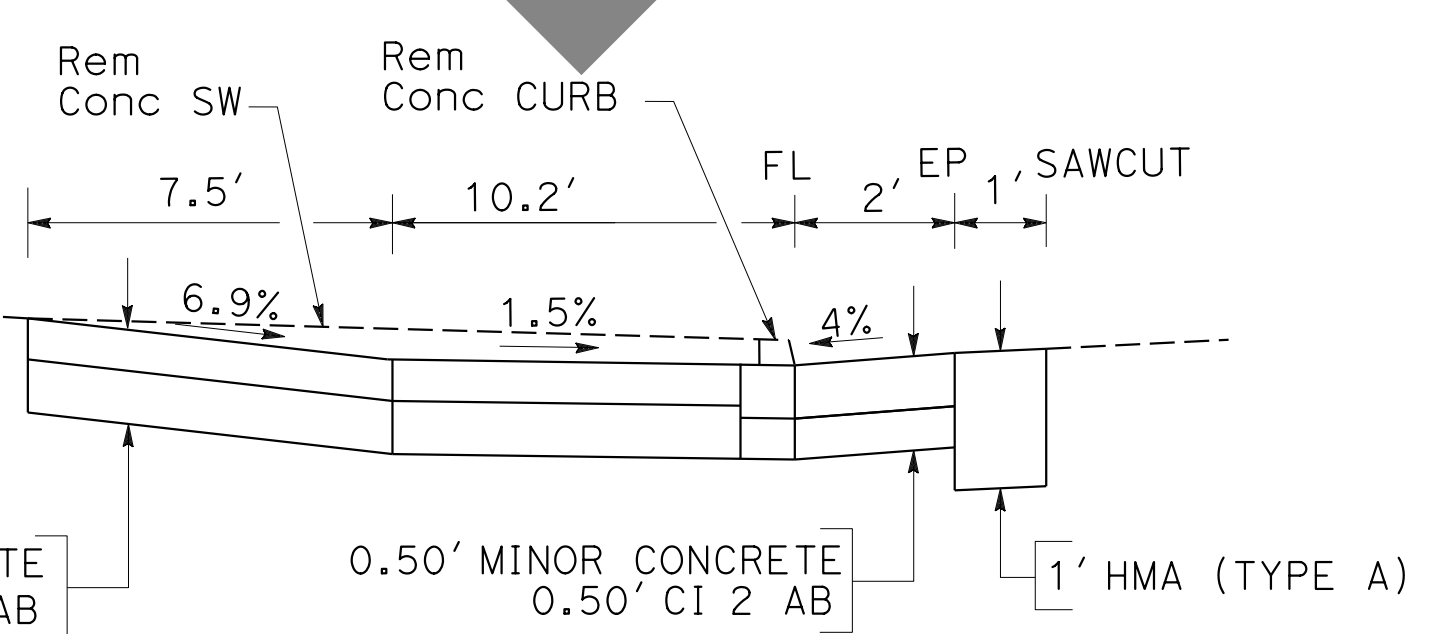


CURB RAMP No. 4 (CASE CM)

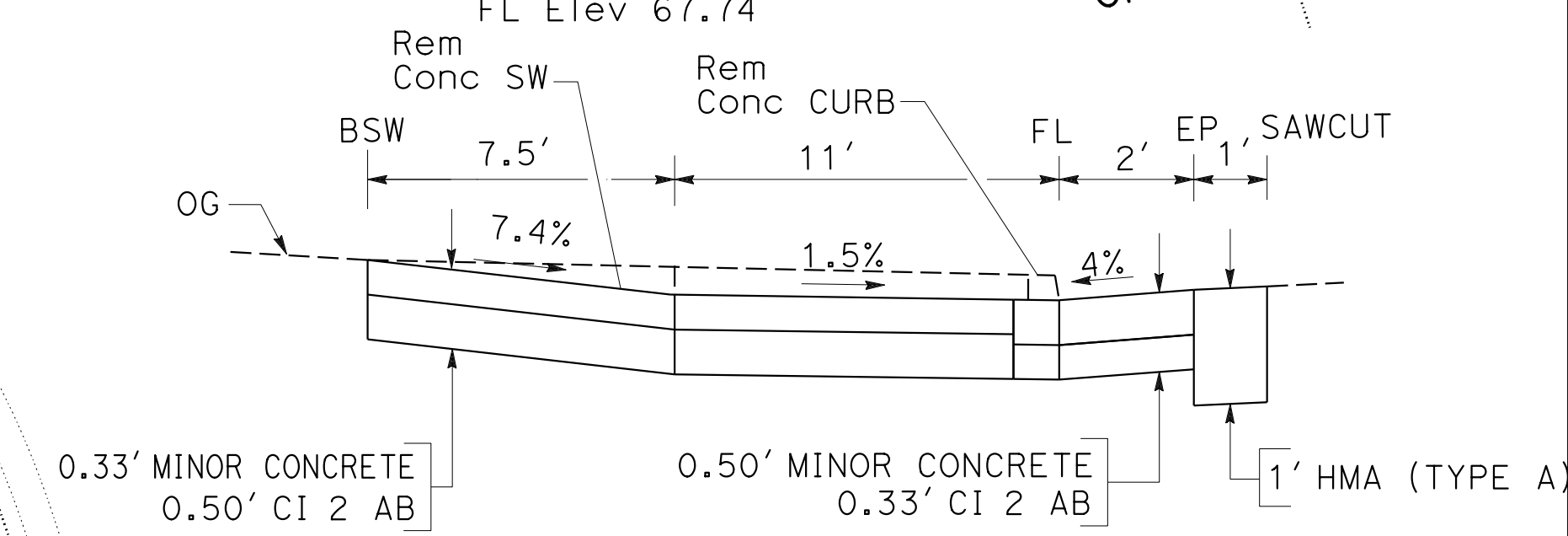
CURVE DATA

No.	⊕	R	Δ	T	L
2		100.00'	03° 52' 06"	3.38'	6.75'
3		48.00'	28° 29' 41"	12.19'	23.87'
4		11.00'	70° 31' 58"	7.78'	13.54'
5		100.00'	13° 19' 22"	11.68'	23.25'
6		300.00'	02° 41' 27"	7.05'	14.09'
7		13.50'	73° 14' 21"	10.03'	17.26'

SECTION A-A  
NO SCALE



SECTION B-B  
NO SCALE



CONSTRUCTION DETAILS  
NO SCALE

FOR NOTE, ABBREVIATION AND  
 LEGEND, SEE SHEET C-1

C-3



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

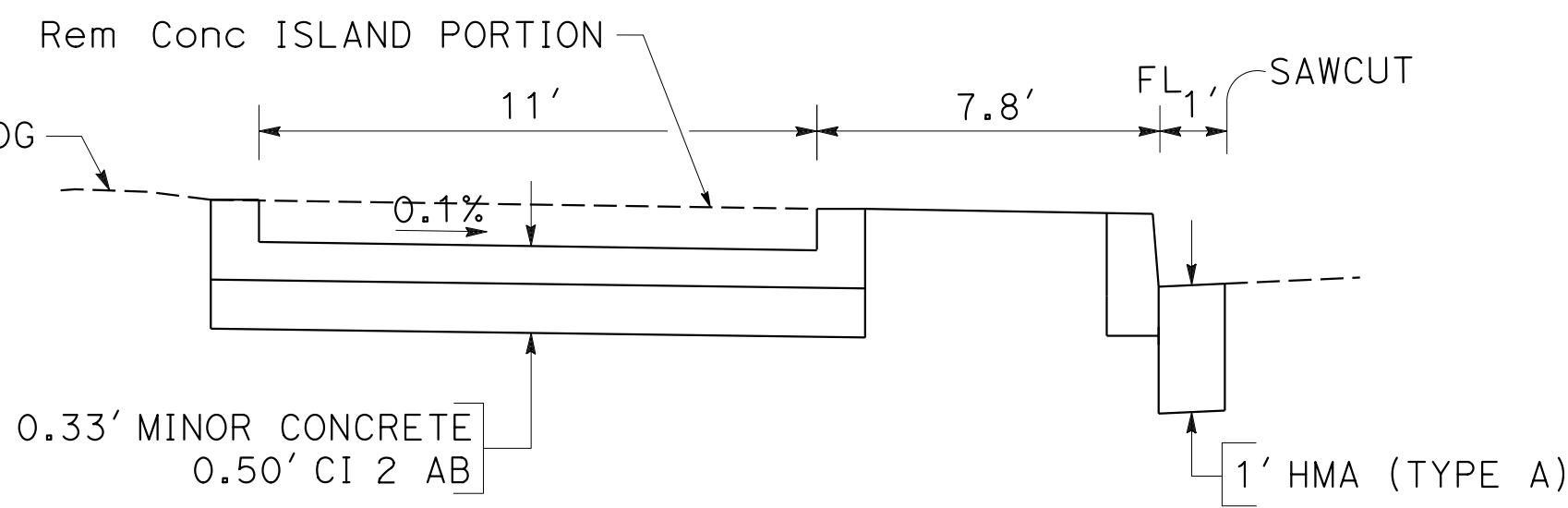
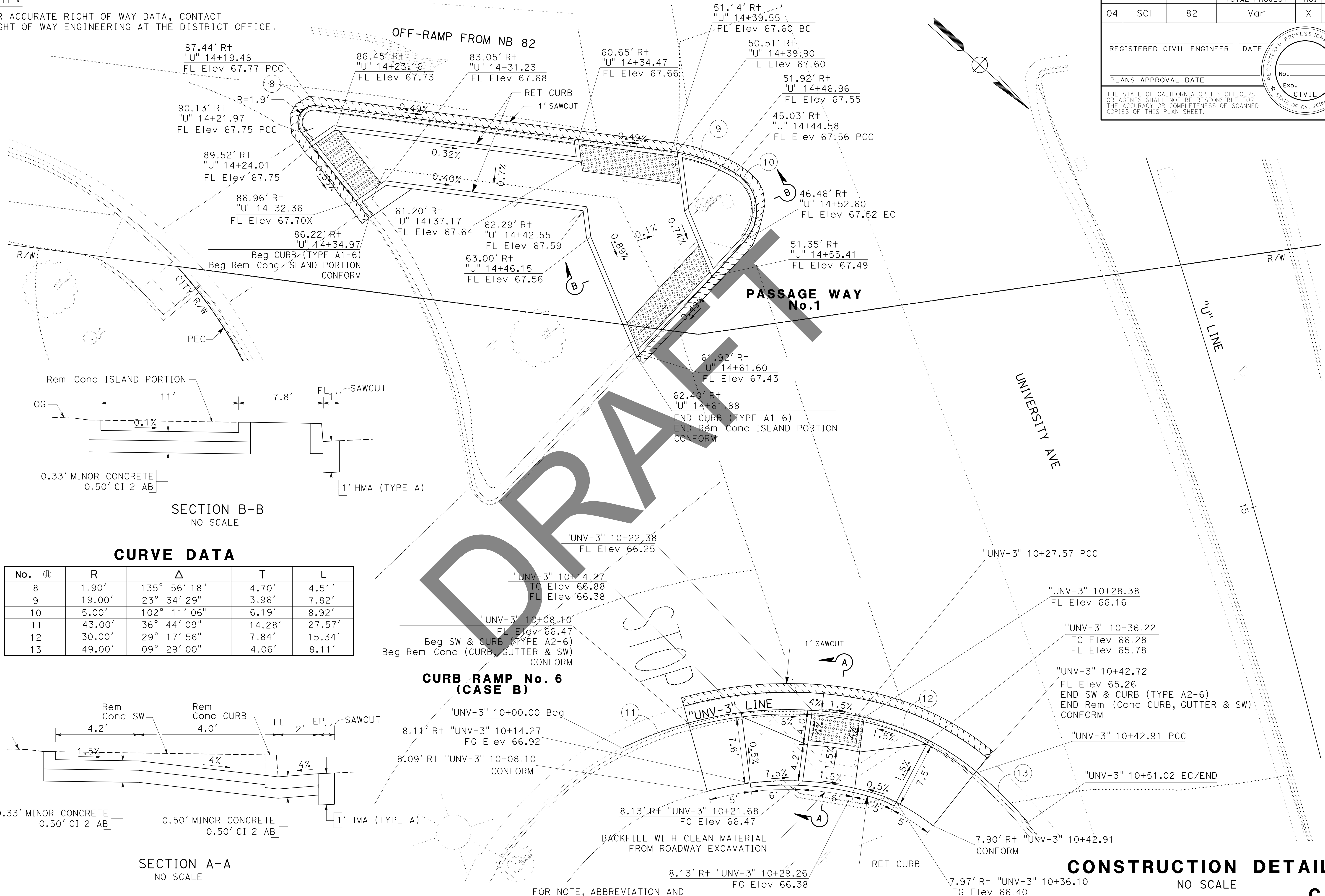
  

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

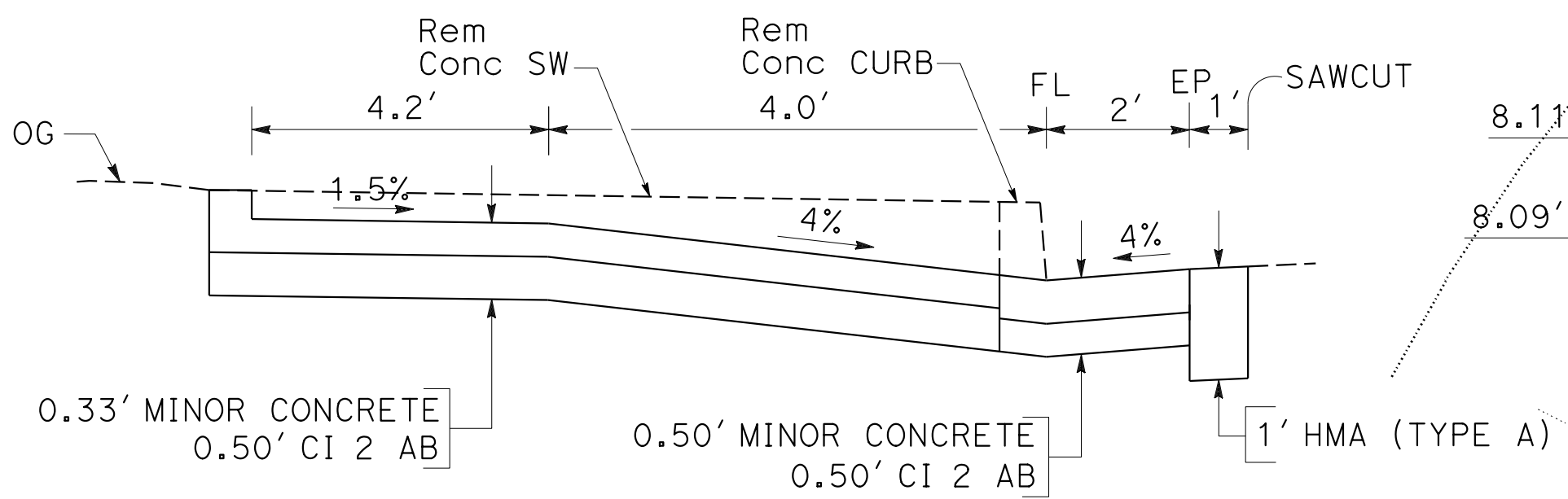


SECTION B-B  
NO SCALE

**CURVE DATA**

No.	⊕	R	Δ	T	L
8		1.90'	135° 56' 18"	4.70'	4.51'
9		19.00'	23° 34' 29"	3.96'	7.82'
10		5.00'	102° 11' 06"	6.19'	8.92'
11		43.00'	36° 44' 09"	14.28'	27.57'
12		30.00'	29° 17' 56"	7.84'	15.34'
13		49.00'	09° 29' 00"	4.06'	8.11'

**CURB RAMP No. 6 (CASE B)**



SECTION A-A  
NO SCALE

**CONSTRUCTION DETAILS**  
NO SCALE

FOR NOTE, ABBREVIATION AND LEGEND, SEE SHEET C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

USERNAME => s146237  
DGN FILE => 0P9801 C4.dgn

RELATIVE BORDER SCALE  
1/8" = 1'



UNIT 0716

PROJECT NUMBER & PHASE

0418000032

DATE PLOTTED => 22-FEB-2023  
TIME PLOTTED => 09:26

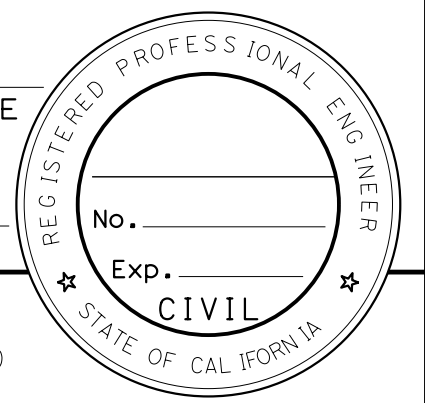
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

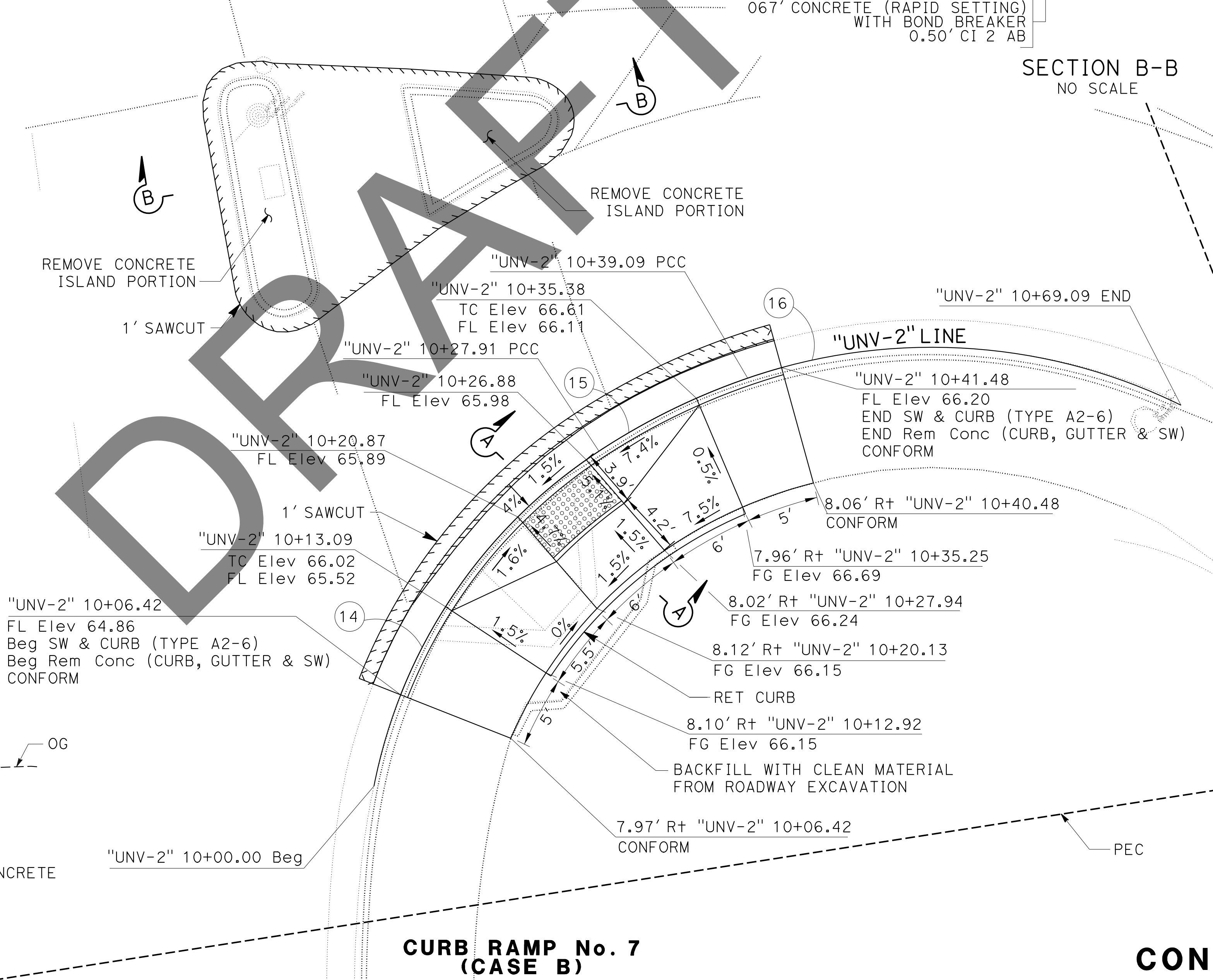
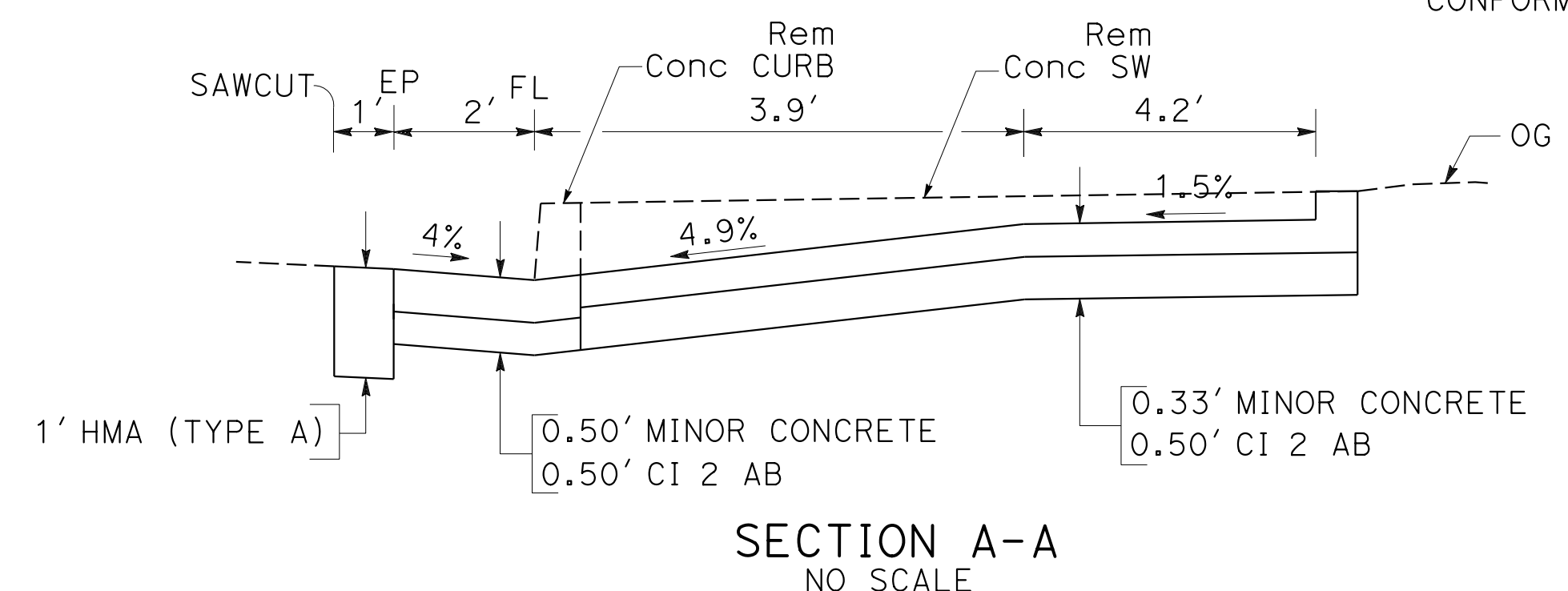
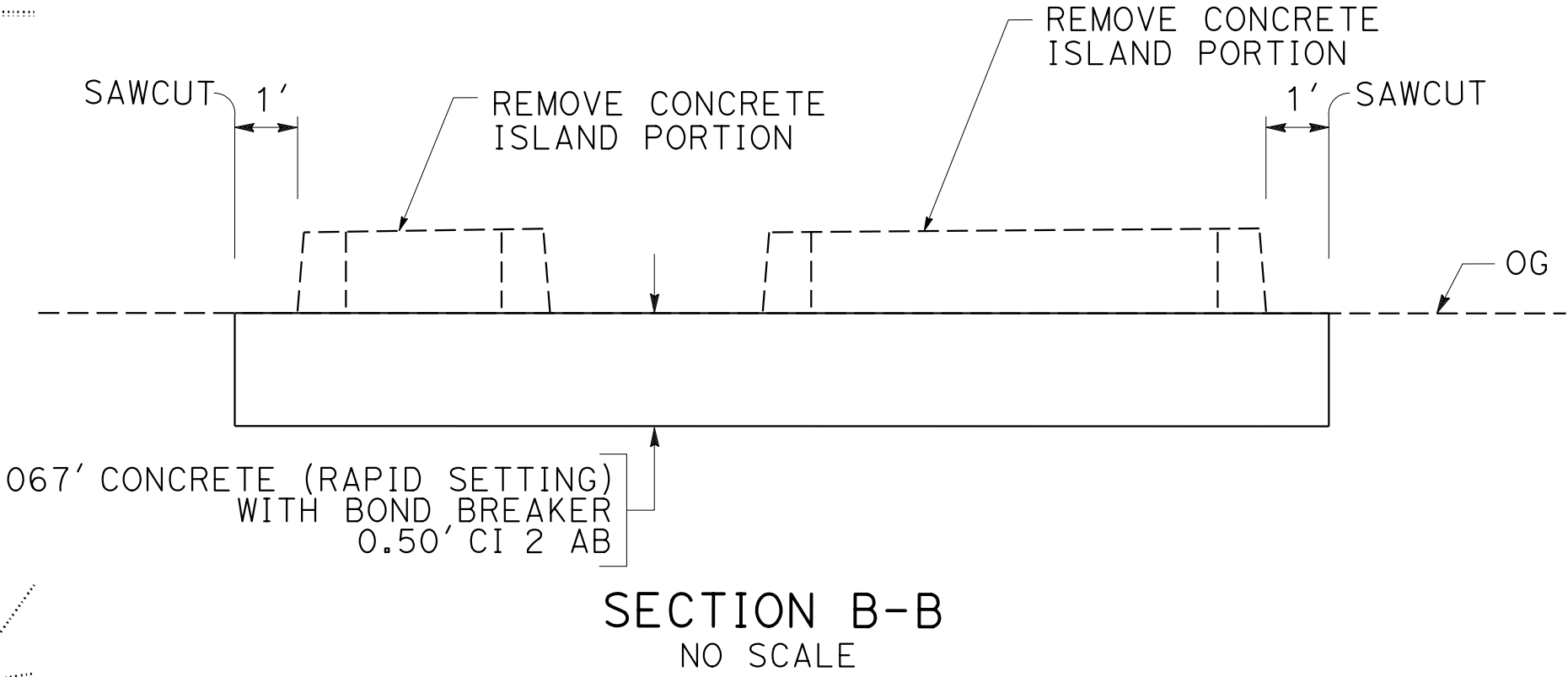
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

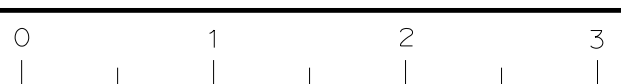
**CURVE DATA**

No.	⊕	R	Δ	T	L
14		35.00'	45° 41' 07"	14.74'	27.91'
15		45.00'	14° 14' 34"	5.62'	11.19'
16		38.00'	45° 14' 01"	15.83'	30.00'



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: MUSTAQUR RAHMAN  
 CHECKED BY: MUSTAQUR RAHMAN  
 REVISIONS: [None]  
 DESIGNED BY: KKENNY YAP  
 DATE: [None]  
 REVISIONS: [None]  
 DATE: [None]

FOR NOTE, ABBREVIATION AND LEGEND, SEE SHEET C-1



NOTE:  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**CURVE DATA**

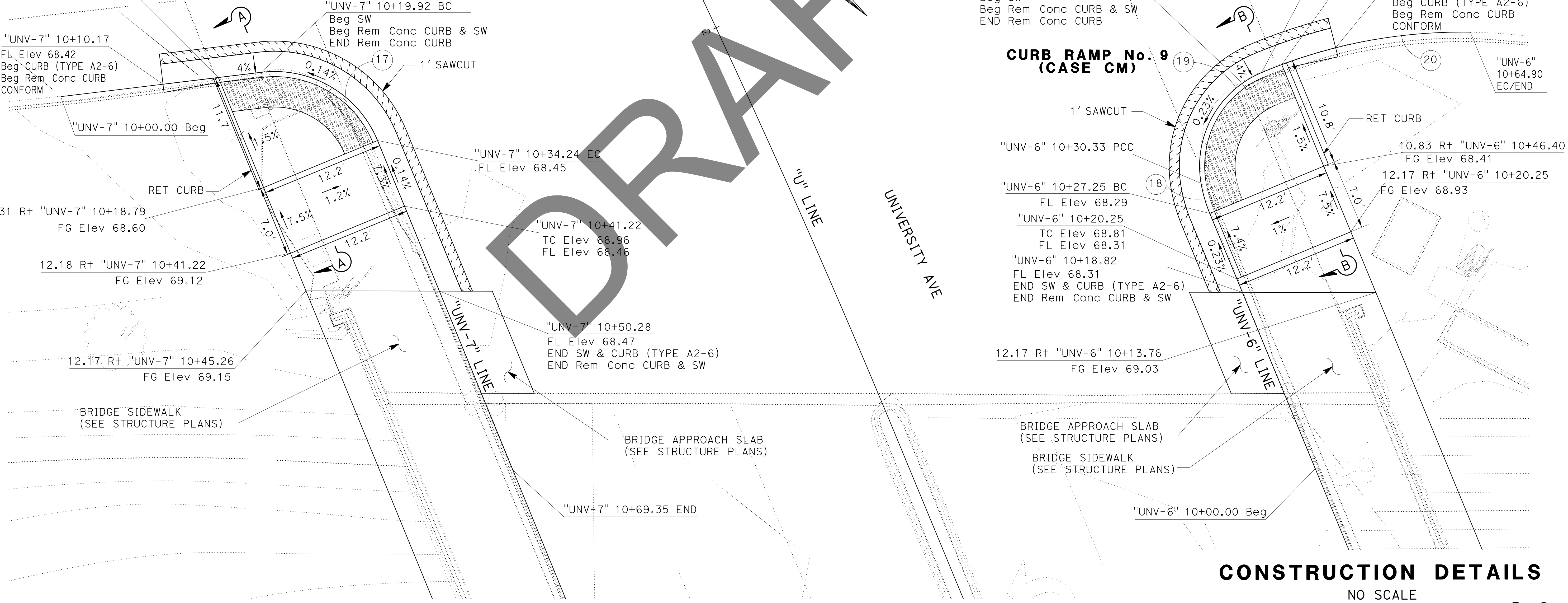
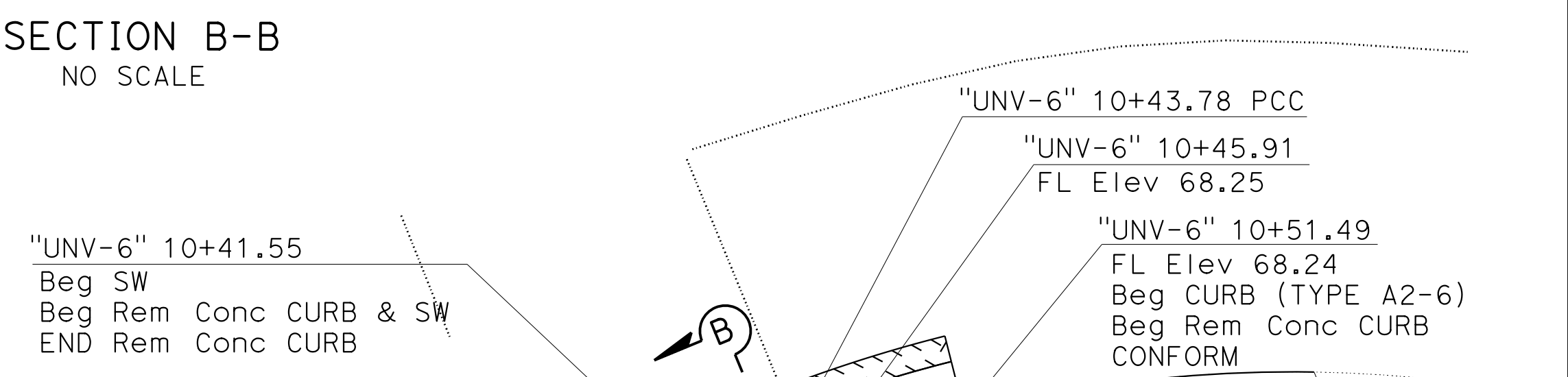
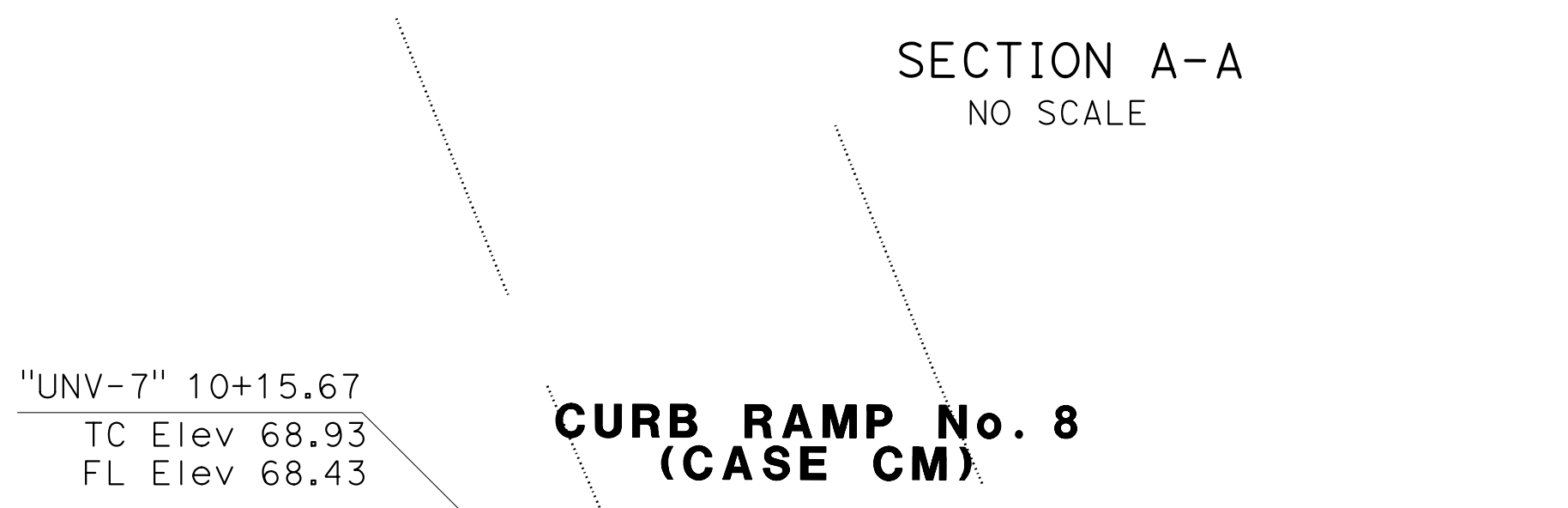
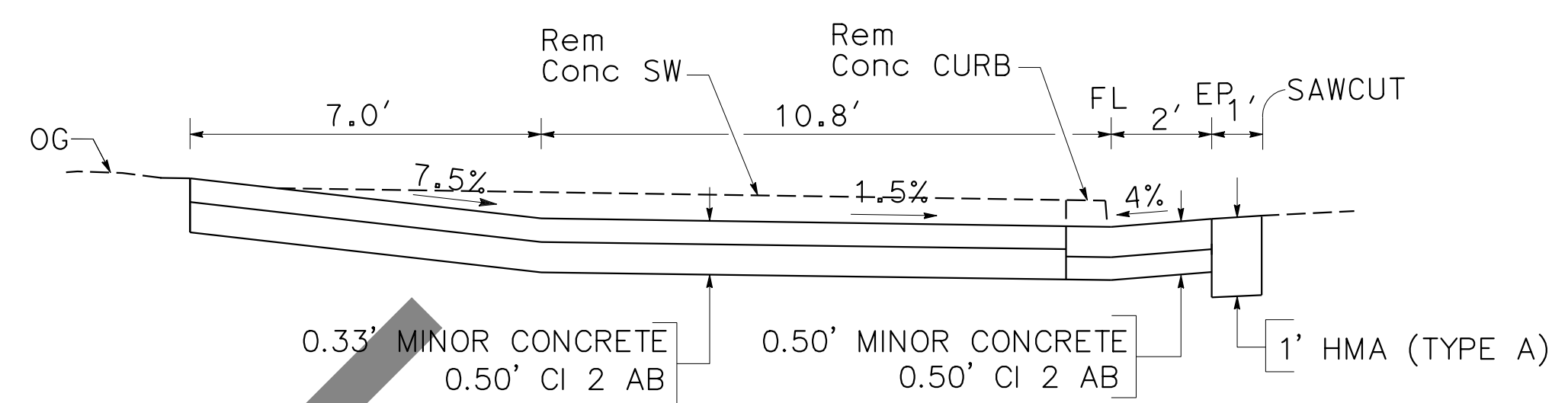
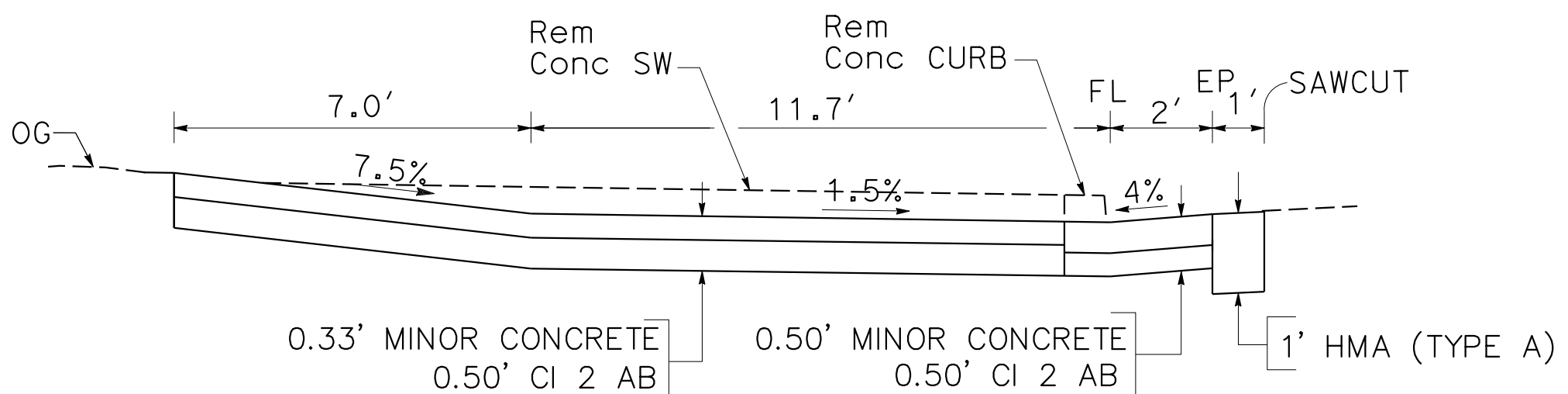
No.	⊕	R	Δ	T	L
17		11.00'	74° 34' 50"	8.38'	14.32'
18		14.00'	12° 38' 33"	1.55'	3.09'
19		10.00'	77° 00' 26"	7.96'	13.44'
20		51.00'	23° 44' 10"	10.72'	21.13'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**CONSTRUCTION DETAILS**  
NO SCALE

C-6

REVISOR: KKENNY YAP, MUSTAQUR RAHMAN  
DESIGNER: MUSTAQUR RAHMAN  
FUNCTIONAL SUPERVISOR: MUSTAQUR RAHMAN  
DEPARTMENT OF TRANSPORTATION  
Caltrans

USERNAME => s146237  
DGN FILE => 0P9801 C6.dgn

RELATIVE BORDER SCALE 15 IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE

0418000032

FOR NOTE, ABBREVIATION AND LEGEND, SEE SHEET C-1

LAST REVISION: DATE PLOTTED => 22-FEB-2023  
10-21-21 TIME PLOTTED => 09:27

NOTE:  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

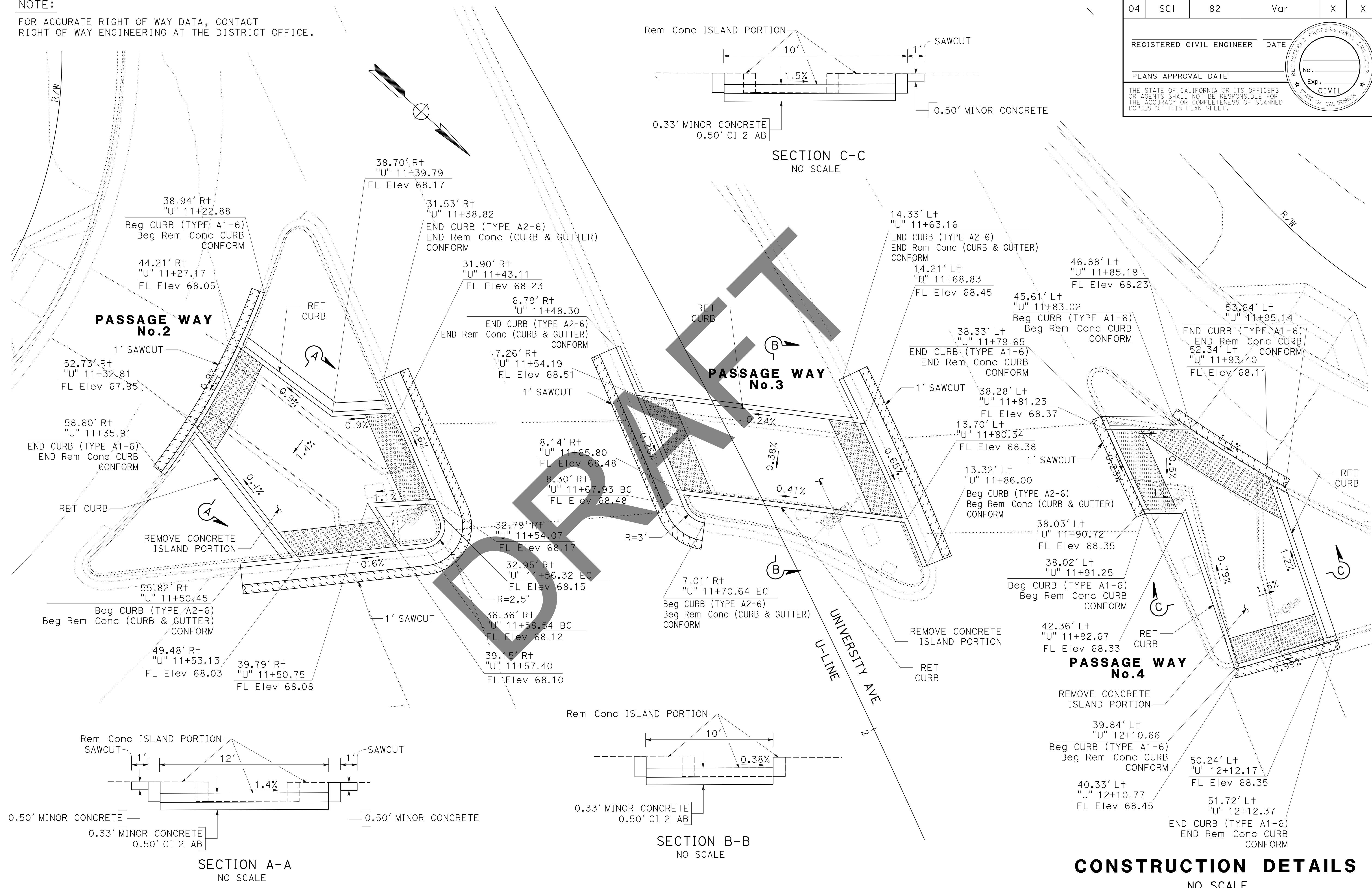
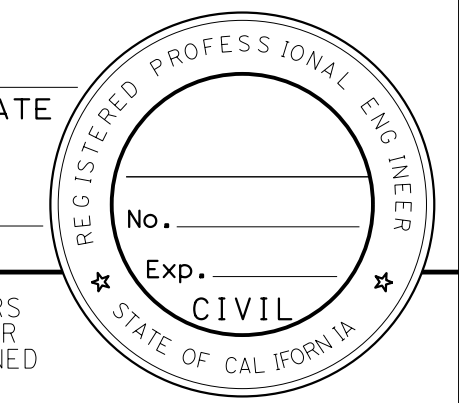
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**CONSTRUCTION DETAILS**  
NO SCALE

C-7

FOR NOTE, ABBREVIATION AND  
LEGEND, SEE SHEET C-1



REVISOR: KKENNY YAP  
DATE: [blank]  
DESIGNER: MUSTAQUR RAHMAN  
CHECKER: MUSTAQUR RAHMAN  
SUPERVISOR: MUSTAQUR RAHMAN  
DEPARTMENT: DEPARTMENT OF TRANSPORTATION  
STATE OF CALIFORNIA

USERNAME => s146237  
DGN FILE => 0P9801 C7.dgn

RELATIVE BORDER SCALE  
IS IN INCHES

UNIT 0716

PROJECT NUMBER & PHASE

0418000032

BORDER LAST REVISED 7/2/2010

DATE PLOTTED => 22-FEB-2023  
TIME PLOTTED => 09:28

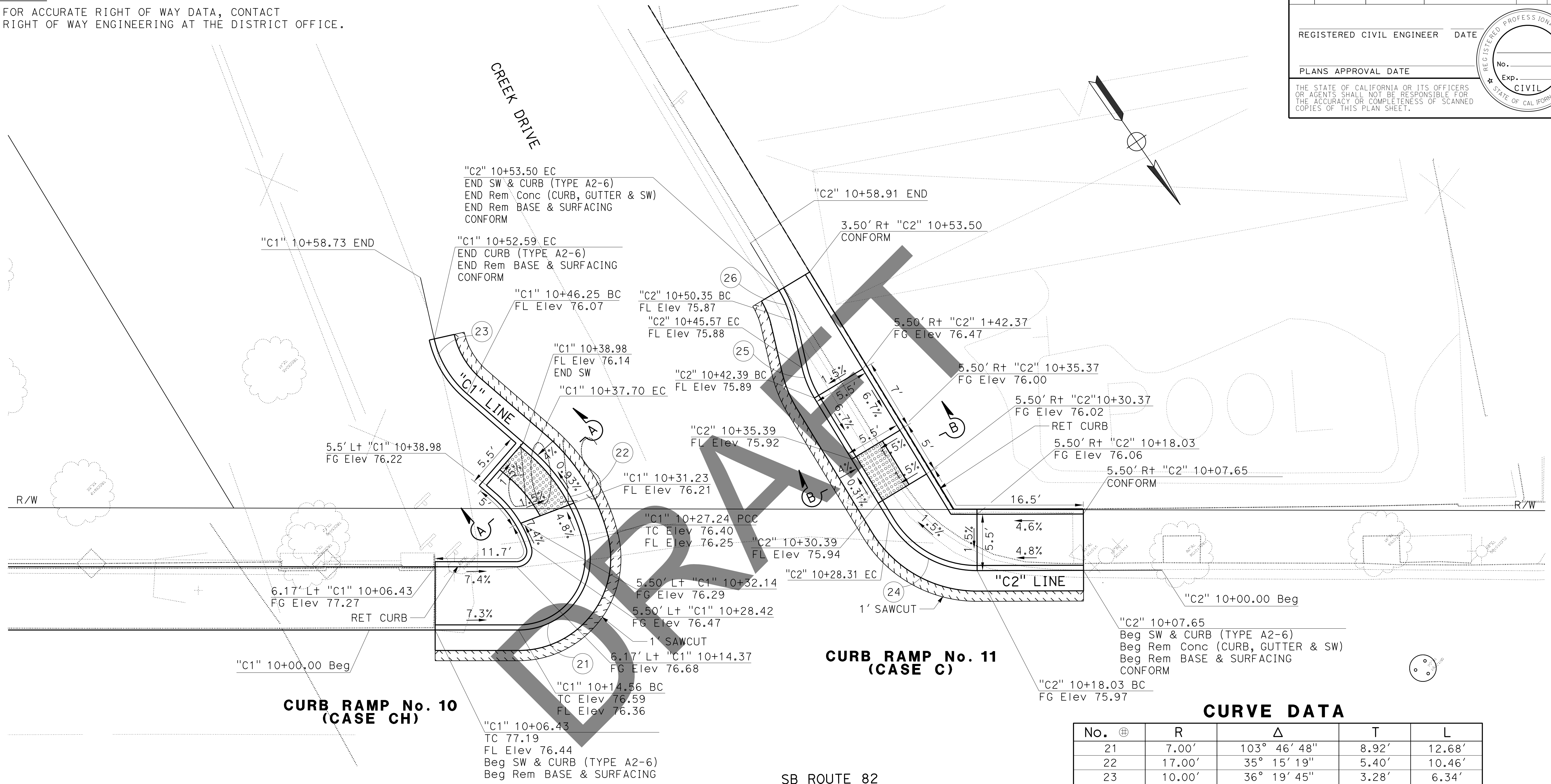
NOTE:  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

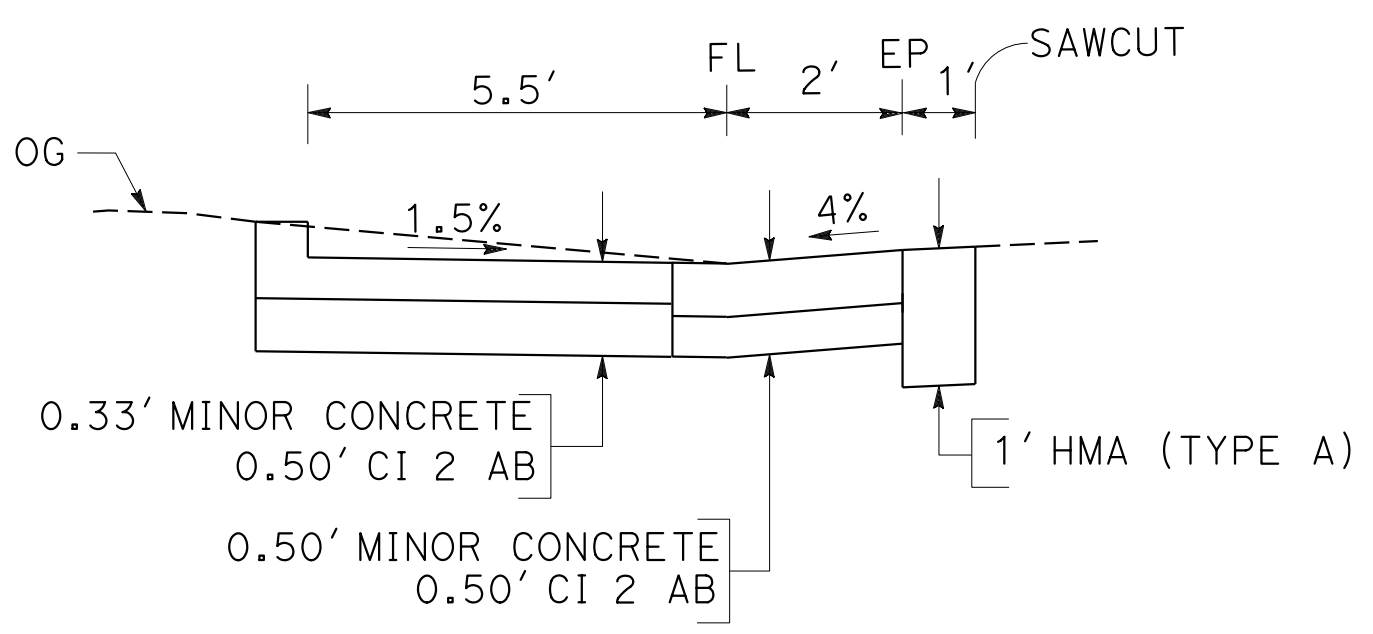
PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

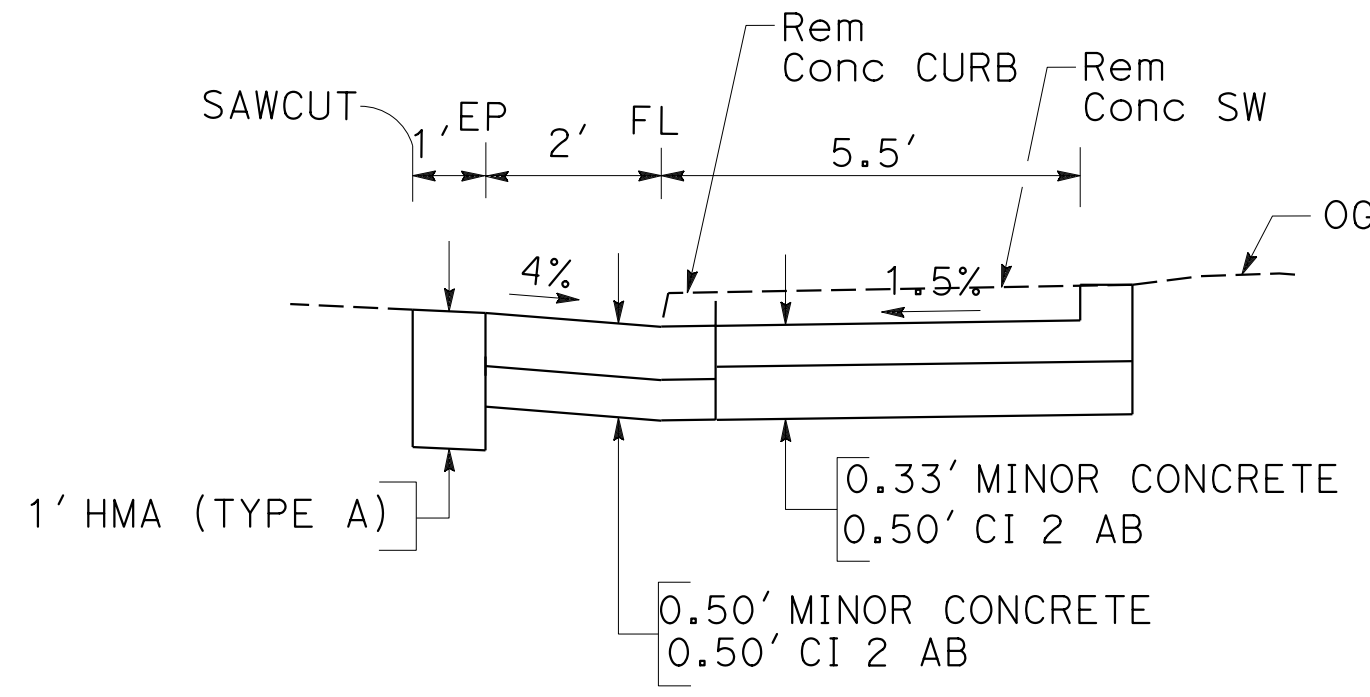


**CURVE DATA**

No.	⊕	R	Δ	T	L
21		7.00'	103° 46' 48"	8.92'	12.68'
22		17.00'	35° 15' 19"	5.40'	10.46'
23		10.00'	36° 19' 45"	3.28'	6.34'
24		10.00'	58° 51' 45"	5.64'	10.27'
25		10.00'	18° 13' 25"	1.60'	3.18'
26		10.00'	18° 01' 32"	1.59'	3.15'



SECTION A-A  
NO SCALE



SECTION B-B  
NO SCALE

**CONSTRUCTION DETAILS**  
NO SCALE

**NOTE:**

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**CURVE DATA**

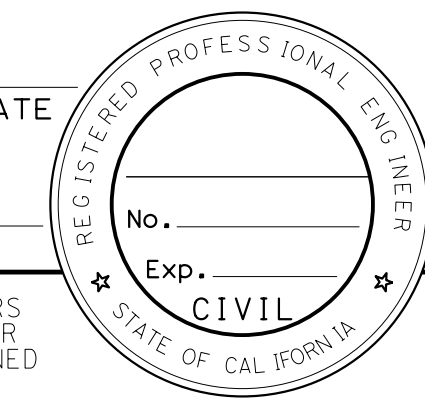
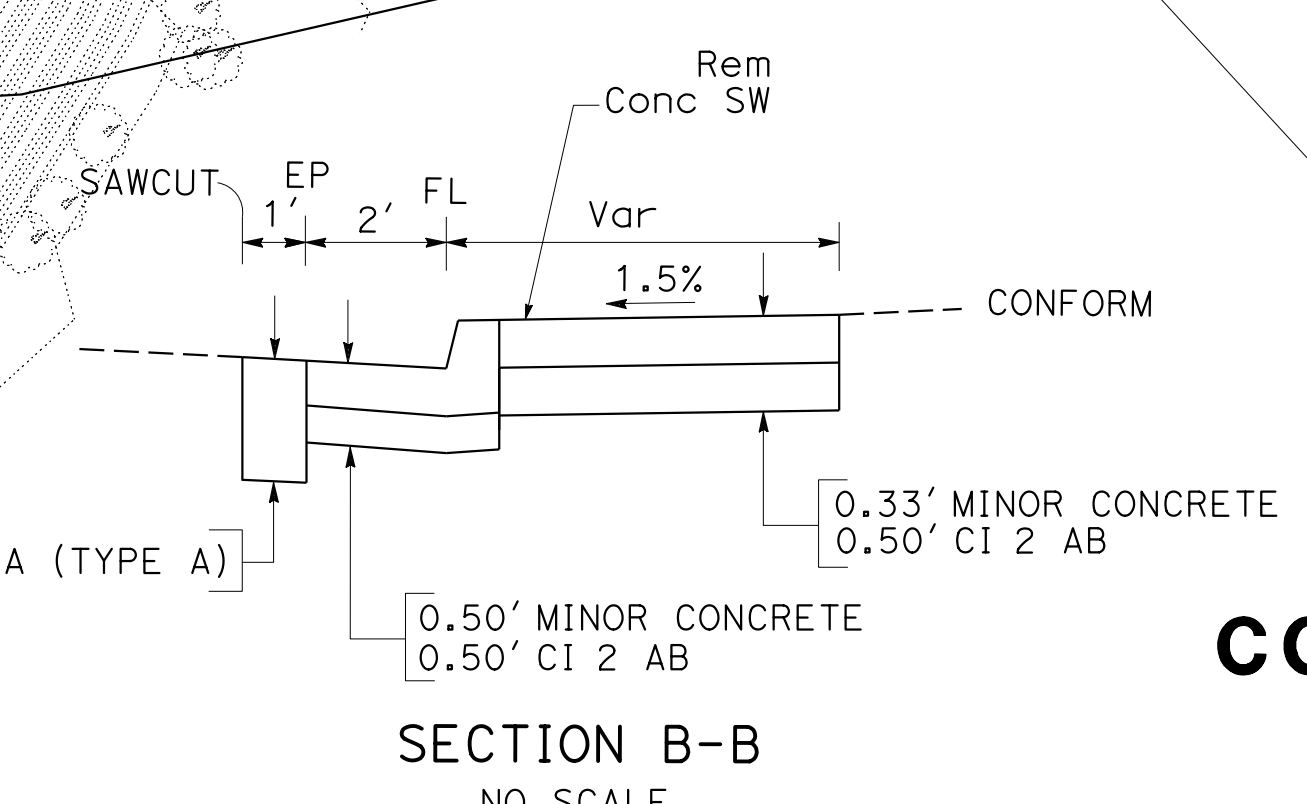
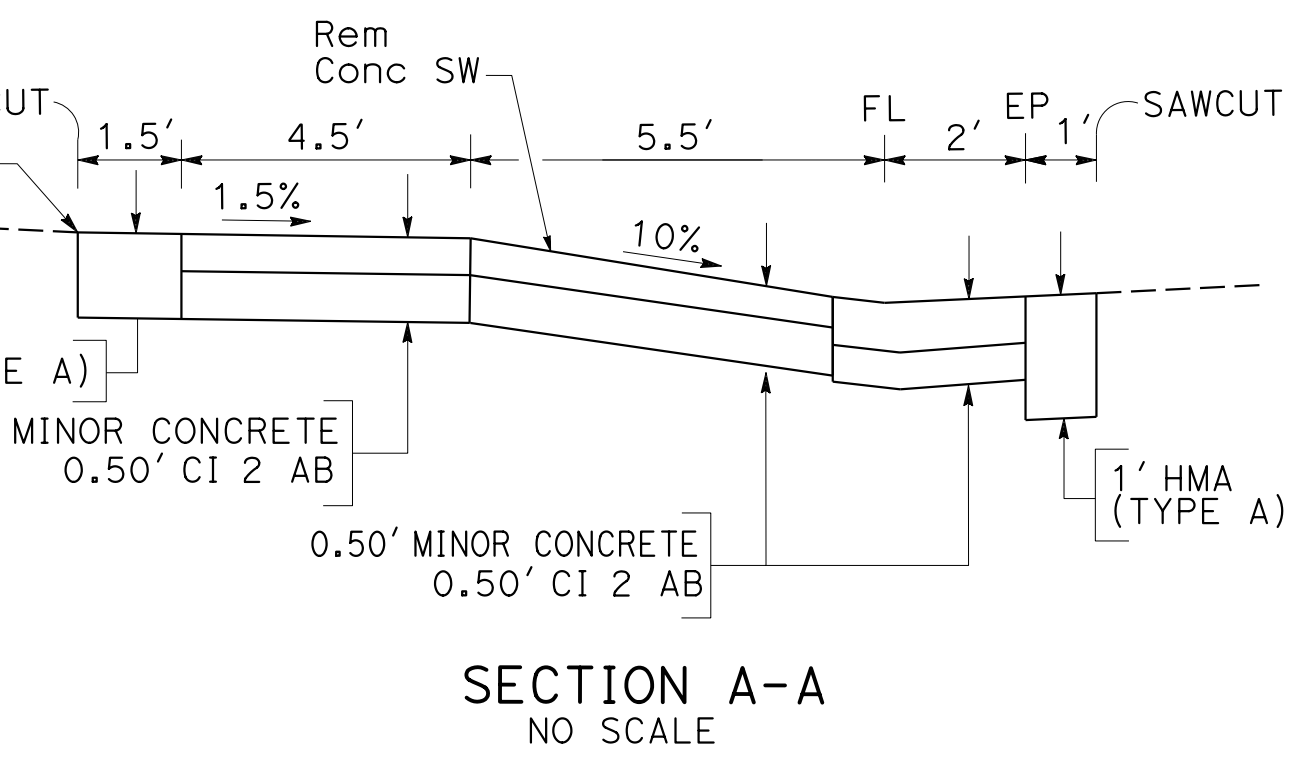
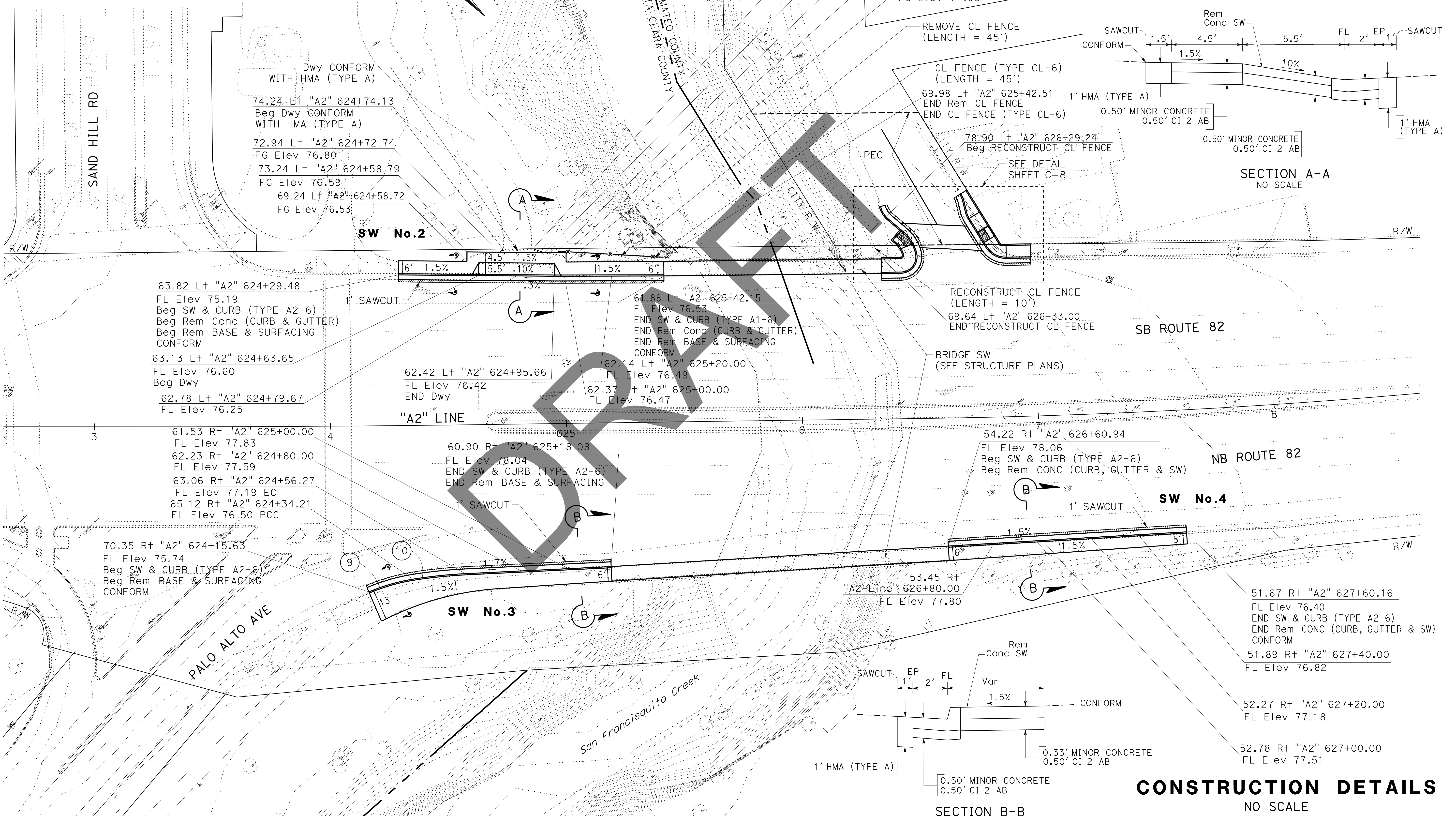
No.	⊕	R	Δ	T	L
9		80'	13° 56' 44"	9.78'	19.47'
10		200'	06° 23' 26"	11.17'	22.31'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**CONSTRUCTION DETAILS**  
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

LAST REVISION DATE PLOTTED => 22-FEB-2023  
10-21-21 TIME PLOTTED => 09:29

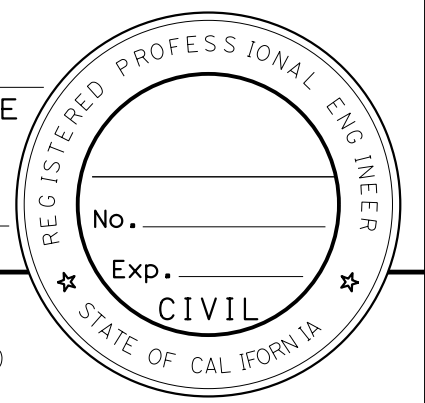
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

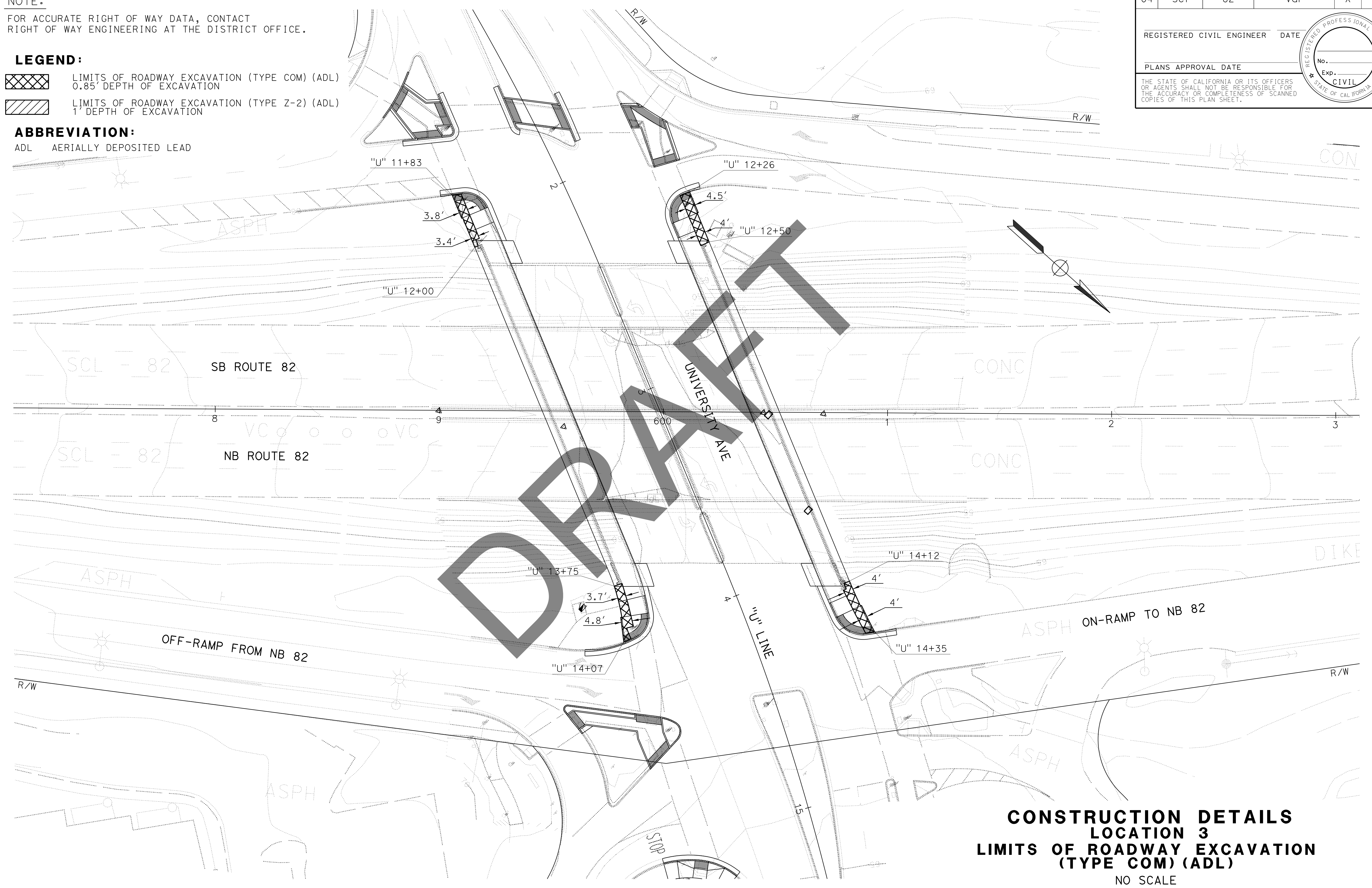
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**LEGEND:**  
 LIMITS OF ROADWAY EXCAVATION (TYPE COM) (ADL) 0.85' DEPTH OF EXCAVATION  
 LIMITS OF ROADWAY EXCAVATION (TYPE Z-2) (ADL) 1' DEPTH OF EXCAVATION

**ABBREVIATION:**  
ADL AERIALY DEPOSITED LEAD



**CONSTRUCTION DETAILS**  
**LOCATION 3**  
**LIMITS OF ROADWAY EXCAVATION**  
**(TYPE COM) (ADL)**  
NO SCALE

**C-10**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR
	MUSTAQUR RAHMAN	MUSTAQUR RAHMAN	KKENNY YAP
			DATE REVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
	MUSTAQUR RAHMAN	CHECKED BY	DATE

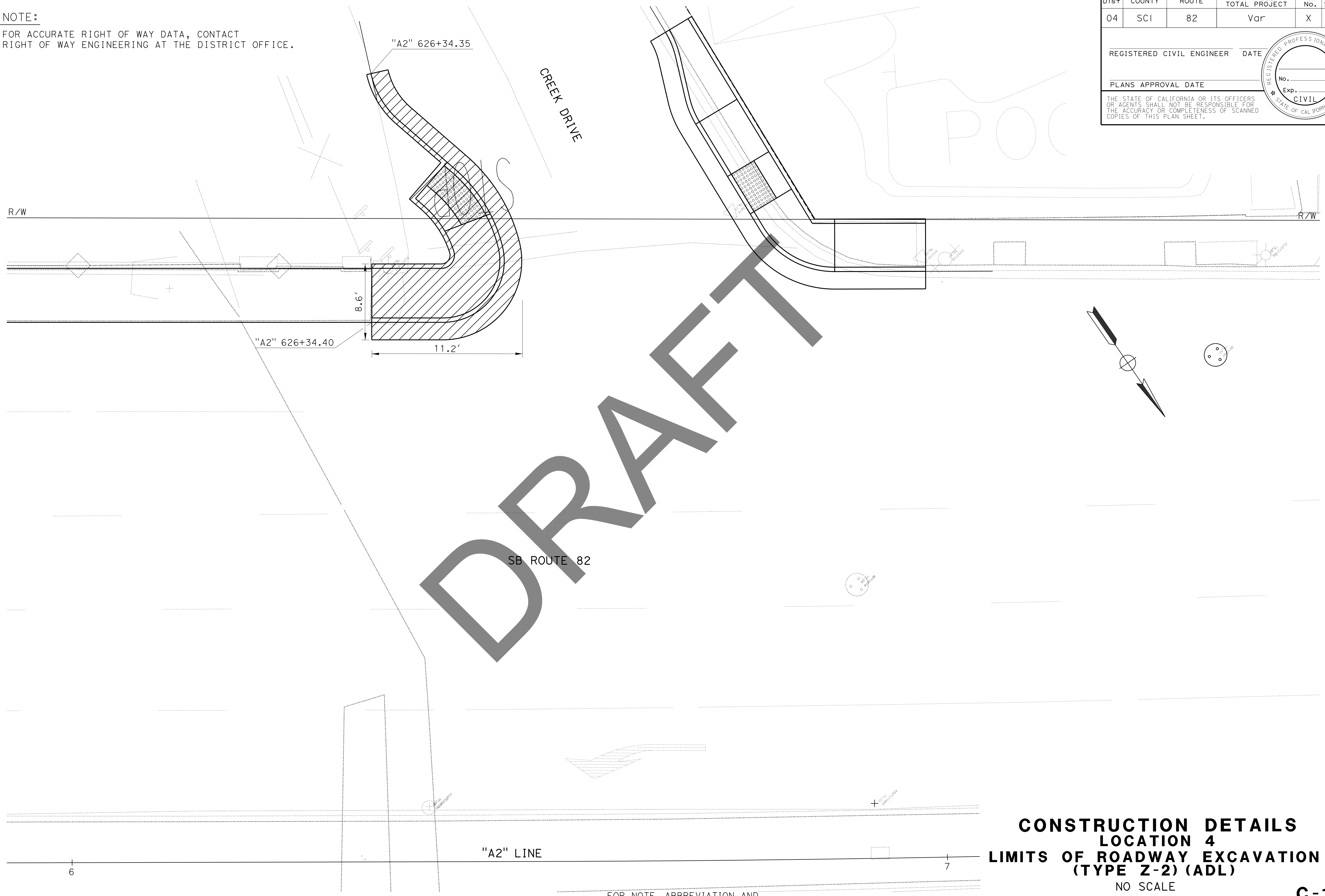
NOTE:  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER      DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**CONSTRUCTION DETAILS**  
**LOCATION 4**  
**LIMITS OF ROADWAY EXCAVATION**  
**(TYPE Z-2) (ADL)**  
NO SCALE

**C-11**



**NOTE:**

FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

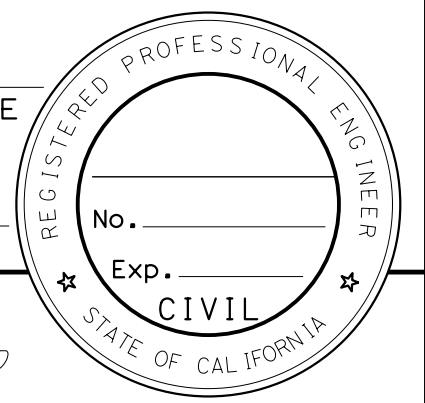
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sci	82	Var	A	ZYX

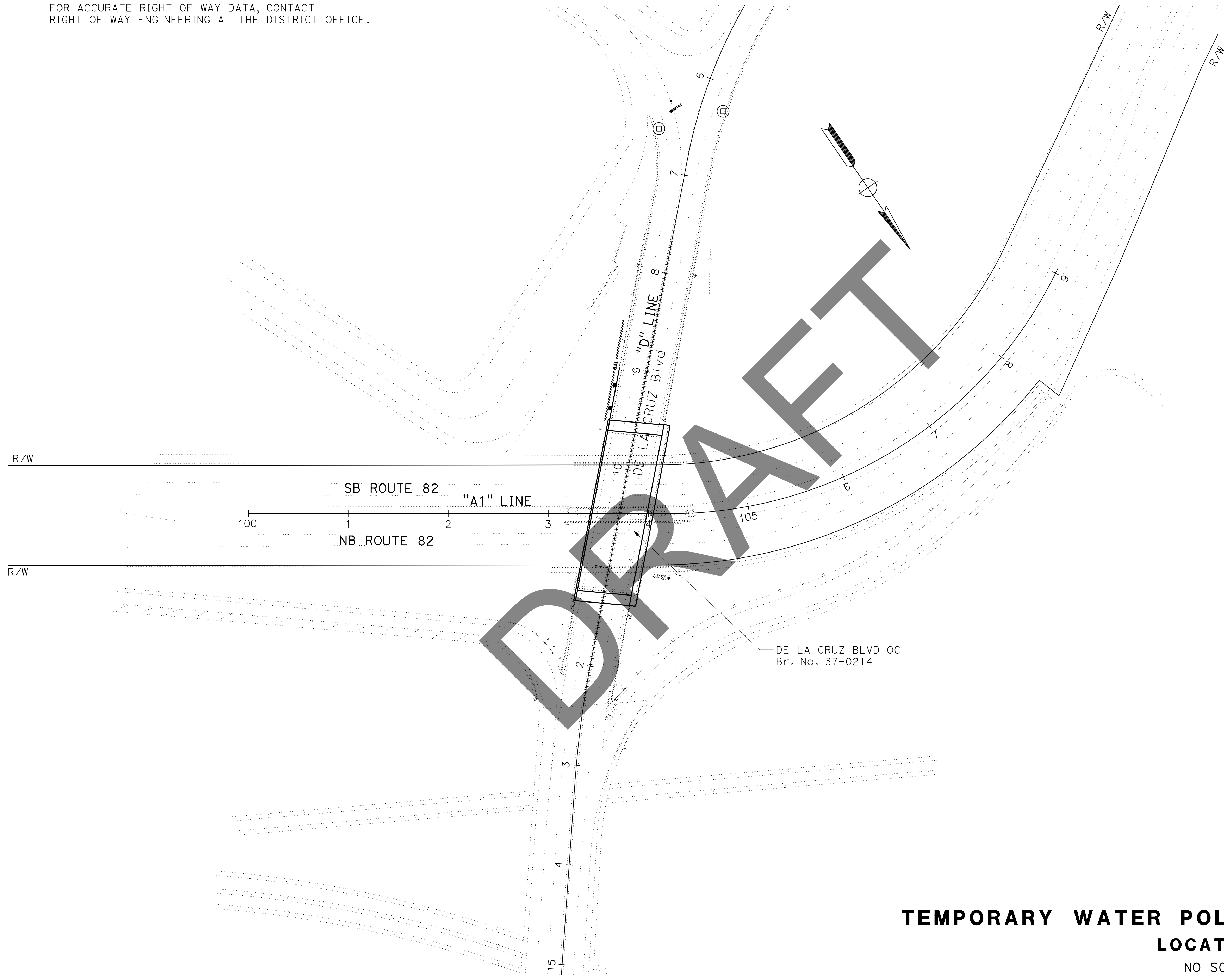
REGISTERED CIVIL ENGINEER	DATE
X-X-XX	
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS  
OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
THE ACCURACY OR COMPLETENESS OF SCANNED  
COPIES OF THIS PLAN SHEET.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED- DESIGNED BY	REVISOR	DATE
<b>Caltrans</b> WATER QUALITY	MOJGAN MOSOOLT	CHECKED BY	MOJGAN MOSOOLI	00-00-00



**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**LOCATION 1**  
NO SCALE

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

**WPC-1**

LAST REVISION | DATE PLOTTED => 22-FEB-2023  
00-00-00 | TIME PLOTTED => 09:31

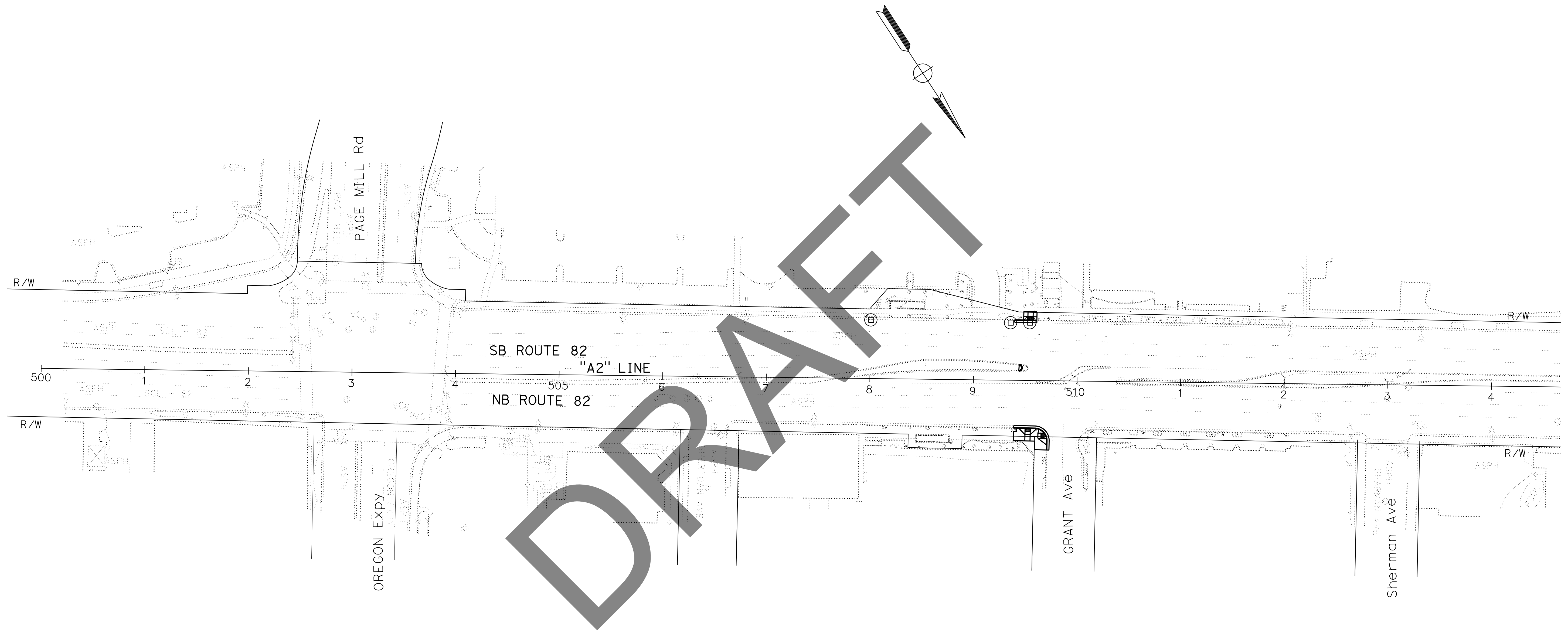
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY  
 FUNCTIONAL SUPERVISOR: **RIJAN AV**  
 MOJGAN MOSOOLI  
 REVISIONS: A  
 00-00-00

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sci	82	Var	A	ZYX

REGISTERED CIVIL ENGINEER DATE  
 X-X-XX  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**TEMPORARY WATER POLLUTION CONTROL PLAN  
 LOCATION 2**

NO SCALE

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

FOR NOTES, ABBREVIATIONS  
 AND LEGEND, SEE SHEET WPC-1

**WPC-2**

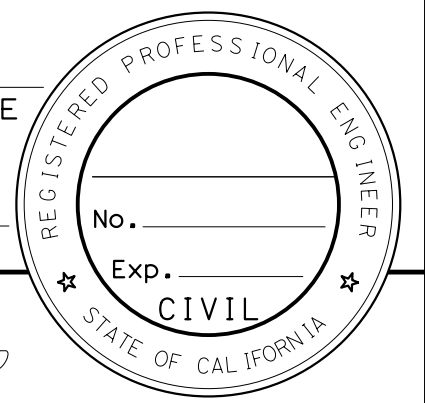
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sci	82	Var	A	ZYX

REGISTERED CIVIL ENGINEER	DATE
X-X-XX	
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
<b>Caltrans</b> WATER QUALITY	MOJGAN MOSOOLI	MOJGAN MOSOOLI	A	00-00-00

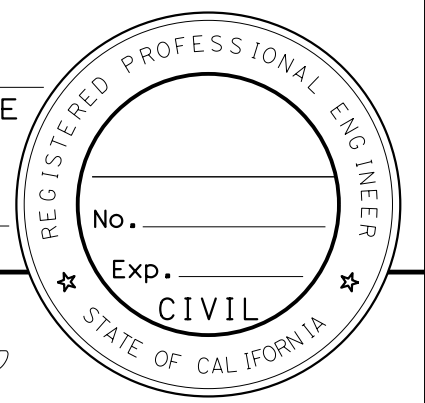
**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**LOCATION 3**  
 NO SCALE  
**WPC-3**

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET WPC-1

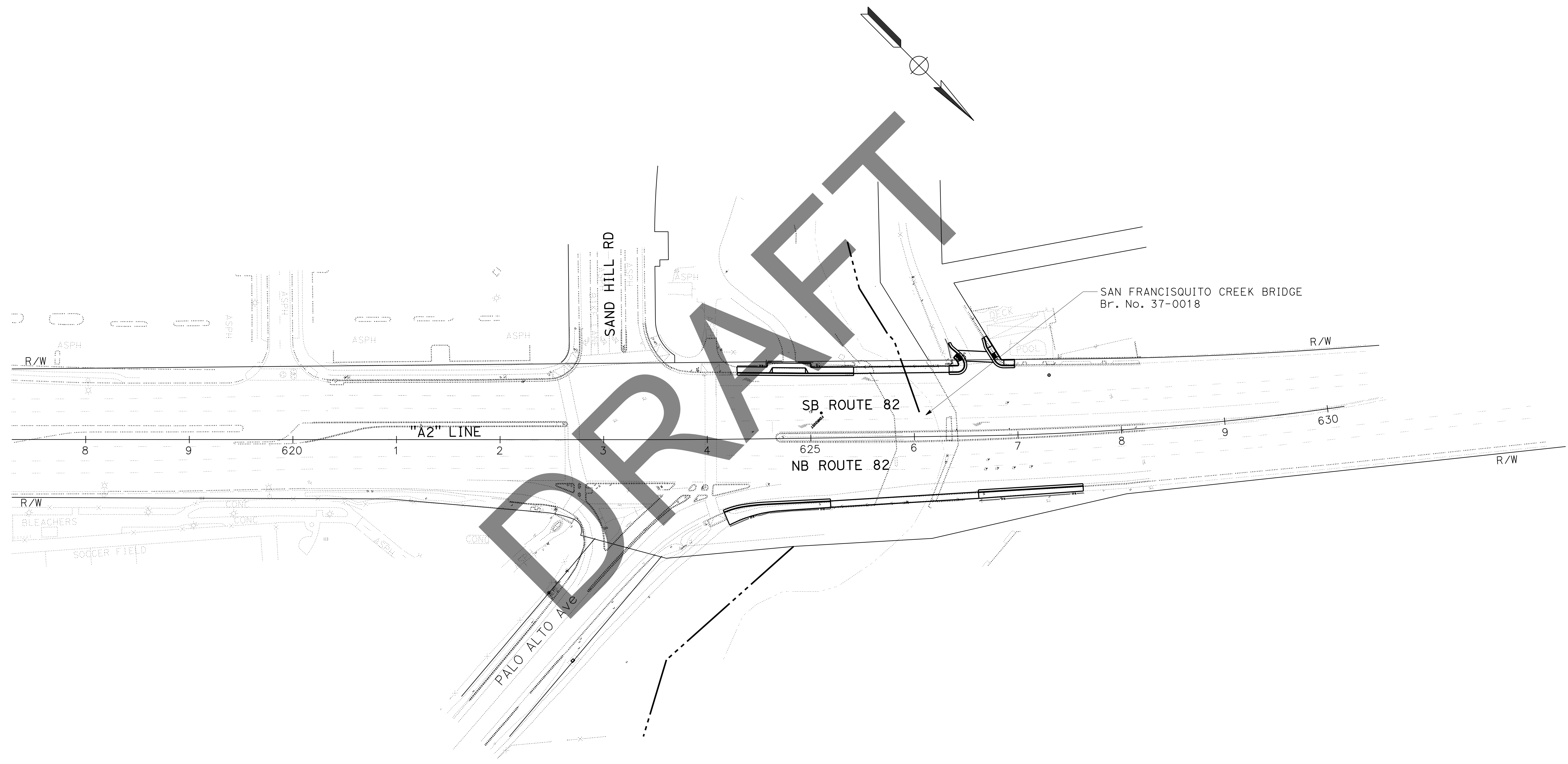
LAST REVISION: DATE PLOTTED => 22-FEB-2023  
 00-00-00 TIME PLOTTED => 09:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sci	82	Var	A	ZYX
REGISTERED CIVIL ENGINEER				DATE	
X-X-XX					
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY  
 FUNCTIONAL SUPERVISOR: MOJGAN MOSOOLI  
 CALCULATED/DESIGNED BY: MOJGAN MOSOOLI  
 CHECKED BY: MOJGAN MOSOOLI  
 REVISED BY: MOJGAN MOSOOLI  
 DATE REVISED: 00-00-00  
 A  
 00-00-00



DRAFT

**TEMPORARY WATER POLLUTION CONTROL PLAN  
 LOCATION 4  
 NO SCALE**

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET WPC-1

**WPC-4**

LAST REVISION | DATE PLOTTED => 22-FEB-2023 00-00-00 | TIME PLOTTED => 09:32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY  
 FUNCTIONAL SUPERVISOR  
 MOJGAN MOSOOLI  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 MOSTAFA FAGHIHI  
 MOJGAN MOSOOLI  
 REVISED BY  
 DATE REVISED  
 A  
 00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sci	82	Var	A	ZYX

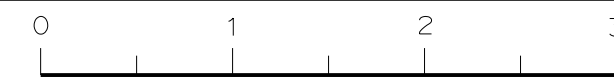
REGISTERED CIVIL ENGINEER DATE  
 X-X-XX  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**TEMPORARY WATER POLLUTION CONTROL QUANTITIES**

WPC SHEET NO	TEMPORARY FIBER ROLL	TEMPORARY DRAINAGE INLET PROTECTION
	LF	EA
WPC-1	100	2
WPC-2		3
WPC-3	350	-
WPC-4	340	-
TOTAL	790	5

**TEMPORARY WATER POLLUTION CONTROL QUANTITIES**  
**WPCQ-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

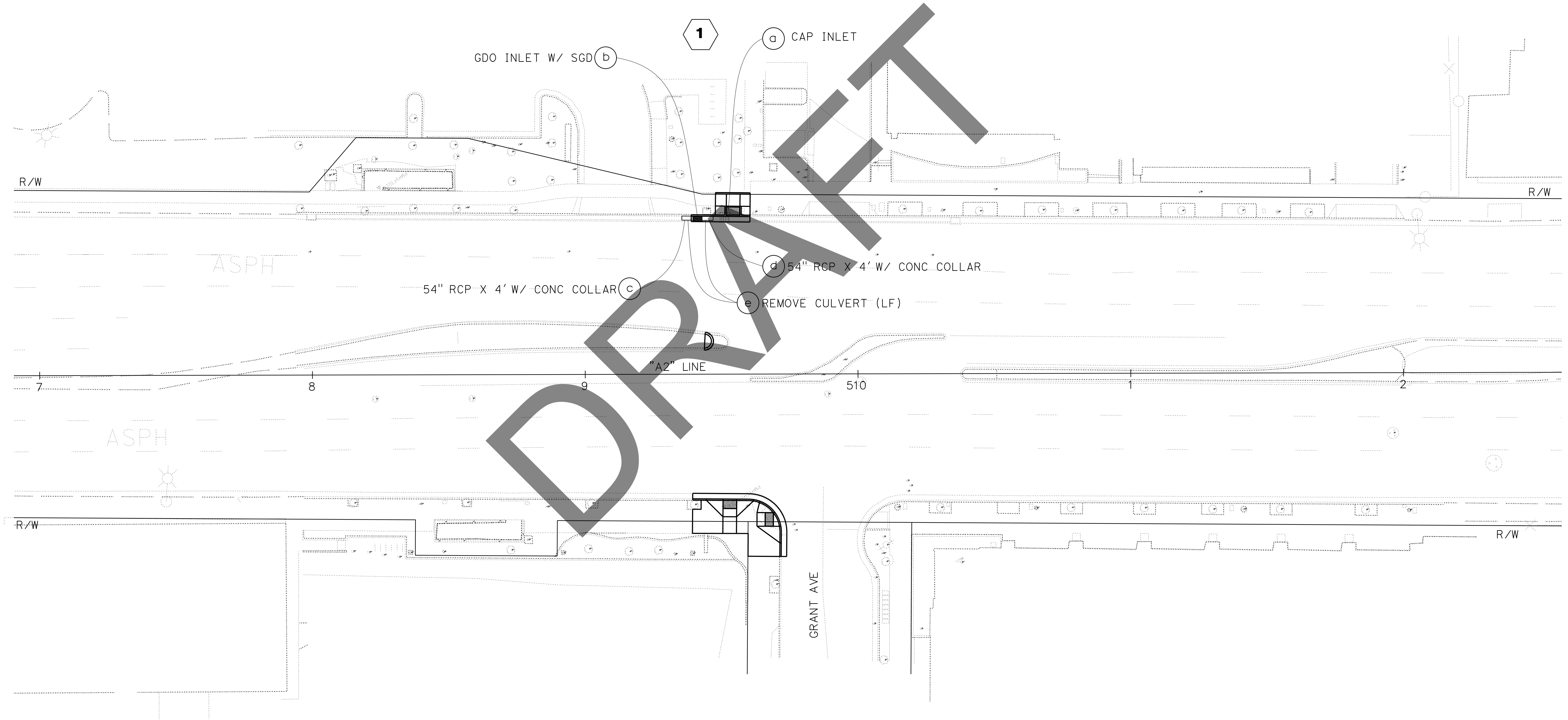
  

No.	Exp.
CIVIL	

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b>	KHAI LEONG	KHAI LEONG	YONGTAO LIAN
		CHECKED BY	DATE REVISED



**DRAINAGE PLAN  
 LOCATION 2**  
 SCALE: 1"=20'

**D-1**

LAST REVISION | DATE PLOTTED => 22-FEB-2023  
 10-21-21 | TIME PLOTTED => 09:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

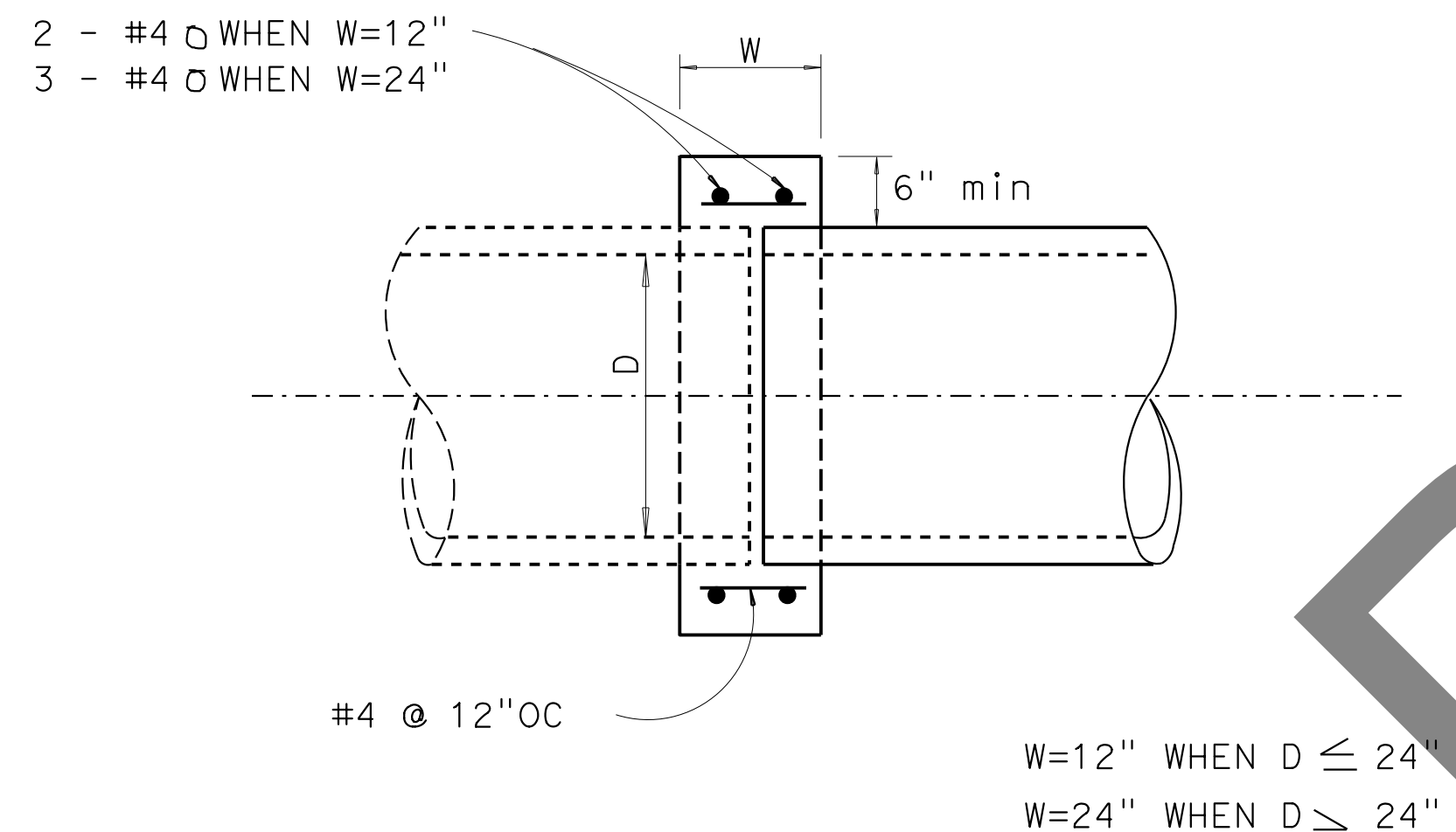
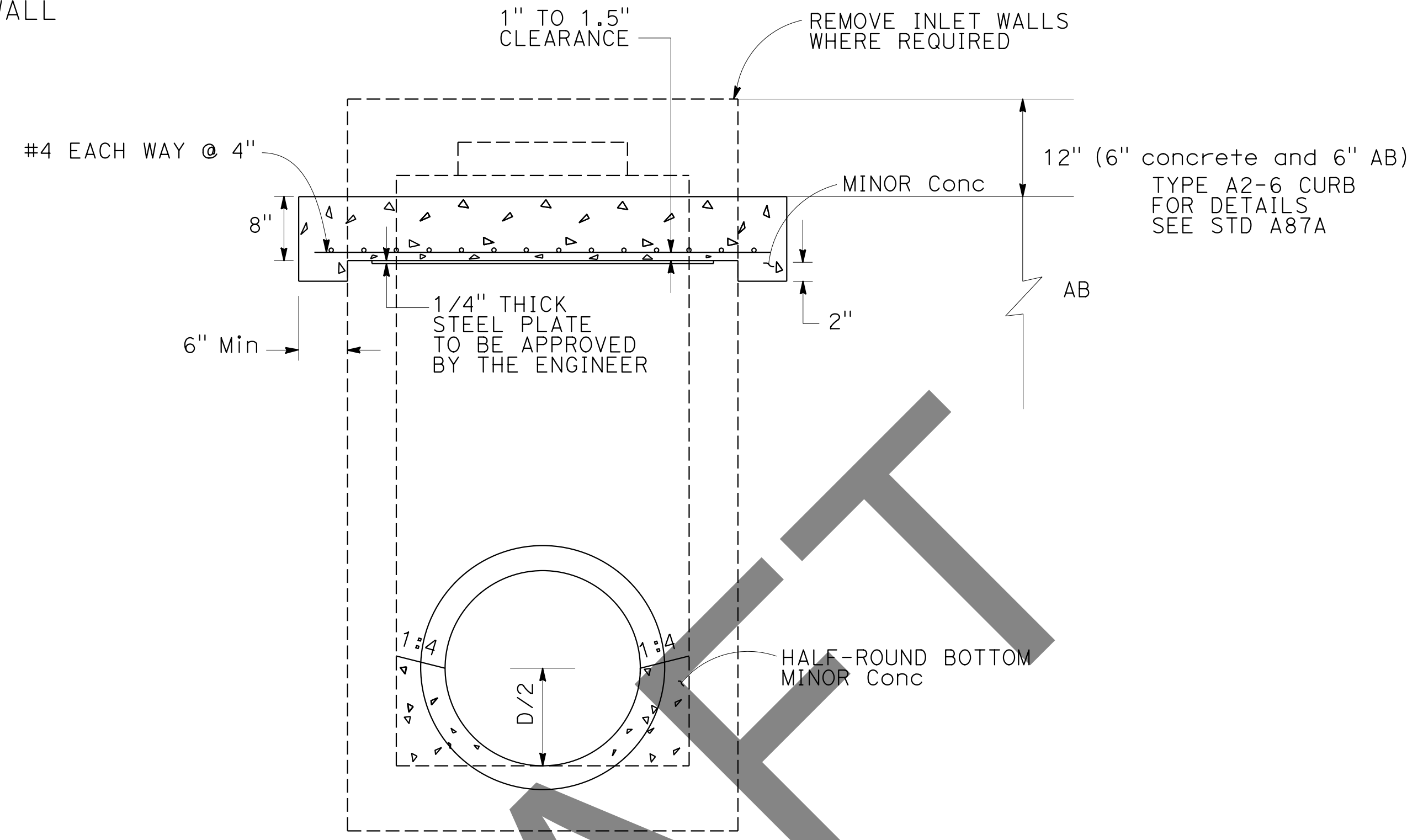
PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
No. \_\_\_\_\_  
Exp. \_\_\_\_\_  
CIVIL  
STATE OF CALIFORNIA

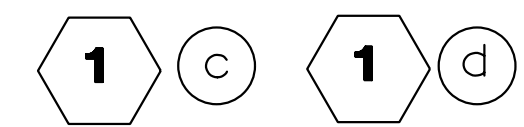
**NOTES:**

1. IF WALL OF EXISTING DRAINAGE STRUCTURE HAS NO REINFORCING, DRILL AND BOND DOWELS, 1 FT. ON CENTER, 6" INTO WALL AND BEND INTO COLLAR.

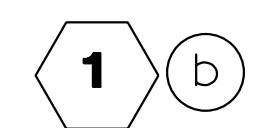
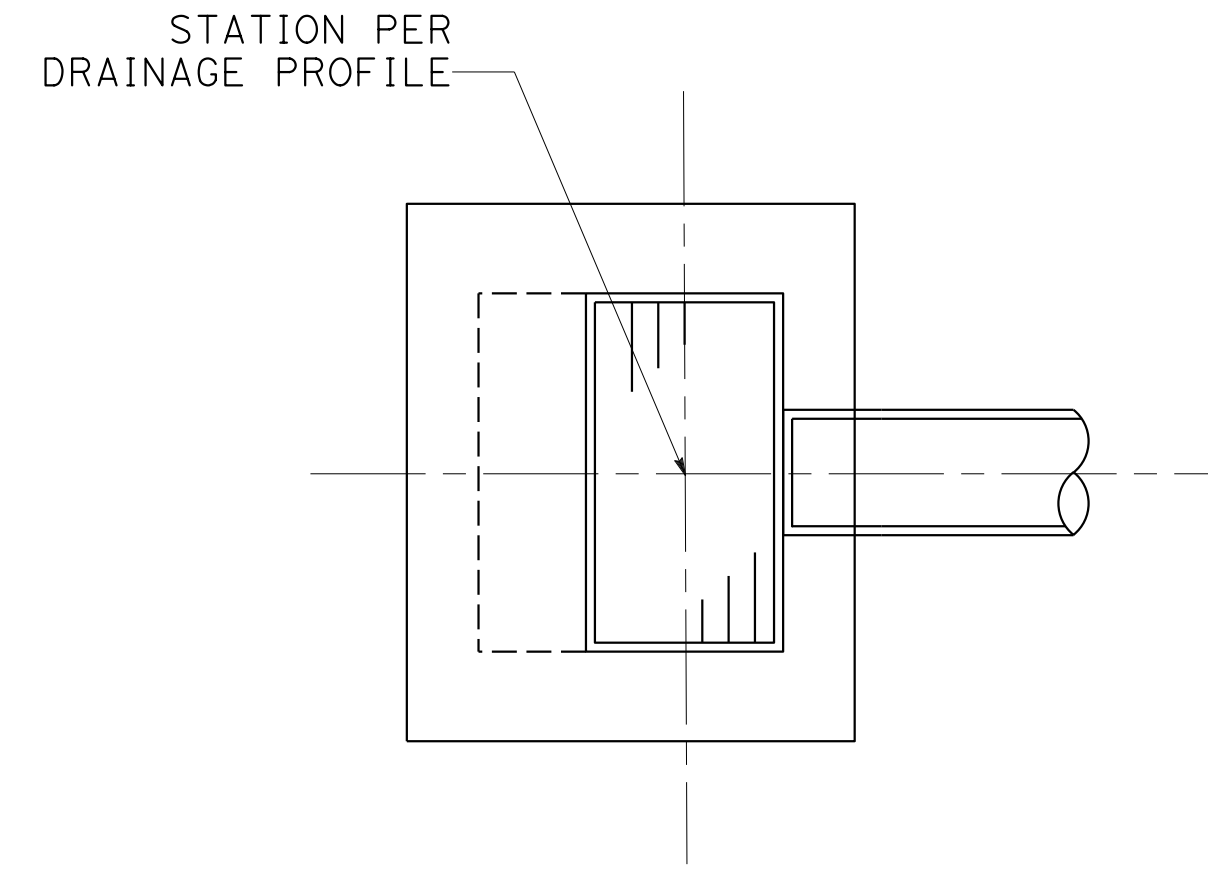
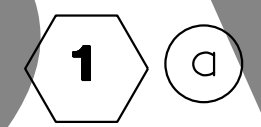


Note:  
COLLAR CAN BE USED FOR JOINING NEW PIPE TO EXISTING PIPE, PIPES OF DIFFERENT SIZES, AND FLARED END SECTIONS TO PIPE AS DIRECTED BY THE ENGINEER

**CONCRETE COLLAR**



**CONCRETE CAP FOR INLET**



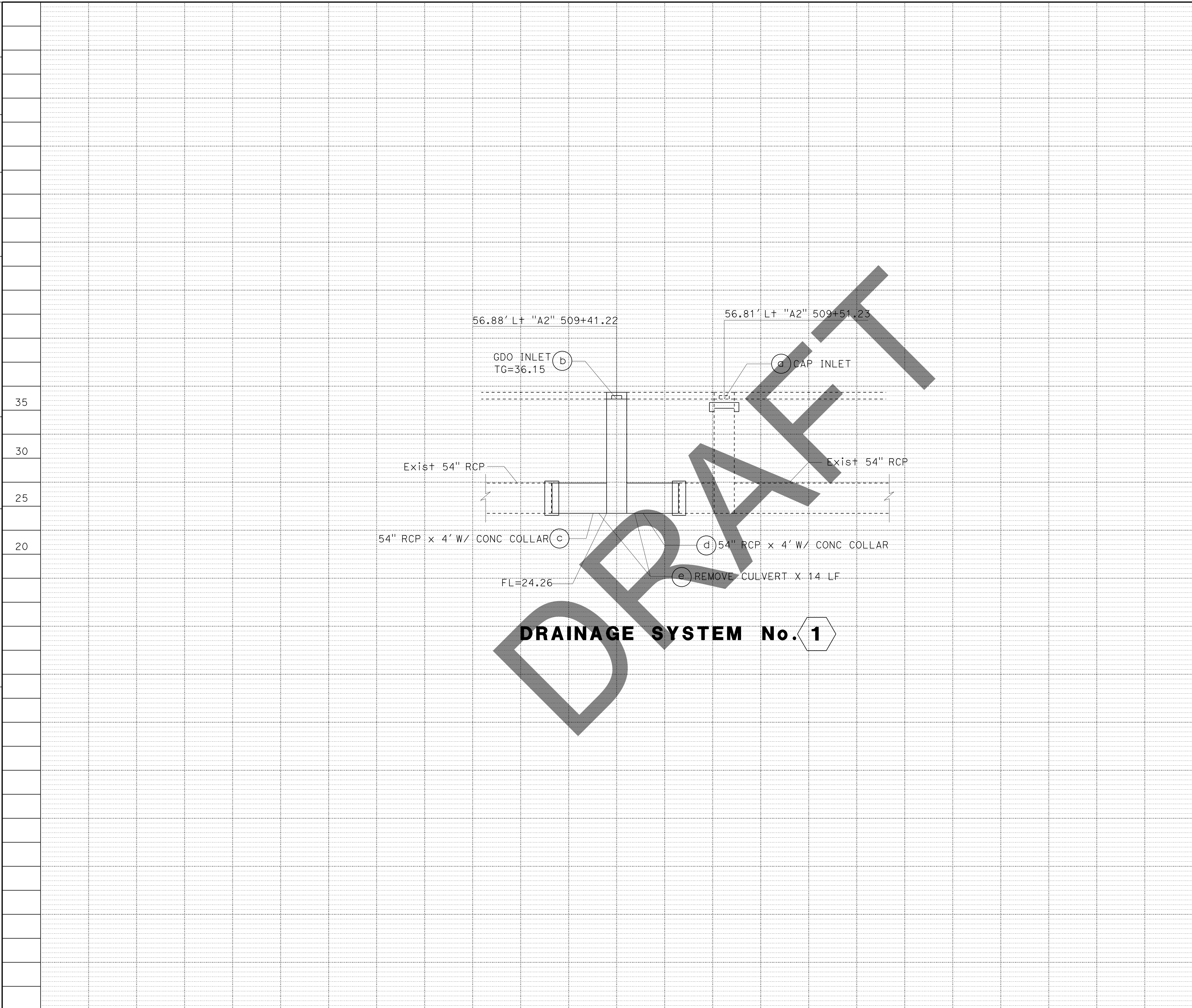
**DRAINAGE DETAILS**  
NO SCALE

**DD-1**

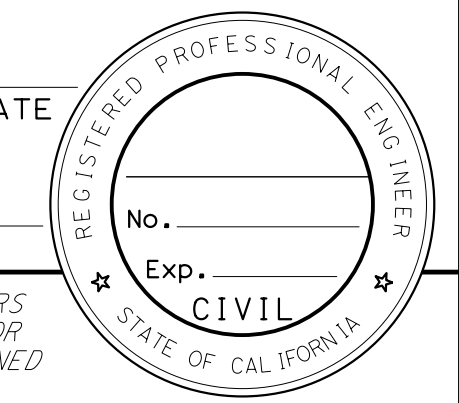
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Caltrans</b>	FUNCTIONAL SUPERVISOR KHAI LEONG	CALCULATED/DESIGNED BY YONGTAO LIAN	REVISOR KHAI LEONG
	CHECKED BY	DATE REVISED	

LAST REVISION | DATE PLOTTED => 22-FEB-2023  
10-21-21 | TIME PLOTTED => 11:33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 HYDRAULICS  
 FUNCTIONAL SUPERVISOR  
 KHAI LEONG  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 YONGTAO LIAN  
 KHAI LEONG  
 REVISED BY  
 DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X
REGISTERED CIVIL ENGINEER				DATE	
X-X-XX					
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



**DRAINAGE PROFILES**  
 SCALE: Horiz 1" = 5'  
 Vert 1" = 5'  
**DP-1**

LAST REVISION DATE PLOTTED => 22-FEB-2023  
 TIME PLOTTED => 09:34



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

No. \_\_\_\_\_  
 Exp. \_\_\_\_\_

CIVIL

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

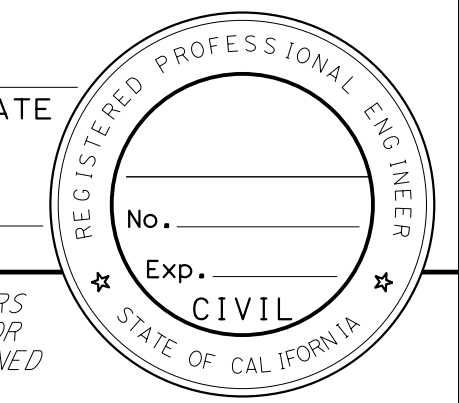
**DRAINAGE QUANTITIES**

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	STRUCTURAL CONCRETE DRAINAGE INLET	MISCELLANEOUS IRON AND STEEL	MINOR CONCRETE (GUTTER DEPRESSION)	FRAME AND GRATE/COVER (N)	54" RCP		CAP INLET	REMOVE CULVERT	DESCRIPTION	STATION	DRAINAGE SYSTEM No.	DRAINAGE UNIT
							EA	LF						
D-1	1	a							1		CAP INLET	56.81' Lt "A2" 509+51.23	1	a
	1	b	8.7	473	0.37	1		4			GDO INLET	56.88' Lt "A2" 509+41.22	1	b
	1	c						4			54" RCP		1	c
	1	d									54" RCP		1	d
	1	e							14		REMOVE CULVERT		1	e
<b>TOTAL</b>			8.7	473	0.37	1		8	1	14				

(N) NOT A SEPARATE BID ITEM

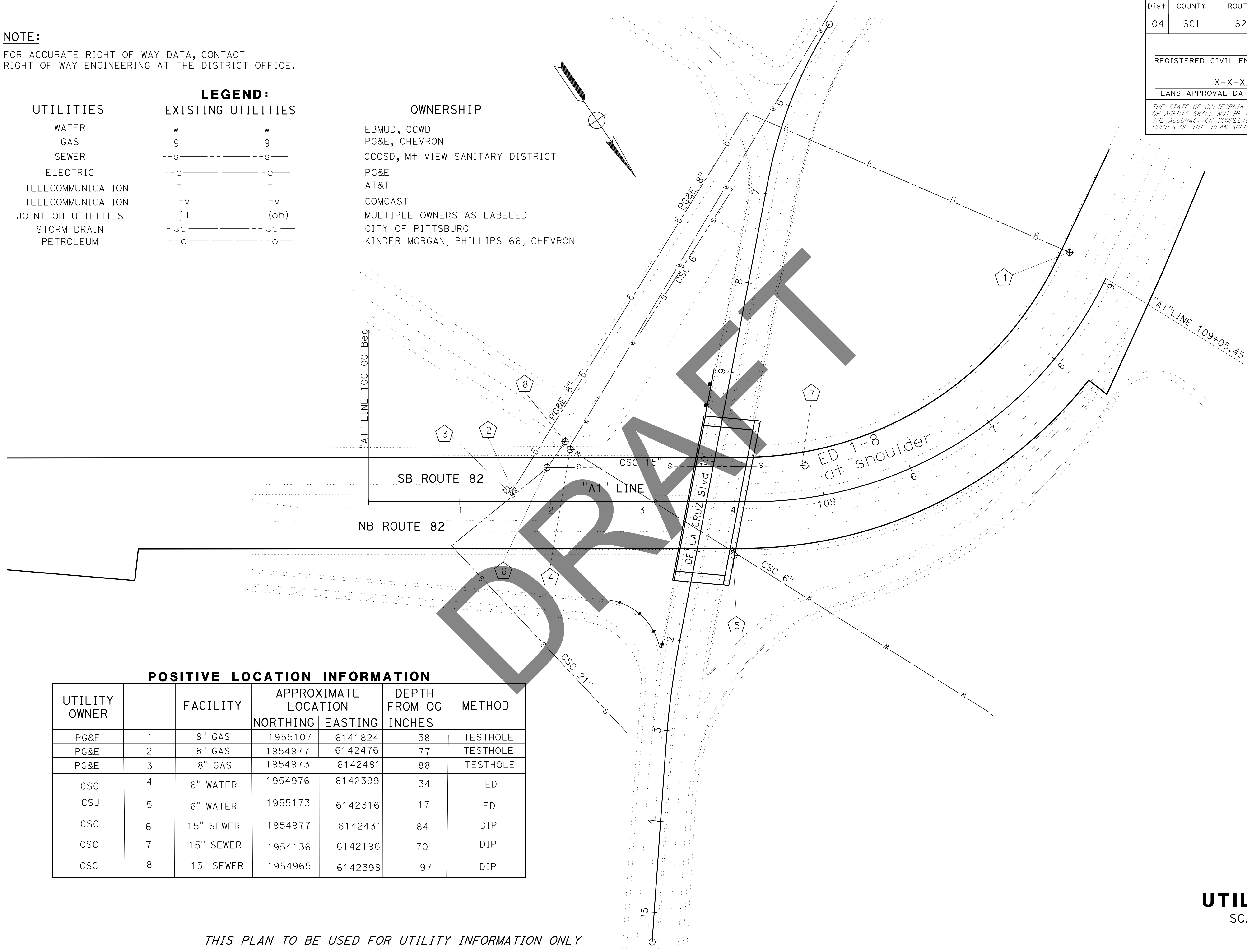
**DRAINAGE QUANTITIES**  
**DQ-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX
REGISTERED CIVIL ENGINEER			DATE	X-X-XX	
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

UTILITIES		EXISTING UTILITIES		OWNERSHIP	
WATER	— w —	w	— w —	EBMUD, CCWD	
GAS	— g —	g	— g —	PG&E, CHEVRON	
SEWER	— s —	s	— s —	CCCSD, M+ VIEW SANITARY DISTRICT	
ELECTRIC	— e —	e	— e —	PG&E	
TELECOMMUNICATION	— t —	t	— t —	AT&T	
TELECOMMUNICATION	— tv —	tv	— tv —	COMCAST	
JOINT OH UTILITIES	— jt —	(oh)	— (oh) —	MULTIPLE OWNERS AS LABELED	
STORM DRAIN	— sd —	sd	— sd —	CITY OF PITTSBURG	
PETROLEUM	— o —	o	— o —	KINDER MORGAN, PHILLIPS 66, CHEVRON	



**POSITIVE LOCATION INFORMATION**

UTILITY OWNER	FACILITY	APPROXIMATE LOCATION		DEPTH FROM OG INCHES	METHOD
		NORTHING	EASTING		
PG&E	8" GAS	1955107	6141824	38	TESTHOLE
PG&E	8" GAS	1954977	6142476	77	TESTHOLE
PG&E	8" GAS	1954973	6142481	88	TESTHOLE
CSC	6" WATER	1954976	6142399	34	ED
CSJ	6" WATER	1955173	6142316	17	ED
CSC	15" SEWER	1954977	6142431	84	DIP
CSC	15" SEWER	1954136	6142196	70	DIP
CSC	15" SEWER	1954965	6142398	97	DIP

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

**UTILITY PLAN**  
SCALE: 1" = 50'

**U-1**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

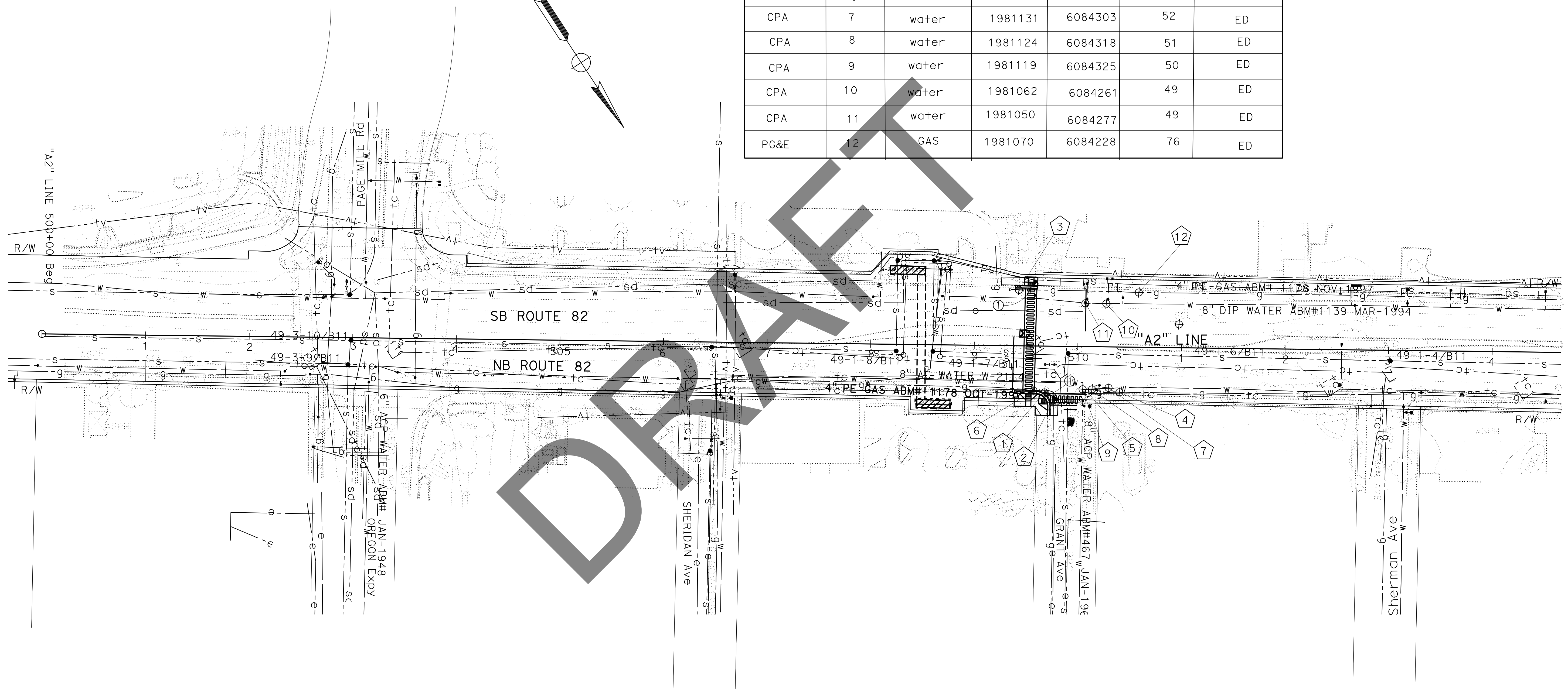
**POSITIVE LOCATION INFORMATION**

UTILITY OWNER	No.	FACILITY	APPROXIMATE LOCATION		DEPTH FROM OG INCHES	METHOD
			NORTHING	EASTING		
PG&E	1	6" GAS	1981101	6084357	44	TESTHOLE
PG&E	2	2" GAS	1981112	6084355	37	TESTHOLE
PG&E	3	6" GAS	1981004	6084324	40	TESTHOLE
PG&E	4	GAS	1981140	6084297	37	ED
PG&E	5	GAS	1981124	6084322	36	ED
PG&E	6	GAS	1981094	6084365	30	ED
CPA	7	water	1981131	6084303	52	ED
CPA	8	water	1981124	6084318	51	ED
CPA	9	water	1981119	6084325	50	ED
CPA	10	water	1981062	6084261	49	ED
CPA	11	water	1981050	6084277	49	ED
PG&E	12	GAS	1981070	6084228	76	ED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 X-X-XX  
 PLANS APPROVAL DATE \_\_\_\_\_

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THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

**UTILITY PLAN**  
 SCALE: 1" = 50'

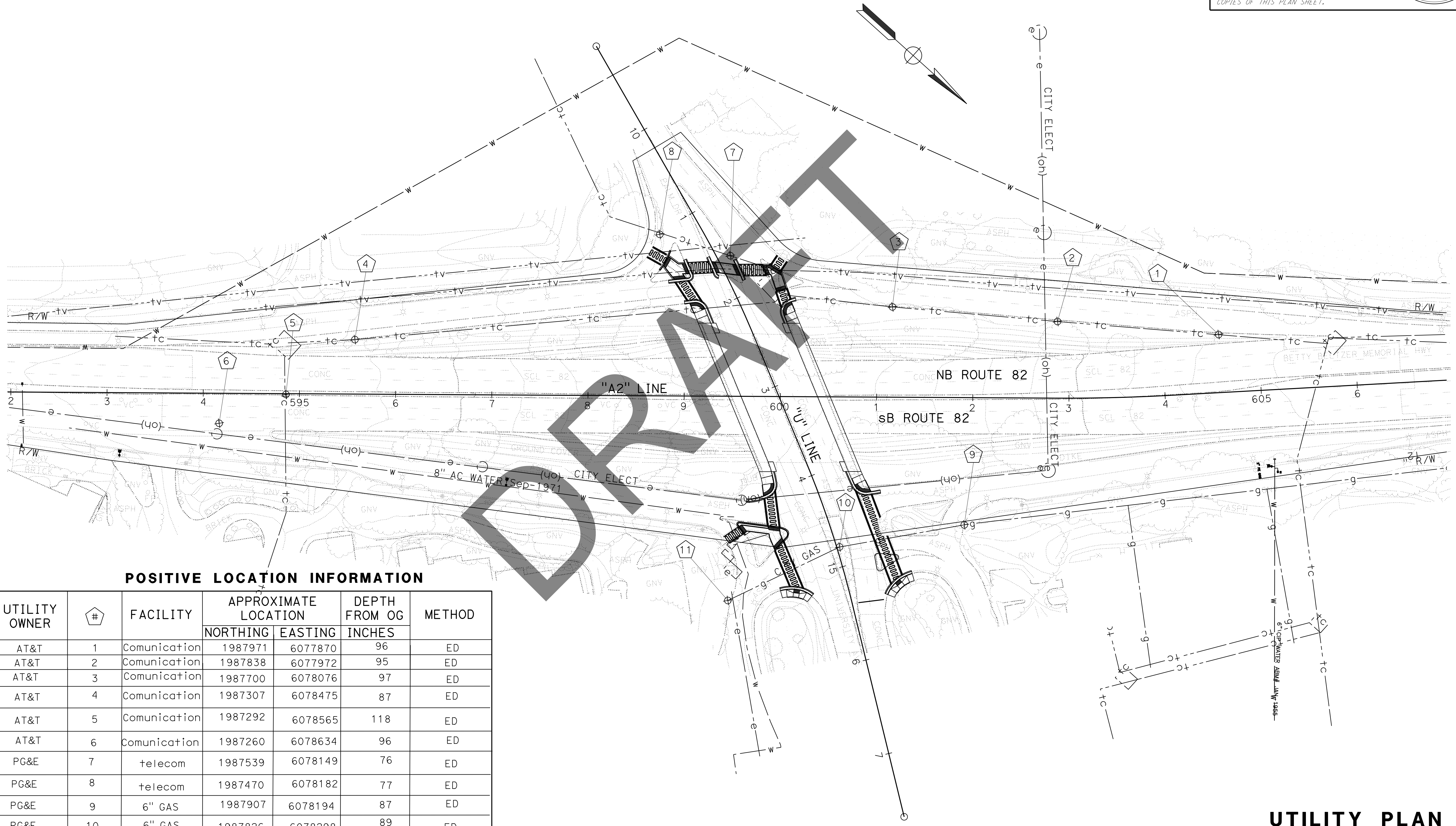
**U-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 X-X-XX  
 PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**POSITIVE LOCATION INFORMATION**

UTILITY OWNER	#	FACILITY	APPROXIMATE LOCATION		DEPTH FROM OG INCHES	METHOD
			NORTHING	EASTING		
AT&T	1	Comunication	1987971	6077870	96	ED
AT&T	2	Comunication	1987838	6077972	95	ED
AT&T	3	Comunication	1987700	6078076	97	ED
AT&T	4	Comunication	1987307	6078475	87	ED
AT&T	5	Comunication	1987292	6078565	118	ED
AT&T	6	Comunication	1987260	6078634	96	ED
PG&E	7	telecom	1987539	6078149	76	ED
PG&E	8	telecom	1987470	6078182	77	ED
PG&E	9	6" GAS	1987907	6078194	87	ED
PG&E	10	6" GAS	1987826	6078298	89	ED
PG&E	11	6" GAS	1987777	6078417	92	ED

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

**UTILITY PLAN**  
 SCALE: 1" = 50'

**U-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans**

DESIGN

FUNCTIONAL SUPERVISOR: A

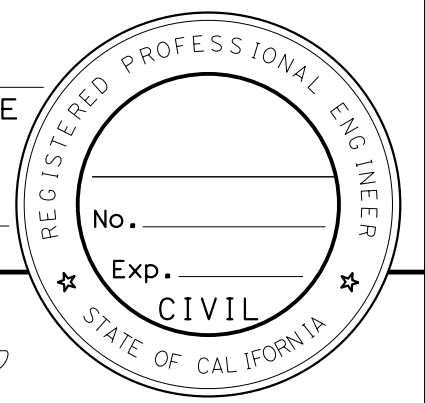
CALCULATED/DESIGNED BY: A

CHECKED BY: A

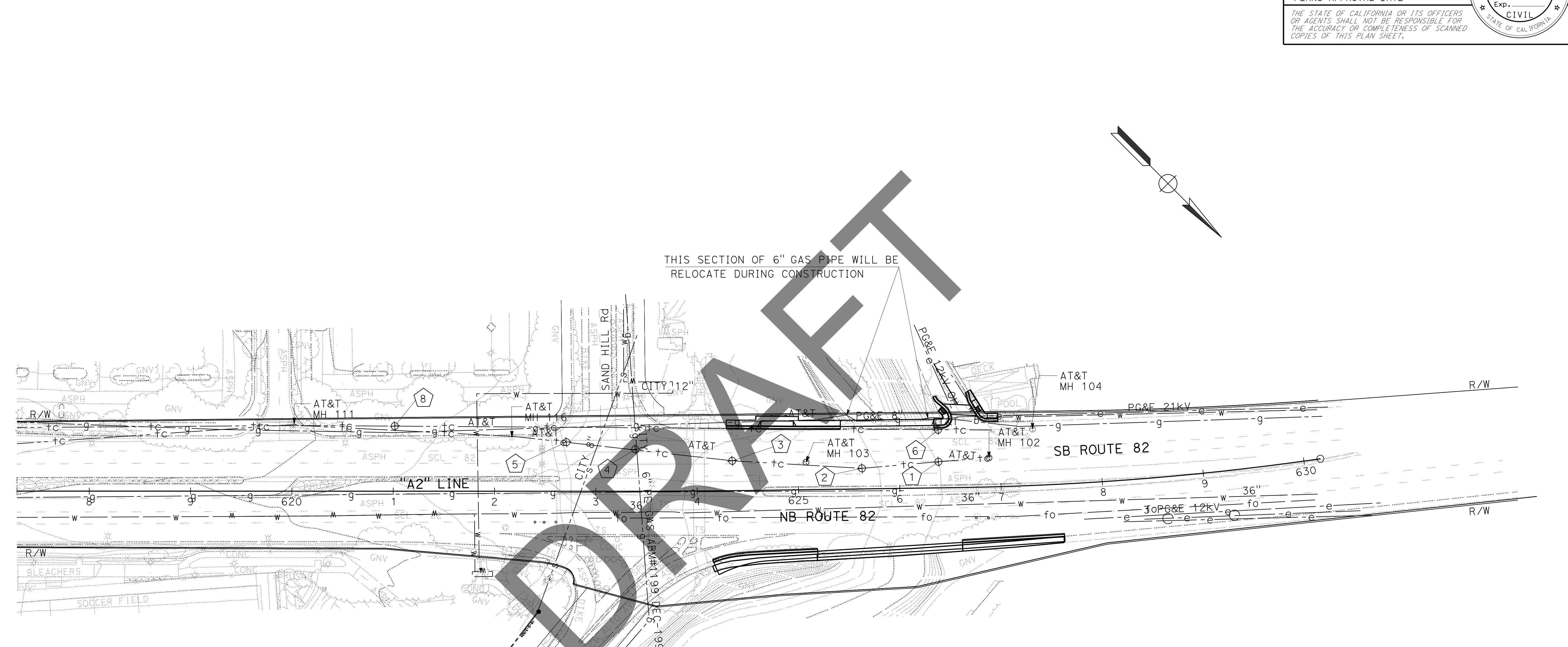
REVISOR: A

DATE: ABZY

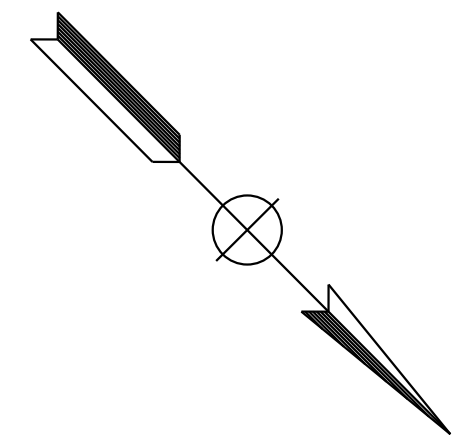
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX
REGISTERED CIVIL ENGINEER			DATE		
X-X-XX					
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



THIS SECTION OF 6" GAS PIPE WILL BE RELOCATE DURING CONSTRUCTION



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED  
 A  
 ABZY  
 A  
 A

**POSITIVE LOCATION INFORMATION**

UTILITY OWNER	No.	FACILITY	APPROXIMATE LOCATION		DEPTH FROM OG INCHES	METHOD
			NORTHING	EASTING		
AT&T	1	Communication	1989530	6076348	68	ED
AT&T	2	Communication	1989481	6076406	60	ED
AT&T	3	Communication	1989385	6076491	59	ED
AT&T	4	Communication	1989310	6076551	55	ED
AT&T	5	Communication	1989257	6076594	65	ED
AT&T	6	Communication	1989507	6076326	72	ED
AT&T	7	Communication	1989296	6076539	101	ED
AT&T	8	Communication	1989127	6076703	98	ED

**UTILITY PLAN**  
SCALE: 1" = 50'

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

**NOTES:**

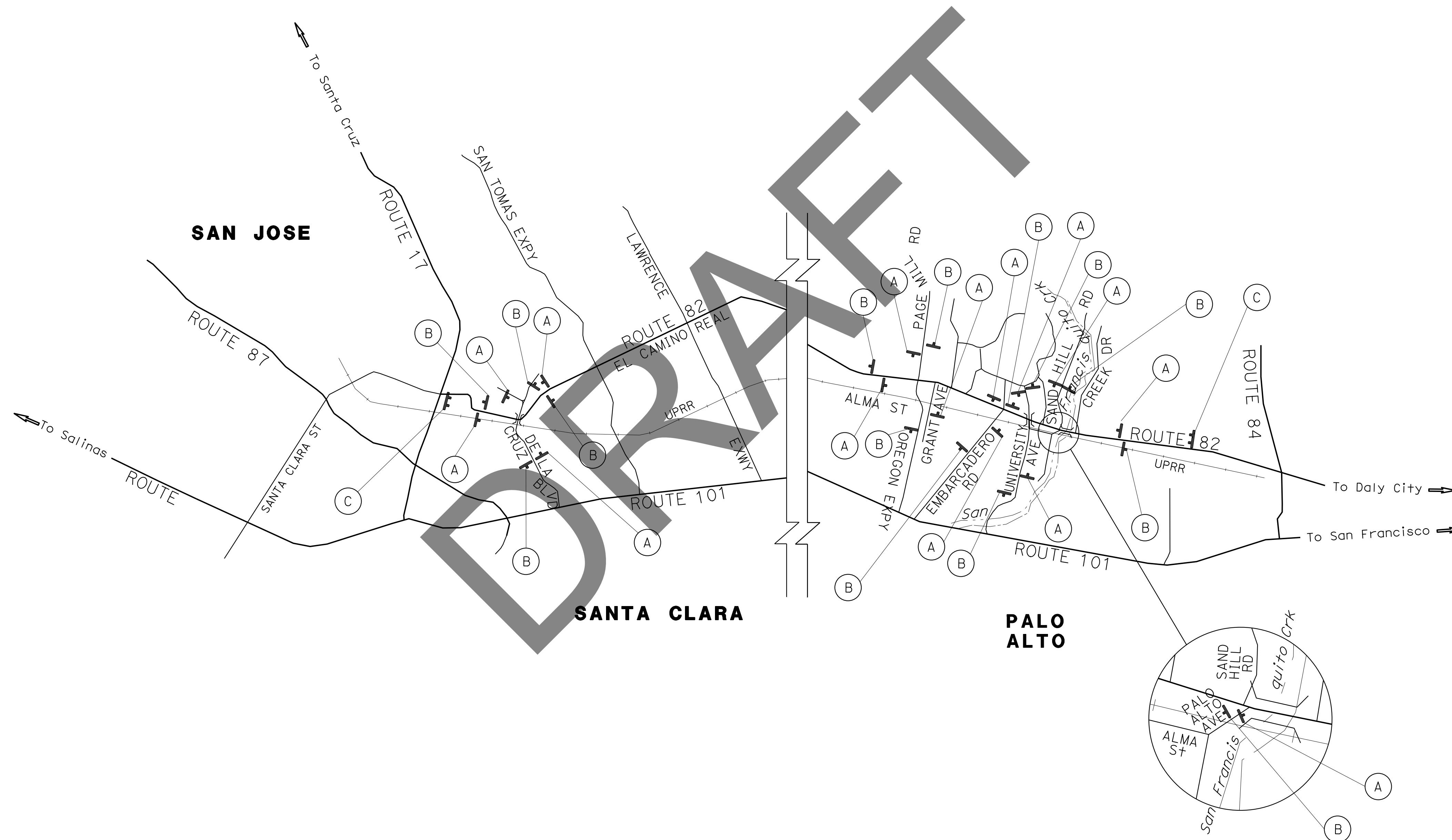
- EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
- POST SIZE AND LENGTH ARE APPROXIMATE, EXACT SIZE AND LENGTH TO BE DETERMINED BY THE ENGINEER.

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No. (X)	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	14
B	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	14
C	C48 (CA)	96" x 60"	SB1 PROJECT FUNDING SIGN	2 - 6" x 6"	2

**LEGEND:**

(X) CONSTRUCTION AREA SIGN LETTER



**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: KENNETH XU  
 CHECKED BY: RAJESH OBEROI  
 DESIGNED BY: SHREYA SHAH  
 REVISIONS: REVISED BY: DATE REVISED:

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR KENNETH XU	CALCULATED/DESIGNED BY CHECKED BY
SHREYA SHAH RAJESH OBEROI	REVISOR BY DATE REVISED
SS	0-00-22

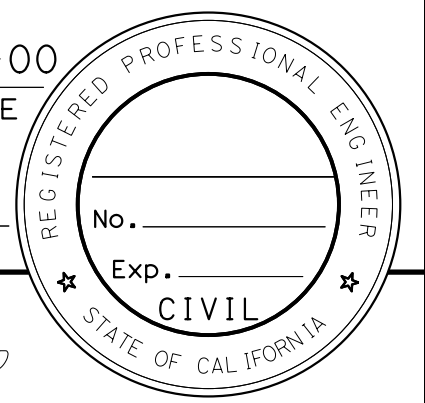
**NOTES:**

1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS SHALL BE DETERMINED BY THE ENGINEER.

**LEGEND:**

- No. CONSTRUCTION AREA SIGN NUMBER
- X RAMP OR CONNECTOR TO BE CLOSED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX
			0-00-00	DATE	
			REGISTERED CIVIL ENGINEER		
			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



**DETOUR PLAN No. 1**  
 FROM NB ROUTE 82 TO NB ROUTE 82  
 NB ROUTE 82  
 OFF-RAMP TO DE LA CRUZ Blvd  
 WB REED ST  
 SB LAFAYETTE ST  
 ON-RAMP TO NB ROUTE 82

**MOTORIST INFORMATION PLAN  
 LOCATION 1  
 NO SCALE**

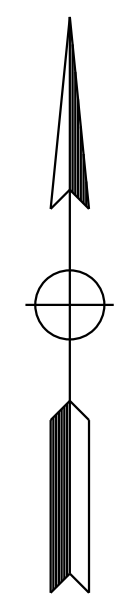
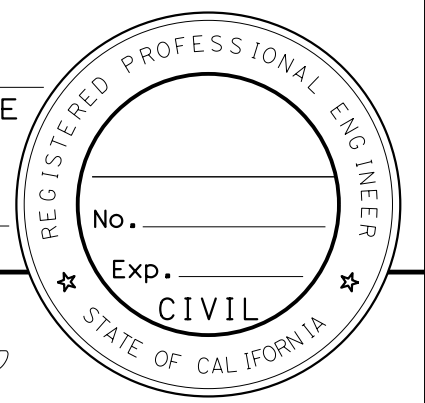
APPROVED FOR MOTORIST INFORMATION WORK ONLY

**MI-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX

REGISTERED CIVIL ENGINEER DATE  
 X-X-XX  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SEE DETOUR PLAN No. 2  
 SB ROUTE 82 AT DELACRUZ Blvd  
 CLOSED

**DETOUR PLAN No. 2**  
 FROM SB ROUTE 82 TO SB ROUTE 82  
 OFF-RAMP TO LAFAYETTE St;  
 EB HARRISON St;  
 ON-RAMP TO SB ROUTE 82

**MOTORIST INFORMATION PLAN**  
**LOCATION 1**  
 NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES AND LEGEND,  
 SEE SHEET MI-1

**MI-2**



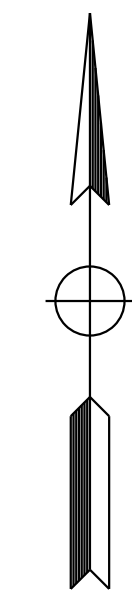
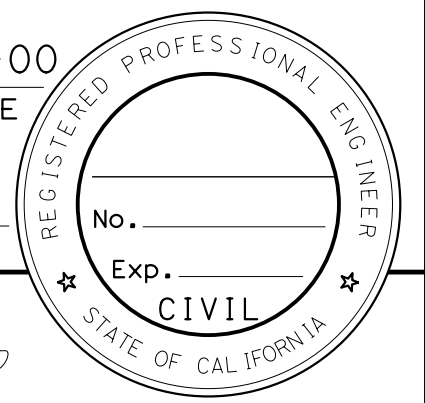
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX

REGISTERED CIVIL ENGINEER	DATE	0-00-00
PLANS APPROVAL DATE		
X-X-XX		

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SEE DETOUR PLAN No. 3  
WB DE LA CRUZ BLVD TO  
NB ROUTE 82 ON-RAMP  
CLOSED

**DETOUR PLAN No. 3**

FROM WB REED ST / NB COLEMAN AVE / WB DE LA CRUZ BLVD TO NB ROUTE 82

WB REED St  
SB LAFAYETTE St  
NB ROUTE 82

**MOTORIST INFORMATION PLAN  
LOCATION 1  
NO SCALE**

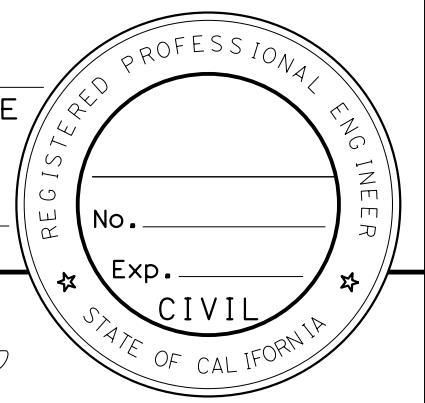
**MI-3**

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES AND LEGEND,  
SEE SHEET MI-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
Caltrans	
FUNCTIONAL SUPERVISOR	KENNETH XU
CALCULATED/DESIGNED BY	CHECKED BY
SHREYA SHAH	RAJESH OBEROI
REVISOR	DATE
SS	0-00-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX
REGISTERED CIVIL ENGINEER			DATE		
X-X-XX					
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



SEE DETOUR PLAN No. 3A  
EB DE LA CRUZ Blvd  
AT ROUTE 82  
CLOSED

**DETOUR PLAN No. 3A**  
FROM EB DE LA CRUZ Blvd  
TO EB DE LA CRUZ Blvd  
EB HARRISON ST  
SB THE ALAMEDA  
EB BENTON ST  
NB ROUTE 82  
OFF-RAMP TO EB DE LA CRUZ BLVD

**MOTORIST INFORMATION PLAN**  
**LOCATION 1**  
NO SCALE

**MI-4**

APPROVED FOR MOTORIST INFORMATION WORK ONLY

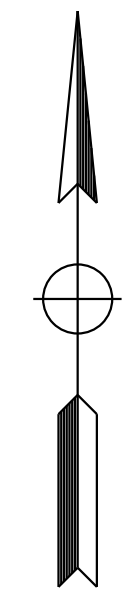
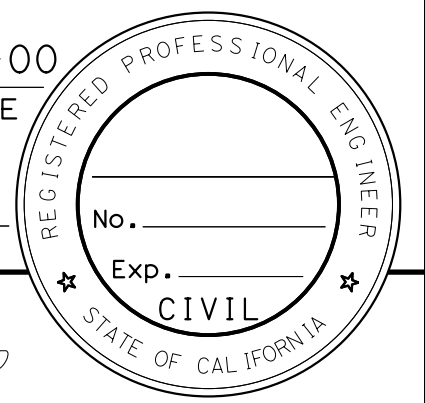
FOR NOTES AND LEGEND,  
SEE SHEET MI-1



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	KENNETH XU
CALCULATED/DESIGNED BY	CHECKED BY
SHREYA SHAH	RAJESH OBEROI
REVISOR	DATE
SS	8-26-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	SHREYA SHAH	REVISOR	SS
<b>Caltrans</b>	KENNETH XU	CHECKED BY	RAJESH OBEROI	DATE	0-00-22
<b>DESIGN</b>					

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX
			0-00-00	REGISTERED CIVIL ENGINEER DATE	
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



**DETOUR PLAN No. 3B**  
 FROM WB DE LA CRUZ Blvd  
 TO WB DE LA CRUZ Blvd  
 ON-RAMP TO NB ROUTE 82  
 SB LAFAYETTE St  
 WB LEWIS St

**MOTORIST INFORMATION PLAN**  
**LOCATION 1**  
 NO SCALE

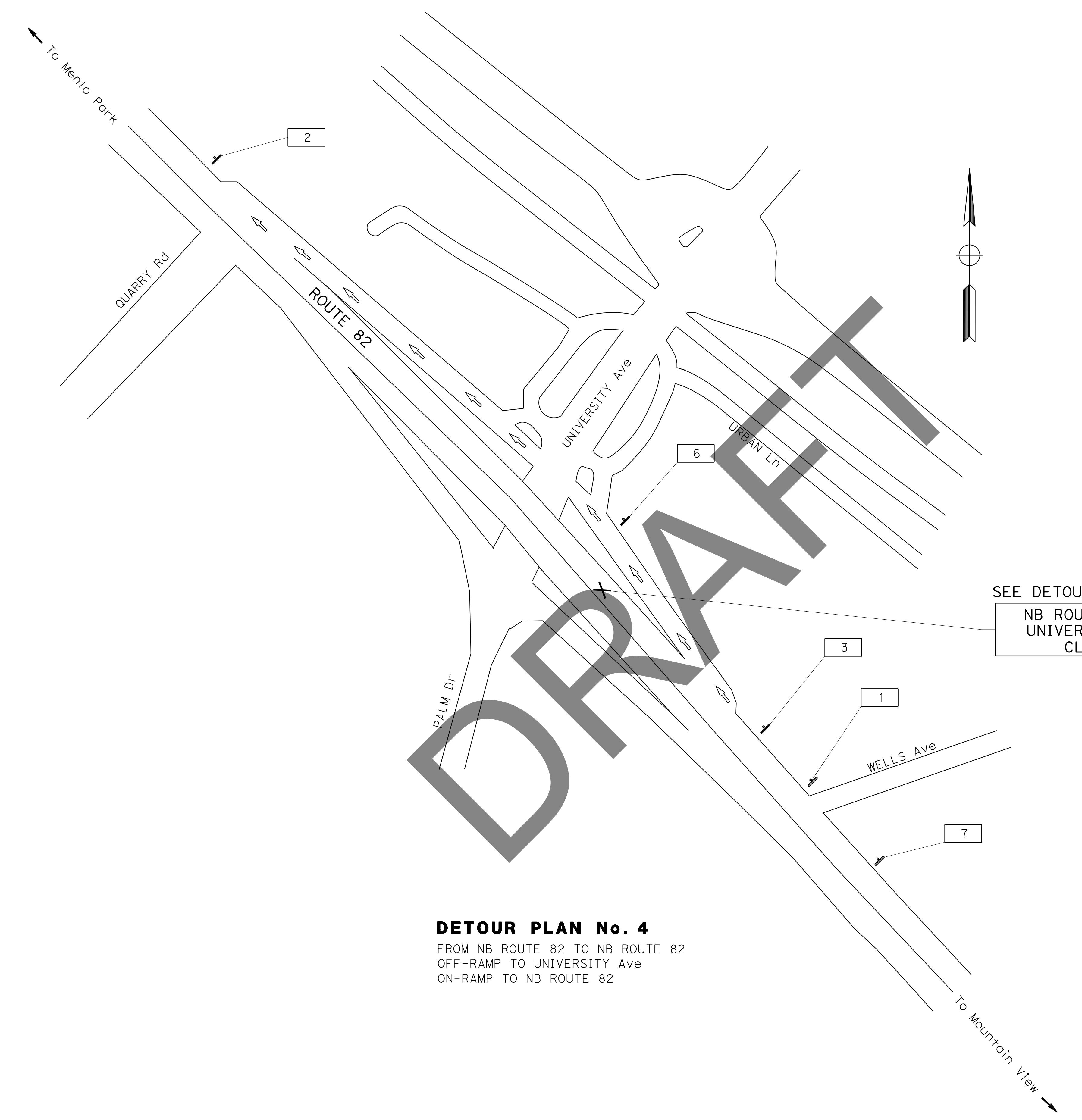
APPROVED FOR MOTORIST INFORMATION WORK ONLY

**MI-5**

LAST REVISION    DATE PLOTTED => 22-FEB-2023    08-26-22    TIME PLOTTED => 09:36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	SHREYA SHAH	REVISOR	SS
				CHECKED BY	RAJESH OBEROI
DESIGN		KENNETH XU			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX
			0-00-00	REGISTERED CIVIL ENGINEER	DATE
			X-X-XX	PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



**DETOUR PLAN No. 4**  
 FROM NB ROUTE 82 TO NB ROUTE 82  
 OFF-RAMP TO UNIVERSITY Ave  
 ON-RAMP TO NB ROUTE 82

SEE DETOUR PLAN No. 4  
 NB ROUTE 82 AT  
 UNIVERSITY Ave  
 CLOSED

**MOTORIST INFORMATION PLAN**  
**LOCATION 3**  
 NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES AND LEGEND,  
 SEE SHEET MI-1

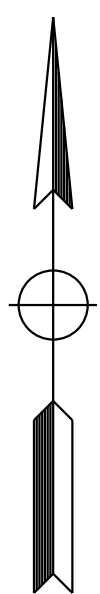
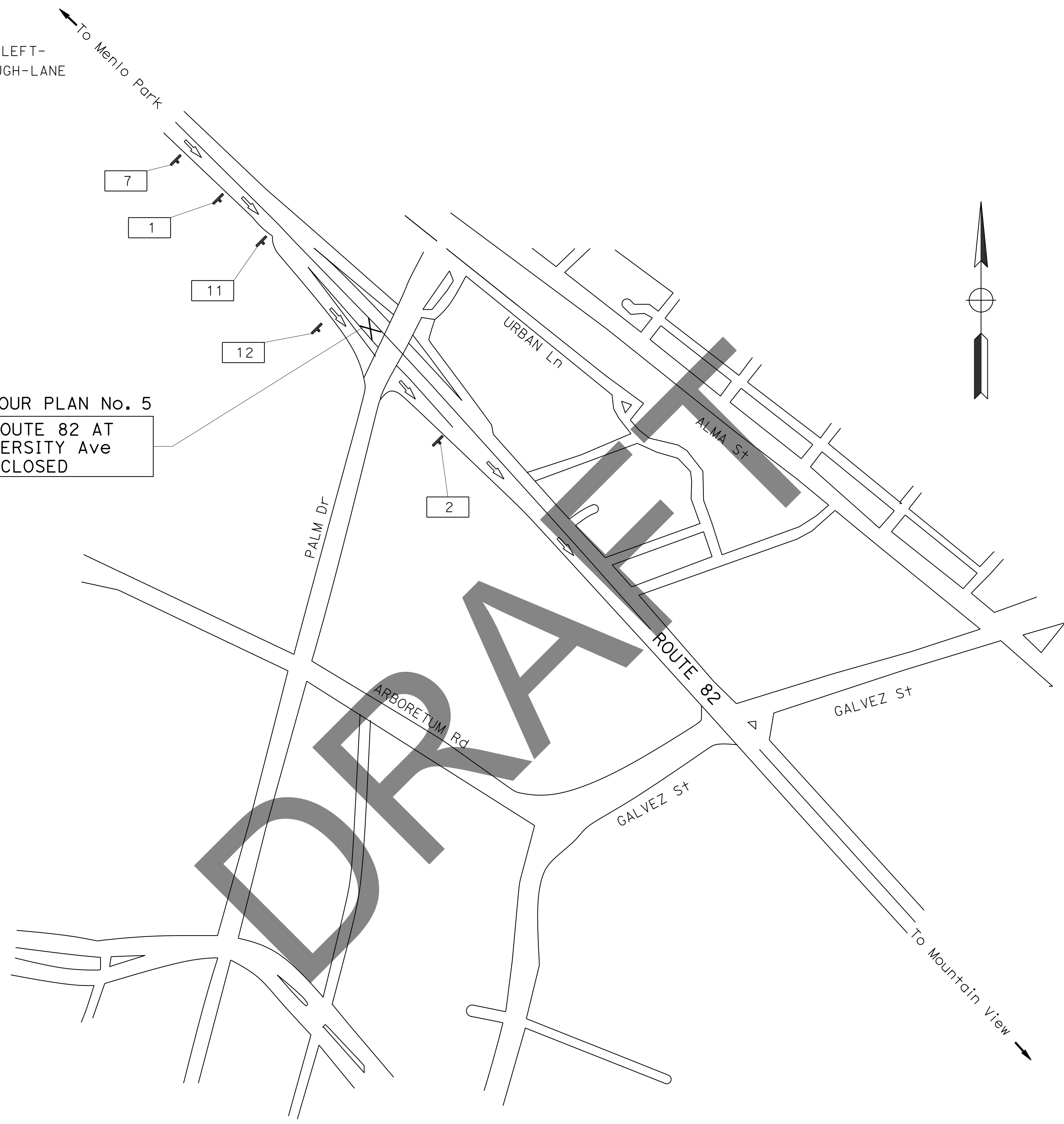
**MI-6**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN

FUNCTIONAL SUPERVISOR	KENNETH XU
CALCULATED/DESIGNED BY	CHECKED BY
SHREYA SHAH	RAJESH OBEROI
REVISED BY	DATE REVISED
SS	0-00-22

**NOTE:** (FOR THIS SHEET ONLY)  
 DURING THE CLOSURE HOURS, TEMPORARILY CHANGE THE LEFT-LANE PAVEMENT ARROW TO THE SHARED LEFT-AND-THROUGH-LANE WITH OBTAINING THE LOCAL POLICE/CHP CONCURRENCE

SEE DETOUR PLAN No. 5  
 SB ROUTE 82 AT UNIVERSITY Ave  
 CLOSED



**DETOUR PLAN No. 5**  
 FROM SB ROUTE 82 TO SB ROUTE 82  
 OFF-RAMP TO UNIVERSITY Ave  
 ON-RAMP TO SB ROUTE 82

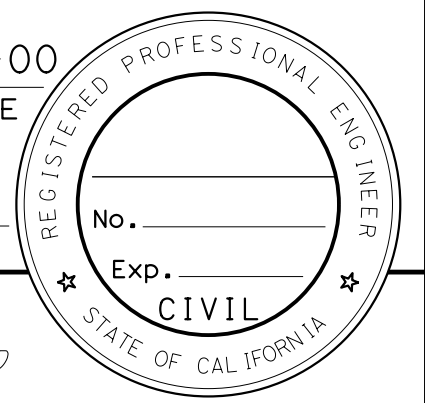
**MOTORIST INFORMATION PLAN  
 LOCATION 3  
 NO SCALE**

APPROVED FOR MOTORIST INFORMATION WORK ONLY

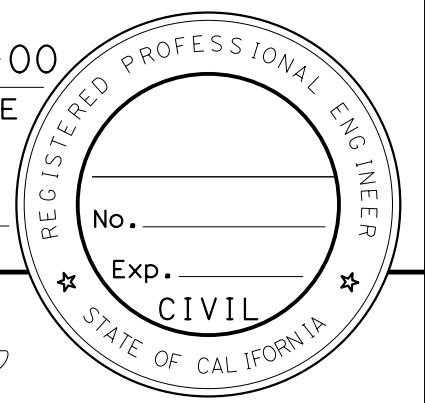
FOR NOTES AND LEGEND,  
 SEE SHEET MI-1

**MI-7**

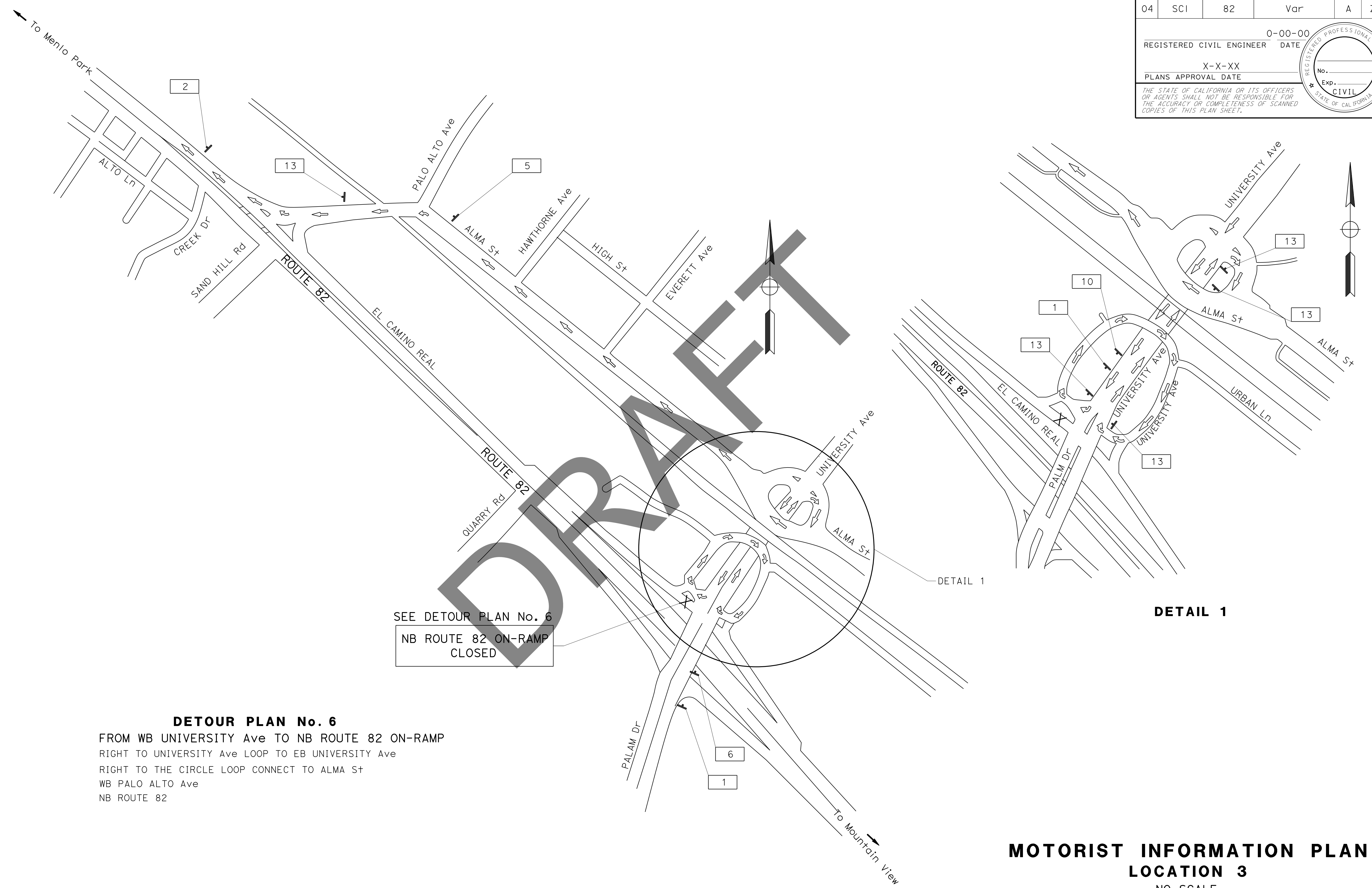
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX
			0-00-00	REGISTERED CIVIL ENGINEER DATE	
			X-X-XX	PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX
			0-00-00	REGISTERED CIVIL ENGINEER DATE	
			X-X-XX	PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

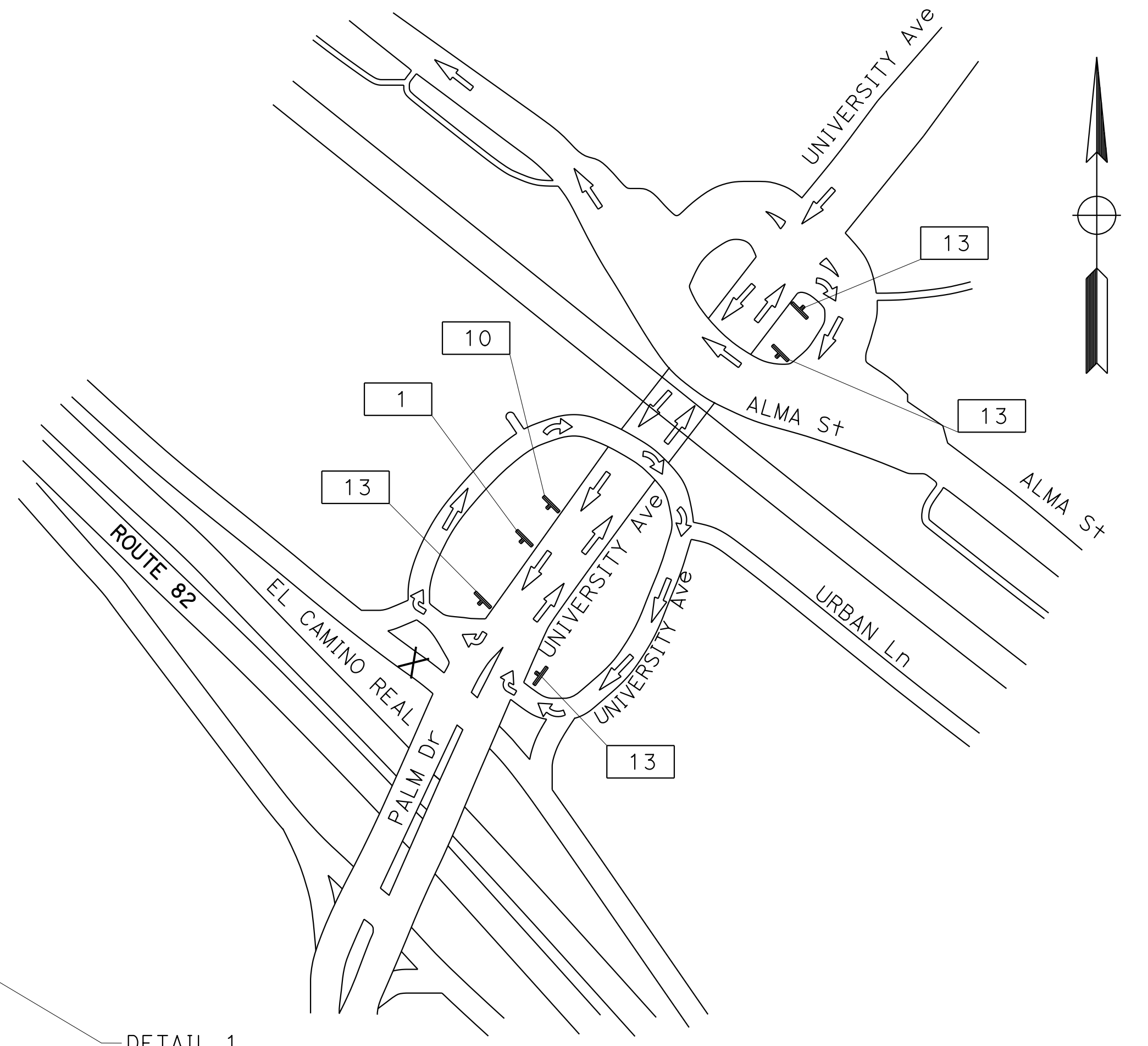


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	KENNETH XU
CALCULATED/DESIGNED BY	CHECKED BY
SHREYA SHAH	RAJESH OBEROI
REVISOR	SS
DATE REVISED	0-00-22



SEE DETOUR PLAN No. 6  
NB ROUTE 82 ON-RAMP CLOSED

**DETOUR PLAN No. 6**  
FROM WB UNIVERSITY Ave TO NB ROUTE 82 ON-RAMP  
RIGHT TO UNIVERSITY Ave LOOP TO EB UNIVERSITY Ave  
RIGHT TO THE CIRCLE LOOP CONNECT TO ALMA ST  
WB PALO ALTO Ave  
NB ROUTE 82



**DETAIL 1**

**MOTORIST INFORMATION PLAN**  
**LOCATION 3**  
NO SCALE

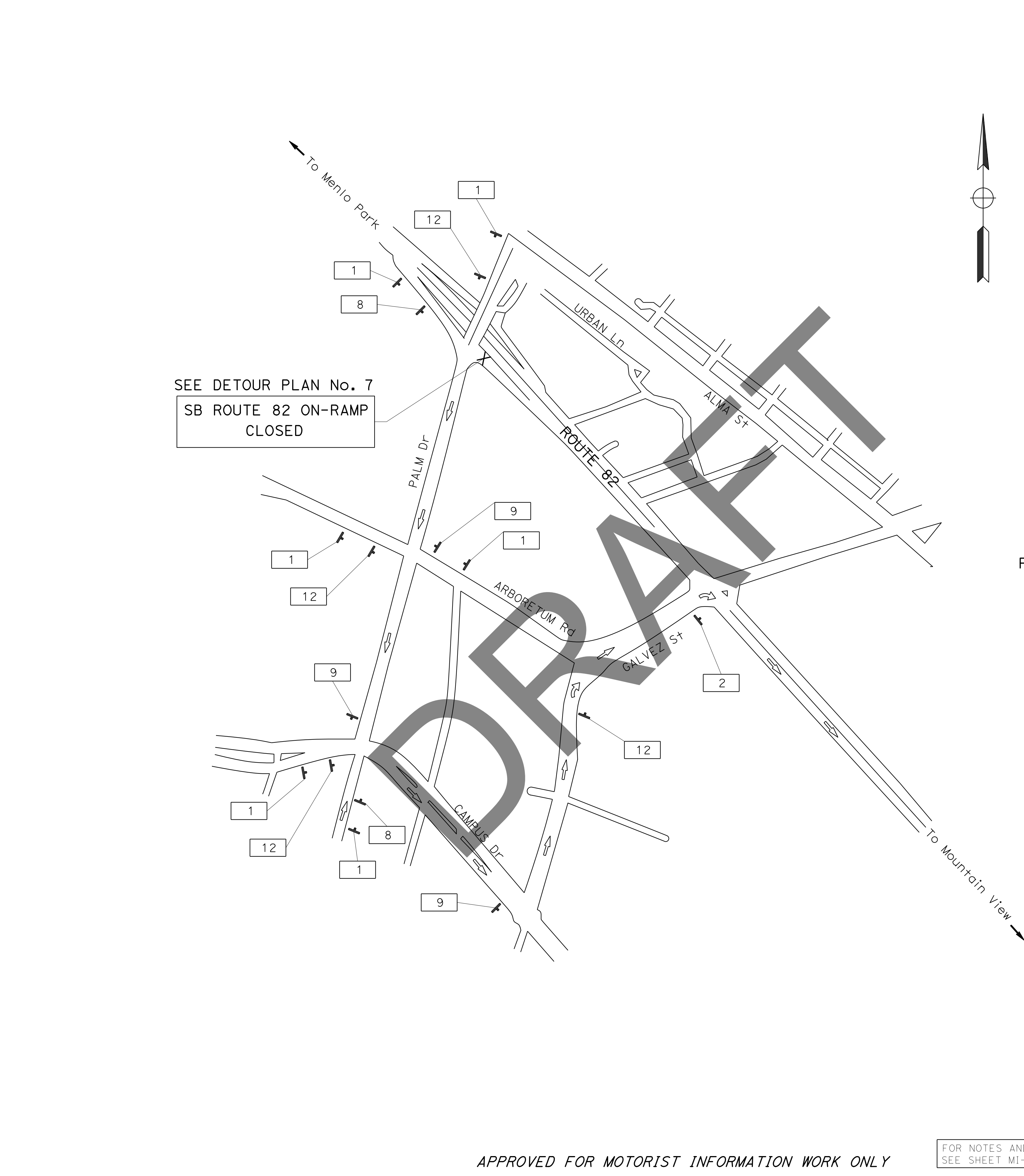
**MI-8**

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET MI-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN

FUNCTIONAL SUPERVISOR	KENNETH XU
CALCULATED/DESIGNED BY	CHECKED BY
SHREYA SHAH	RAJESH OBEROI
REVISOR	DATE
SS	0-00-22



**DETOUR PLAN No. 7**  
 FROM EB/WB UNIVERSITY Ave TO SB ROUTE 82 ON-RAMP  
 EB CAMPUS Dr  
 NB GALVEZ St  
 SB ROUTE 82

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX
			0-00-00	DATE	
			X-X-XX	PLANS APPROVAL DATE	

REGISTERED CIVIL ENGINEER  
 No. \_\_\_\_\_  
 Exp. \_\_\_\_\_  
 CIVIL  
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

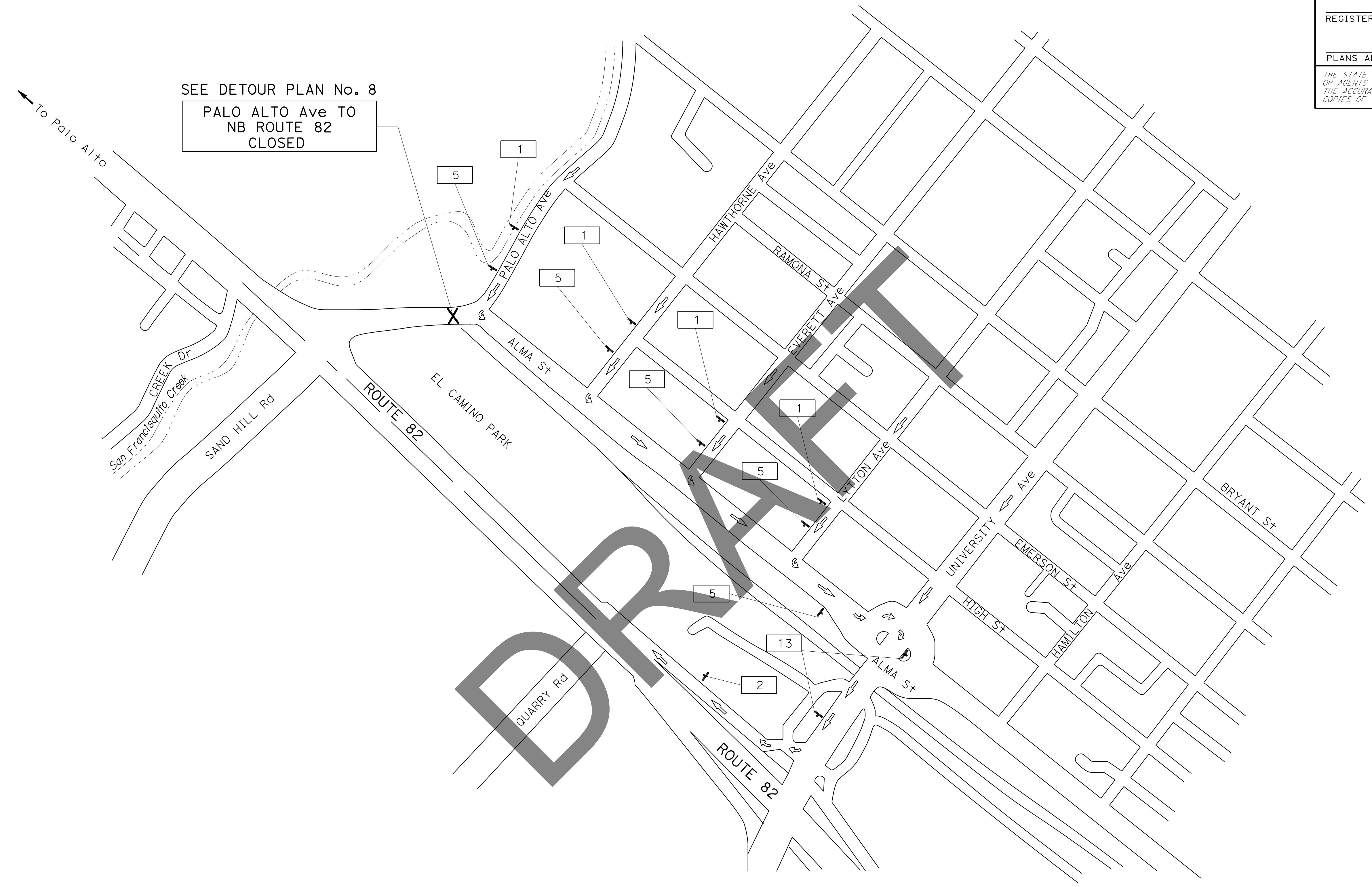
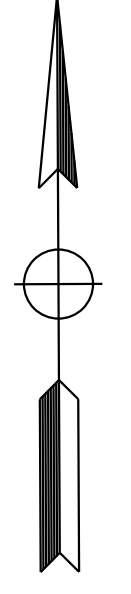
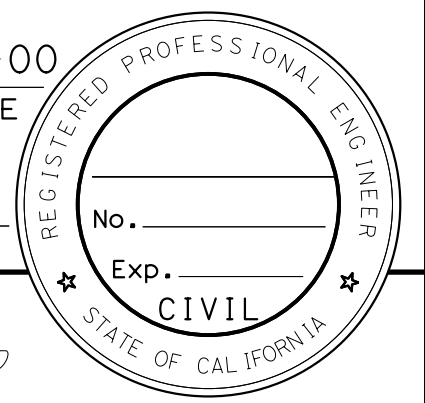
**MOTORIST INFORMATION PLAN**  
**LOCATION 3**  
 NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET MI-1

**MI-9**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX
			0-00-00	DATE	
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



SEE DETOUR PLAN No. 8  
PALO ALTO Ave TO  
NB ROUTE 82  
CLOSED

**DETOUR PLAN No. 8**

FROM PALO ALTO Ave, HAWTHORNE Ave AND LYTTON Ave TO NB ROUTE 82

SB ALMA St  
WB UNIVERSITY Ave  
NB ROUTE 82 ON-RAMP

**MOTORIST INFORMATION PLAN  
LOCATION 4  
NO SCALE**

**MI-10**

APPROVED FOR MOTORIST INFORMATION WORK ONLY

FOR NOTES AND LEGEND,  
SEE SHEET MI-1



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	KENNETH XU
CALCULATED/DESIGNED BY	CHECKED BY
SHREYA SHAH	RAJESH OBEROI
REVISOR	SS
DATE REVISION	0-00-22



FUNCTIONAL SUPERVISOR	KENNETH XU
CALCULATED/DESIGNED BY	CHECKED BY
SHREYA SHAH	RAJESH OBEROI
REVISOR	DATE
SS	0-00-22

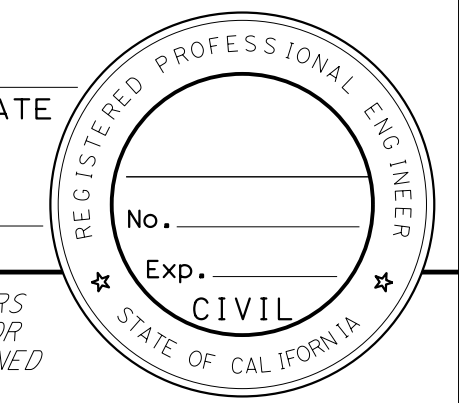
**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No. #	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS	REMARKS
1	W20-2	36" x 36"	DETOUR AHEAD	1 - 4"x 6"	20	
2	M4-8a	24" x 18"	END DETOUR	1 - 4"x 4"	10	
3	M4-8	30" x 15"	DETOUR	1 - 4"x 6"	2	
	M3-1	24" x 12"	NORTH			
	G28-2(82) (CA)	24" x 25"	ROUTE SHIELD 82			
4	M6-2	21" x 15"	UP RIGHT ARROW	1 - 4"x 6"	1	
	M4-8	30" x 15"	DETOUR			
	M3-1	24" x 12"	NORTH			
5	G28-2(82) (CA)	24" x 25"	ROUTE SHIELD 82	1 - 4"x 6"	10	
	M6-1	21" x 15"	LEFT ARROW			
	M4-8	30" x 15"	DETOUR			
6	M3-1	24" x 12"	NORTH	1 - 4"x 6"	5	
	G28-2(82) (CA)	24" x 25"	ROUTE SHIELD 82			
	M6-3	21" x 15"	UP ARROW			
7	C19 (CA)	36" x 36"	ROAD CLOSED AHEAD	1 - 4"x 6"	5	
	M4-8	30" x 15"	DETOUR			
	M3-3	24" x 12"	SOUTH			
8	G28-2(82) (CA)	24" x 25"	ROUTE SHIELD 82	1 - 4"x 6"	3	
	M6-1	21" x 15"	RIGHT ARROW			
	M4-8	30" x 15"	DETOUR			
9	M3-3	24" x 12"	SOUTH	1 - 4"x 6"	4	
	G28-2(82) (CA)	24" x 25"	ROUTE SHIELD 82			
	M6-1	21" x 15"	LEFT ARROW			
10	C19 (CA)	36" x 36"	RAMP CLOSED AHEAD	1 - 4"x 6"	4	
	M4-8	30" x 15"	DETOUR			
	M3-3	24" x 12"	SOUTH			
11	G28-2(82) (CA)	24" x 25"	ROUTE SHIELD 82	1 - 4"x 6"	1	
	M6-2	21" x 15"	UP RIGHT ARROW			
	M4-8	30" x 15"	DETOUR			
12	M3-3	24" x 12"	SOUTH	1 - 4"x 6"	5	
	G28-2(82) (CA)	24" x 25"	ROUTE SHIELD 82			
	M6-3	21" x 15"	UP ARROW			
13	M4-8	30" x 15"	DETOUR	1 - 4"x 6"	8	
	M3-1	24" x 12"	NORTH			
	G28-2(82) (CA)	24" x 25"	ROUTE SHIELD 82			
14	M6-1	21" x 15"	RIGHT ARROW	1 - 4"x 6"	2	SEE MID SHEET
	M4-8	30" x 15"	DETOUR			
	M3-2	24" x 12"	EAST			
15	SPECIAL A	54" x 24"	DE LA CRUZ BLVD	1 - 4"x 6"	1	SEE MID SHEET
	M6-1	21" x 15"	RIGHT ARROW			
	M4-8	30" x 15"	DETOUR			
16	M3-2	24" x 12"	EAST	1 - 4"x 6"	5	SEE MID SHEET
	SPECIAL A	54" x 24"	DE LA CRUZ BLVD			
	M6-1	21" x 15"	LEFT ARROW			
17	M4-8	30" x 15"	DETOUR	1 - 4"x 6"	1	SEE MID SHEET
	M3-4	24" x 12"	WEST			
	SPECIAL A	54" x 24"	DE LA CRUZ BLVD			
18	M6-2	21" x 15"	UP RIGHT ARROW	1 - 4"x 6"	1	SEE MID SHEET
	M4-8	30" x 15"	DETOUR			
	M3-4	24" x 12"	WEST			
	SPECIAL A	54" x 24"	DE LA CRUZ BLVD			
	M6-2	21" x 15"	LEFT ARROW			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 X-X-XX  
 PLANS APPROVAL DATE \_\_\_\_\_

*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*



**MOTORIST INFORMATION PLAN**

**MI-11**

LAST REVISION DATE PLOTTED => 22-FEB-2023 08-26-22 TIME PLOTTED => 09:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX

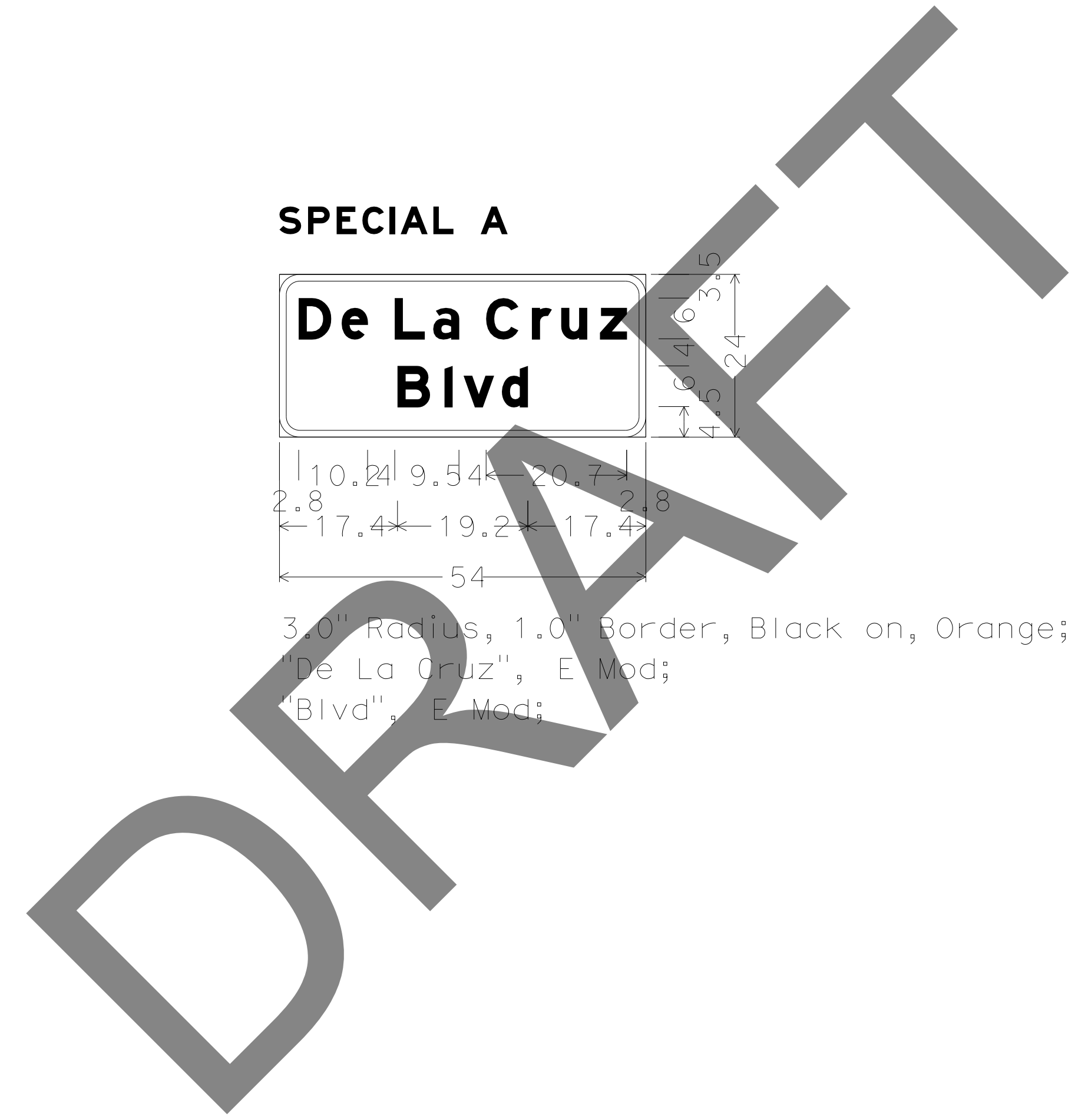
REGISTERED CIVIL ENGINEER	DATE
	X-X-XX
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER No. _____ Exp. _____ CIVIL STATE OF CALIFORNIA
---

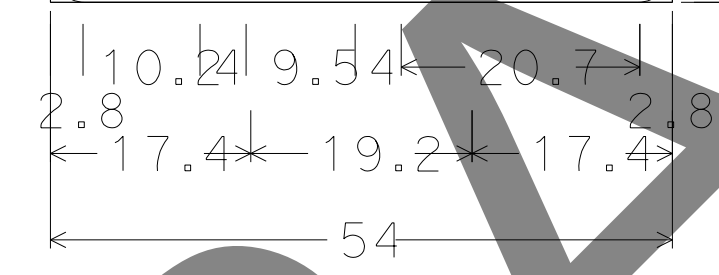
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	SHREYA SHAH	REVISED BY	SS
<b>Caltrans</b>	KENNETH XU	CHECKED BY	RAJESH OBEROI	DATE REVISED	0-00-22
<b>DESIGN</b>					



**SPECIAL A**

**De La Cruz  
Blvd**



3.0" Radius, 1.0" Border, Black on, Orange;  
 "De La Cruz", E Mod;  
 "Blvd", E Mod;

**MOTORIST INFORMATION DETAILS**  
NO SCALE

**MID-1**

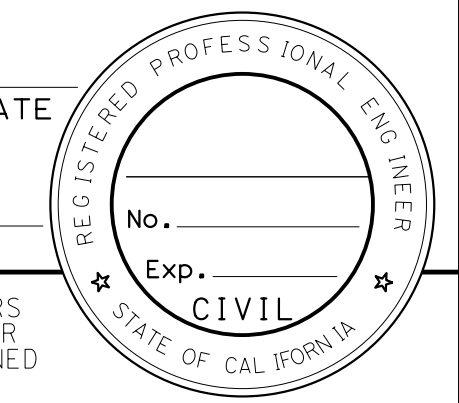
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**NOTE:**

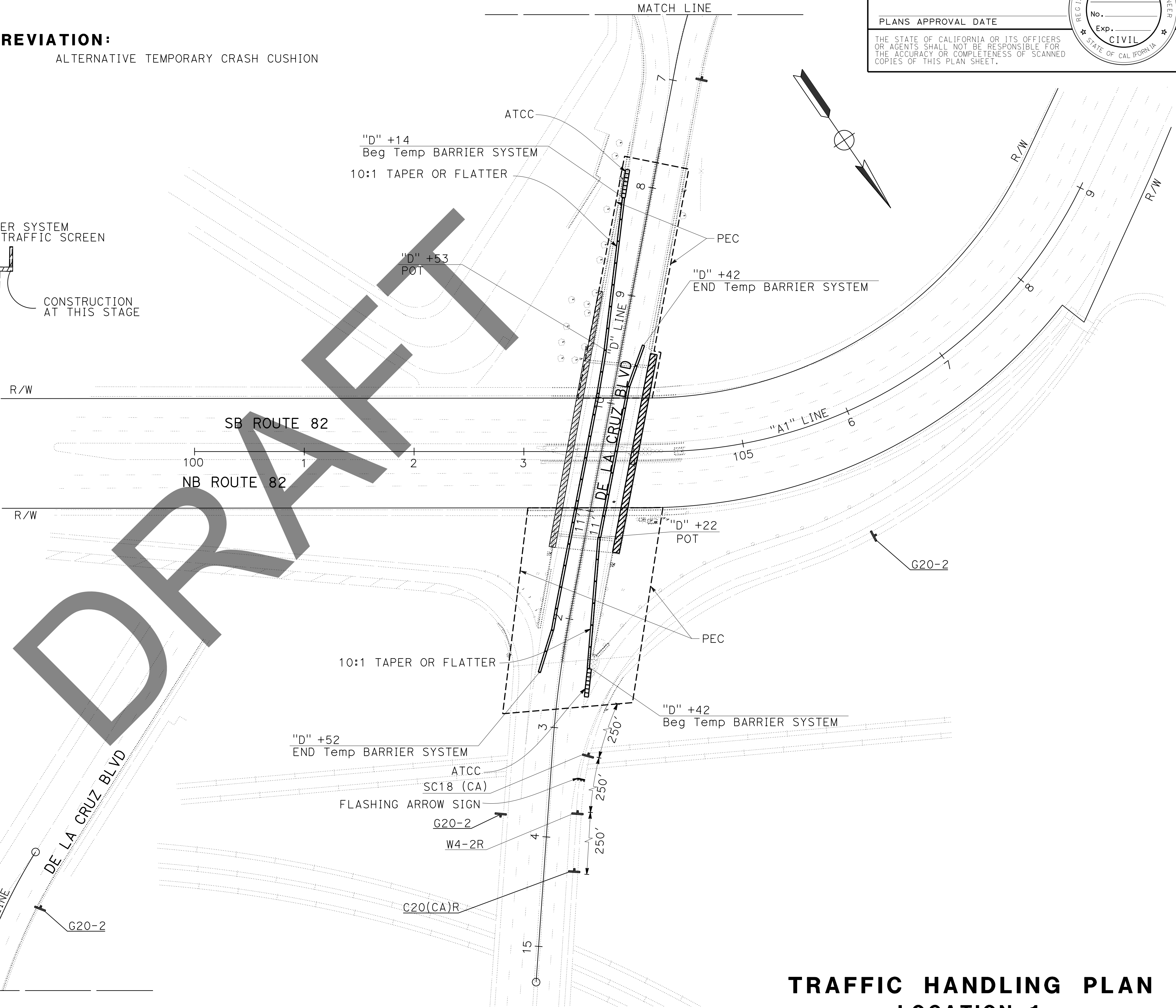
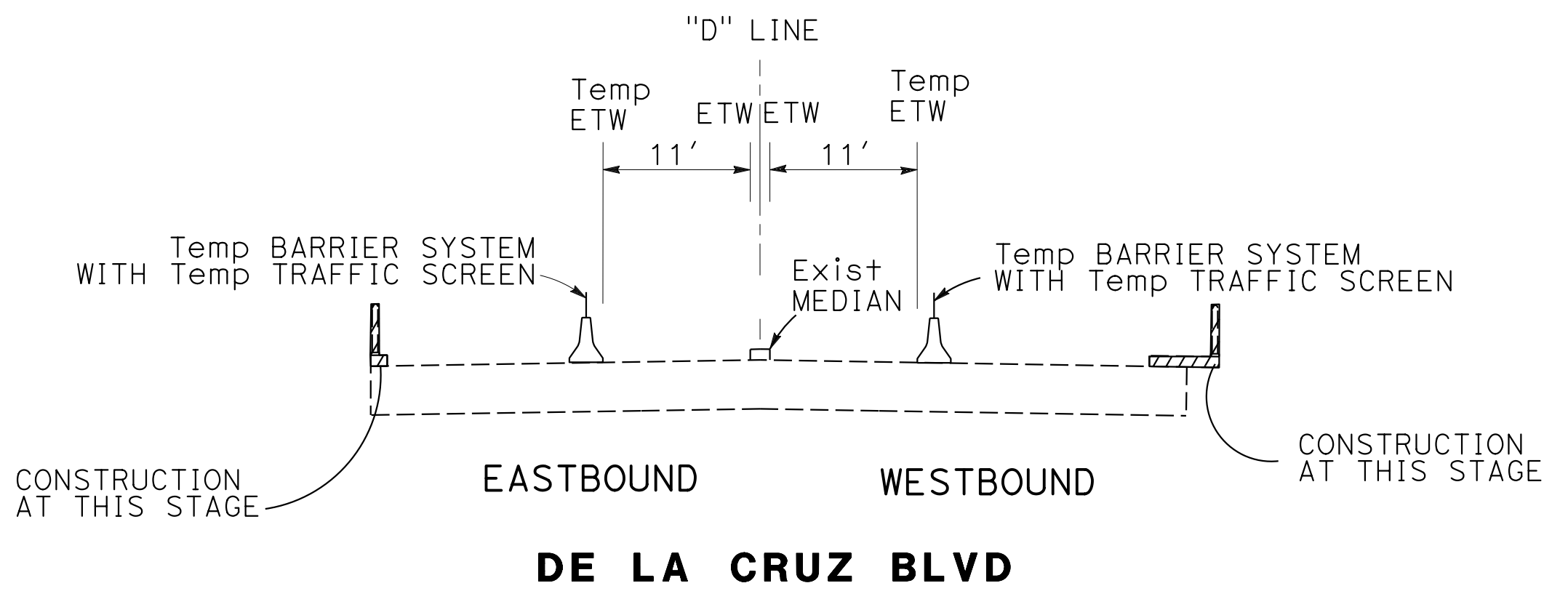
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**LEGEND:**

CONSTRUCTION THIS STAGE

**ABBREVIATION:**

ATCC ALTERNATIVE TEMPORARY CRASH CUSHION



DRAFT

**TRAFFIC HANDLING PLAN  
LOCATION 1  
SCALE: 1" = 50'  
TH-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
	MUSTAQUR RAHMAN	KKENNY YAP	
	CHECKED BY	DATE	
	MUSTAQUR RAHMAN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

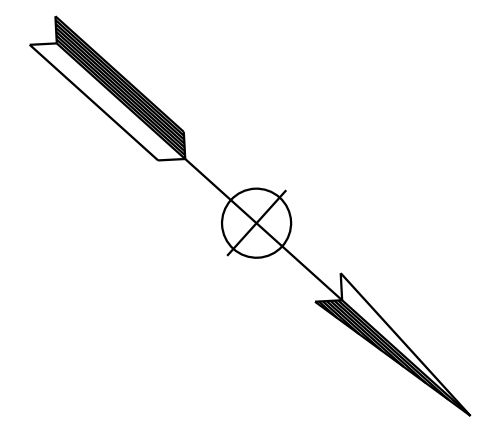
FUNCTIONAL SUPERVISOR  
 MUSTAQUR RAHMAN

CALCULATED/DESIGNED BY  
 CHECKED BY

REVISOR  
 KKENNY YAP  
 MUSTAQUR RAHMAN

REVISOR  
 DATE

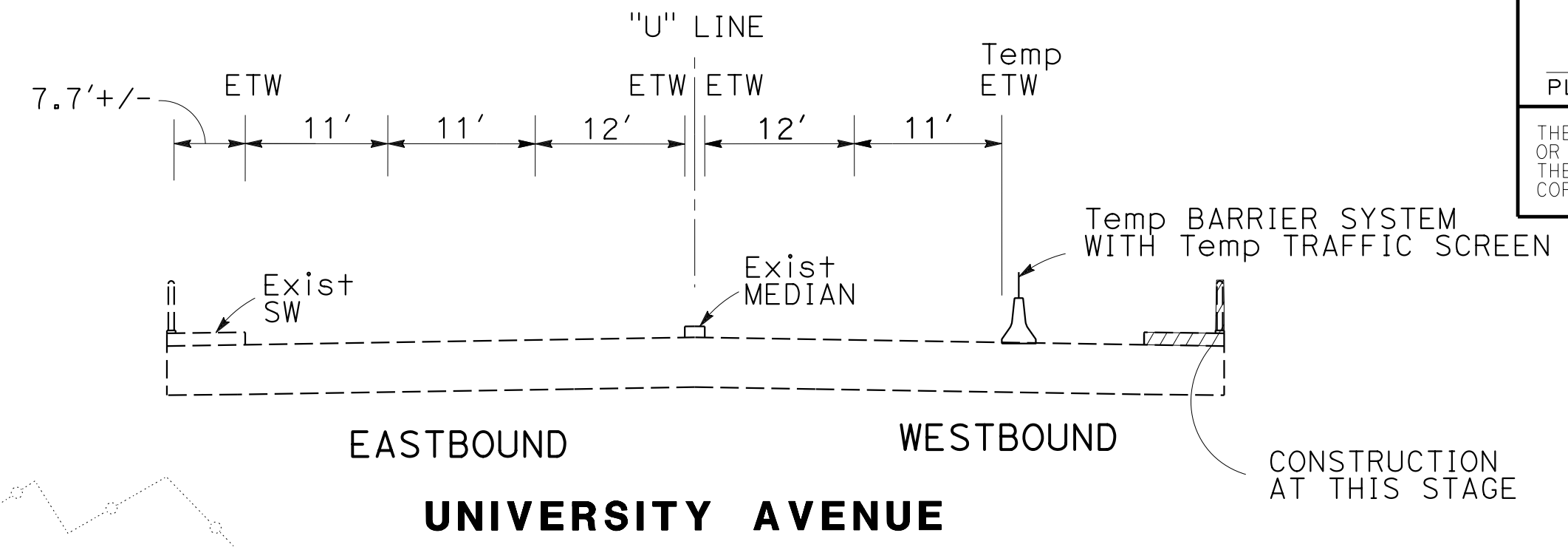
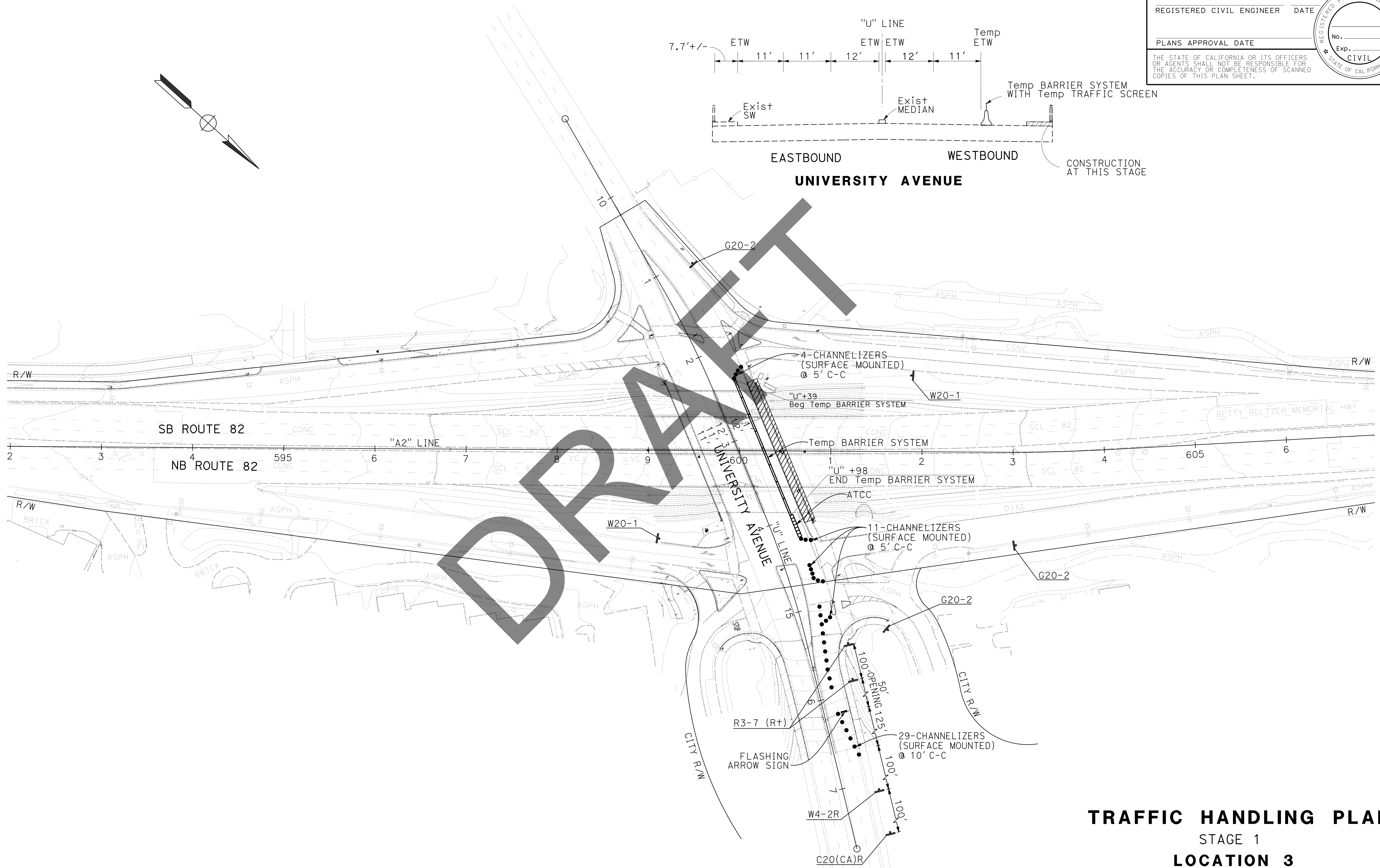
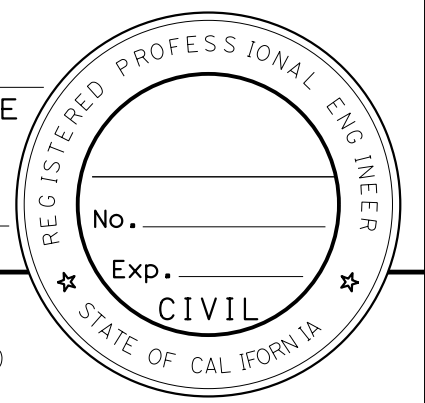
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



FOR NOTE, ABBREVIATION AND LEGENT, SEE SHEET TH-1

**TRAFFIC HANDLING PLAN**  
 STAGE 1  
**LOCATION 3**  
 SCALE: 1" = 50'  
**TH-2**

NOTE:  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

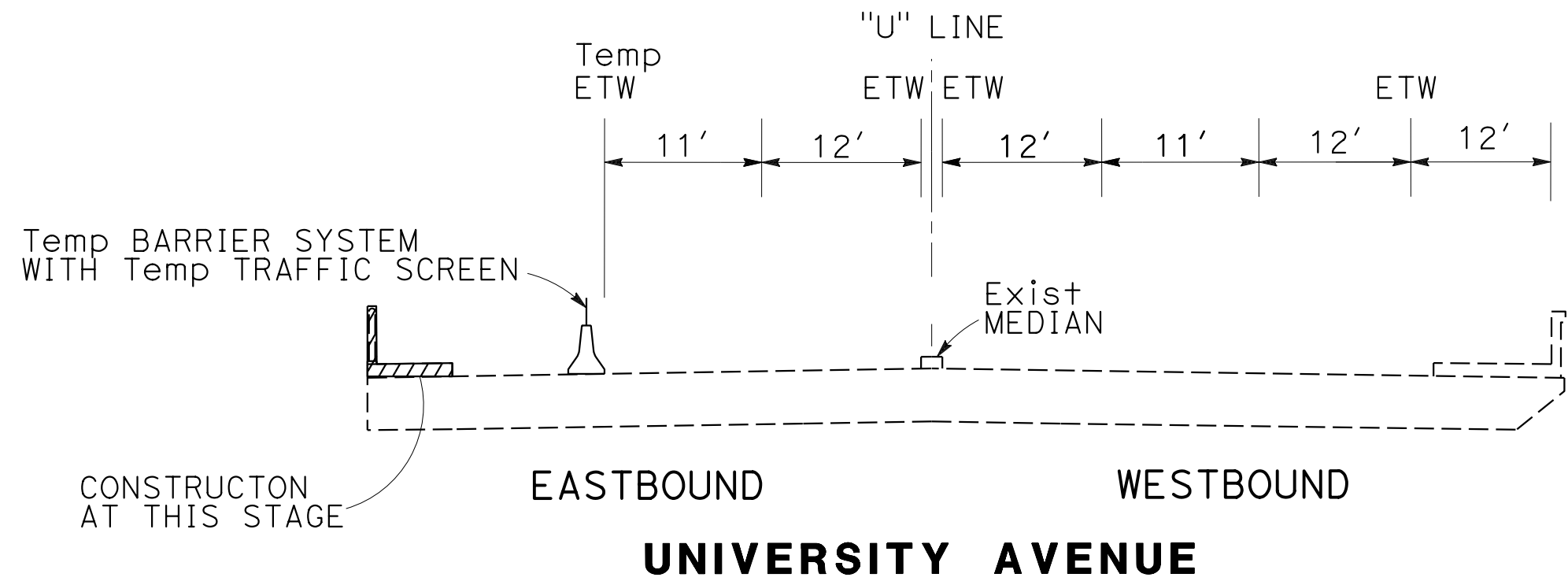
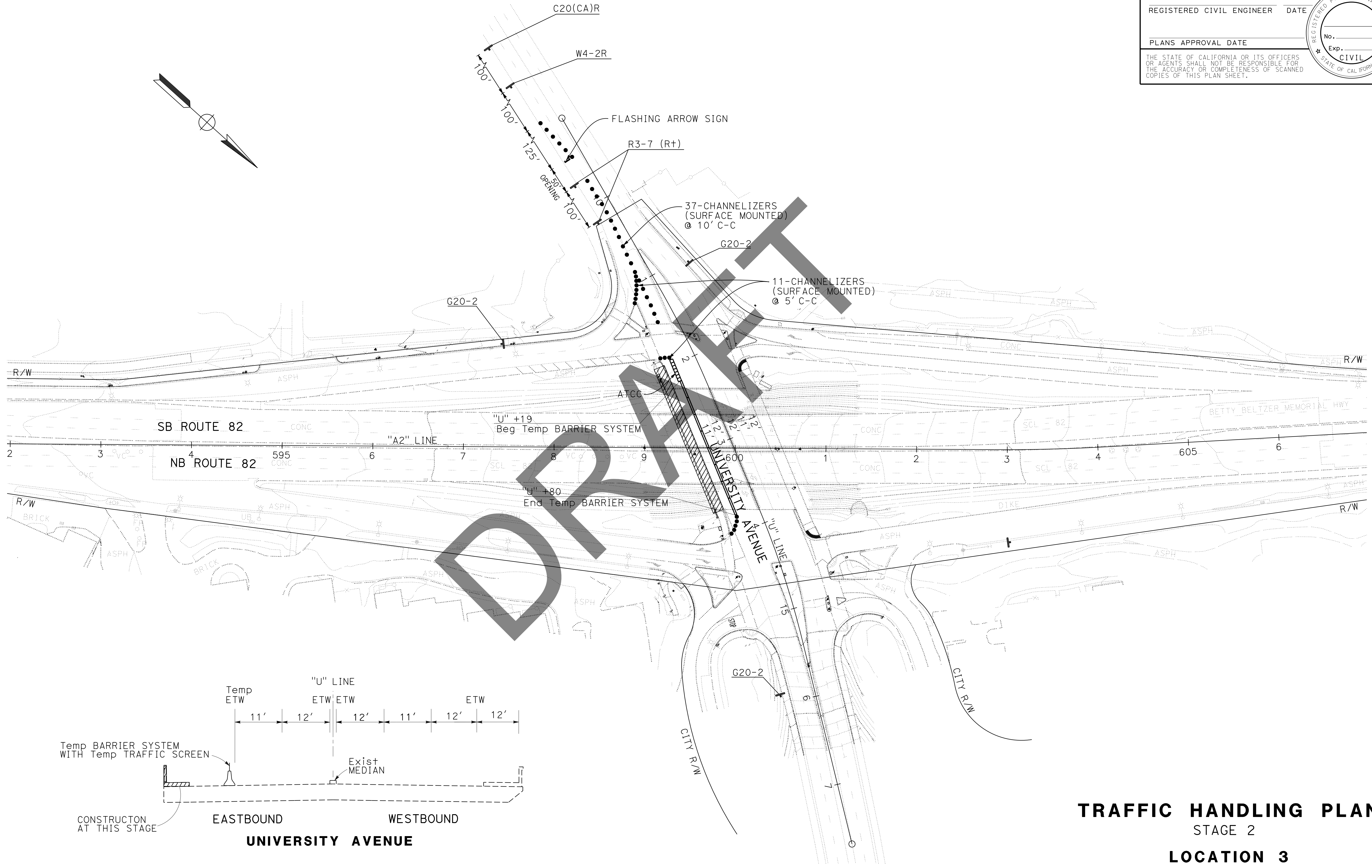
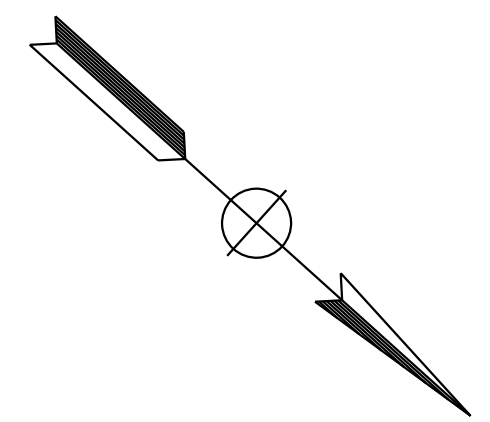
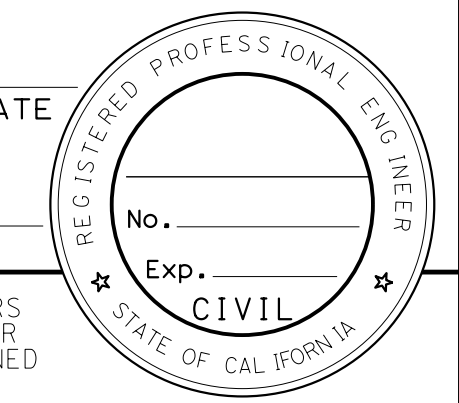
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**TRAFFIC HANDLING PLAN**  
STAGE 2  
**LOCATION 3**  
SCALE: 1" = 50'

**TH-3**

FOR NOTE, ABBREVIATION AND LEGENT, SEE SHEET TH-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISIONS
<b>Caltrans</b>	MUSTAQUOR RAHMAN	KKENNY YAP	
	CHECKED BY	DATE	
	MUSTAQUOR RAHMAN		

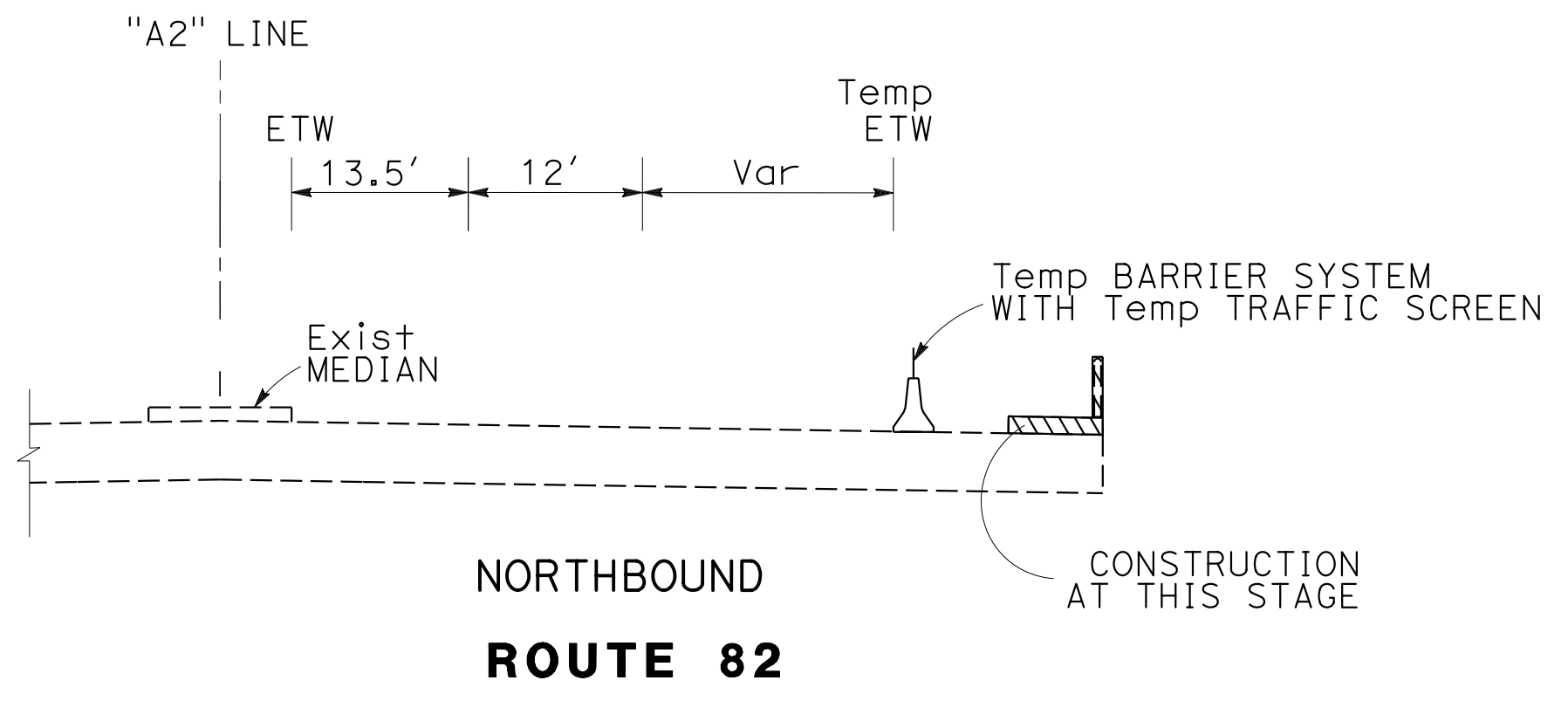
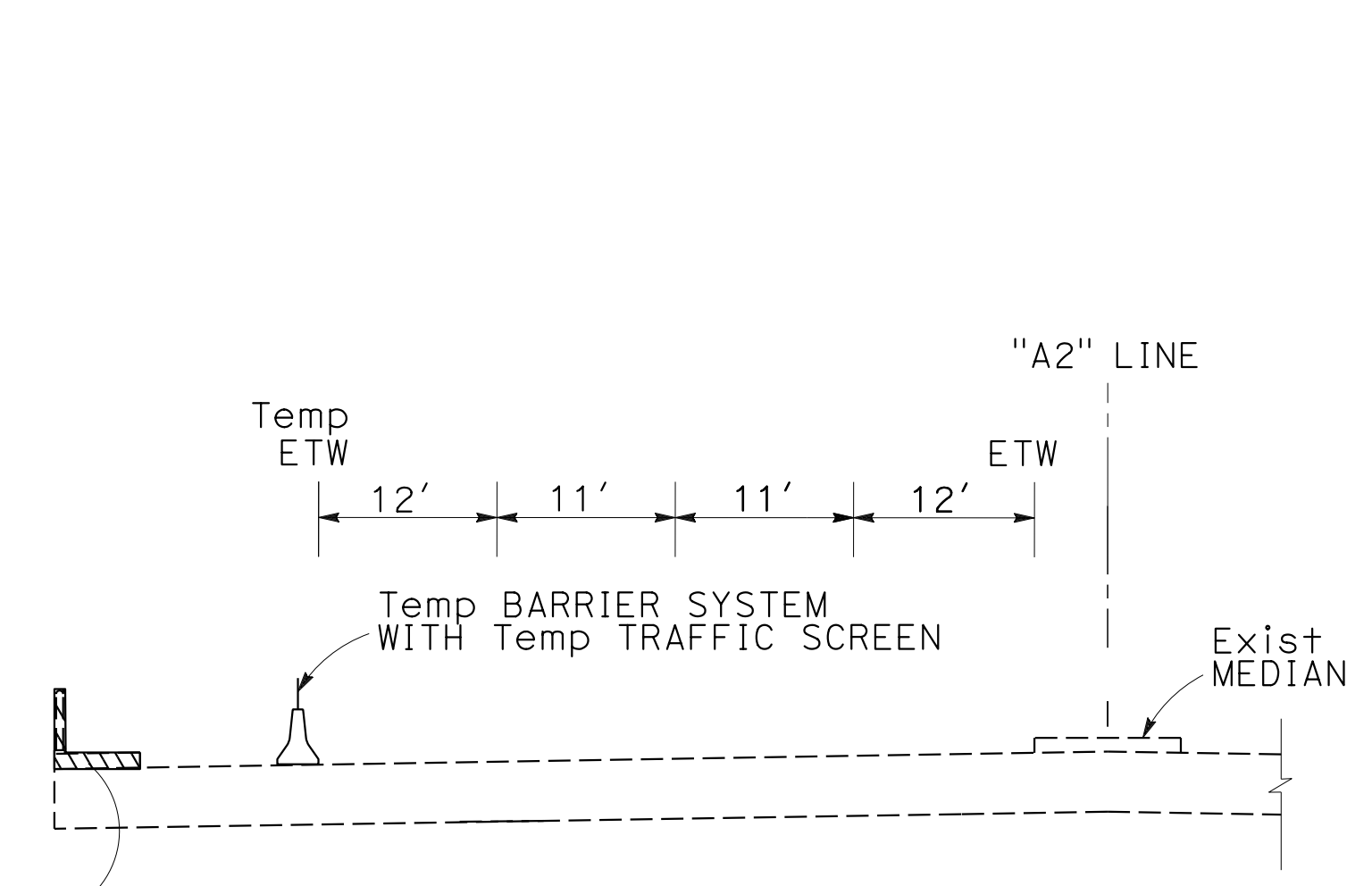
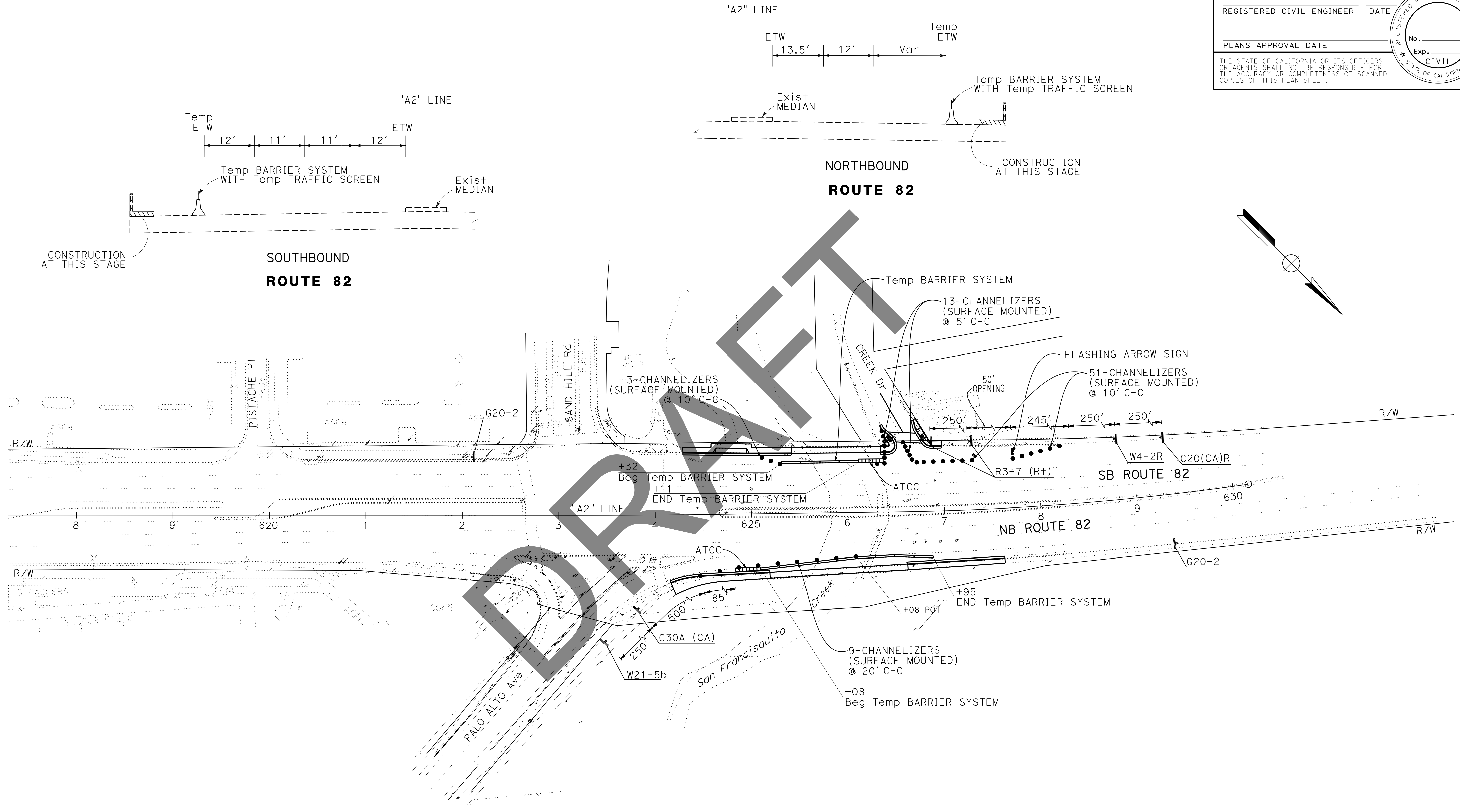
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: MUSTAQUR RAHMAN  
 CHECKED BY: MUSTAQUR RAHMAN  
 CALCULATED/DESIGNED BY: MUSTAQUR RAHMAN  
 REVISIONS: KKENNY YAP, MUSTAQUR RAHMAN  
 REVISED BY: KKENNY YAP, MUSTAQUR RAHMAN  
 DATE REVISED: [Blank]

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE: \_\_\_\_\_  
 PLANS APPROVAL DATE: \_\_\_\_\_  
 No. \_\_\_\_\_  
 Exp. \_\_\_\_\_  
 CIVIL  
 STATE OF CALIFORNIA

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FOR NOTE, ABBREVIATION AND LEGENT, SEE SHEET TH-1

**TRAFFIC HANDLING PLAN**

**LOCATION 4**

SCALE: 1" = 50'

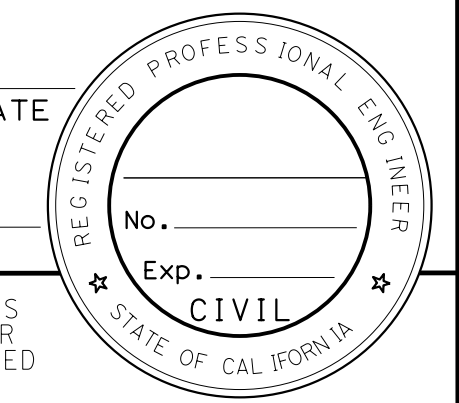
**TH-4**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

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### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SHEET No.	LOCATION	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS (N)
TH-1	1	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	2
		C20(CA)R	48" x 48"	RIGHT LANE CLOSED AHEAD	1 - 4" x 6"	2
		W4-2R	48" x 48"	MERGE LEFT	1 - 4" x 6"	2
		G20-2	48" x 48"	END ROAD WORK	1 - 4" x 6"	3
		SC18 (CA)	48" x 48"	EXIT	1 - 4" x 6"	2
TH-2	3	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	2
		C20(CA)R	48" x 48"	RIGHT LANE CLOSED AHEAD	1 - 4" x 6"	1
		W4-2R	48" x 48"	MERGE LEFT	1 - 4" x 6"	1
		R3-7 (R+)	48" x 48"	RIGHT LANE MUST TURN RIGHT	1 - 4" x 6"	2
		G20-2	48" x 48"	END ROAD WORK	1 - 4" x 6"	3
		W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	1
TH-3	3	C20(CA)R	48" x 48"	RIGHT LANE CLOSED AHEAD	1 - 4" x 6"	1
		W4-2R	48" x 48"	MERGE LEFT	1 - 4" x 6"	1
		R3-7 (R+)	48" x 48"	RIGHT LANE MUST TURN RIGHT	1 - 4" x 6"	2
		G20-2	48" x 48"	END ROAD WORK	1 - 4" x 6"	3
		W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	2
TH-4	4	C20(CA)R	48" x 48"	RIGHT LANE CLOSED AHEAD	1 - 4" x 6"	1
		W4-2R	48" x 48"	MERGE LEFT	1 - 4" x 6"	1
		R3-7 (R+)	48" x 48"	RIGHT LANE MUST TURN RIGHT	1 - 4" x 6"	2
		G20-2	48" x 48"	END ROAD WORK	1 - 4" x 6"	2
		W21-5b	48" x 48"	RIGHT SHOULDER CLOSED	1 - 4" x 6"	1
		C30A (CA)	48" x 48"	SHOULDER CLOSED	1 - 4" x 6"	1
		<b>TOTAL</b>				

(N) - NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.  
NOTE: SEE CS & MI SHEETS FOR ADDITIONAL CONSTRUCTION AREA SIGNS

### TEMPORARY TRAFFIC HANDLING ITEMS QUANTITIES

SHEET NO.	LOCATION	SIDE	STATION LIMITS	TEMPORARY BARRIER SYSTEM	TEMPORARY TRAFFIC SCREEN	ALTERNATIVE TEMPORARY CRASH CUSHION	CHANNELIZER (SURFACE MOUNTED)
				LF	EA		
TH-1	1	R+	"D" 8+14 TO 12+52	440	440	1	-
		L+	"D" 9+42 TO 12+42	300	300	1	-
TH-2	3	L+	"U" 12+39 TO 13+98	160	160	1	44
TH-3	3	R+	"U" 12+19 TO 13+80	160	160	1	48
TH-4	4	R+	"A2" 625+08 TO 626+95	180	180	1	9
		L+	"A2" 625+32 TO 626+11	80	80	1	67
<b>TOTAL</b>				1320	1320	6	168

### FLASHING ARROW SIGN

SHEET NO.	LOCATION	EA
TH-1	1	2
TH-2	3	1
TH-3	3	1
TH-4	4	1
<b>TOTAL</b>		5

### TRAFFIC HANDLING QUANTITIES

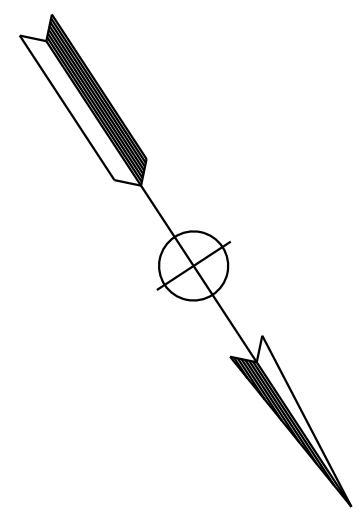
**THQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**LEGEND:**

HVCW HIGH VISIBILITY CROSSWALK (LADDER)  
 HVCW/G HIGH VISIBILITY CROSSWALK (LADDER) WITH GREEN THERMOPLASTIC PAVEMENT MARKING

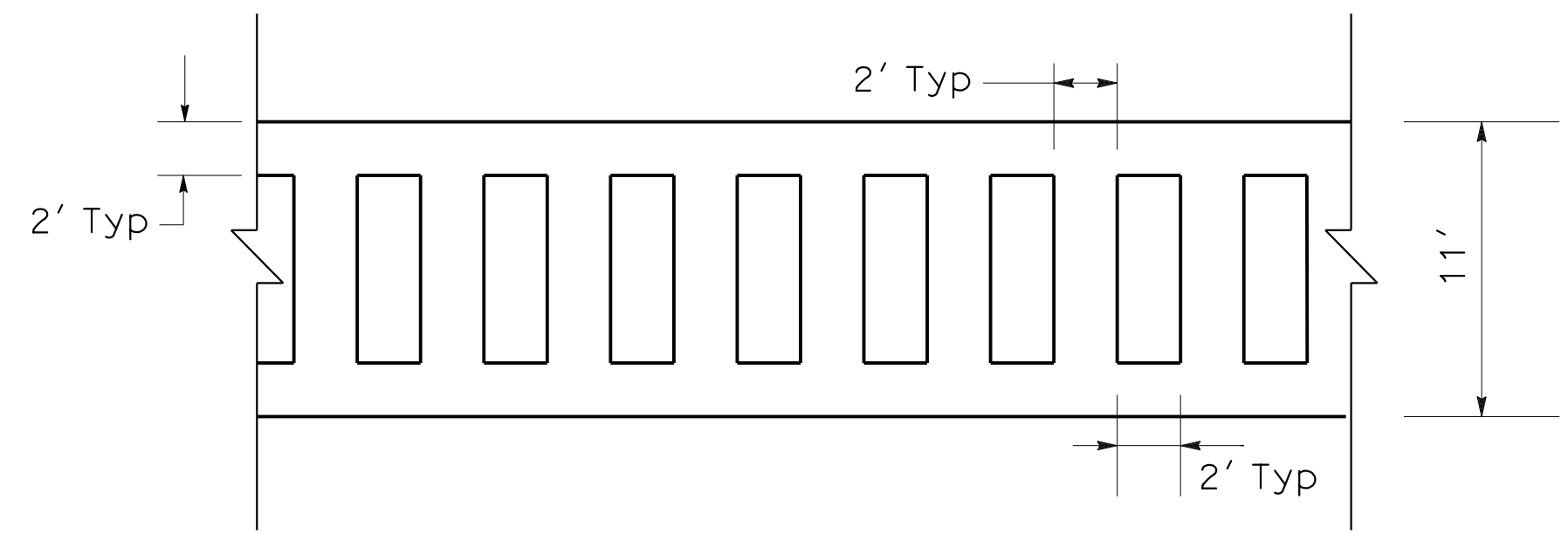
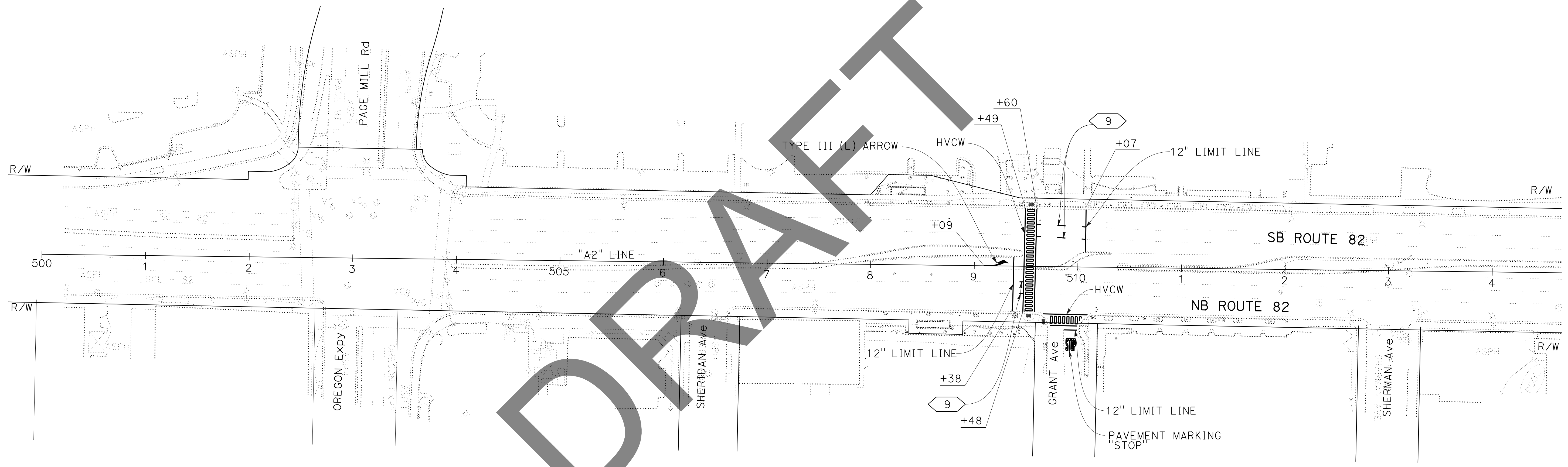


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

No. \_\_\_\_\_  
 Exp. \_\_\_\_\_  
 CIVIL  
 STATE OF CALIFORNIA

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**HIGH VISIBILITY CROSSWALK (LADDER)**  
 NO SCLAE

**PAVEMENT DELINEATION**  
**LOCATION 2**  
 SCALE: 1" = 50'

**PD-1**

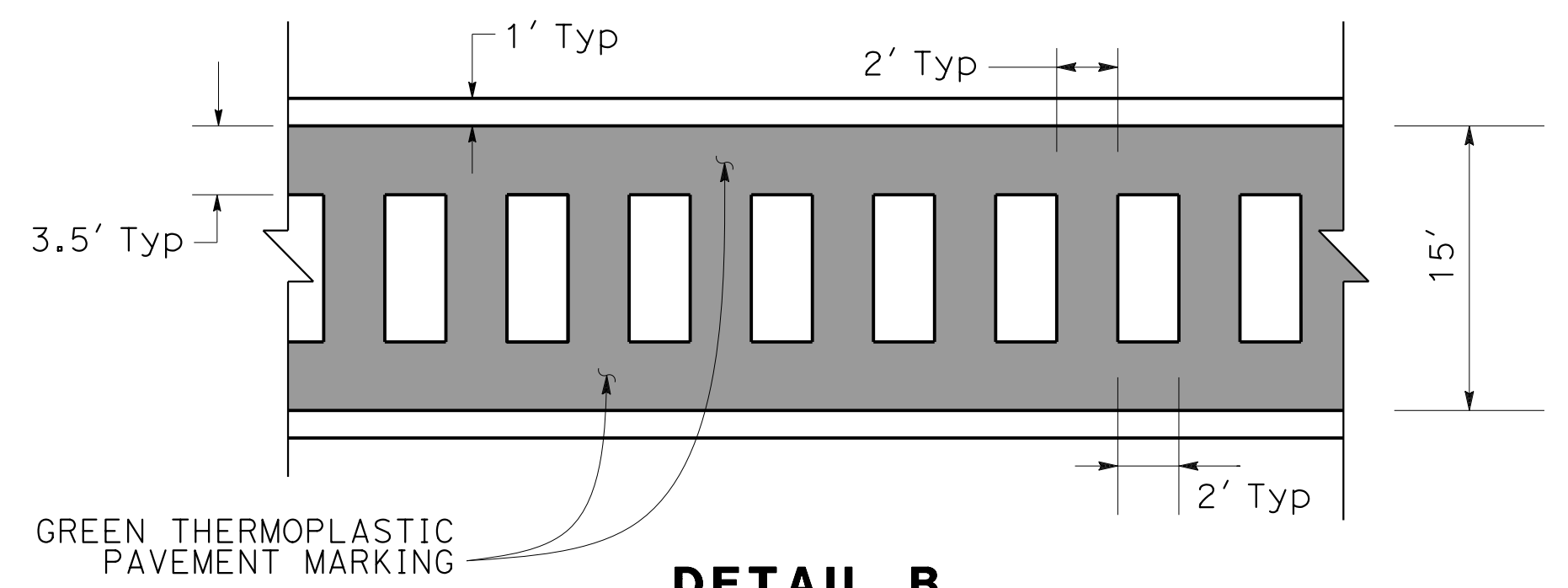


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: MUSTAOUR RAHMAN  
 CHECKED BY: MUSTAOUR RAHMAN  
 CALCULATED/DESIGNED BY: KKENNY YAP  
 REVISOR: MUSTAOUR RAHMAN  
 DATE REVISOR: KKENNY YAP

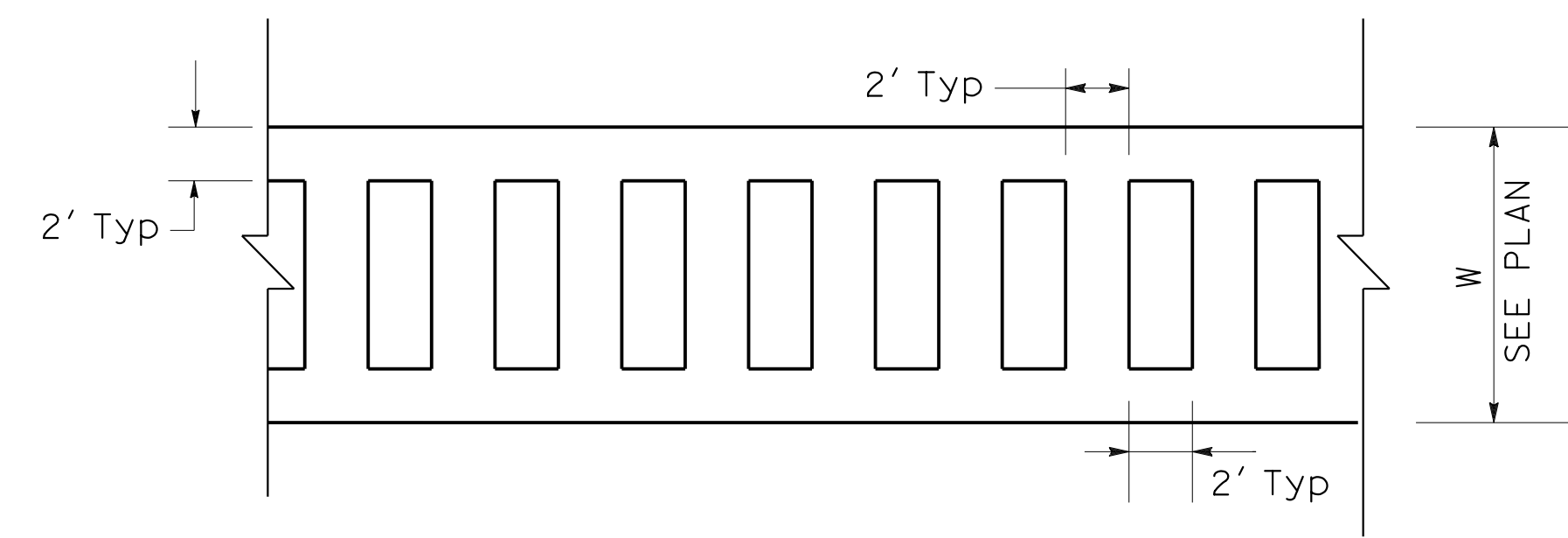
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

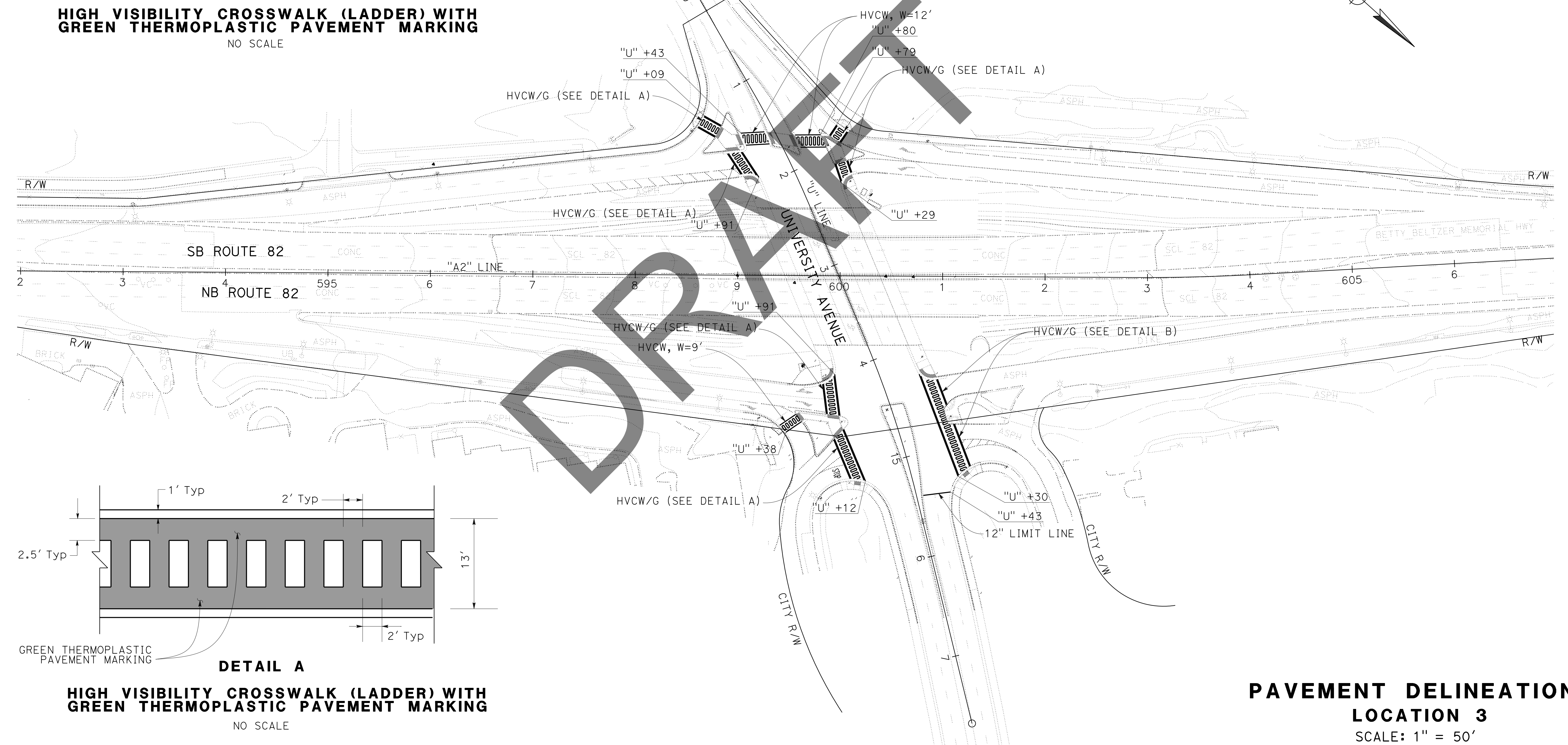
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**DETAIL B**  
**HIGH VISIBILITY CROSSWALK (LADDER) WITH GREEN THERMOPLASTIC PAVEMENT MARKING**  
 NO SCALE



**HIGH VISIBILITY CROSSWALK (LADDER)**  
 NO SCALE



**PAVEMENT DELINEATION**  
**LOCATION 3**  
 SCALE: 1" = 50'

FOR NOTE, ABBREVIATION AND LEGENT, SEE SHEET L-1

NOTE:  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

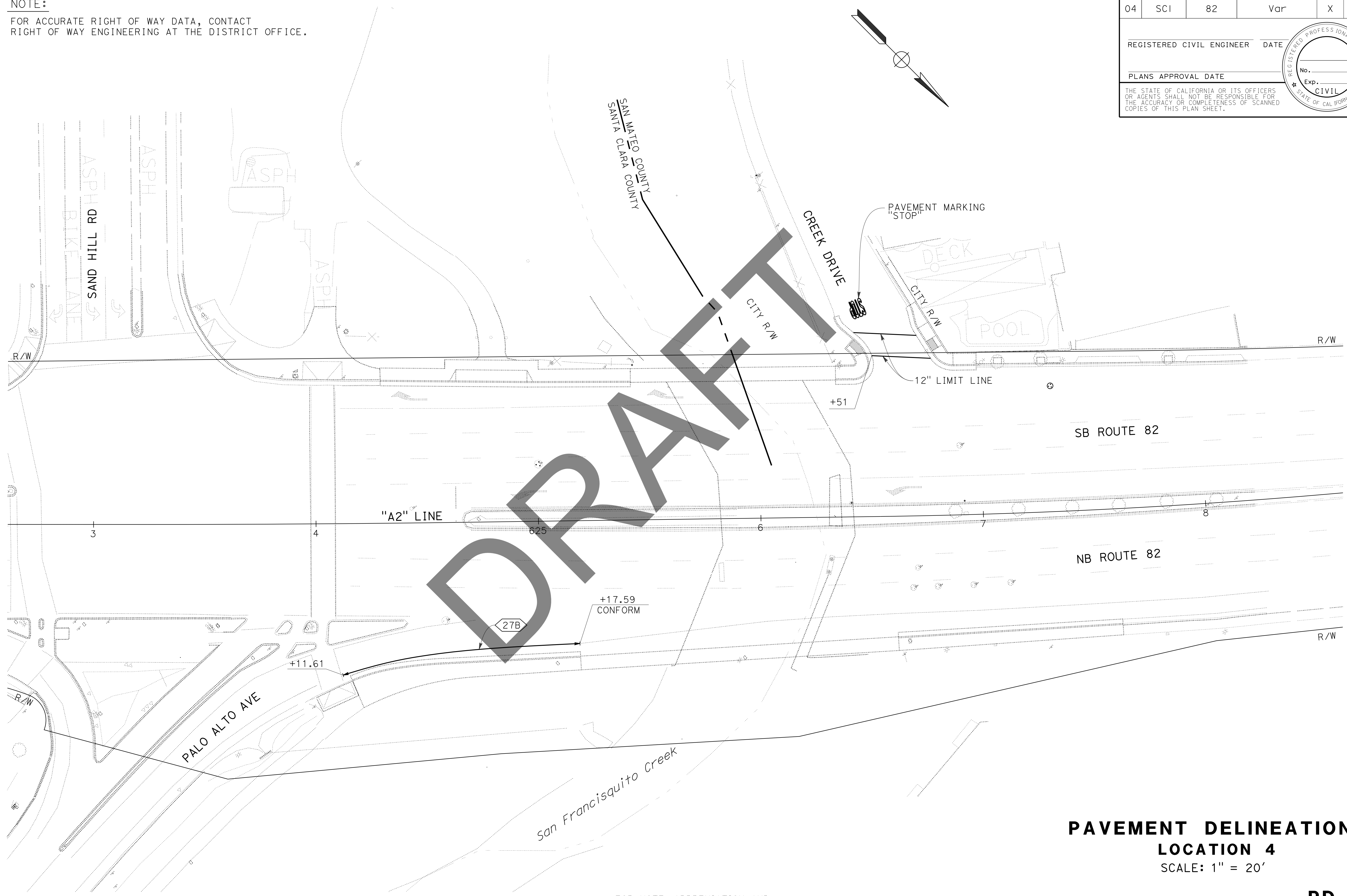
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

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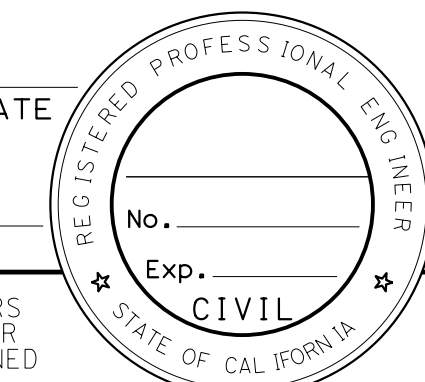
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b>	MUSTAOUR RAHMAN	CHECKED BY	MUSTAOUR RAHMAN
			DATE REVISED



**PAVEMENT DELINEATION  
LOCATION 4**  
SCALE: 1" = 20'

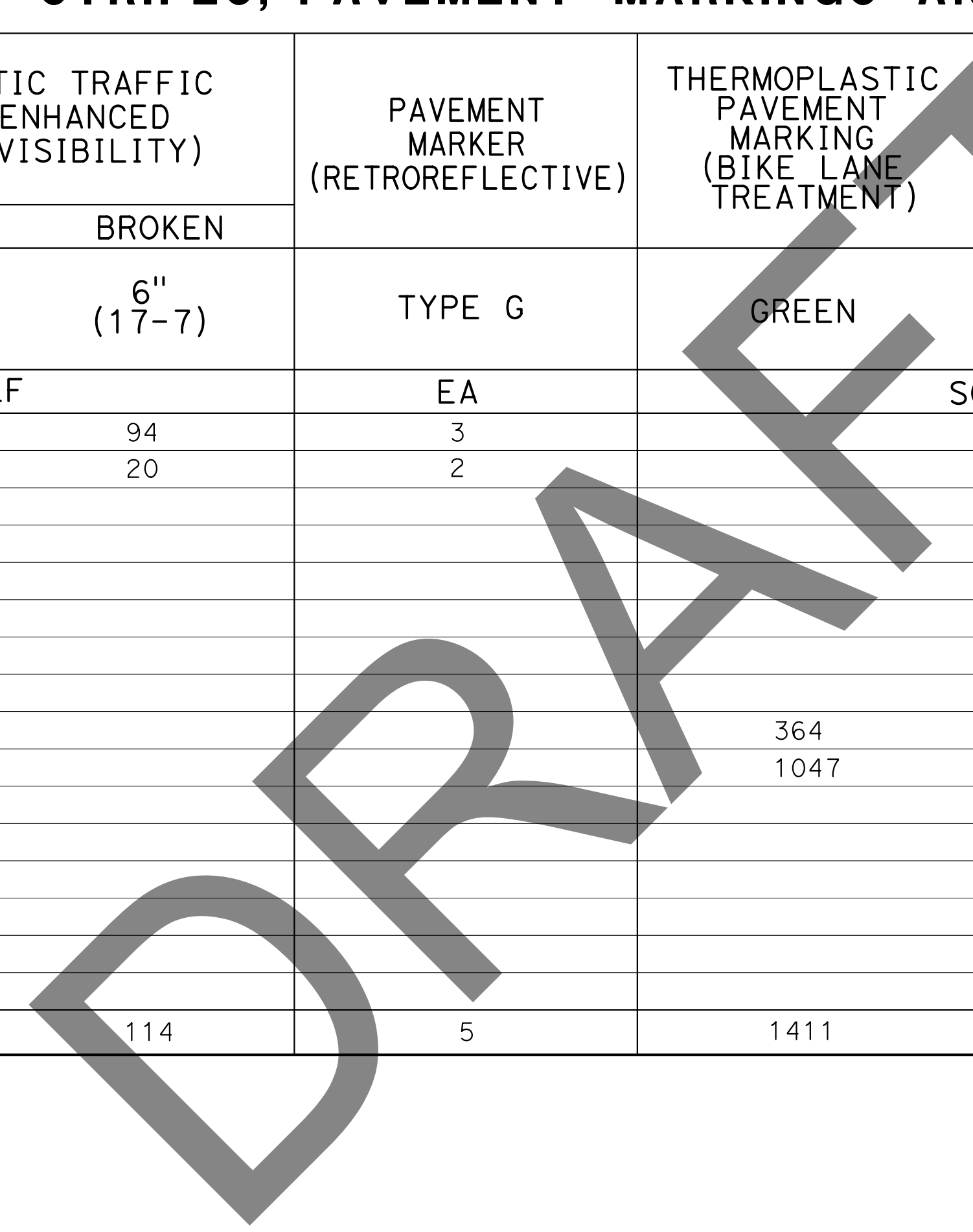
**PD-3**


FOR NOTE, ABBREVIATION AND  
LEGENT, SEE SHEET PD-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X
REGISTERED CIVIL ENGINEER DATE _____					
PLANS APPROVAL DATE _____					
					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS**

SHEET No.	STATION LIMIT	LOCATION	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)		PAVEMENT MARKER (RETROREFLECTIVE)	THERMOPLASTIC PAVEMENT MARKING (BIKE LANE TREATMENT)	THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE YELLOW THERMOPLASTIC PAVEMENT MARKING (HAZARDOUS WASTE)	REMOVE PAVEMENT MARKER	DESCRIPTION /COMMENTS	
				SOLID	BROKEN										
				6" WHITE	6" (17-7)										
				LF	EA	SQFT		LF	SQFT	EA					
PD-1	"A2" 509+60 TO 510+07	L+	9		94	3			116				3		
	"A2" 509+38 TO 509+48	R+	9		20	2		42					2		
	"A2" 509+38	R+												12" LIMIT LINE	
	"A2" 510+00	R+									13			12" LIMIT LINE	
	"A2" 510+07	L+												12" LIMIT LINE	
	"A2" 509+09	L+									42			TYPE III (L) ARROW	
	"A2" 509+49 TO 510+10	L+/R+												CROSSWALK	
PD-2	"A2" 510+00	R+									22			STOP	
	"U" 11+09 TO 12+29	L+/R+					364	1525			1271			CROSSWALK	
	"U" 13+91 TO 15+30	L+/R+					1047	2620			2366			CROSSWALK	
	"U" 11+78 TO 12+35	L+/R+							4			8			
	"U" 14+20 TO 15+00	L+/R+							50	16	24				
PD-3	"U" 15+43	R+												12" LIMIT LINE	
	"A2" 626+41 TO 626+78	L+									18			12" LIMIT LINE	
	"A2" 626+47	L+									22			STOP	
	"A2" 624+11 TO 625+17	R+	27B	108					108						
<b>TOTAL</b>					108	114	5	1411	5883	320	16	3778	8	5	



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
  
 kKENNY YAP  
 MUSTAQUR RAHMAN  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 FUNCTIONAL SUPERVISOR  
 MUSTAQUR RAHMAN  
 REVISOR BY  
 DATE REVISOR

**PAVEMENT DELINEATION QUANTITIES**  
**PDQ-1**

LAST REVISION DATE PLOTTED => 22-FEB-2023 10-21-21 TIME PLOTTED => 09:45

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: KENNETH XU  
 CALCULATED/DESIGNED BY: SHREYA SHAH  
 CHECKED BY: RAJESH OBEROI  
 REVISED BY: DATE REVISED

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

- LEGEND:**
- (No.) ROADSIDE SIGN NUMBER
  - INSTALL SIGN ON EXISTING STRUCTURE
  - REMOVE SIGN PANEL
  - ▲ REMOVE ROADSIDE SIGN (STRAP AND SADDLE BRACKET METHOD)
  - △ INSTALL ROADSIDE SIGN (STRAP AND SADDLE BRACKET METHOD)
  - REMOVE ROADSIDE SIGN
  - ▽ RESET ROADSIDE SIGN
  - \* EXISTING SIGN TO REMAIN
  - ◆ REMOVE BRIDGE MOUNTED SIGN
  - MA MAST ARM MOUNTED SIGN
  - E ELECTRICAL ITEM

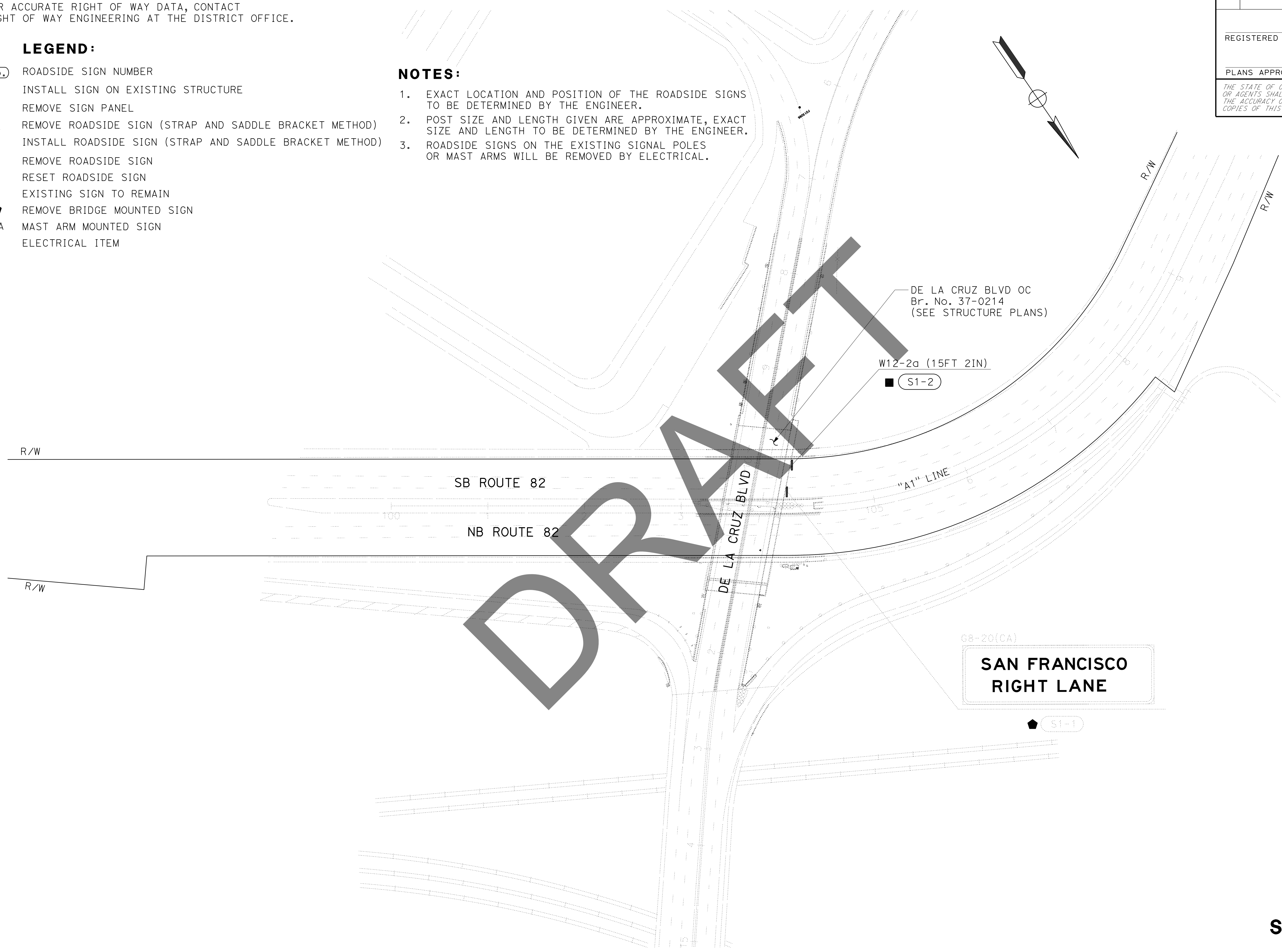
- NOTES:**
1. EXACT LOCATION AND POSITION OF THE ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
  2. POST SIZE AND LENGTH GIVEN ARE APPROXIMATE, EXACT SIZE AND LENGTH TO BE DETERMINED BY THE ENGINEER.
  3. ROADSIDE SIGNS ON THE EXISTING SIGNAL POLES OR MAST ARMS WILL BE REMOVED BY ELECTRICAL.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

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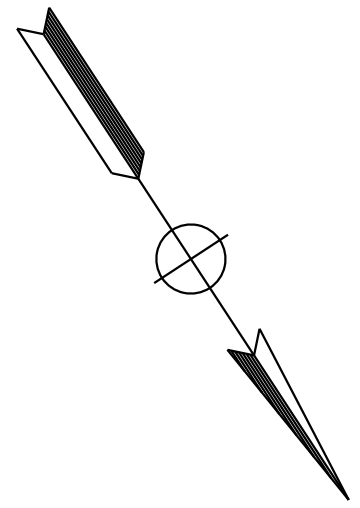


**SIGN PLAN**  
 NO SCALE

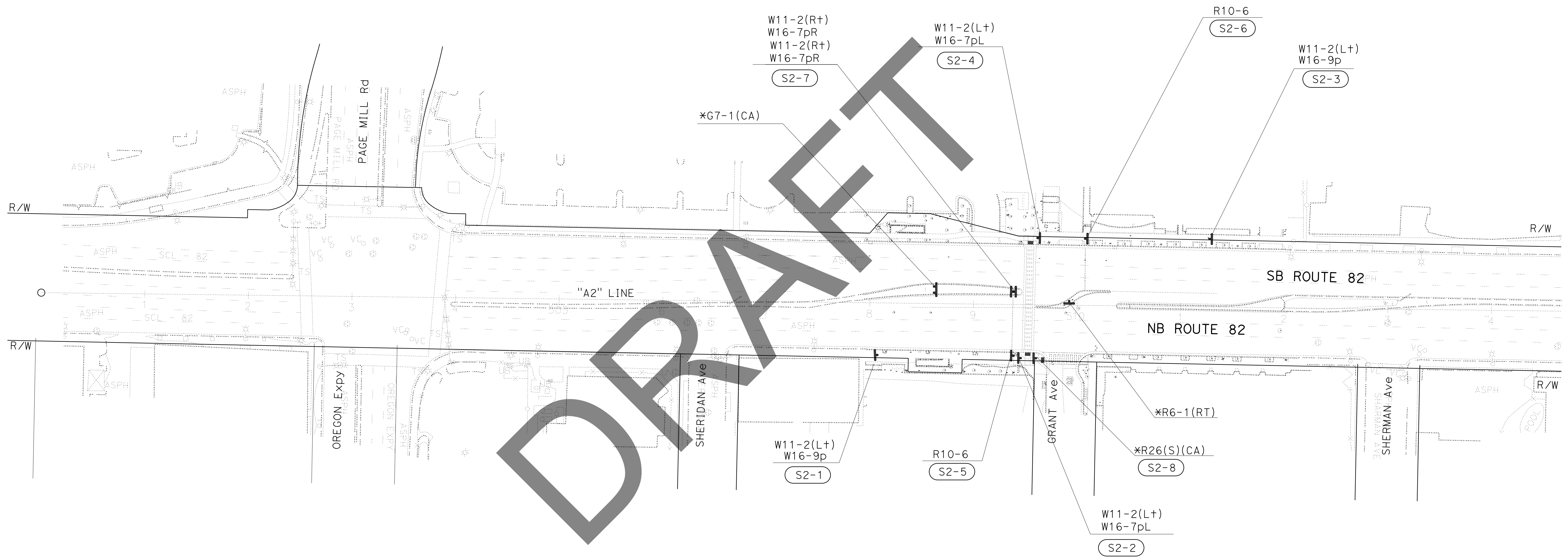
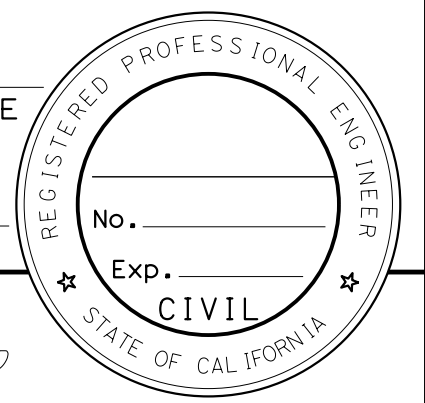
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: KENNETH XU  
 CALCULATED/DESIGNED BY: SHREYA SHAH  
 CHECKED BY: RAJESH OBEROI  
 REVISED BY: [ ]  
 DATE REVISED: [ ]

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



FOR NOTE, ABBREVIATION AND  
 LEGENT, SEE SHEET S-1

**SIGN PLAN**  
 NO SCALE

**S-2**

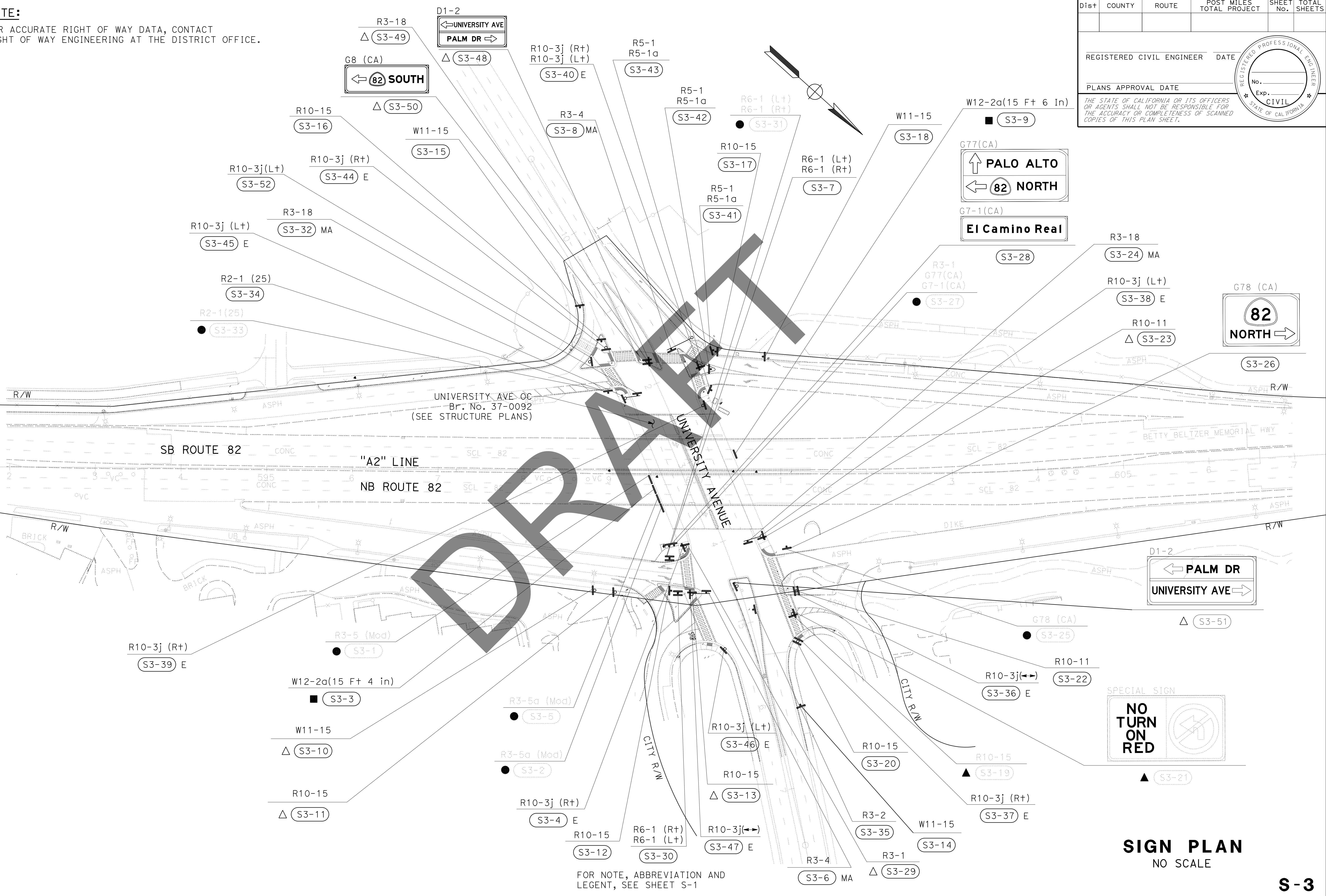
LAST REVISION: 00-00-00      DATE PLOTTED => 23-FEB-2023      TIME PLOTTED => 17:15

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b>	KENNETH XU	CHECKED BY	SHREYA SHAH
			RAJESH OBEROI
			DATE REVISED

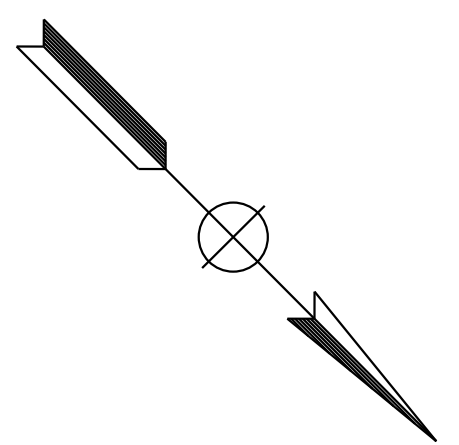


FOR NOTE, ABBREVIATION AND LEGENT, SEE SHEET S-1

**SIGN PLAN**  
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: KENNETH XU  
 CALCULATED/DESIGNED BY: SHREYA SHAH  
 CHECKED BY: RAJESH OBEROI  
 REVISED BY: SHREYA SHAH  
 DATE REVISED: RAJESH OBEROI

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



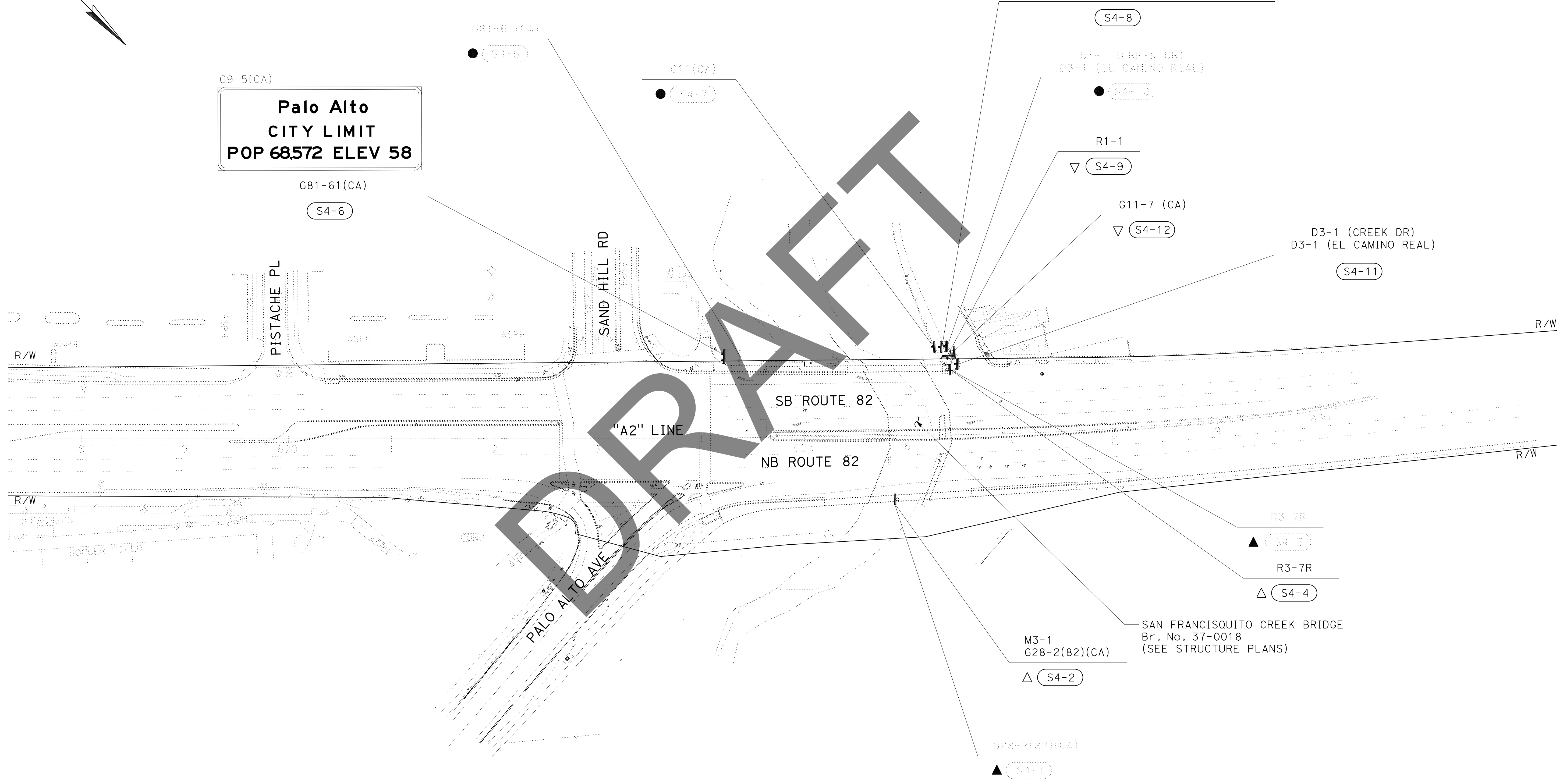
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

G11(CA)  
**SAN FRANCISQUITO CREEK BRIDGE 37-18**

G9-5(CA)  
**Palo Alto CITY LIMIT POP 68,572 ELEV 58**



FOR NOTE, ABBREVIATION AND LEGENT, SEE SHEET S-1

**SIGN PLAN**  
 NO SCALE

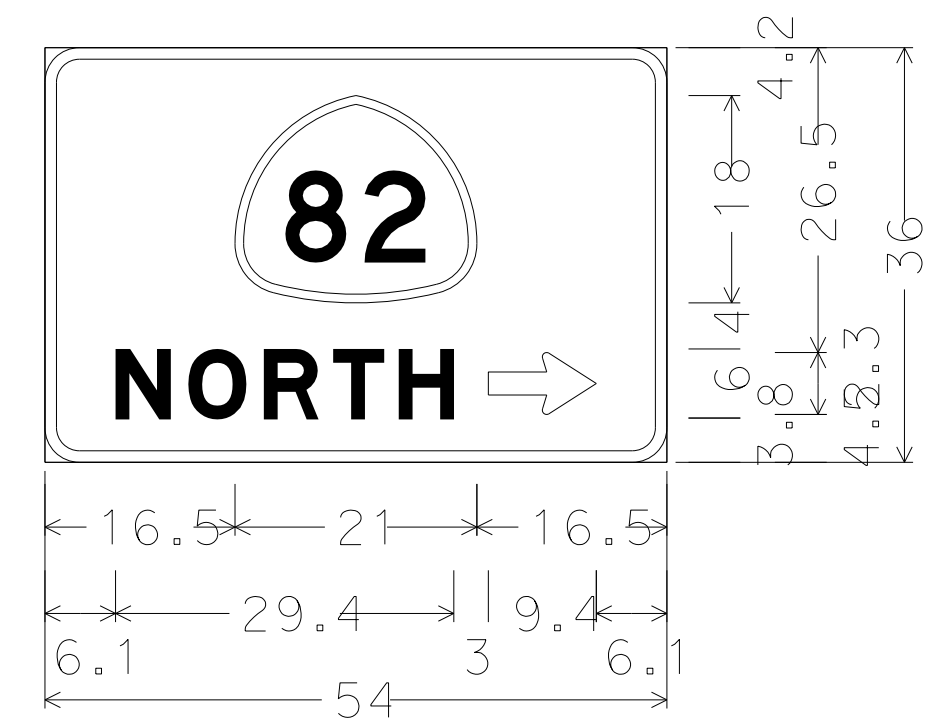
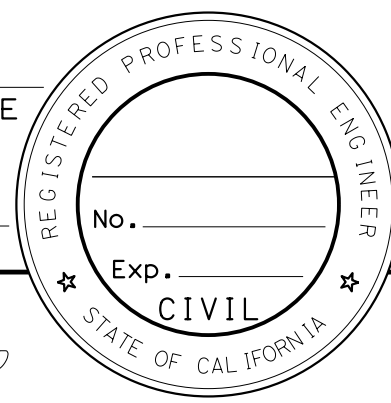
**S-4**

LAST REVISION | DATE PLOTTED => 23-FEB-2023  
 00-00-00 | TIME PLOTTED => 17:16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: KENNETH XU  
 CALCULATED/DESIGNED BY: SHREYA SHAH  
 CHECKED BY: RAJESH OBEROI  
 REVISED BY: DATE REVISION

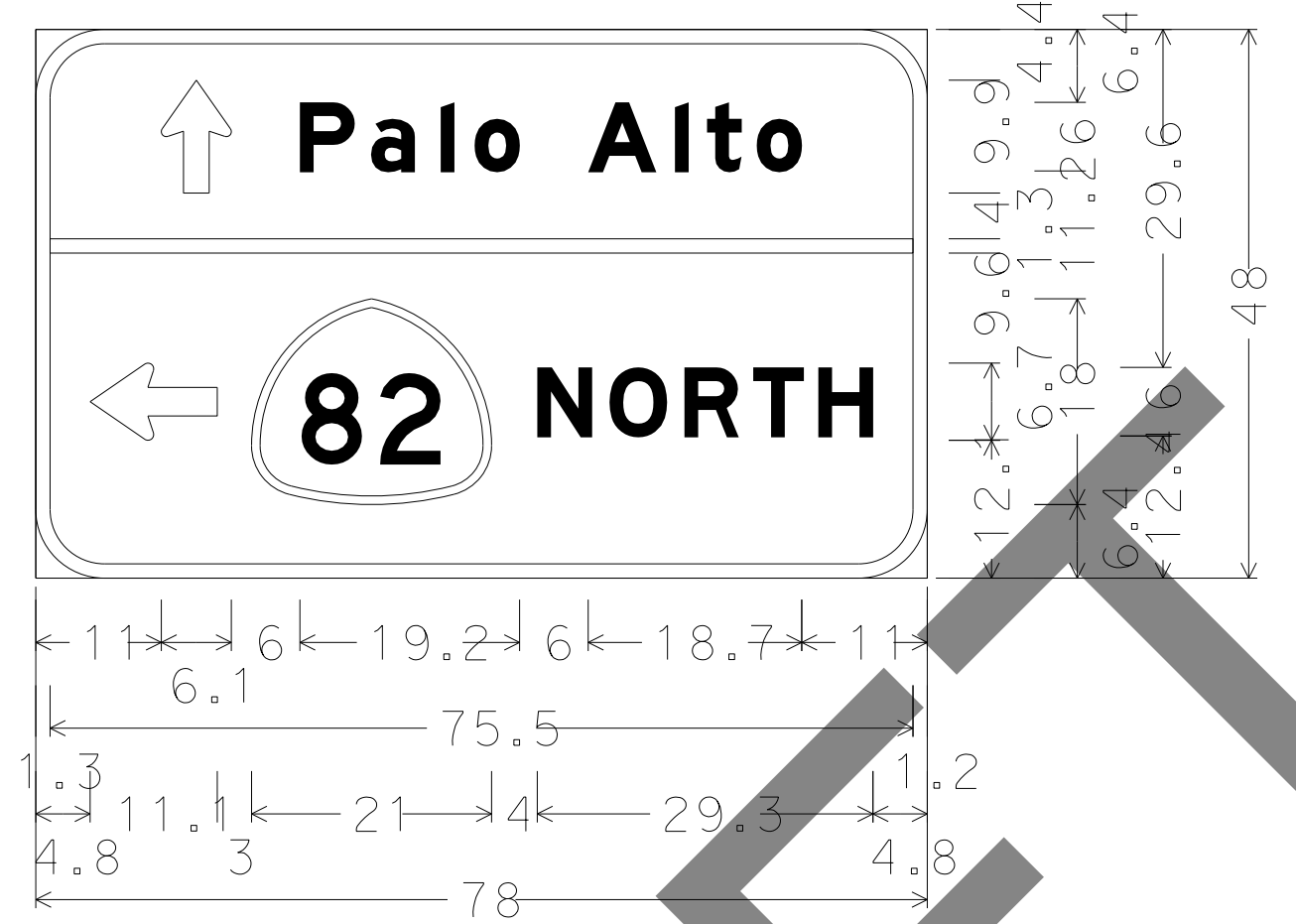
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER				DATE	
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



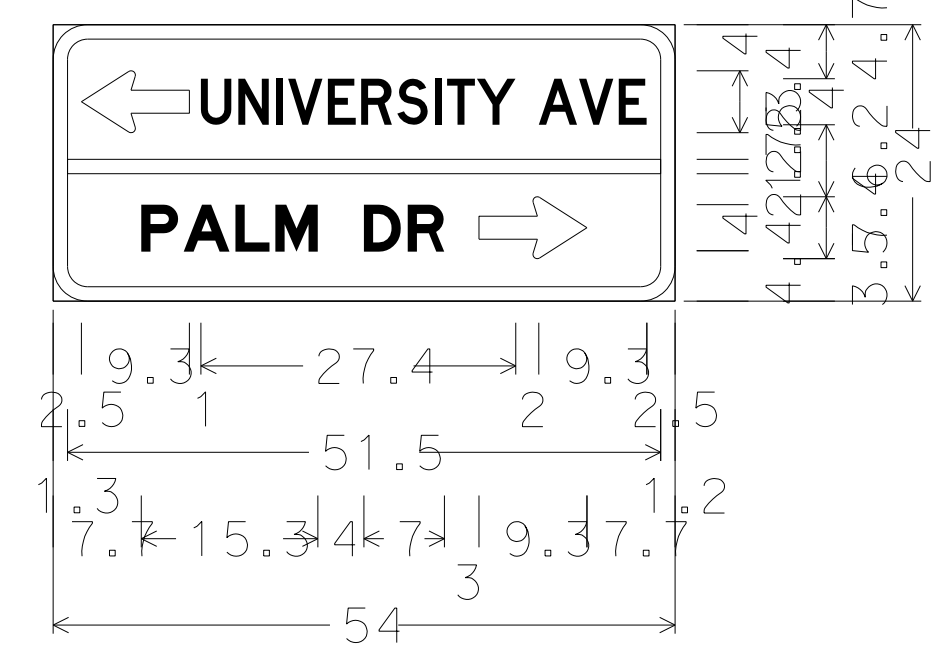
G78(CA);  
 3.0" Radius, 1.0" Border, White on, Green;  
 "NORTH", E Mod;  
 Standard Arrow Custom 9.4" X 5.4" 0';

**S3-26**



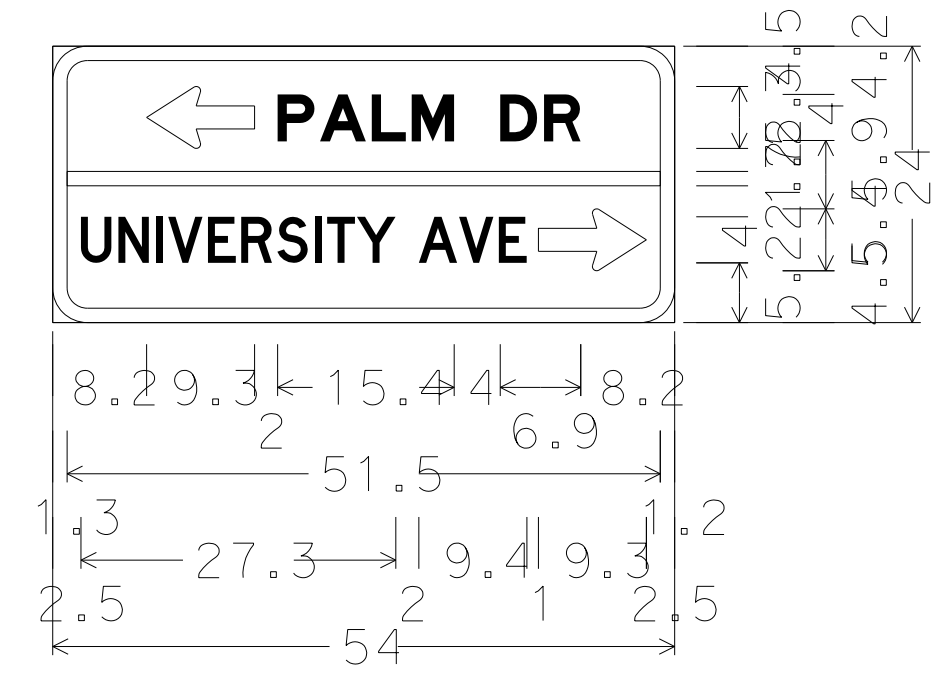
G77(CA);  
 6.0" Radius, 1.3" Border, White on, Green;  
 Standard Arrow Custom 9.9" X 6.1" 90';  
 "Palo Alto", E Mod;  
 Standard Arrow Custom 11.1" X 6.8" 180';  
 "NORTH", E Mod;

**S3-28**



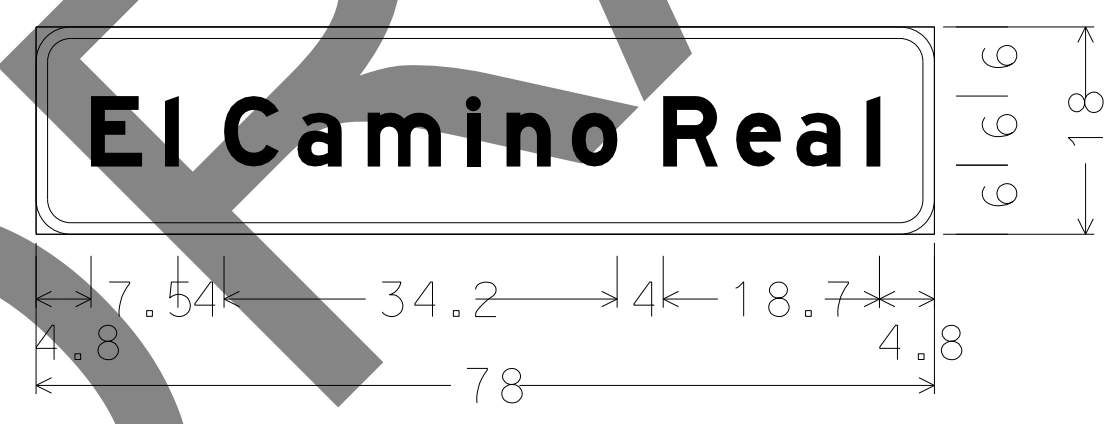
D1-2;  
 3.0" Radius, 1.3" Border, White on, Green;  
 Standard Arrow Custom 9.4" X 5.4" 180';  
 "UNIVERSITY" D " " E Mod "AVE", D 60% spacing;  
 "PALM DR", E Mod 60% spacing;  
 Standard Arrow Custom 9.4" X 5.4" 0';

**S3-48**

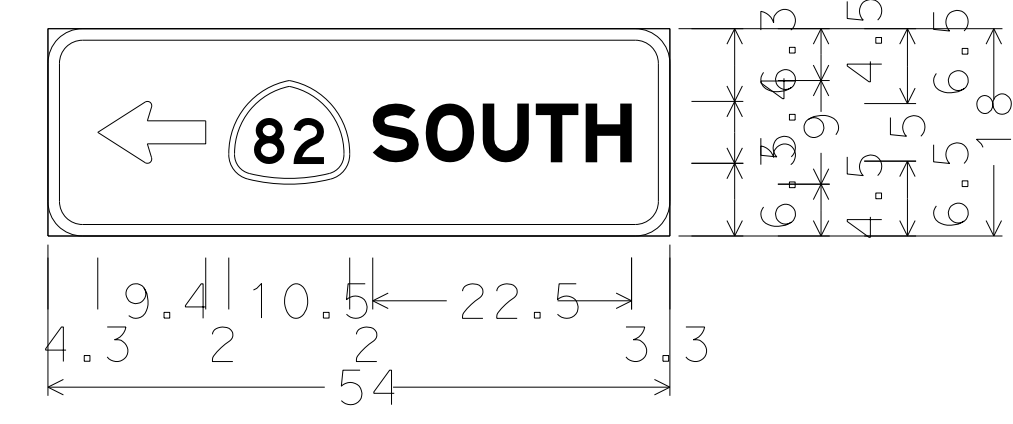


D1-2;  
 3.0" Radius, 1.3" Border, White on, Green;  
 Standard Arrow Custom 9.4" X 5.4" 180';  
 "PALM DR", E Mod 60% spacing;  
 "UNIVERSITY" D " " E Mod "AVE", D 60% spacing;  
 Standard Arrow Custom 9.4" X 5.4" 0';

**S3-51**



G7-1(CA);  
 3.0" Radius, 1.0" Border, White on, Green;  
 "El Camino Real", E Mod;



G8(CA);  
 3.0" Radius, 1.0" Border, White on, Green;  
 Standard Arrow Custom 9.4" X 5.4" 180';  
 "SOUTH", E Mod 60% spacing;

**S3-50**

**SIGN DETAILS**  
 NO SCALE

**SD-1**

LAST REVISION DATE PLOTTED => 23-FEB-2023 00-00-00 TIME PLOTTED => 17:17



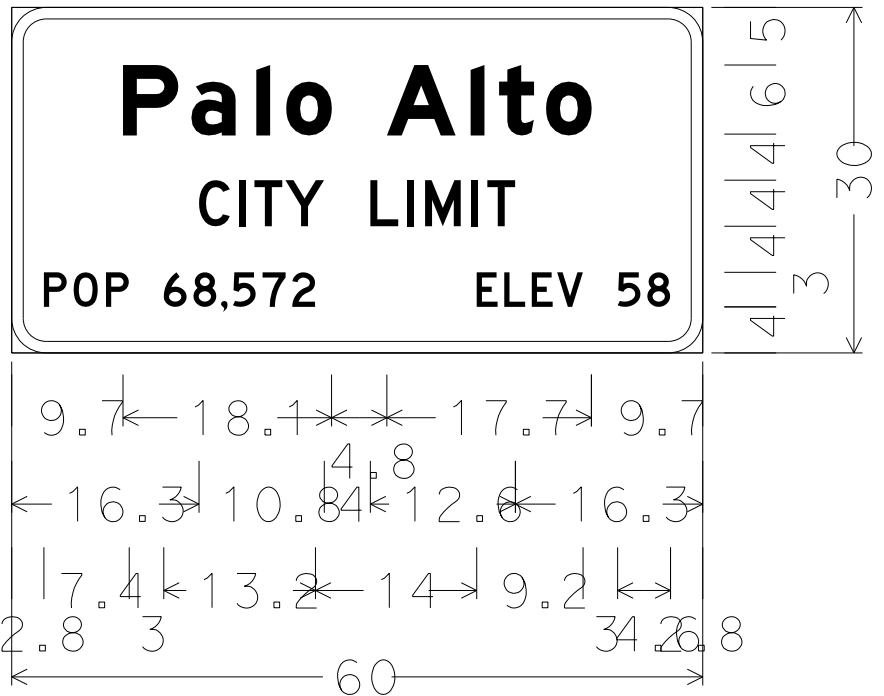
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: KENNETH XU  
 CALCULATED/DESIGNED BY: SHREYA SHAH  
 CHECKED BY: RAJESH OBEROI  
 REVISED BY: DATE REVISION

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

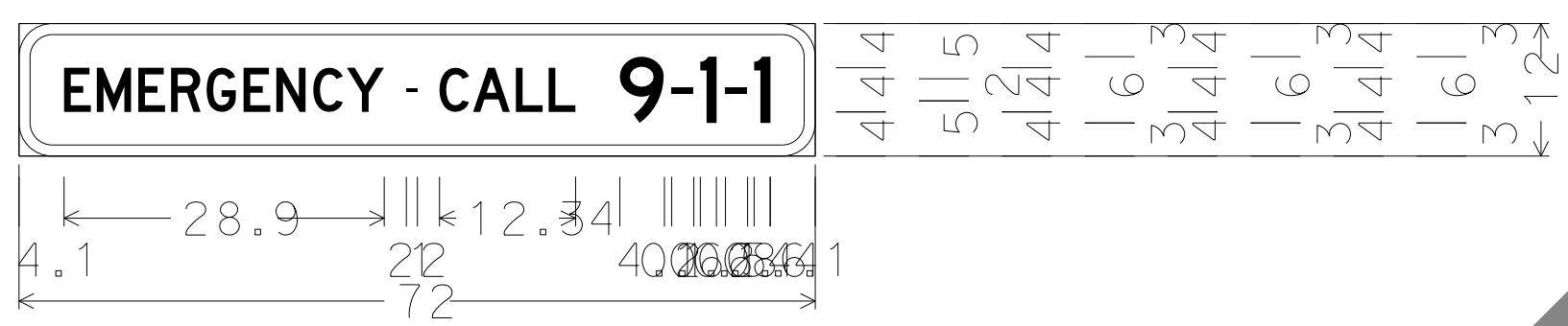
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

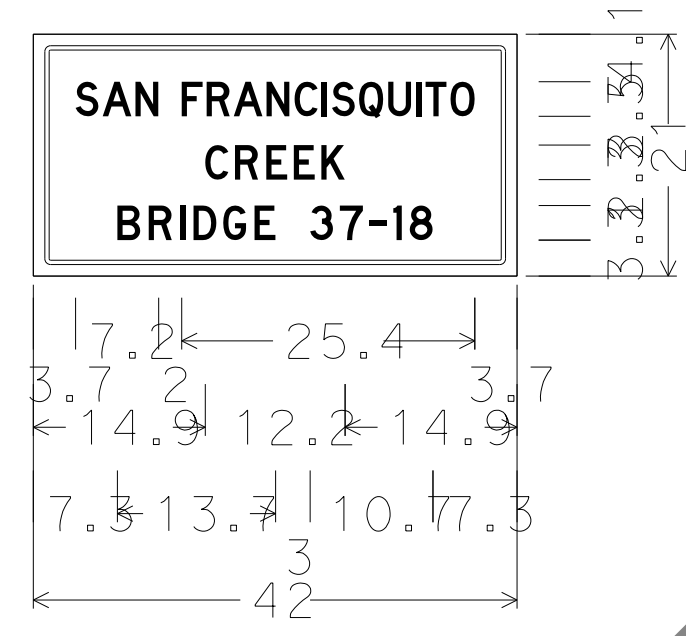


G9-5(CA);  
 3.0" Radius, 1.0" Border, White on, Green;  
 "Palo Alto", E Mod 80% spacing;  
 "CITY LIMIT", D;  
 "POP 68,572", D;  
 "ELEV 58", D;



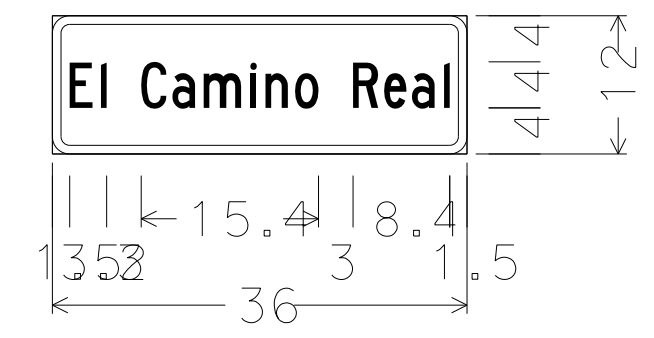
G81-61(CA);  
 3.0" Radius, 1.0" Border, White on, Blue;  
 "EMERGENCY - CALL 9" D "-" C "1" D "-" C "1", D 70% spacing;

**S4-6**

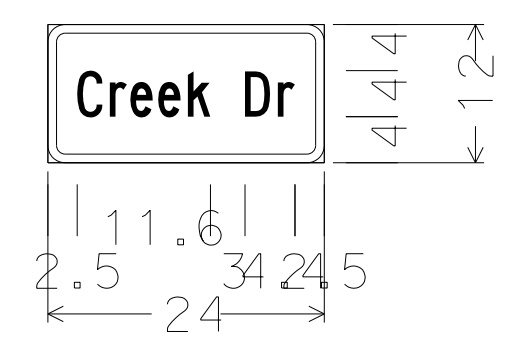


1.5" Radius, 0.4" Border, 1.0" Indent, Black on, White;  
 "SAN FRANCISQUITO", D 60% spacing;  
 "CREEK", D;  
 "BRIDGE 37-18", D;

**S4-8**



D3-1;  
 1.5" Radius, 0.8" Border, White on, Green;  
 "El Camino Real" Black, C 60% spacing;



D3-1;  
 1.5" Radius, 0.8" Border, White on, Green;  
 "Creek Dr" Black, C 60% spacing;

**S4-11**

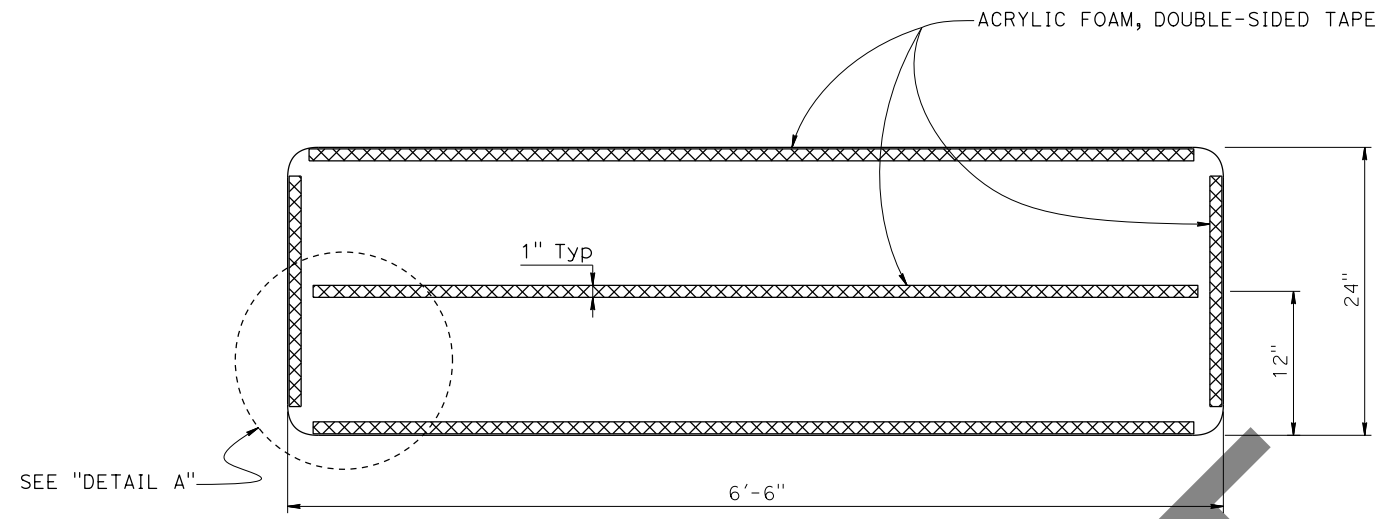
DRAFT

**SIGN DETAILS**  
 NO SCALE

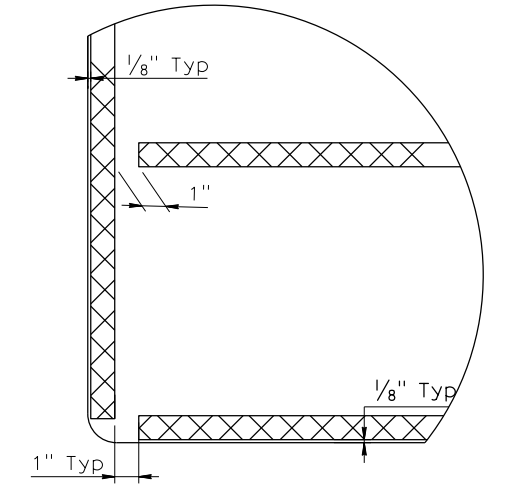
**SD-2**

LAST REVISION DATE PLOTTED => 23-FEB-2023 00-00-00 TIME PLOTTED => 17:17

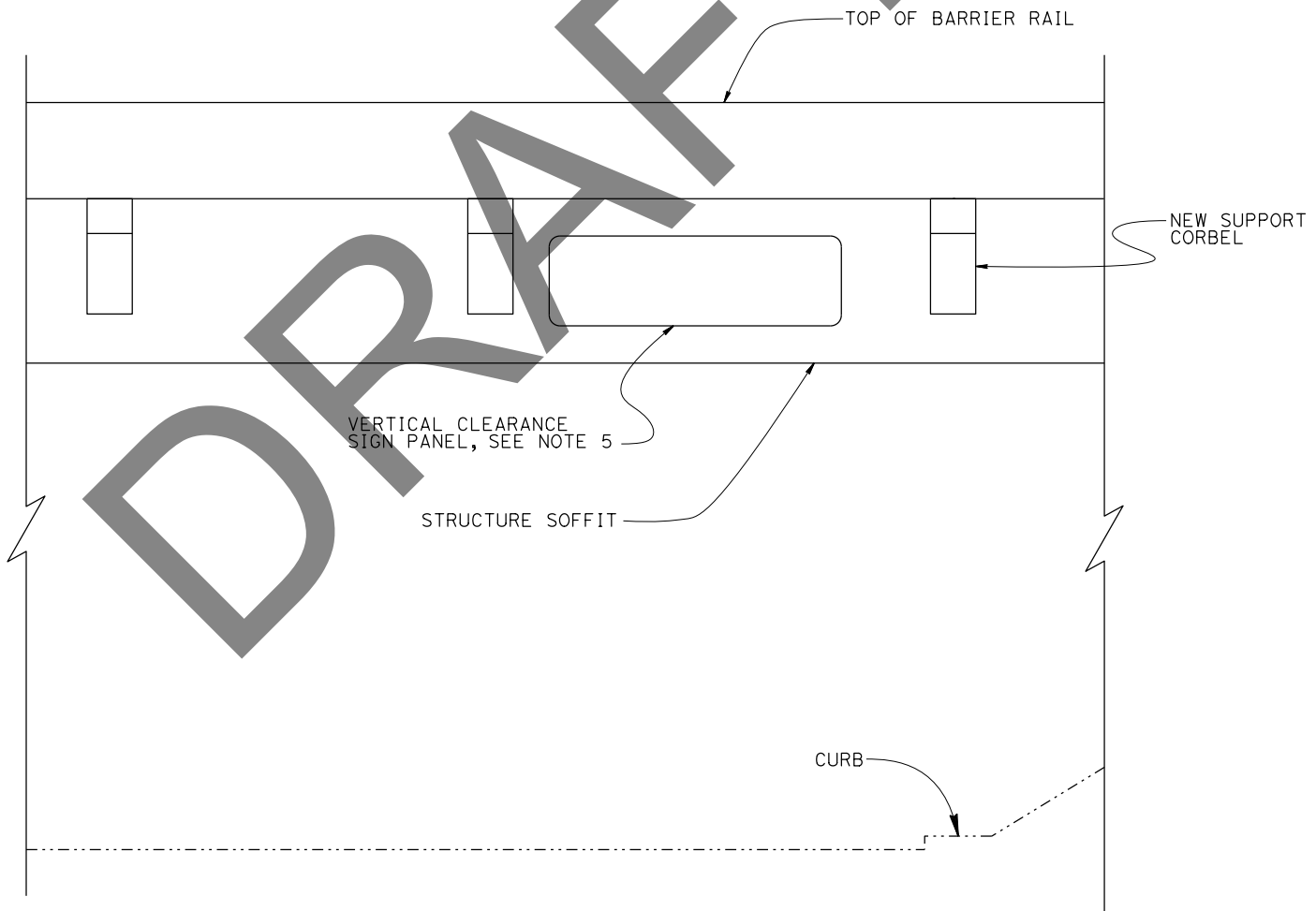
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



**ADHESIVE DETAIL - BACK OF SIGN PANEL**



**DETAIL A**  
3" = 1'-0"



**ELEVATION**

**NOTE:**

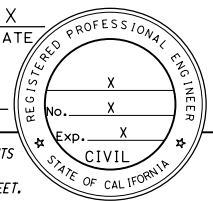
1. For vertical clearance, see "SIGN PLANS".
2. For W12-2a signs.
3. No Framing.
4. Existing sign anchors, if any, shall be cut flush by mechanical means. Damage to concrete surface resulting from cut shall be repaired at the Contractor's expense to the Engineer's satisfaction. Cut ends of anchors shall be coated with 2-coats of authorized organic zinc-rich primer.
5. Adjust location of sign to avoid new corbel.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

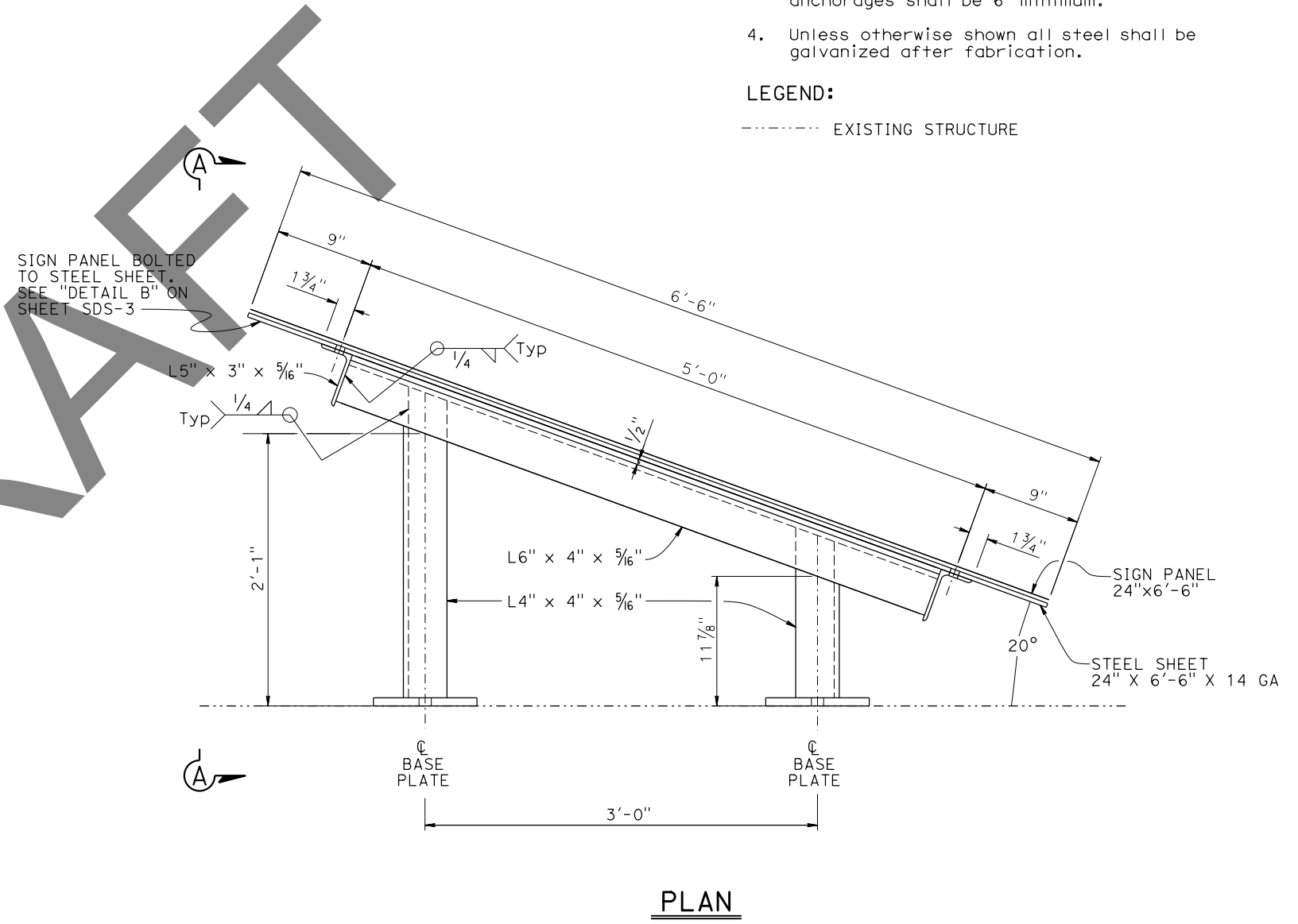
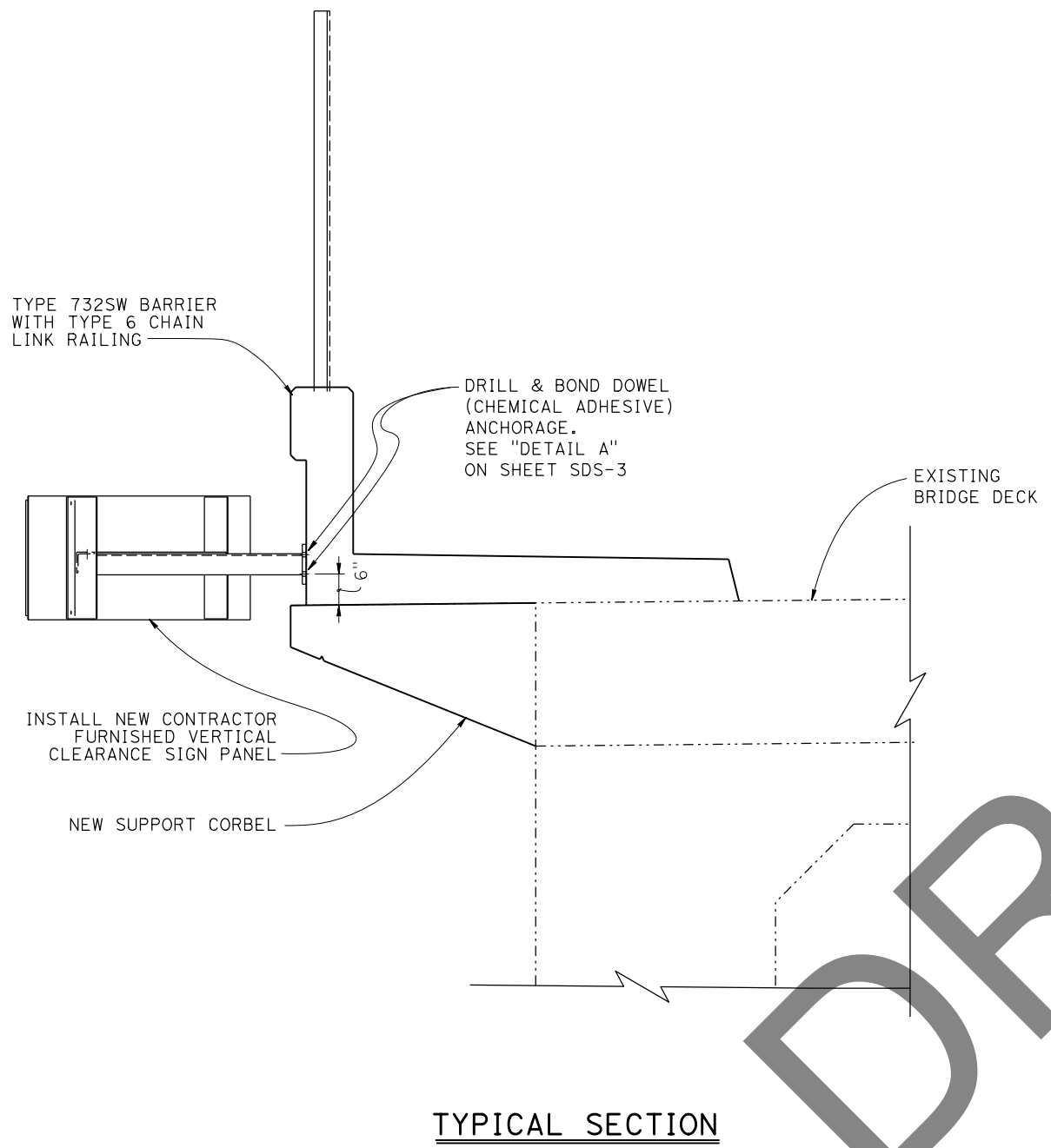
**DRAFT**

DESIGN BY K. CHAU DETAILS BY S. DORAISWAMY QUANTITIES BY K. CHAU	CHECKED G. VAZQUEZ CHECKED K. CHAU CHECKED G. VAZQUEZ	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES OFFICE OF DESIGN AND TECHNICAL SERVICES <b>SPECIAL DESIGNS BRANCH A</b>	BRIDGE No. 37-0214	<b>DE LA CRUZ BLVD OC (SIGN S1-3)</b> <b>VERTICAL CLEARANCE SIGN DETAILS</b>	<b>SDS-1</b>					
				POST MILE 11.38							
JUAN JAUREGUI BRANCH CHIEF		DATE PLOTTED => 15-FEB-2023 FILE => 0418000032oc001.dgn		TIME PLOTTED => 13:13 USERNAME => s156400	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3619 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL (082) CONTRACT No.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 3/28/22 02/15/23 11/20/22	SHEET 1	OF 3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					



THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



- NOTES:**
1. For sign details and location, see "SIGN PLANS".
  2. Drill and bond dowel (chemical adhesive) shall not interfere with existing railing anchorages.
  3. Spacing between new and existing concrete anchorages shall be 6" minimum.
  4. Unless otherwise shown all steel shall be galvanized after fabrication.
- LEGEND:**
- EXISTING STRUCTURE

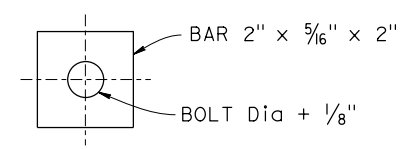
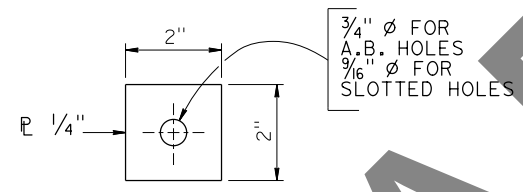
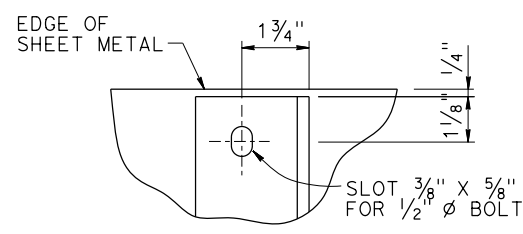
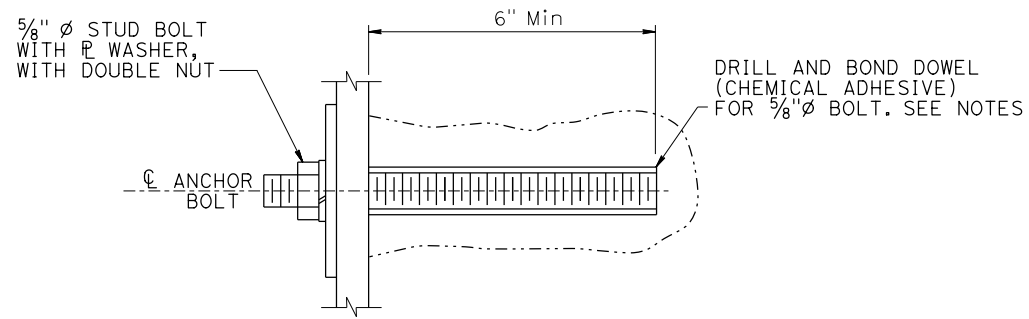
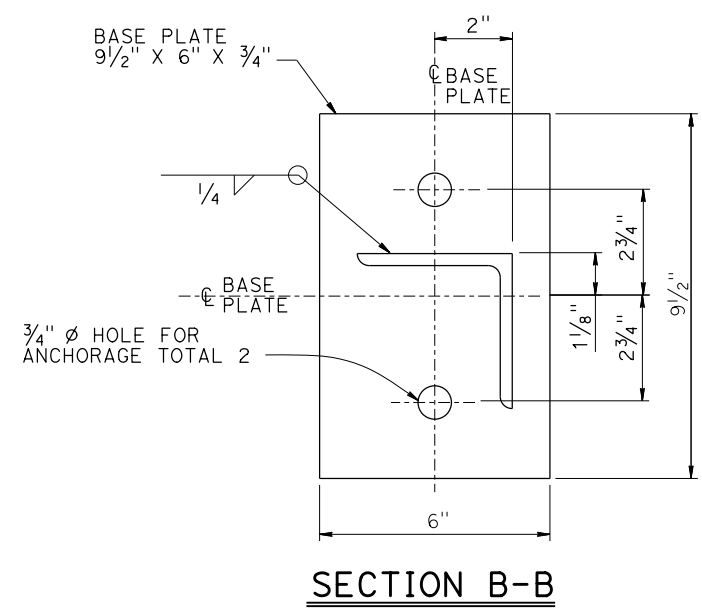
DRAFT

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DRAFT

JUAN JAUREGUI BRANCH CHIEF	DESIGN	BY K. CHAU	CHECKED G. VAZQUEZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES OFFICE OF DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH <b>A</b>	BRIDGE No.	UNIVERSITY AVENUE OC (SIGNS S3-4 & S3-9) VERTICAL CLEARANCE SIGNS-TYPICAL SECTIONS	SDS-2		
	DETAILS	BY S. DORAISWAMY	CHECKED K. CHAU			POST MILE			37-0092	
	QUANTITIES	BY K. CHAU	CHECKED G. VAZQUEZ			26.36				
SPECIAL DESIGN BRANCH A BORDER SHEET (ENGLISH) (REV. 3/10/2021)		DATE PLOTTED => 15-FEB-2023 FILE => 0418000032oc002.dgn		TIME PLOTTED => 13:13 USERNAME => s156400		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		
			UNIT: 3619 PROJECT NUMBER & PHASE: 04180000321		COUNTY/ROUTE: SCL (082) CONTRACT No.: 04-0P9804		DISREGARD PRINTS BEARING EARLIER REVISION DATES			
							REVISION DATES		SHEET OF	
							4/27/22	11/15/22	02/15/23	2 3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



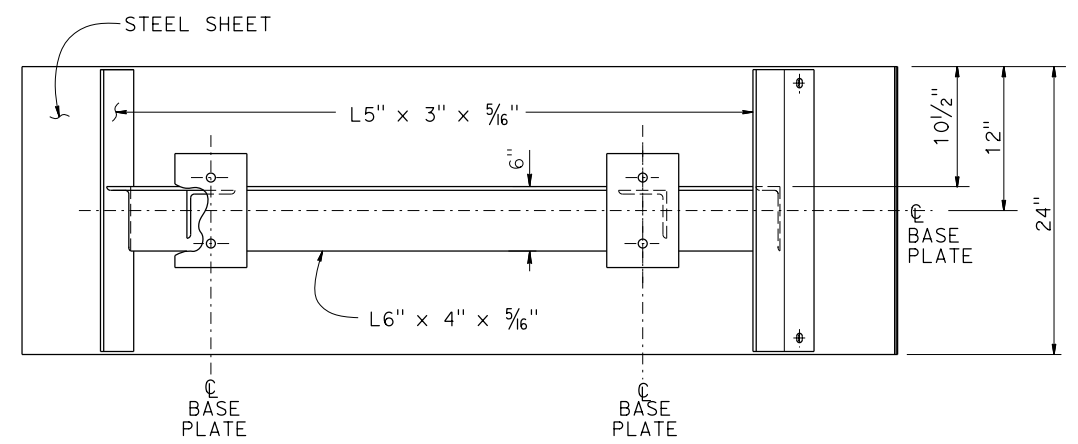
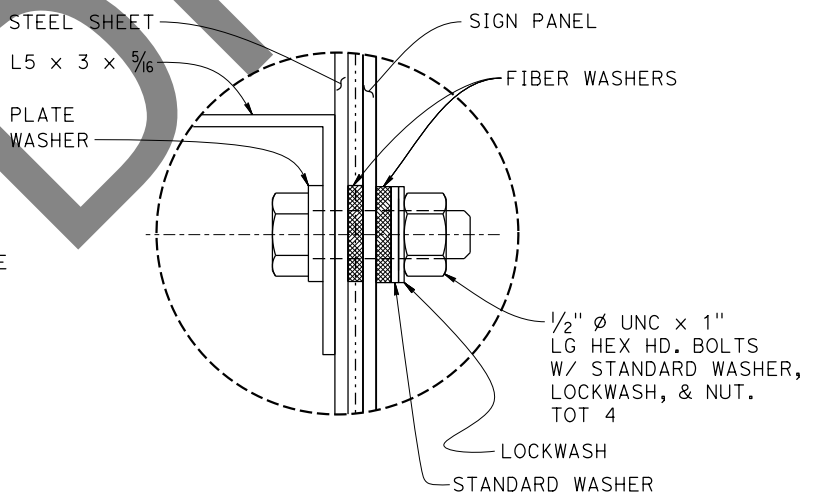
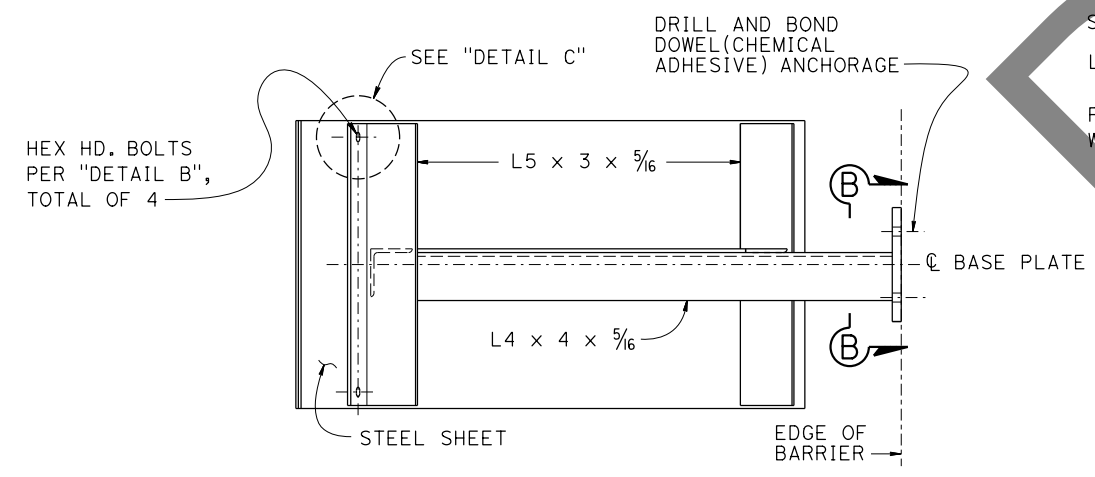
USE PLATE WASHER OVER ALL SLOTTED HOLES END ANCHOR BOLT HOLES.

**NOTES:**

1. Anchorage is subject to approval by the Engineer. Installation procedure must comply with manufacturer's instructions.
2. Where new drill and bond dowel (chemical adhesive) coincides with fence post or existing bridge mounted sign anchorage, adjust new mounting bracket to create a minimum distance of 12" measured from the centerline of the nearest drill and bond dowel (chemical adhesive) bolt anchorage to the centerline existing bridge mounted sign anchorage, or as approved by the Engineer.
3. Unless otherwise shown all steel must be galvanized after fabrication.
4. Drill and bond dowel (chemical adhesive) must be installed in sound concrete free of cracks or delamination.
5. Existing anchors must be cut 1" below concrete surfaces by mechanical means. Voids remaining must be filled with mortar.
6. Drill and bond dowel (chemical adhesive) hole shall be drilled with carbide drill bit only. Performance calculations for these anchors are based on manufacturer's carbide drill bit installation data. Diamond/Hollow core drilling is prohibited.
7. Contractor to reduce maximum installation torque per ESR Report for Edge Distances greater than 1 3/4" and less than 3 1/8".

**LEGEND:**

----- EXISTING STRUCTURE



**NOTE:**  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

**DRAFT**

DESIGN BY K. CHAU DETAILS BY S. DORAISWAMY QUANTITIES BY K. CHAU	CHECKED BY G. VAZQUEZ CHECKED BY K. CHAU CHECKED BY G. VAZQUEZ	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF ENGINEERING SERVICES</b> OFFICE OF DESIGN AND TECHNICAL SERVICES <b>SPECIAL DESIGNS BRANCH A</b>	BRIDGE No.	<b>VERTICAL CLEARANCE SIGNS</b> <b>TYPICAL DETAILS</b>	<b>SDS-3</b>
				VAR		
				POST MILE		
				VAR		





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			No. _____ Exp. _____		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

### ROADSIDE SIGN QUANTITIES AND PANEL SUMMARY

SHEET No.	SIGN No.	CODE	PANEL SIZE		"C" DIM IN FEET	POST SIZE & LENGTH		INSTALL ROADSIDE SIGN - ONE POST	INSTALL ROADSIDE SIGN - TWO POSTS	INSTALL ROADSIDE SIGN (SSBM)	REMOVE ROADSIDE SIGN - WOOD POST	REMOVE ROADSIDE SIGN	REMOVE ROADSIDE SIGN PANEL	RESET ROADSIDE SIGN	REMOVE BRIDGE MOUNTED SIGN	INSTALL SIGN ON EXISTING STRUCTURE	TREATED WOOD WASTE	SINGLE FACED	BACKGROUND		LEGEND		PREMIUM PROTECTIVE FILM	FURNISH SINGLE SHEET ALUMINUM SIGN - UNFRAMED		FURNISH SINGLE SHEET ALUMINUM SIGN - FRAMED		REMARKS	
			L x D	IN x IN		4" x 4"	4" x 6"												RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR		0.063"	0.080"	0.063"	0.080"		
			LF	EA		LB	EA												LB	EA	LB	EA		LB	EA	LB	EA		LB
S-3	S3-23	R10-11	24 x 30					1											x	WHITE	IX	BLACK	x	5.00					
	S3-24	R3-18	24 x 24					1											x	WHITE	IX	BLACK	x	4.00					SIGN ON MAST ARM - ELECTRICAL ITEM
	S3-25	G78(CA)									1						78.30		x	GREEN	XI	WHITE	IX		13.50				
	S3-26	G78(CA)	54 x 36	7		14.5	1																						
	S3-27	R3-1 G77(CA) G7-1(CA)									1						81.00												
	S3-28	G77(CA) G7-1(CA)	78 x 48 78 x 18	5		15.0	1																			26.00 9.75			
	S3-29	R3-1	24 x 24					1											x	WHITE	IX	BLACK	x	4.00					
	S3-30	R6-1(L+) R6-1(R+)	36 x 12 36 x 12	1.5	6.5		1												x	BLACK		WHITE	IX	x	3.00				
	S3-31	R6-1(L+) R6-1(R+)									1						23.40		x	BLACK		WHITE	IX	x	3.00				
	S3-32	R3-18	24 x 24								1								x	WHITE	IX	BLACK	x	4.00					SIGN ON MAST ARM - ELECTRICAL ITEM
	S3-33	R2-1(25)									1						46.80												
	S3-34	R2-1(25)	24 x 30	7	13.0		1												x	WHITE	IX	BLACK	x	5.00					
	S3-35	R3-2	30 x 30	7	13.0		1												x	WHITE	IX	RED, BLACK	XI	x	6.25				
	S3-36	R10-3j	9 x 12																x	WHITE	IX	BLACK	x	0.75					ELECTRICAL ITEM
	S3-37	R10-3j(R+)	9 x 12																x	WHITE	IX	BLACK	x	0.75					ELECTRICAL ITEM
	S3-38	R10-3j(L+)	9 x 12																x	WHITE	IX	BLACK	x	0.75					ELECTRICAL ITEM
	S3-39	R10-3j(R+)	9 x 12																x	WHITE	IX	BLACK	x	0.75					ELECTRICAL ITEM
SHEET TOTAL								4	1	4	4						229.50							37.25	13.50	35.75			

### SIGN QUANTITIES SQ-3

LAST REVISION: DATE PLOTTED => 23-FEB-2023 00-00-00 TIME PLOTTED => 17:18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER				DATE	
PLANS APPROVAL DATE				No.	
				Exp.	
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### ROADSIDE SIGN QUANTITIES AND PANEL SUMMARY

SHEET No.	SIGN No.	CODE	PANEL SIZE		"C" DIM IN FEET	POST SIZE & LENGTH		INSTALL ROADSIDE SIGN - ONE POST	INSTALL ROADSIDE SIGN - TWO POSTS	INSTALL ROADSIDE SIGN (SSBM)	REMOVE ROADSIDE SIGN - WOOD POST	REMOVE ROADSIDE SIGN	REMOVE ROADSIDE SIGN PANEL	RESET ROADSIDE SIGN	REMOVE BRIDGE MOUNTED SIGN	INSTALL SIGN ON EXISTING STRUCTURE	TREATED WOOD WASTE	LB	SINGLE FACED	BACKGROUND		LEGEND		PREMIUM	PROTECTIVE FILM	FURNISH SINGLE SHEET ALUMINUM SIGN - UNFRAMED		FURNISH SINGLE SHEET ALUMINUM SIGN - FRAMED		REMARKS	
			L x D	IN x IN		4" x 4"	4" x 6"													EA	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE			SHEETING COLOR	0.063"	0.080"	0.063"		0.080"
			LF	EA		EA	EA													EA	EA	EA	EA			EA	EA	EA	EA		EA
S-3	S3-40	R10-3j(L+)	9 x 12																x	WHITE	IX	BLACK	x	0.75					ELECTRICAL ITEM		
		R10-3j(R+)	9 x 12																x	WHITE	IX	BLACK	x	0.75					ELECTRICAL ITEM		
	S3-41	R5-1	30 x 30	2	10.0			1											x	WHITE	IX	RED	XI	x	6.25						
		R5-1a	36 x 24																x	RED	XI	WHITE	IX	x	6.00						
	S3-42	R5-1	30 x 30	2	10.0			1											x	WHITE	IX	RED	XI	x	6.25						
		R5-1a	36 x 24																x	RED	XI	WHITE	IX	x	6.00						
	S3-43	R5-1	30 x 30	2	10.0			1											x	WHITE	IX	RED	XI	x	6.25						
		R5-1a	36 x 24																x	RED	XI	WHITE	IX	x	6.00						
	S3-44	R10-3j(R+)	9 x 12																x	WHITE	IX	BLACK		x	0.75					ELECTRICAL ITEM	
	S3-45	R10-3j(L+)	9 x 12																x	WHITE	IX	BLACK		x	0.75					ELECTRICAL ITEM	
	S3-46	R10-3j(L+)	9 x 12																x	WHITE	IX	BLACK		x	0.75					ELECTRICAL ITEM	
	S3-47	R10-3j	9 x 12																x	WHITE	IX	BLACK		x	0.75					ELECTRICAL ITEM	
	S3-48	D1-2	54 x 24																x	GREEN	XI	WHITE	IX	x	9.00						
	S3-49	R3-18	24 x 24								1								x	WHITE	IX	BLACK		x	4.00						
	S3-50	G8(CA)	54 x 18								1								x	GREEN	XI	WHITE	IX	x	6.75						
S3-51	D1-2	54 x 24								1								x	GREEN	XI	WHITE	IX	x	9.00							
S3-52	R10-3j(L+)	9 x 12																x	WHITE	XI	BLACK	X	x	0.75					ELECTRICAL ITEM		
S-4	S4-1	G28-2(82)(CA)								1																					
	S4-2	M3-1	24 x 12									1						x	GREEN	XI	WHITE	IX	x	2.00							
		G28-2(82)(CA)	24 x 25								1							x	GREEN	XI	WHITE	IX	x	4.16							
	S4-3	R3-7R											1																		
	S4-4	R3-7R	30 x 30								1							x	WHITE	IX	BLACK		x	6.25							
	S4-5	R81-61(CA)										1				172.80															
S4-6	G9(CA)	72 x 42	5		16.0			1									x	GREEN	XI	WHITE	IX	x				21.00					
	R81-61(CA)	72 x 12															x	BLUE	XI	WHITE	IX	x				6.00					
SHEET TOTAL								3	1	6	1	2				172.80								81.66			27.00				

## SIGN QUANTITIES SQ-4





STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: MUSTAQUR RAHMAN  
 CALCULATED/DESIGNED BY: MUSTAQUR RAHMAN  
 CHECKED BY: MUSTAQUR RAHMAN  
 REVISIONS: kKENNY YAP, MUSTAQUR RAHMAN  
 REVISED BY: DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_  
 No. \_\_\_\_\_ Exp. \_\_\_\_\_ CIVIL  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

### GUARDRAIL QUANTITIES

SHEET No.	LOCATION	STATION LIMITS	SIDE	REMOVE GUARDRAIL	TREATED WOOD WASTE	MGS(WOOD POST)	TRANSITION RAILING (TYPE WB-31)	GUARD RAILING DELINEATOR	END CAP (TYPE TC)
				LF	LB	LF	EA	EA	EA
L-1	1	"D" 9+01.54 TO 9+29.67	Rt			28.13	1	3	1
		"D" 9+01.54 TO 9+55.88	Rt	53.13	794.81				
FROM ROADSIDE SIGN QUANTITIES					491.58				
<b>TOTAL</b>				53.13	1286.39	28.13	1	3	1

### FENCE

SHEET No.	LOCATION	SIDE	STATION LIMITS	REMOVE CL FENCE	CL FENCE (TYPE CL-6)	RECONSTRUCT CL FENCE
				LF	LF	LF
C-9	4	L+	"A2" 624+97.45 TO 625+42.51	45	45	
C-9	4	L+	"A2" 626+29.24 TO 626+33.00			10
<b>TOTAL</b>				45	45	10

### PEDESTRIAN BARRICADE

SHEET NO.	LOCATION	EA
L-1	4	2
<b>TOTAL</b>		2

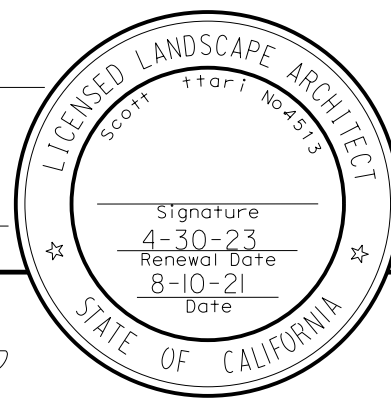
### CONCRETE CURBS, SIDEWALKS AND ISLAND PAVING

SHEET NO.	DESCRIPTION / LOCATION	MINOR CONCRETE (CURB, GUTTER, SIDEWALK AND DRIVEWAY)	MINOR CONCRETE (CURB)	MINOR CONCRETE (CURB & GUTTER)	MINOR CONCRETE (ISLAND PAVING)	MINOR CONCRETE (SIDEWALK)	ROADWAY EXCAVATION	ROADWAY EXCAVATION (TYPE COM)	ROADWAY EXCAVATION (TYPE Z-2)	REMOVE BASE AND SUFFACING	RAPID STRENGTH CONCRETE	BASE BOND BREAKER	REMOVE CONCRETE (CURB, GUTTER AND SIDEWALK)	REMOVE CONCRETE (CURB AND GUTTER)	REMOVE CONCRETE CURB AND SIDEWALK	REMOVE CONCRETE CURB	REMOVE CONCRETE ISLAND PORTION	HMA (TYPE A)	CLASS 2 AB	DETECTABLE WARNING SURFACE	PRE/POST CONSTRUCTION SURVEY
		CY	LF					CY				CY	SQYD					CY	TON	CY	SQFT
C-1	CR-1	4.41					0.85						23.00					1.73	5.69	15.00	1
C-1	CR-2	3.99					1.00						27.00					2.03	4.88	15.00	1
C-1	CONCRETE ISLAND (MEDIAN)		10.00		0.12		2.15										1.89	2.70	0.30		
C-2	CR-3	2.57					0.81						13.00	10.00				1.65	2.94	15.00	1
C-3	CR-4	6.15					2.00	2.92							27.00	25.00		4.05	7.17	47.00	1
C-3	CR-5	6.34					1.85	2.92							32.00	14.00		3.75	7.44	51.00	1
C-4	CR-6	5.09					1.37						37.00					2.78	6.13	18.00	1
C-4	PASSAGE WAY No.1		187.00		6.39		3.48										16.19	7.05	10.74	95.00	1
C-5	CR-7	5.14					1.56						37.00					3.15	6.19	18.00	1
C-5	REMOVE CONCRETE ISLAND						2.63				7.37	33.00					8.44		5.48		
C-6	CR-8	5.77					1.67	2.58							30.00	10.00		3.38	7.02	46.00	1
C-6	CR-9	5.16					1.33	3.20							23.00	10.00		2.70	6.26	45.00	1
C-7	PASSAGE WAY No.2		77.00	2.54	5.35		2.63										16.22	5.33	10.02	90.00	1
C-7	PASSAGE WAY No.3		51.00	48.00	3.07		1.70										11.96	3.45	7.24	70.00	1
C-7	PASSAGE WAY No.4		61.00		4.30		1.48										12.96	3.00	6.52	103.00	1
C-8	CR-10	4.53					1.89		9.74	11.93								3.83	4.84	21.00	1
C-8	CR-11	5.36					1.81			4.96			43.00					3.68	6.13	15.00	1
L-2	SW No.1				2.53														3.61		1
C-9	SW No.2	21.30					4.19			29.67				113.00				10.20	19.86		1
C-9	SW No.3	20.97					3.89			38.96								7.88	19.65		1
C-9	SW No.4	15.61					3.74						101.00					7.58	14.32		1
<b>TOTAL</b>		112.39	386.00	50.54	19.24	2.53	42.04	11.62	9.74	85.52	7.37	33.00	281.00	123.00	112.00	59.00	67.67	79.88	162.45	664.00	19

### SUMMARY OF QUANTITIES

Q-1





STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE

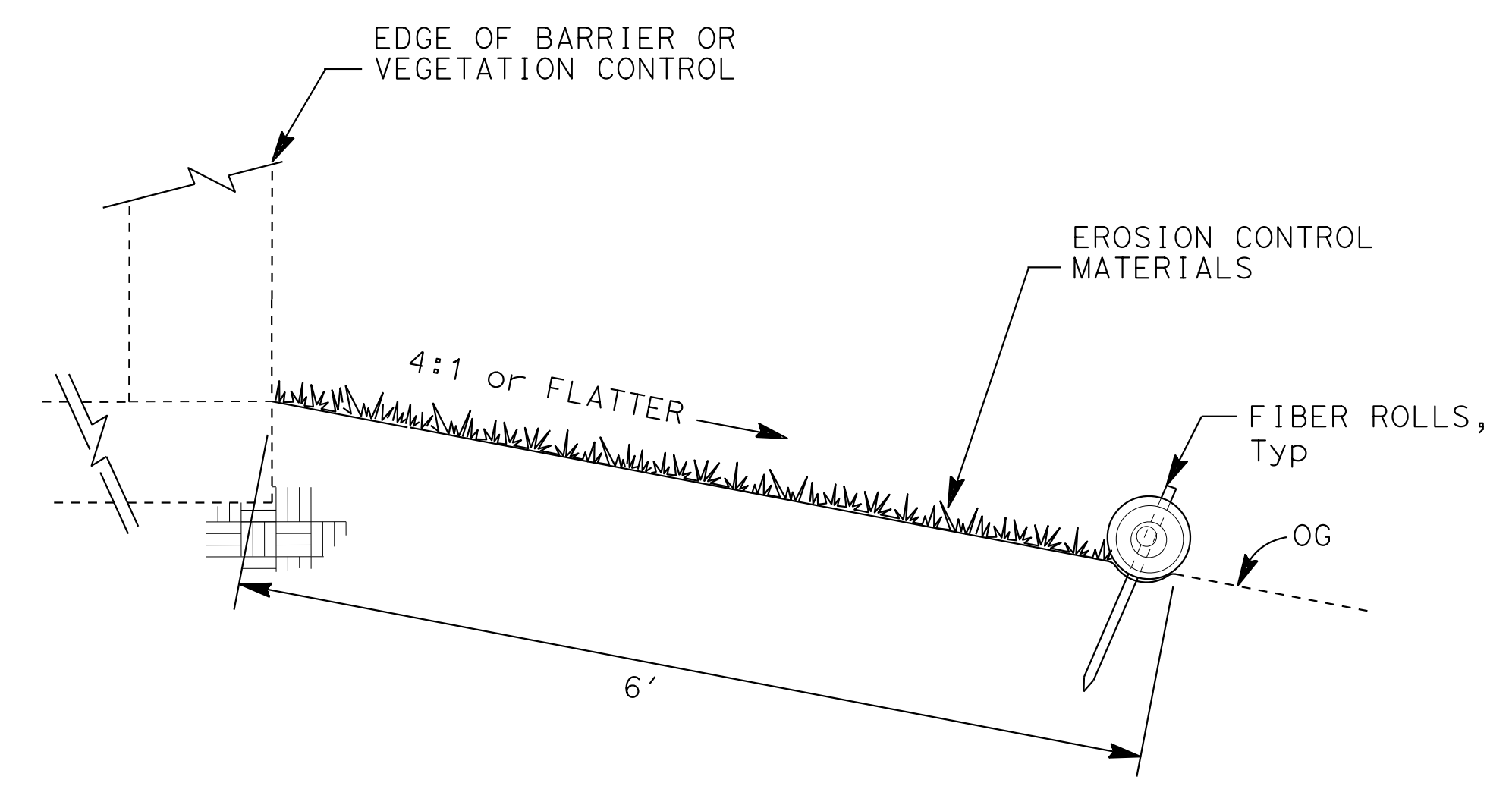
FUNCTIONAL SUPERVISOR: KIMBERLY WHITE

DESIGNED BY: SCOTT BOTTARI

CHECKED BY: KIMBERLY WHITE

REVISOR: SB

DATE REVISED: 11-10-22



SECTION  
(EROSION CONTROL (TYPE 1)  
& FIBER ROLLS)

**SEED MIX**

BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
ARTEMISIA CALIFORNICA (CALIFORNIA SAGEBRUSH)	30	3
ERIOGONUM LATIFOLIUM (COAST BUCKWHEAT)	35	3
BACCHARIS PILULARIS (COYOTE BRUSH)	20	4
ELYMUS TRITICOIDES (LEYMUS TRITICOIDES)	45	4
ESCHSCHOLZIA CALIFORNICA (CALIFORNIA POPPY)	35	3
MELICA IMPERFECTA (COAST RANGE ONION GRASS)	45	6
LUPINUS FORMOSUS (SUMMER LUPINE)	45	5
STIPA PULCHRA (PURPLE NEEDLEGRASS)	45	7
STIPA LEPIDA (FOOTHILL NEEDLEGRASS)	40	7
MIMULUS AURANTIACUS (BUSH MONKEY FLOWER)	35	4
PHACELIA CALIFORNICA (CALIFORNIA PHACELIA)	30	4

**EROSION CONTROL TYPE 1**

SEQUENCE	ITEM	MATERIAL	MATERIAL TYPE	APPLICATION RATE	DEPTH	REMARKS
STEP 1	COMPOST	COMPOST	FINE	134 CY/ACRE	1"	
STEP 2	ROLLED EROSION CONTROL PRODUCT (NETTING)	100% WOVEN COIR (COCUNUT FIBER)	TYPE A			
STEP 3	FIBER ROLLS	RICE STRAW/JUTE	8-10" Dia			TYPE 1
STEP 4	HYDROSEED	SEED	SEED MIX	50 LB/ACRE		
		FERTILIZER	ORGANIC	800 LB/ACRE		
STEP 5	HYDROMULCH	FIBER	WOOD	1,000 LB/ACRE		
		TACKIFIER	PSYLLIUM	200 LB/ACRE		
		FIBER	ALTERNATE	2,500 LB/ACRE		

**EROSION CONTROL LEGEND**

**ECL-1**

APPROVED FOR EROSION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE

FUNCTIONAL SUPERVISOR: KIMBERLY WHITE  
 CALCULATED/DESIGNED BY: KIMBERLY WHITE  
 CHECKED BY: KIMBERLY WHITE  
 SCOTT BOTTARI  
 REVISOR: SB  
 DATE REVISED: 2-16-23

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

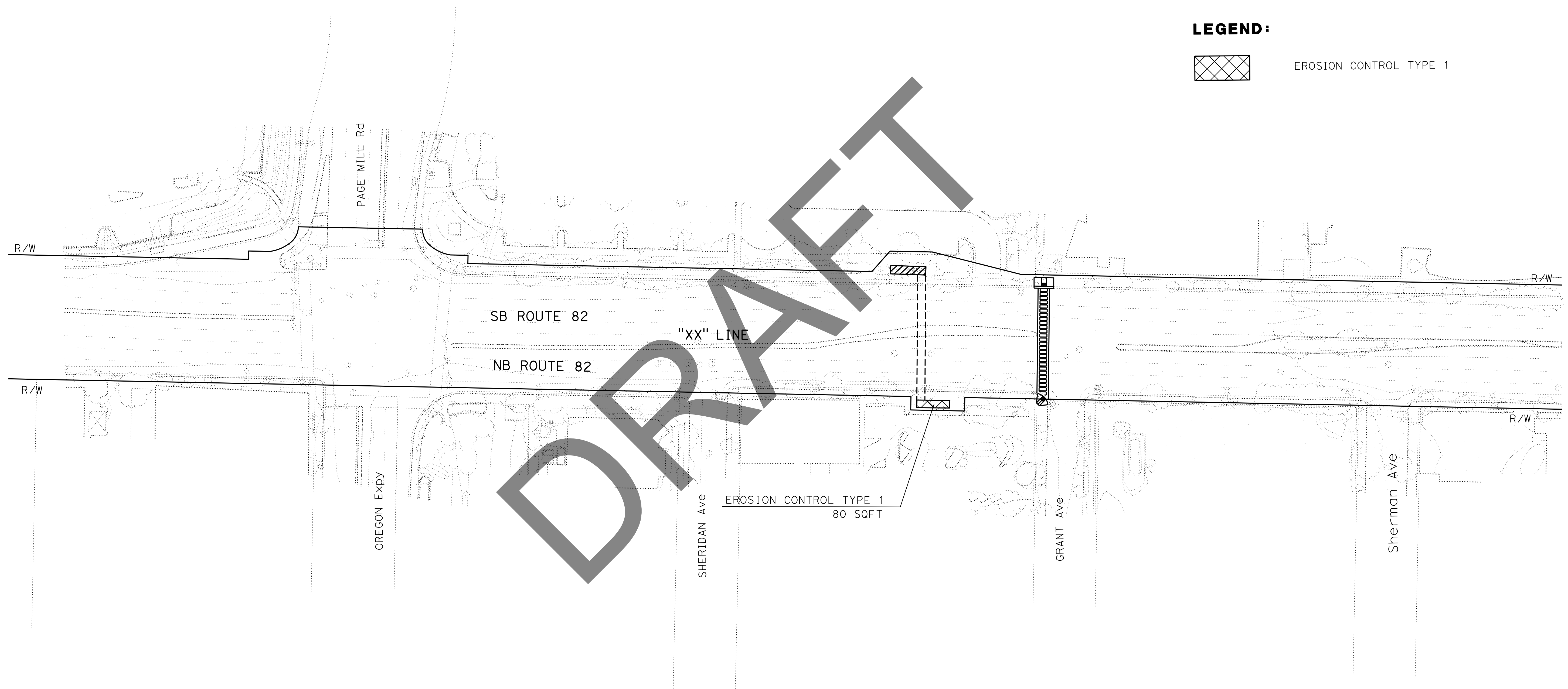
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

Signature: \_\_\_\_\_  
 4-30-23  
 Renewal Date: \_\_\_\_\_  
 8-10-21  
 Date: \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**LEGEND:**  
 EROSION CONTROL TYPE 1

**EROSION CONTROL PLAN**  
 SCALE: 1" = 50'

**EC-1**

APPROVED FOR EROSION CONTROL WORK ONLY

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

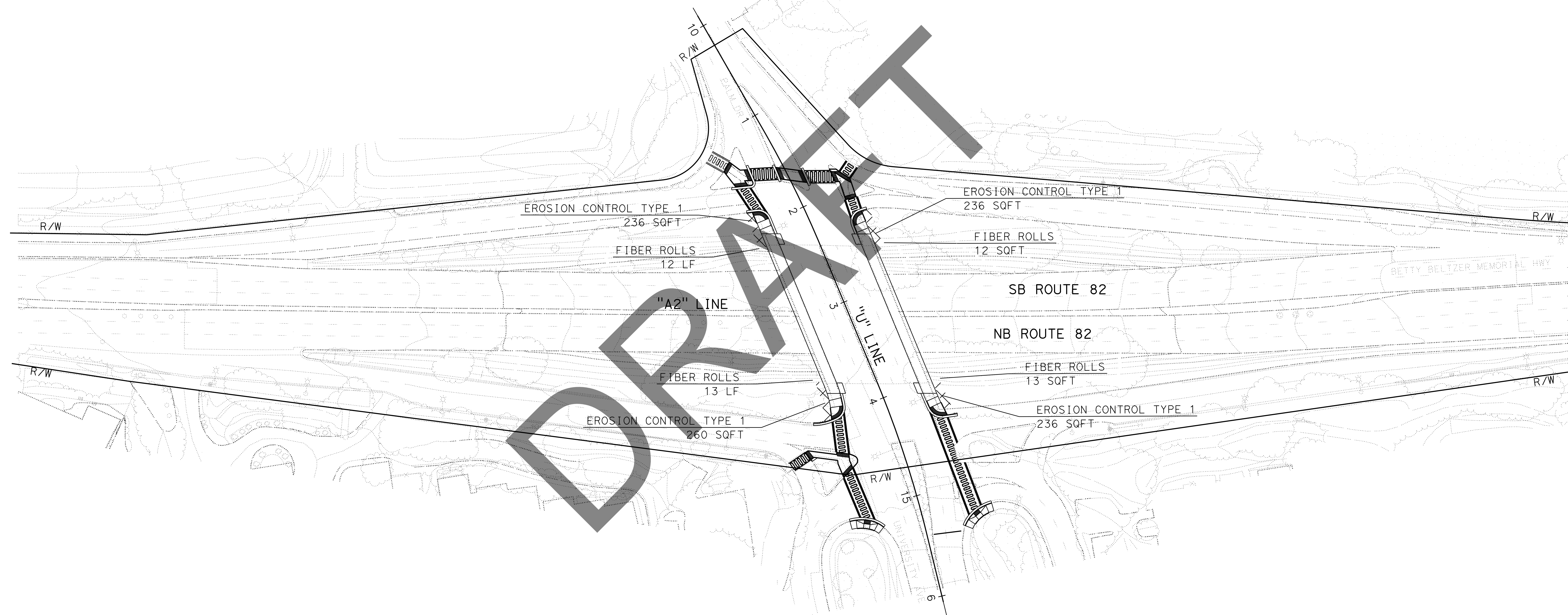
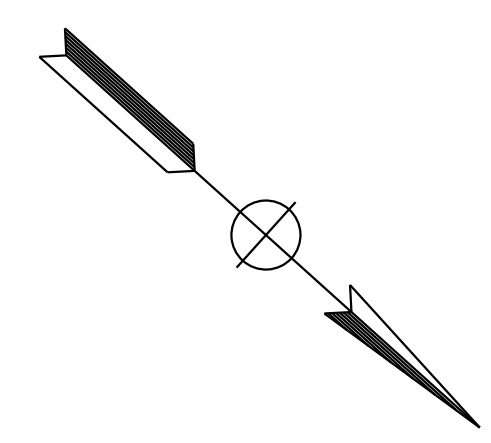
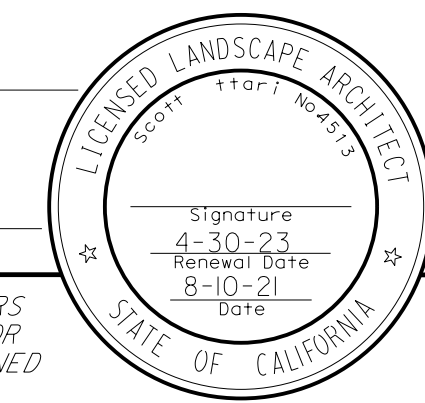
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX

LICENSED LANDSCAPE ARCHITECT

X-X-XX

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECT

FUNCTIONAL SUPERVISOR  
 KIMBERLY WHITE

CALCULATED/DESIGNED BY  
 CHECKED BY

SCOTT BOTTARI  
 KIMBERLY WHITE

REVISOR BY  
 DATE REVISED

SB  
 2-16-23

**EROSION CONTROL PLAN**  
 SCALE: 1" = 50'

**EC-2**

APPROVED FOR EROSION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE

FUNCTIONAL SUPERVISOR  
 KIMBERLY WHITE

CALCULATED/DESIGNED BY  
 CHECKED BY

SCOTT BOTTARI  
 KIMBERLY WHITE

REVISED BY  
 DATE REVISED

SB  
 2-16-23

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

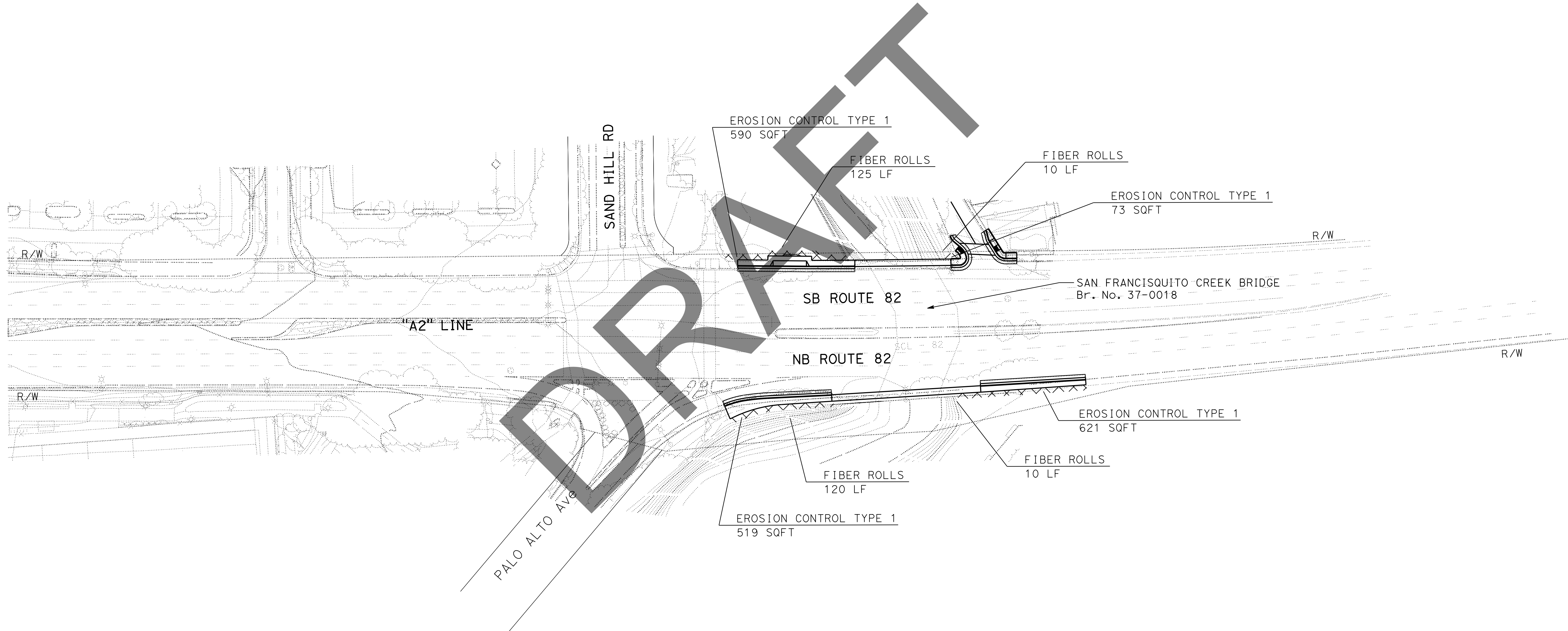
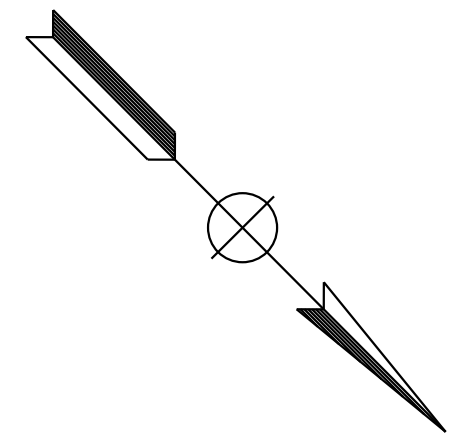
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

Signature  
 4-30-23  
 Renewal Date  
 8-10-21  
 Date

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



DRAFT

**EROSION CONTROL PLAN**  
 SCALE: 1" = 50'

**EC-3**

APPROVED FOR EROSION CONTROL WORK ONLY

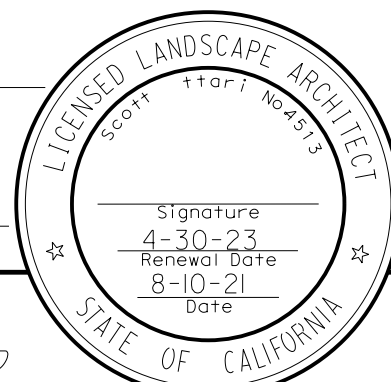
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	82	Var	A	ZYX

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

Signature: \_\_\_\_\_  
 4-30-23  
 Renewal Date: 8-10-21  
 Date: \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE

FUNCTIONAL SUPERVISOR: KIMBERLY WHITE

SCOTT BOTTARI  
 KIMBERLY WHITE

REVISOR: SB  
 DATE: 2-16-23

**EROSION CONTROL QUANTITIES**

SHEET NO.	DESCRIPTION	FIBER ROLLS	HYDROSEED	HYDROMULCH	ROLLED EROSION CONTROL PRODUCT (NETTING)	COMPOST (CY)	MOVE-IN/MOVE-OUT (EROSION CONTROL)	HYDROSEED MATERIALS (N)			HYDROMULCH MATERIALS (N)	
		LF	SQFT	SQFT	CY	EA	SEED	FIBER	FERTILIZER (ORGANIC)	TACKIFIER	FIBER	
EC-1	EROSION CONTROL TYPE 1		80	80	80	0.2		0.09	1.8	1.44	0.36	4.5
EC-2	EROSION CONTROL TYPE 1	50	968	968	968	3	1	1.1	22	17.6	4.4	55
EC-3	EROSION CONTROL TYPE 1	265	1,803	1,803	1,803	5.5	1	2	40	32	8	100
	TOTAL	315	2,851	2,851	2,851	8.7	2					

(N) - NOT A SEPARATE BID ITEM

APPROVED FOR EROSION CONTROL WORK ONLY

**EROSION CONTROL QUANTITIES**

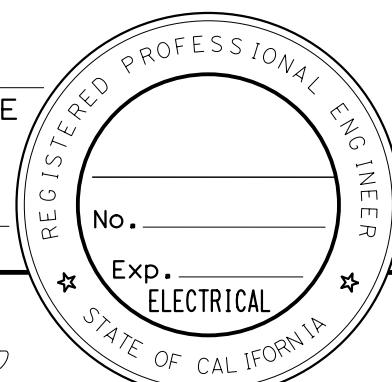
**ECQ-1**

DATE PLOTTED => 22-FEB-2023  
 TIME PLOTTED => 17:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X

REGISTERED ELECTRICAL ENGINEER	DATE
PLANS APPROVAL DATE	



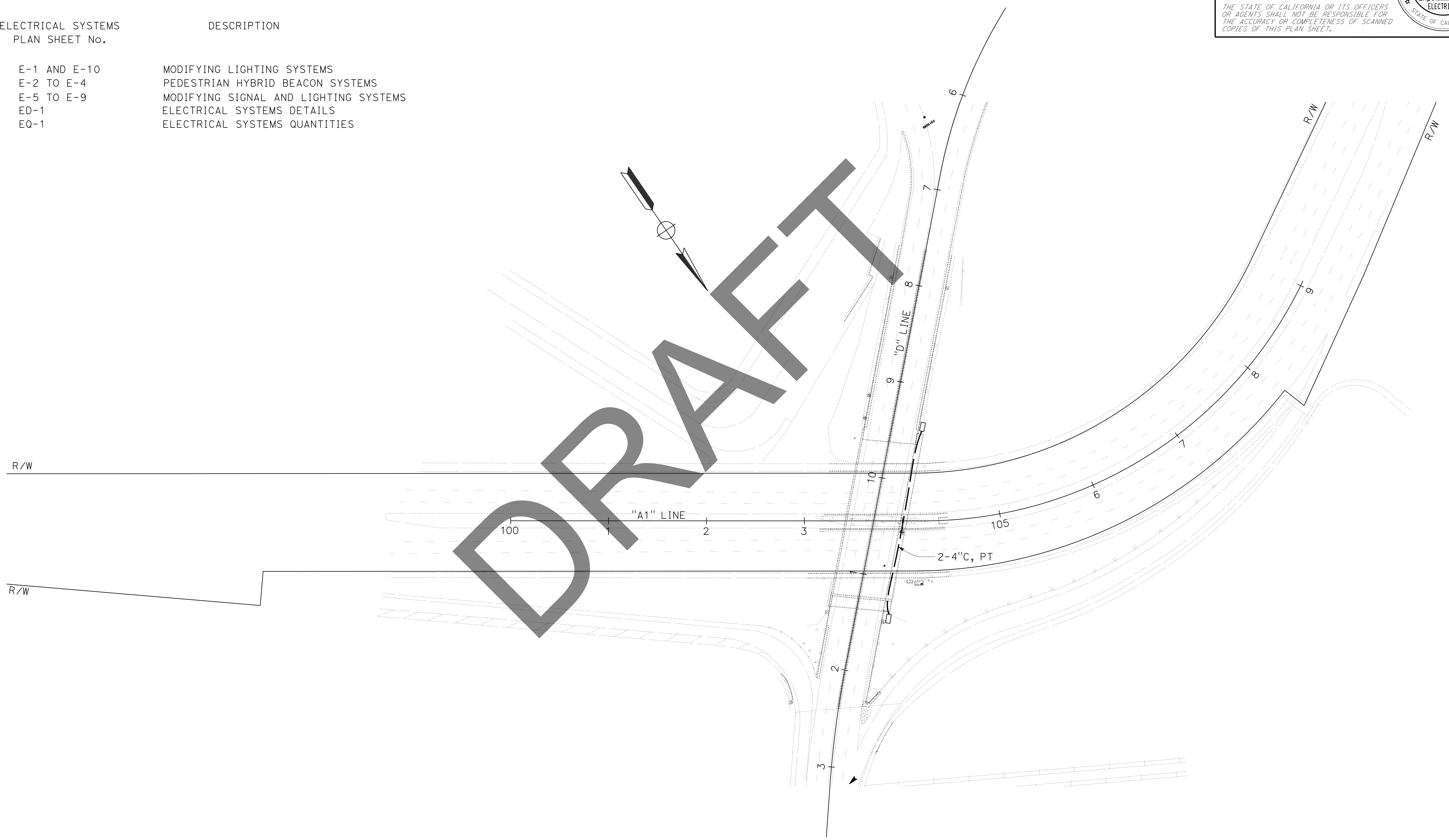
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**INDEX OF ELECTRICAL SYSTEMS PLANS:**

ELECTRICAL SYSTEMS PLAN SHEET No.	DESCRIPTION
E-1 AND E-10	MODIFYING LIGHTING SYSTEMS
E-2 TO E-4	PEDESTRIAN HYBRID BEACON SYSTEMS
E-5 TO E-9	MODIFYING SIGNAL AND LIGHTING SYSTEMS
ED-1	ELECTRICAL SYSTEMS DETAILS
EQ-1	ELECTRICAL SYSTEMS QUANTITIES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
<b>Caltrans</b> ELECTRICAL DESIGN	KENNETH Y. XU	CHECKED BY	DORIS YANG	A
			PARWIZ A. KHAZI	A



**MODIFYING LIGHTING SYSTEMS**

SCALE: 1" = 50'

**E-1**

APPROVED FOR ELECTRICAL WORK ONLY

DATE PLOTTED => 22-FEB-2023  
TIME PLOTTED => 11:14



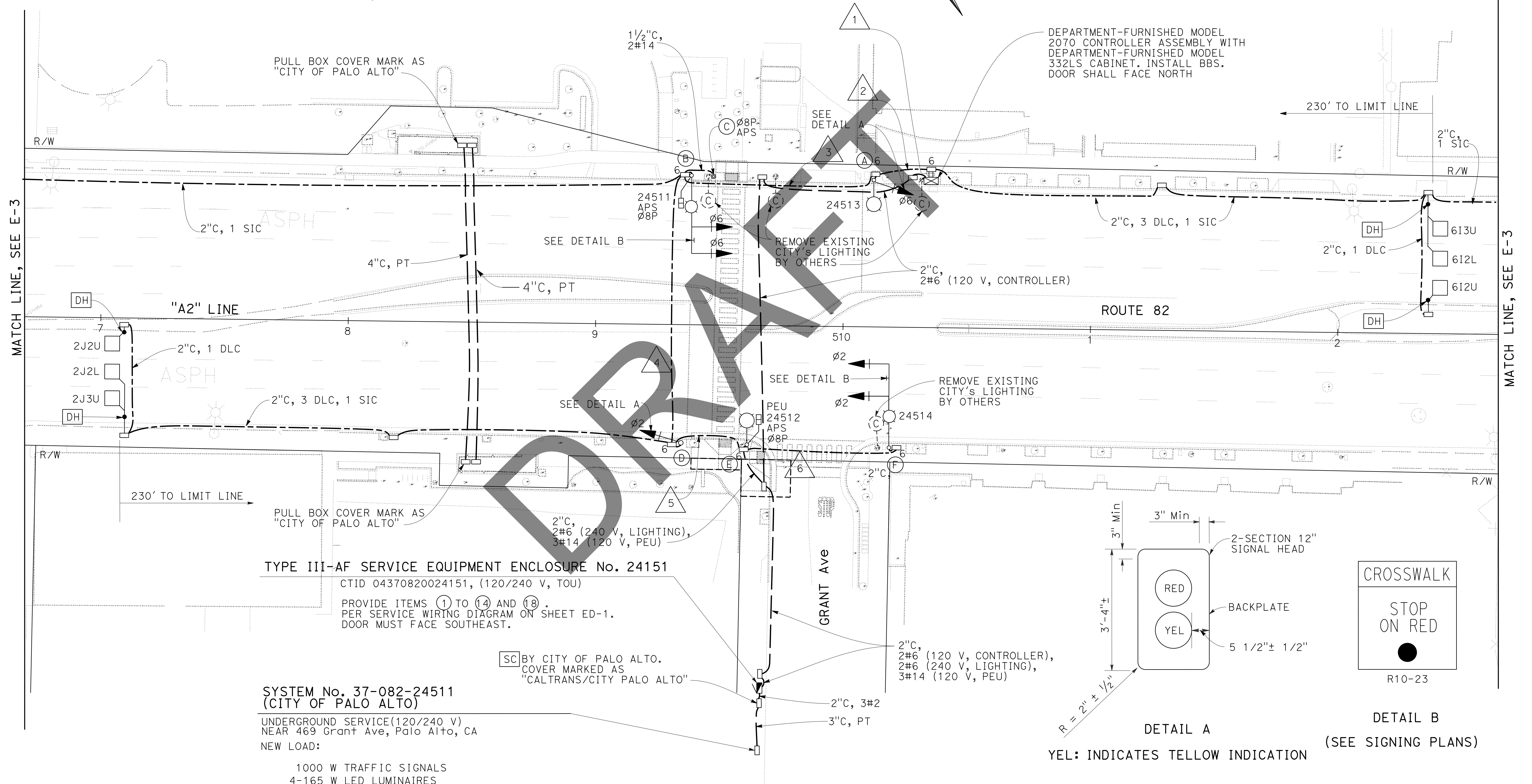
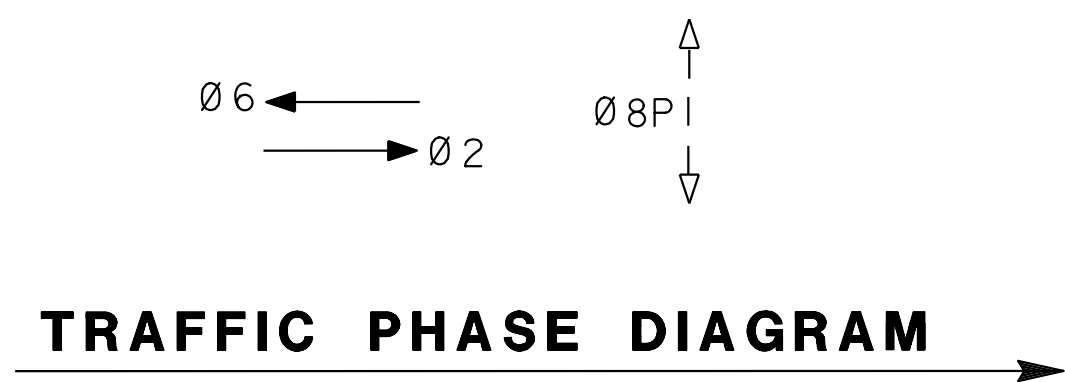
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X

REGISTERED ELECTRICAL ENGINEER	DATE
PLANS APPROVAL DATE	

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**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

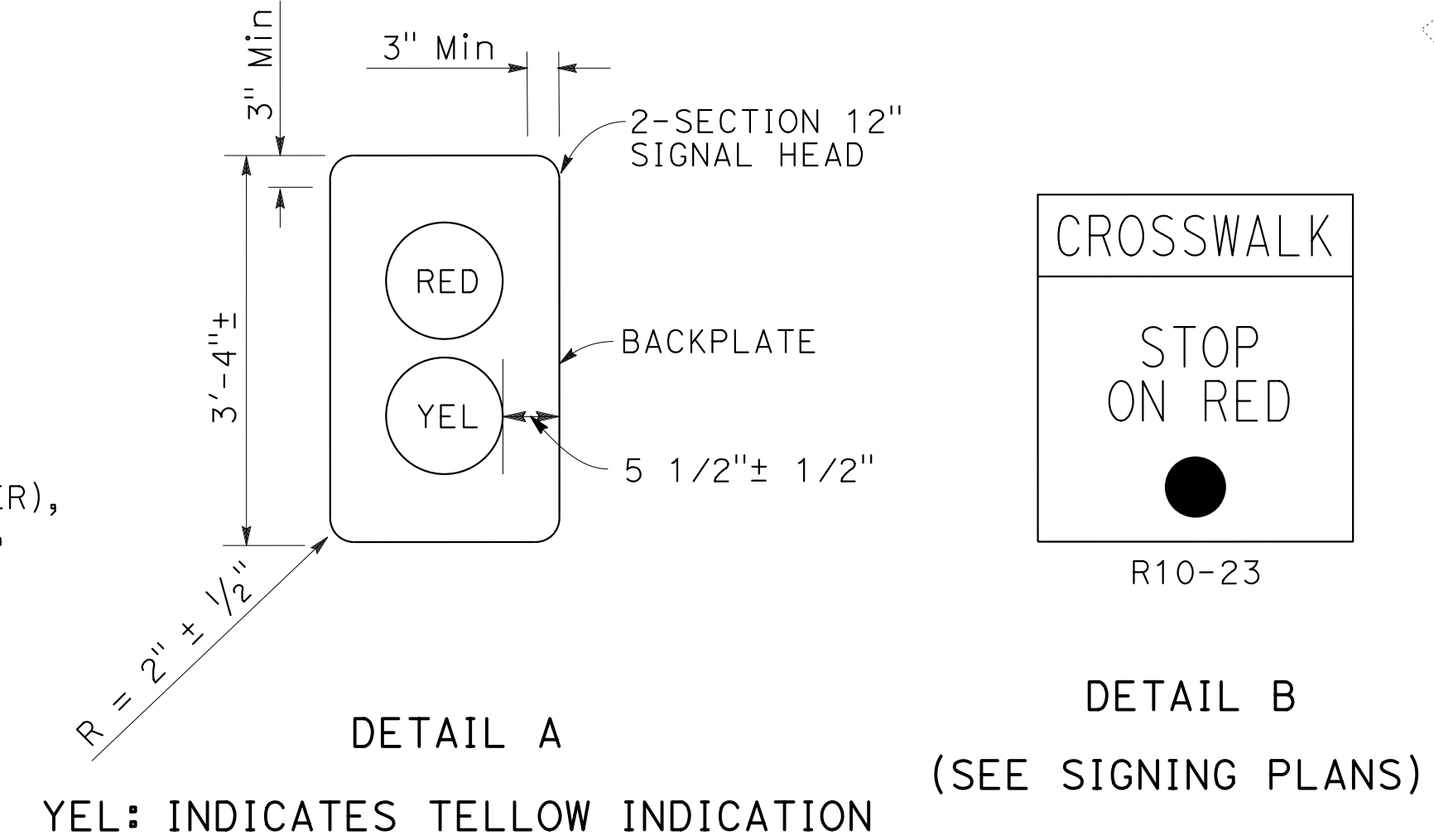


**TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 24151**

CTID 04370820024151, (120/240 V, TOU)  
PROVIDE ITEMS ① TO ⑭ AND ⑱ PER SERVICE WIRING DIAGRAM ON SHEET ED-1. DOOR MUST FACE SOUTHEAST.

**SYSTEM No. 37-082-24511 (CITY OF PALO ALTO)**  
UNDERGROUND SERVICE (120/240 V) NEAR 469 Grant Ave, Palo Alto, CA  
NEW LOAD:

- 1000 W TRAFFIC SIGNALS
- 4-165 W LED LUMINAIRES



**PEDESTRIAN HYBRID BEACON SYSTEMS**

SCALE: 1" = 20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ELECTRICAL DESIGN  
 FUNCTIONAL SUPERVISOR: KENNETH Y. XU  
 CALCULATED/DESIGNED BY: DORIS YANG  
 CHECKED BY: PARWIZ A. KHAZI  
 REVISED BY: A  
 DATE REVISED: A

APPROVED FOR ELECTRICAL WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**® ELECTRICAL DESIGN

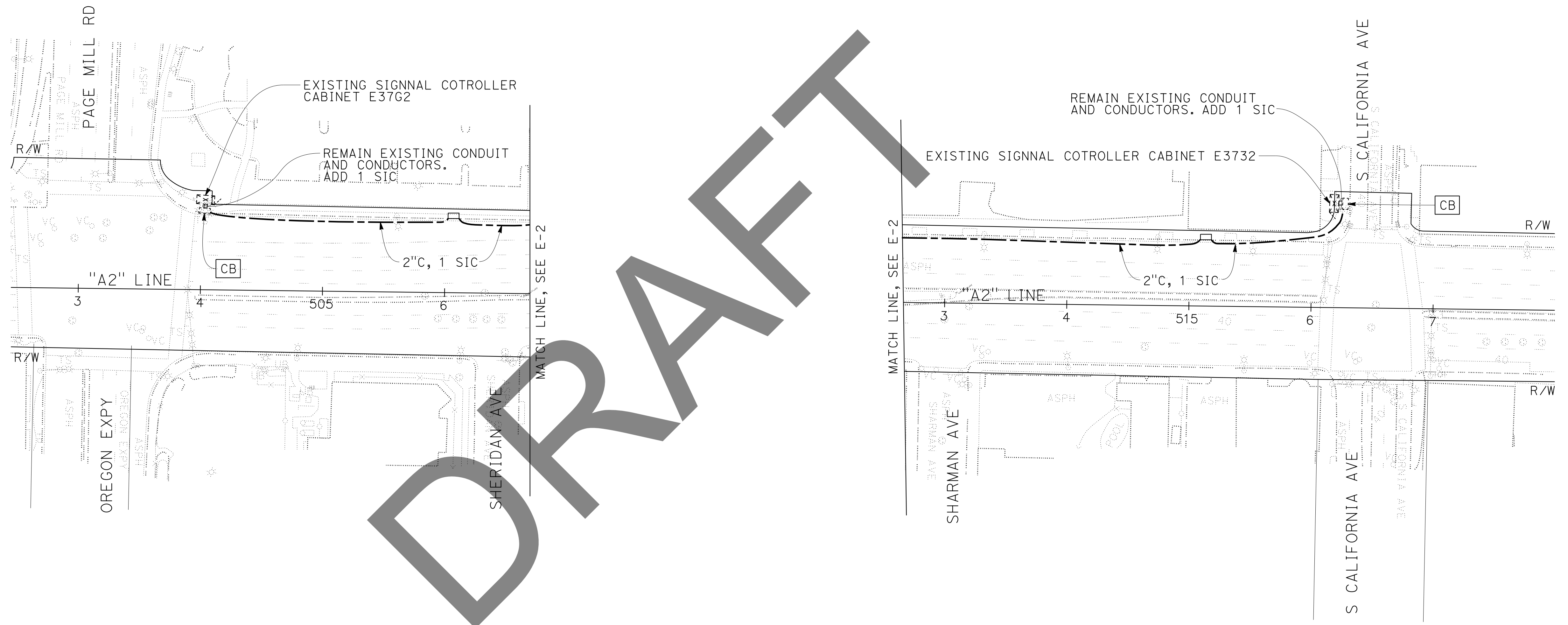
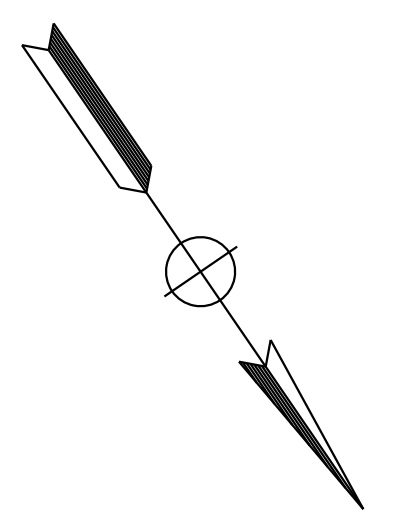
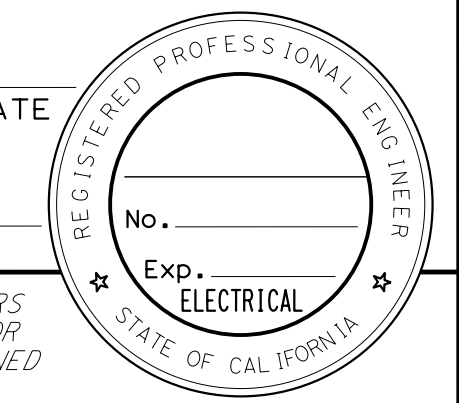
FUNCTIONAL SUPERVISOR KENNETH Y. XU	CALCULATED-DESIGNED BY CHECKED BY	DORIS YANG PARWIZ A. KHAZI	REVISED BY DATE REVISED	A A
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**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X

REGISTERED ELECTRICAL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



DRAFT

**PEDESTRIAN HYBRID BEACON SYSTEMS**

SCALE: 1" = 50'

**E-3**

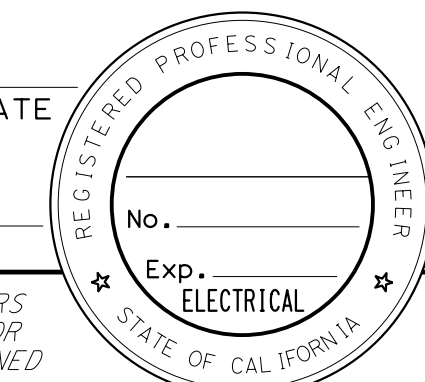
APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X

REGISTERED ELECTRICAL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

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### CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS							
	RUN NUMBER							
	1	2	3	4	5	6	7	8
<b>No. 14 CONDUCTORS</b>								
∅2	3	3	3	3	3	3		
∅6	3	3	3					
∅8P	2	2	2	2	2			
APS (∅8P)	1	1	1	1	1			
APS NEUTRAL	1	1	1	1	1			
SPARES	3	3	3	3	3	3		
TOTAL No. 14	13	13	13	10	10	6		
<b>No. 8 CONDUCTORS</b>								
SIGNAL NEUTRAL	1	1	1	1	1	1		
GROUNDING COPPER CONDUCTOR	1	1	1	1	1	1		
TOTAL No. 8	2	2	2	2	2	2		
<b>No. 6 CONDUCTORS</b>								
LIGHTING (240 V)			2	2	2	2		
<b>DLC</b>								
2I2U	1	1	1	1				
2I2L	1	1	1	1				
2I3U	1	1	1	1				
6J2U	1							
6J2L	1							
6J3U	1							
TOTAL DLCS PER RUN	6	3	3	3				
<b>CONDUIT SIZE</b>								
	2-3	3	3	3	3	3		

### POLE AND EQUIPMENT SCHEDULE

LOCATION	STANDARD		VEHICLE SIGNAL MOUNTING		PED SIGNAL MOUNTING	TOUCHLESS APS		LED LUMINAIRE TYPE (ROADWAY)	SPECIAL REQUIREMENT	
	TYPE	SMA (ft)	LMA (ft)	MAST ARM		POLE	∅			ARROW
(A)	15TS		12							
(B)	24-4-100	35	12	MAS-3A MAS-3A		SP-1-T	8	←	1	LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND APS. FOR SIGN R10-23 AND APS, SEE SIGNING PLANS
(C)	PBA POST						8	←		APS SIGN SEE SIGNING PLANS
(D)	1-A					TV-1-T			1	
(E)	15TS		12			SP-1-T	8	→	1	LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND APS. FOR APS SIGN, SEE SIGNING PLANS
(F)	24-4-100	35	12	MAS-3A MAS-3A					1	SIGN R10-23 SEE SIGNING PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ELECTRICAL DESIGN  
 FUNCTIONAL SUPERVISOR: KENNETH Y. XU  
 CALCULATED/DESIGNED BY: CHECKED BY:  
 DORIS YANG: PARWIZ A. KHAZI  
 REVISED BY: DATE REVISED:  
 A: A

## PEDESTRIAN HYBRID BEACON SYSTEMS (CONDUCTOR, POLE AND EQUIPMENT SCHEDULES)

NO SCALE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR  
 KENNETH Y. XU

CALCULATED/DESIGNED BY  
 CHECKED BY

DORIS YANG  
 PARWIZ A. KHAZI

REVISED BY  
 DATE REVISED

A  
 A

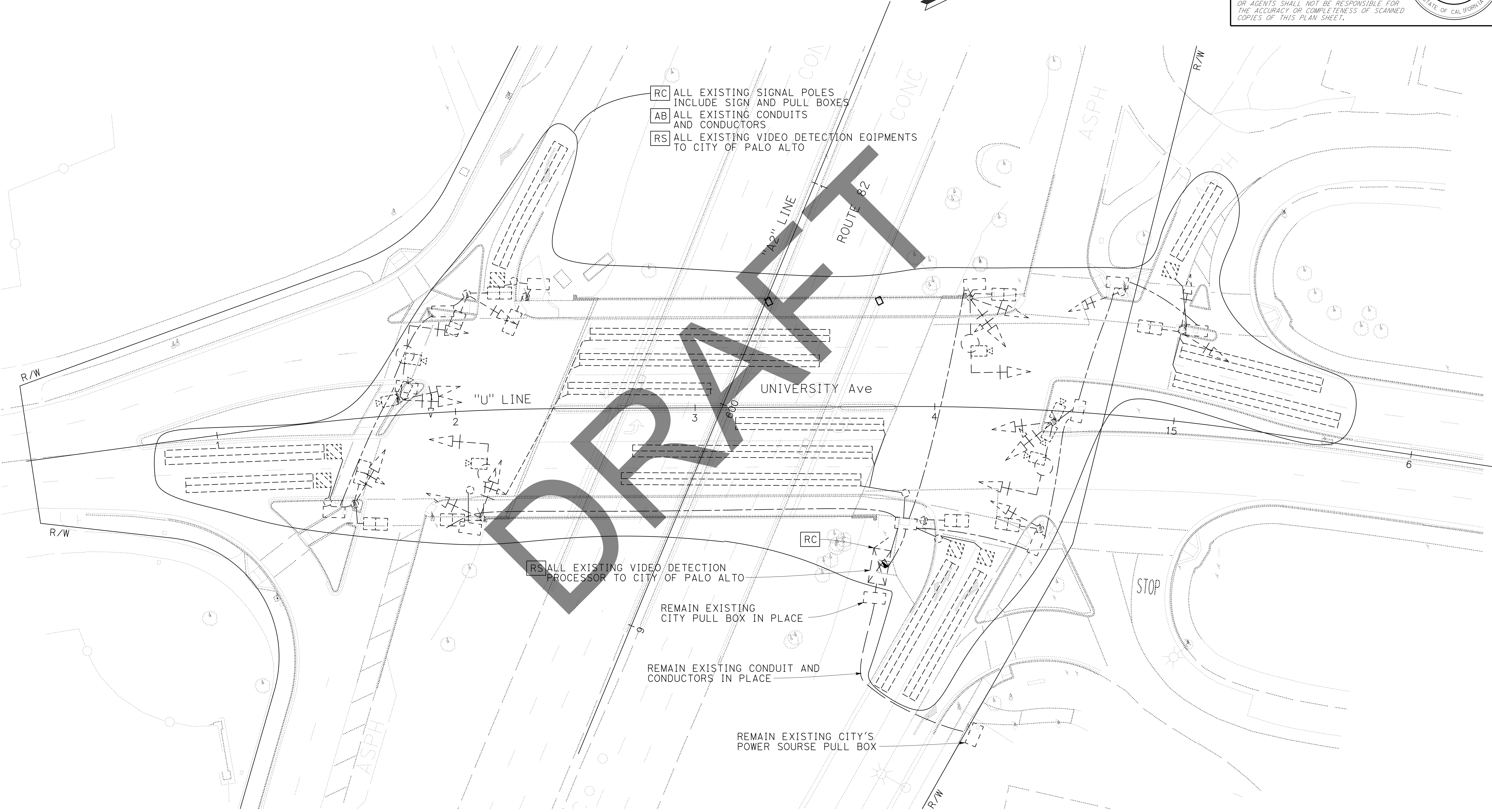
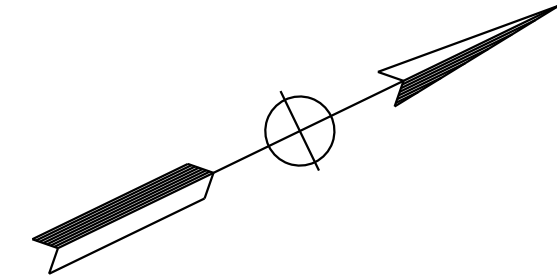
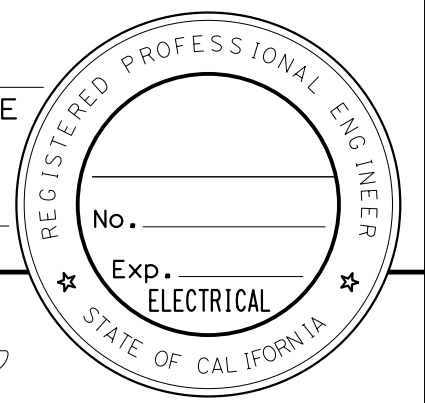
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X

REGISTERED ELECTRICAL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



- RC ALL EXISTING SIGNAL POLES INCLUDE SIGN AND PULL BOXES
- AB ALL EXISTING CONDUITS AND CONDUCTORS
- RS ALL EXISTING VIDEO DETECTION EQUIPMENTS TO CITY OF PALO ALTO

- RS ALL EXISTING VIDEO DETECTION PROCESSOR TO CITY OF PALO ALTO
- REMAIN EXISTING CITY PULL BOX IN PLACE
- REMAIN EXISTING CONDUIT AND CONDUCTORS IN PLACE
- REMAIN EXISTING CITY'S POWER SOURCE PULL BOX

EXISTING PLAN

**MODIFYING SIGNAL AND LIGHTING SYSTEMS**

SCALE: 1" = 20'

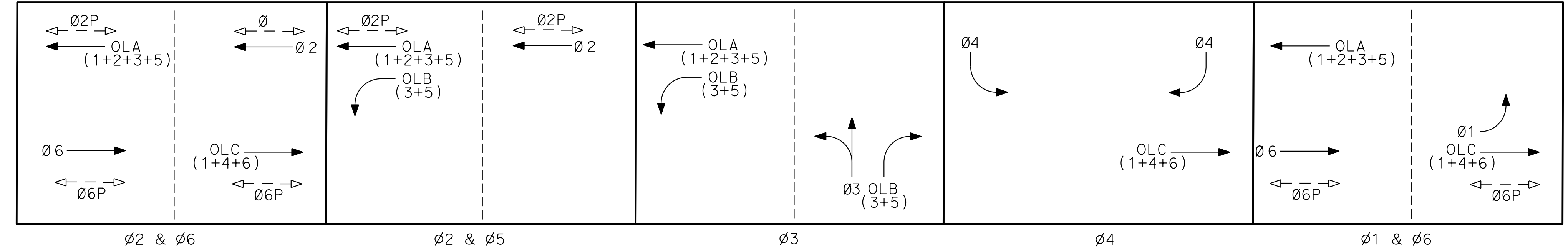
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**E-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: KENNETH Y. XU  
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 REVISED BY: [Blank]  
 DATE REVISED: [Blank]  
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 A

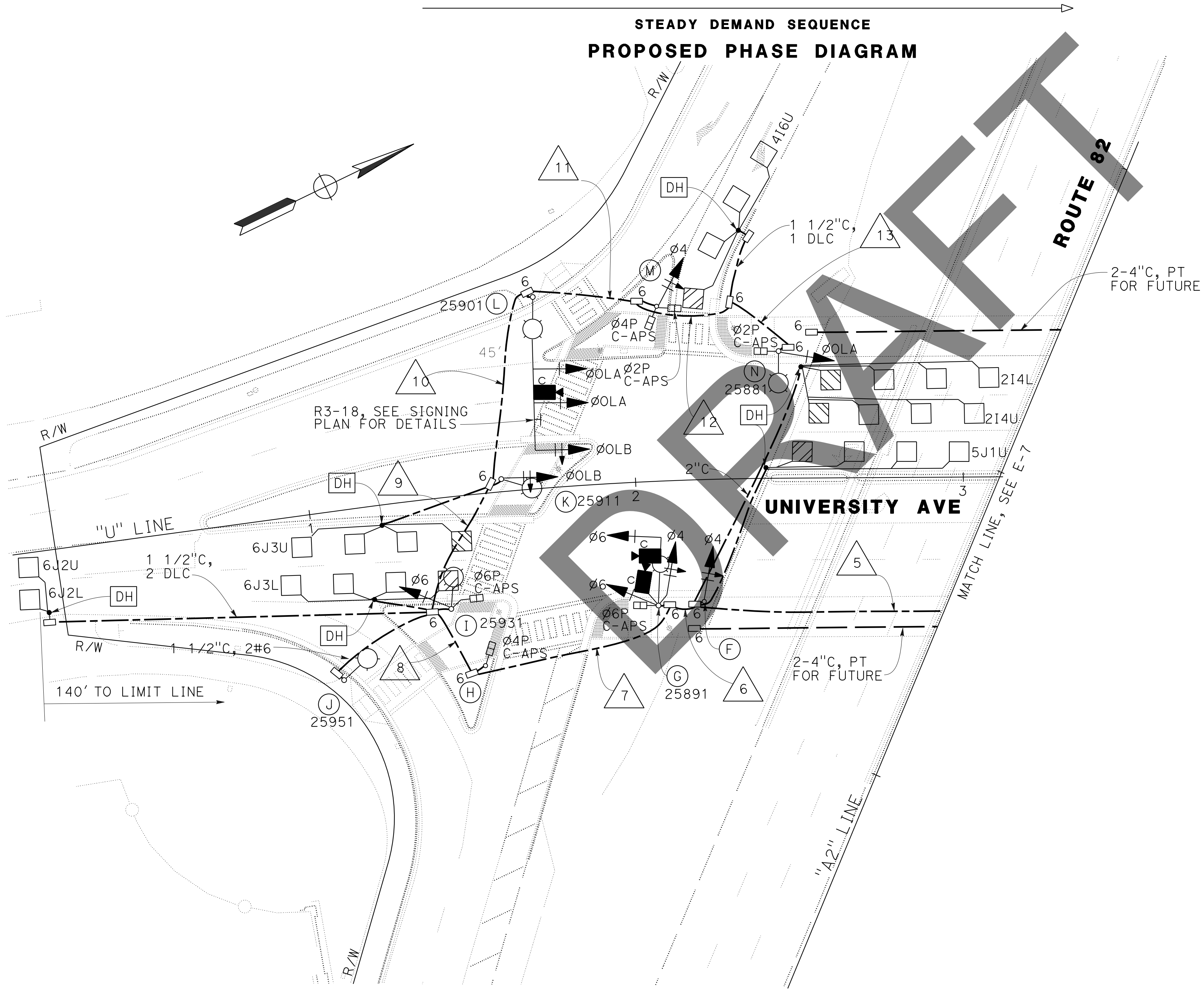
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X

REGISTERED ELECTRICAL ENGINEER DATE \_\_\_\_\_  
 PLANS APPROVAL DATE \_\_\_\_\_

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**LEGEND (FOR E-5 AND E-6 SHEET ONLY)**

CITY PROVIDED Iteris NEXT VIDEO DETECTION SYSTEM  
 CITY PROVIDED POLARA iDETECT INS TOUCHLESS APS

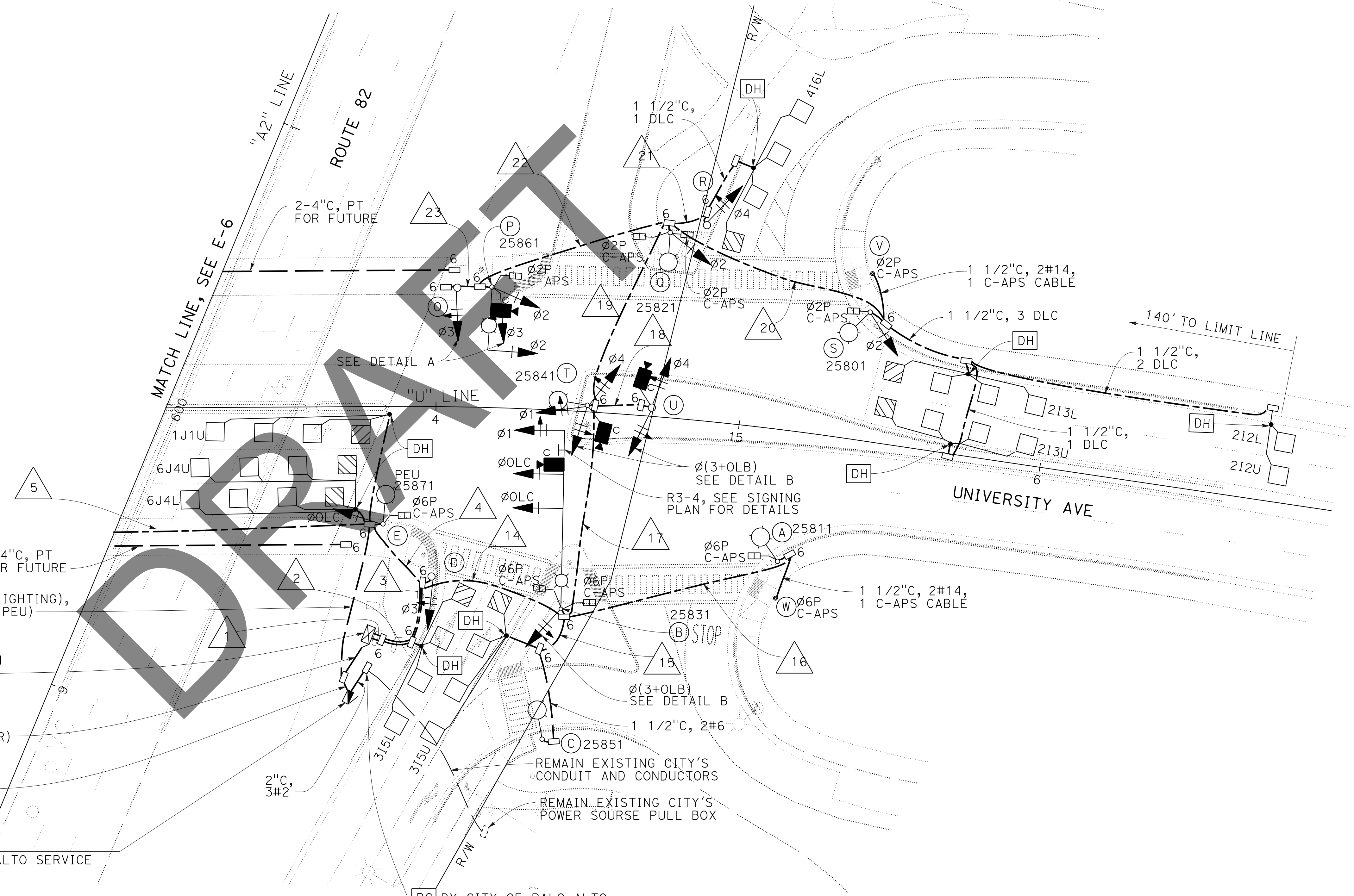
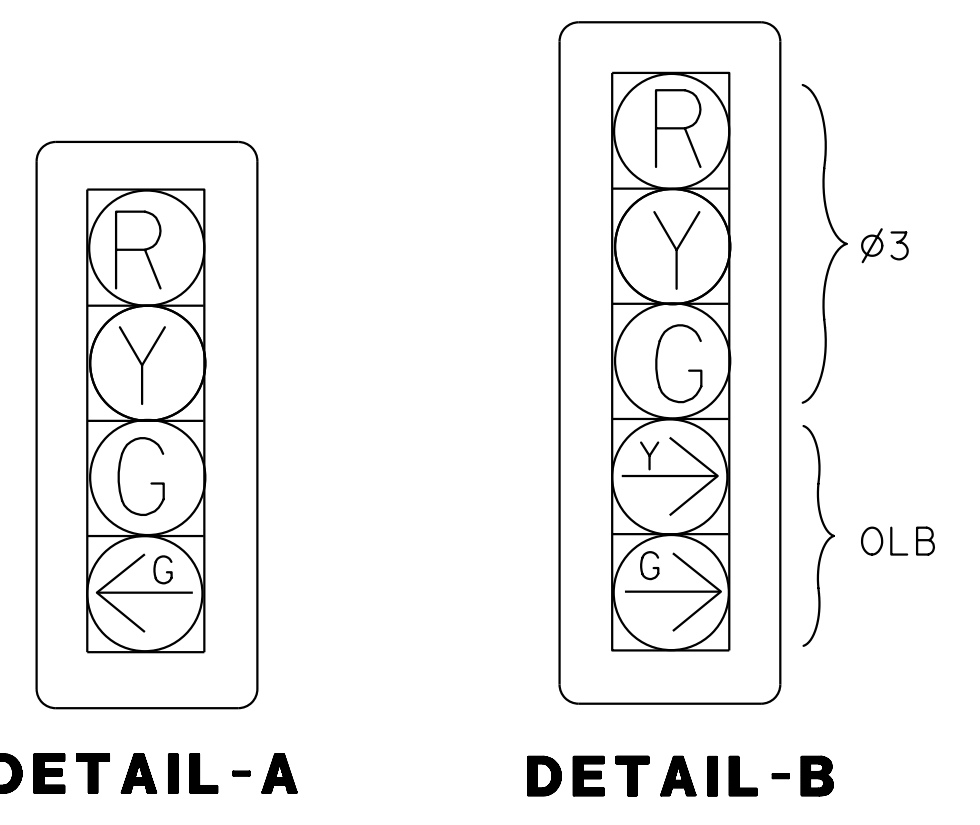
**MODIFYING SIGNAL AND LIGHTING SYSTEMS**

SCALE: 1" = 20'

**E-6**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X
REGISTERED ELECTRICAL ENGINEER			DATE		
PLANS APPROVAL DATE			No.		
			Exp.		
			ELECTRICAL		
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**NOTE:**  
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CITY OF PALO ALTO-FURNISHED MODEL 2070 CONTROLLER ASSEMBLY WITH BBS AND ONE SET OF VIDEO DETECTION SYSTEM, ONE WIRELESS MODEM IN A MODEL 332LS CABINET. DOOR SHALL FACE NORTH

2" C, 2#6 (120 V, CONTROLLER)  
2" C, 2#6 (120 V, CONTROLLER), 2#6 (240 V, LIGHTING), 3#14 (120 V, PEU)

**TYPE III-AF SERVICE EQUIPMENT ENCLOSURE**  
CTID 043708200025801, (120/240 V, TOU) CITY OF PALO ALTO SERVICE  
PROVIDE ITEMS ① TO ⑭ AND ⑰ PER SERVICE WIRING DIAGRAM ON SHEET ED-1. DOOR MUST FACE SOUTHEAST.

**NEW LOAD:**  
1000 W TRAFFIC SIGNALS  
15 - 165 W LED LUMINAIRES (ROADWAY 1)  
7 - 20 W VIDEO DETECTION CAMERA (CITY OF PALO ALTO)

BC BY CITY OF PALO ALTO.  
SC COVER MARKED AS "CALTRANS/CITY PALO ALTO"

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - **Caltrans** ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: KENNETH Y. XU  
CALCULATED/DESIGNED BY: CHECKED BY:  
DORIS YANG  
PARWIZ A. KHAZI  
REVISED BY: DATE REVISED:  
A

APPROVED FOR ELECTRICAL WORK ONLY

**MODIFYING SIGNAL AND LIGHTING SYSTEMS**

SCALE: 1" = 20'

**E-7**

DATE PLOTTED => 22-FEB-2023 TIME PLOTTED => 11:18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X

REGISTERED ELECTRICAL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

REGISTERED PROFESSIONAL ENGINEER  
 No. \_\_\_\_\_  
 Exp. \_\_\_\_\_  
 ELECTRICAL  
 STATE OF CALIFORNIA

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### CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION	No OF CONDUCTORS																						
	RUN NUMBER																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
No. 14 CONDUCTORS																							
Ø1	3	3	3										3			3							
Ø2	3	3	3										3			3			3	3		3	
Ø3	4	4	4										4			4			4			4	4
Ø4	3	3	3	3	3	3	3	3	3	3	3					3	3	3			3		
Ø6	3	3	3	3	3	3	3	3															
Ø0LA	3	3	3	3	3	3	3	3	3	3	3	3	3										
Ø0LB	3	3	3	3	3	3	3	3	3	3			3	3		3	3						
Ø0LC	3	3	3	3									3										
Ø(3+0LB)	5	5	5										5			5	5						
Ø2P	2	2	2	2	2	2	2	2	2	2	2	2	2			2	2			2	2		2
Ø4P	2	2	2	2	2	2	2	2	2	2	2	2											
Ø6P	2	2	2	2	2	2	2	2					2	2									
C-APS (Ø2P)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C-APS (Ø4P)	1	1	1	1	1	1	1	1	1	1	1	1											
C-APS (Ø6P)	1	1	1	1	1	1	1	1					1	1									
C-APS NEUTRAL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SPARE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
<b>TOTAL No. 14</b>	<b>43</b>	<b>43</b>	<b>43</b>	<b>28</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>13</b>	<b>13</b>	<b>31</b>	<b>7</b>	<b>10</b>	<b>28</b>	<b>15</b>	<b>17</b>	<b>10</b>	<b>7</b>	<b>14</b>	<b>8</b>	
No. 8 CONDUCTORS																							
GROUNDING COPPER CONDUCTOR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>TOTAL No. 8</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	
No. 6 CONDUCTORS																							
LIGHTING (240 V)				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CITY'S VIDEO DETECTION CABLE	7	7	7	3	3	3	1	1	1	1			4			3	1	1				1	

### CONDUCTOR SCHEDULE (CONTINUE)

CONDUCTOR DESIGNATION	No OF CONDUCTORS																						
	RUN NUMBER																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
DLC																							
1I1U	1	1	1	1																			
2I2U	1	1	1	1									1			1			1	1			
2I2L	1	1	1	1									1			1			1	1			
2I3U	1	1	1	1									1			1			1	1			
2I3L	1	1	1	1									1			1			1	1			
2I4U	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2I4L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3I5U	1	1	1																				
3I5L	1	1	1																				
4I6U	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4I6L	1	1	1																				
5J1U	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6J2U	1	1	1	1	1	1	1	1	1	1	1												
6J2L	1	1	1	1	1	1	1	1	1	1	1												
6J3U	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6J3L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6J4U	1	1	1	1																			
6J4L	1	1	1	1																			
<b>TOTAL DLC PER RUN</b>	<b>18</b>	<b>18</b>	<b>17</b>	<b>15</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>6</b>		<b>5</b>	<b>5</b>	<b>4</b>	<b>1</b>			
CONDUIT SIZE (INCHES)	2-42-42-42-32-3 3																						

## MODIFYING SIGNAL AND LIGHTING SYSTEMS (CONDUCTOR, POLE AND EQUIPMENT SCHEDULES)

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**E-8**

DATE PLOTTED => 22-FEB-2023  
 TIME PLOTTED => 11:54  
 LAST REVISION

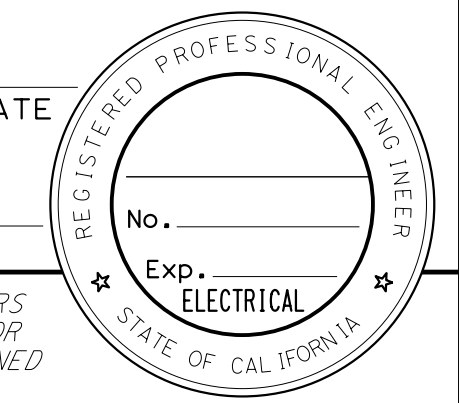
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X

REGISTERED ELECTRICAL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

No. \_\_\_\_\_  
Exp. \_\_\_\_\_

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### STANDARD AND EQUIPMENT SCHEDULE

LOCATION	STANDARD			Veh SIGNAL MOUNTING		Ped SIGNAL MOUNTING	TOUCHLESS C-APS		LED LUMINAIRE TYPE (ROADWAY)	CITY'S VIDEO DETECTION CAMERA	*SPECIAL REQUIREMENTS
	TYPE	SMA (ft)	LMA (ft)	MAST ARM	POLE		Ø	ARROW			
(A)	15TS		12'			SP-1	6	←	1		LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(B)	61-5-100	60'	12'	MAS MAS MAS	SV-1-T	SP-2	6 6	→ ←	1	1	LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(C)	15		12'						1		
(D)	1-A		12'		SV-1-T	SP-1	6	→	1		LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(E)	15TS		12'		SV-1-T	SP-1	6	→	1		LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(F)	1-A				TV-1						
(G)	19-4-100	20'	12'	MAS	SV-2-TA	SP-1	6	←	1	1	LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(H)	1-B				SV-1-T	SP-1	4	←			LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(I)	15TS		12'		SV-1-T	SP-1	6	→	1		LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(J)	15		12'						1		
(K)	15TS		12'		SV-1-T				1		
(L)	61-5-100	45'	12'	MAS MAS MAS					1	1	FOR ROADWAY SIGN, SEE SIGNING PLANS.
(M)	1-A				TV-1	SP-2	4 2	← →			LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(N)	15TS		12'		SV-1-T	SP-1	2	←	1		LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(O)	1-A				TV-1						
(P)	19-4-100	25'	12'	MAS	SV-2-TA	SP-1	2	→	1	1	LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(Q)	15TS		12'		SV-1-T	SP-2	2 2	← →	1		LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(R)	1-A				TV-1						
(S)	15TS		12'		SV-1-T	SP-1	2	←	1		LED COUNTDOWN PEDENSTIAN SIGNAL HEAD AND C-APS. FOR C-APS SIGN, SEE SIGNING PLANS.
(T)	15TS		12'		SV-3-TA				1	1	
(U)	15-FBS				TV-2-TA					1	
(V)	PBA POST						2	←			FOR C-APS SIGN, SEE SIGNING PLANS.
(W)	PBA POST						6	←			FOR C-APS SIGN, SEE SIGNING PLANS.

\*OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS, AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.

## MODIFYING SIGNAL AND LIGHTING SYSTEMS (CONDUCTOR, POLE AND EQUIPMENT SCHEDULES)

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E-9





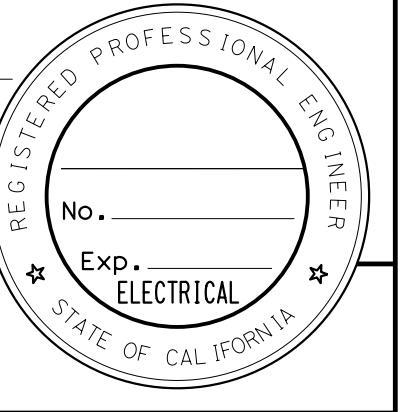
**NOTE:**  
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X

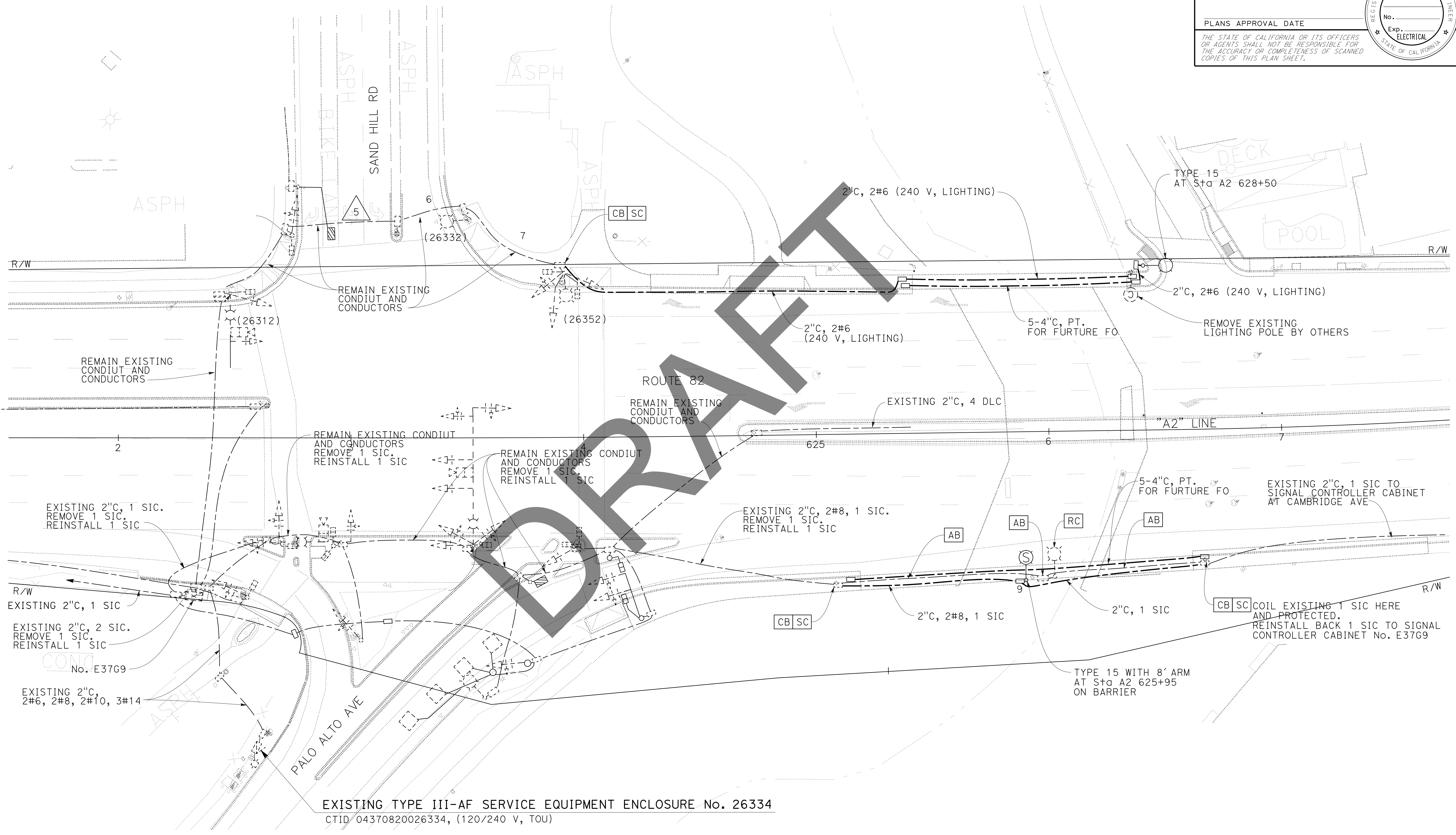
  

REGISTERED ELECTRICAL ENGINEER	DATE
PLANS APPROVAL DATE	

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ELECTRICAL DESIGN  
 FUNCTIONAL SUPERVISOR: KENNETH Y. XU  
 CALCULATED/DESIGNED BY: [Blank]  
 CHECKED BY: [Blank]  
 DORIS YANG  
 PARWIZ A. KHAZI  
 REVISED BY: [Blank] DATE REVISED: [Blank]  
 A A

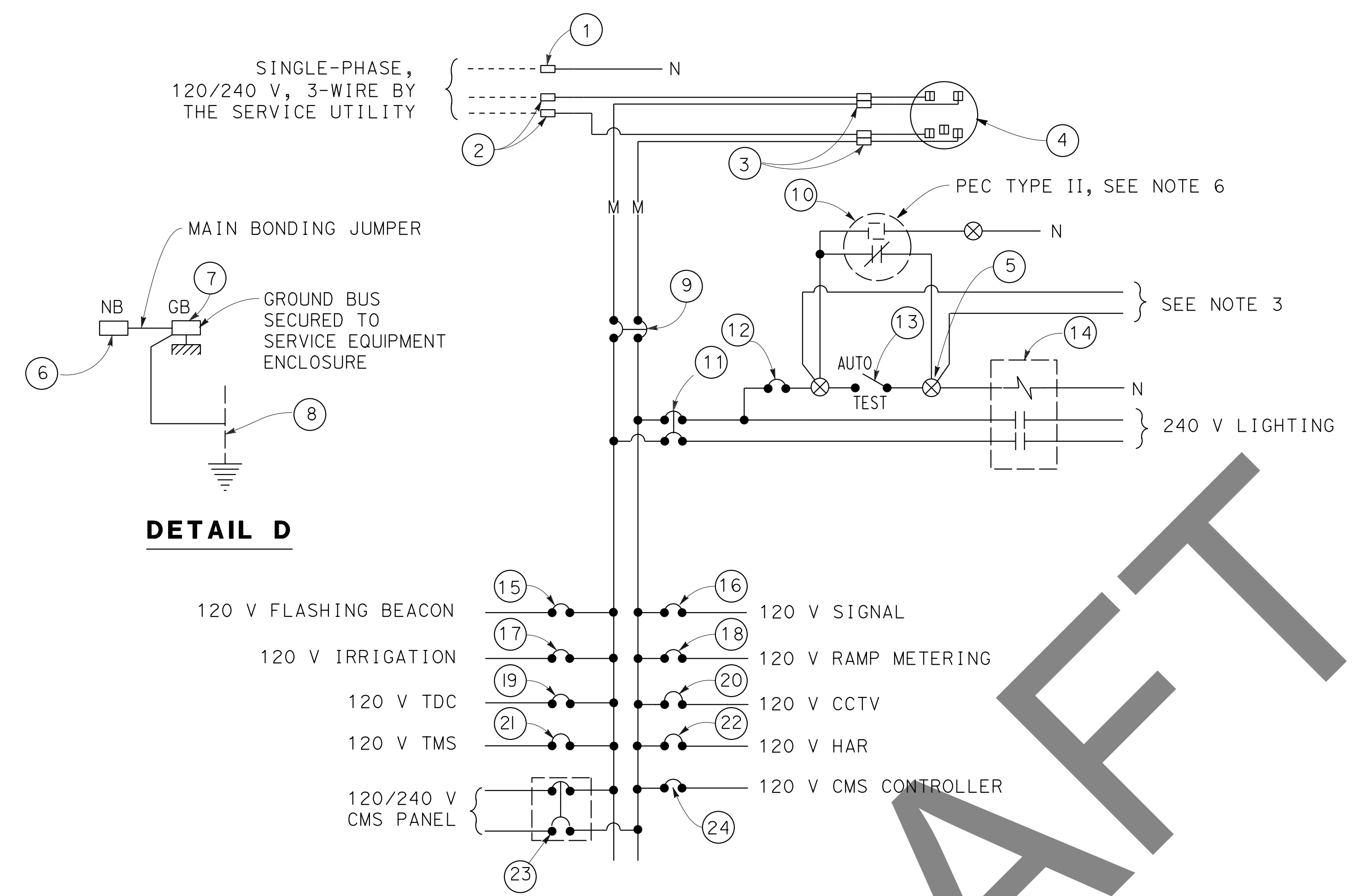


EXISTING TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 26334  
 CTID 04370820026334, (120/240 V, TOU)

**MODIFYING LIGHTING SYSTEMS**  
 SCALE: 1" = 50'  
**E-10**

APPROVED FOR ELECTRICAL WORK ONLY





**DETAIL D**

**120/240 V SERVICE WIRING DIAGRAM (TYPICAL)**

**DETAIL C**

**NOTES: (FOR THIS SHEET ONLY)**

- VOLTAGE RATINGS OF SERVICE EQUIPMENT MUST CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
- UNLESS OTHERWISE INDICATED ON THE PLANS, SERVICE EQUIPMENT ITEMS MUST BE PROVIDED FOR EACH SERVICE EQUIPMENT ENCLOSURE AS SHOWN.
- CONNECT TO REMOTE SWITCH MOUNTED ON SIGN POST OR STRUCTURE WHEN REQUIRED.
- METER SOCKETS MUST MEET SERVICE UTILITY REQUIREMENTS.
- THE LANDING LUG MUST BE SUITABLE FOR MULTIPLE CONDUCTORS.
- PHOTOELECTRIC CONTROL MUST BE TYPE II.
- SERVICE UTILITY WILL INSTALL THE TIME-OF-USE METER IF APPLICABLE.
- UNLESS OTHERWISE NOTED, THE MAXIMUM NUMBER OF SINGLE-POLE CIRCUIT BREAKER SPACES IN THE ENCLOSURE IS FOURTEEN.
- SEE STANDARD PLANS ES-2D FOR OTHER DETAILS.

**TYPE III-A SERVICE EQUIPMENT ENCLOSURE LEGEND (120/240 V)**

ITEM No.	COMPONENT	NAMEPLATE DESCRIPTION	ITEM No.	COMPONENT	NAMEPLATE DESCRIPTION
①	NEUTRAL LUG		⑮	15 A, 120 V, 1P, CB	FLASHING BEACON
②	LANDING LUG		⑯	50 A, 120 V, 1P, CB	SIGNALS
③	TEST BYPASS FACILITY		⑰	20 A, 120 V, 1P, CB	IRRIGATION
④	METER SOCKET AND SUPPORT		⑱	30 A, 120 V, 1P, CB	RAMP METERING
⑤	TERMINAL BLOCK		⑲	20 A, 120 V, 1P, CB	TELEPHONE DEMARCATION CABINET
⑥	NEUTRAL BUS		⑳	30 A, 120 V, 1P, CB	CCTV
⑦	GROUND BUS		㉑	30 A, 120 V, 1P, CB	TMS
⑧	GROUNDING ELECTRODE		㉒	30 A, 120 V, 1P, CB	HAR
⑨	100 A, 240 V, 2P, CB	MAIN BREAKER	㉓	30 A, 240 V, 2P, CB	CMS PANEL
⑩	PHOTOELECTRIC UNIT (NOTE 6)		㉔	30 A, 120 V, 1P, CB	CMS CONTROLLER
⑪	30 A, 240 V, 2P, CB	LIGHTING			
⑫	15 A, 120 V, 1P, CB	LIGHTING CONTROL			
⑬	15 A, 120 V, 1P, TEST SWITCH	TEST SWITCH			
⑭	60 A, 2P, NO CONTACTOR				

**ELECTRICAL SYSTEMS DETAILS**  
**(SERVICE EQUIPMENT ENCLOSURE AND TYPICAL WIRING DIAGRAM, TYPE III-A SERIES)**

NO SCALE

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**ED-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: KENNETH Y. XU

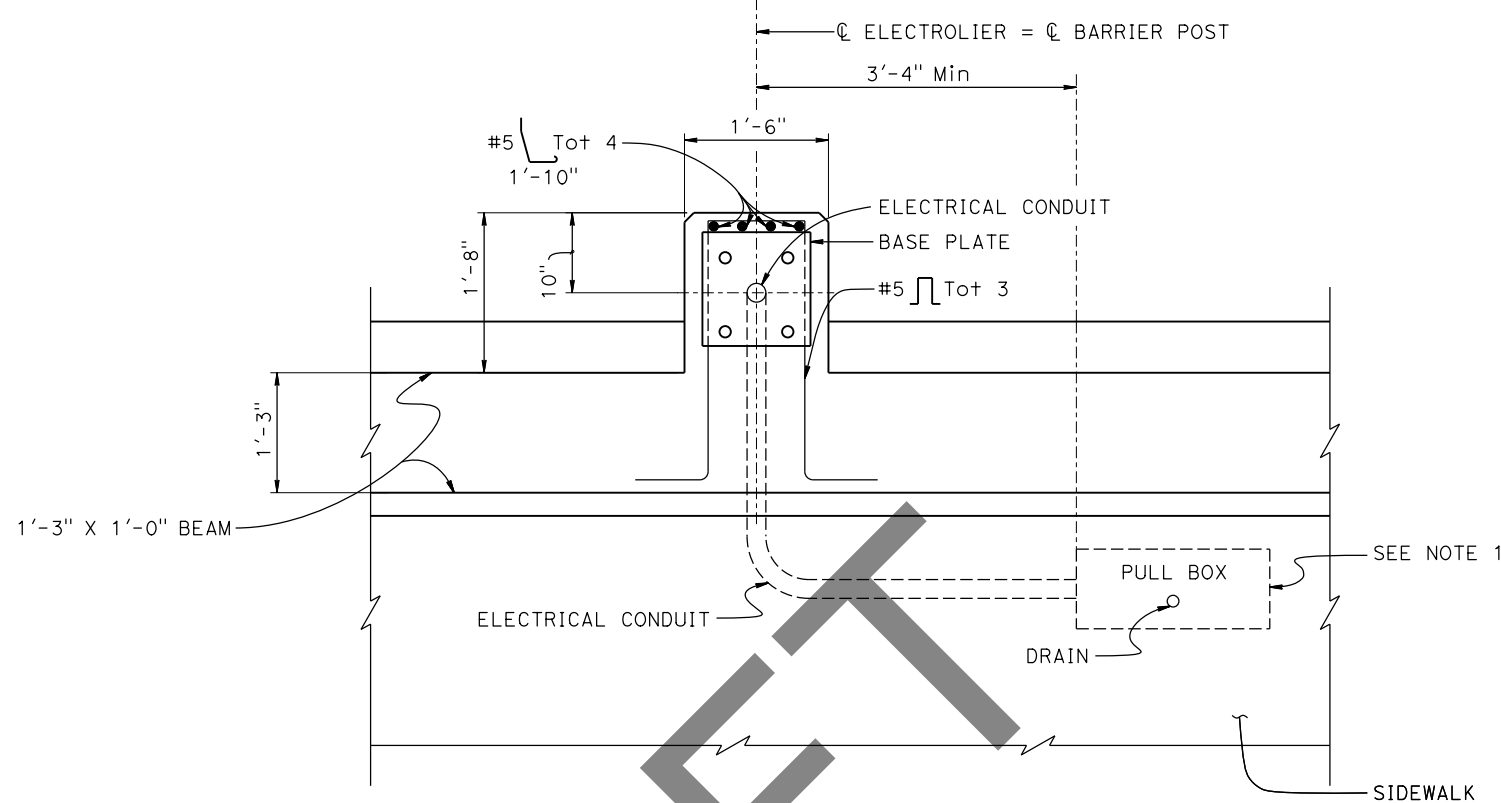
DESIGNED BY: DORIS YANG

CHECKED BY: PARWIZ A. KHAZI

REVISIONS:

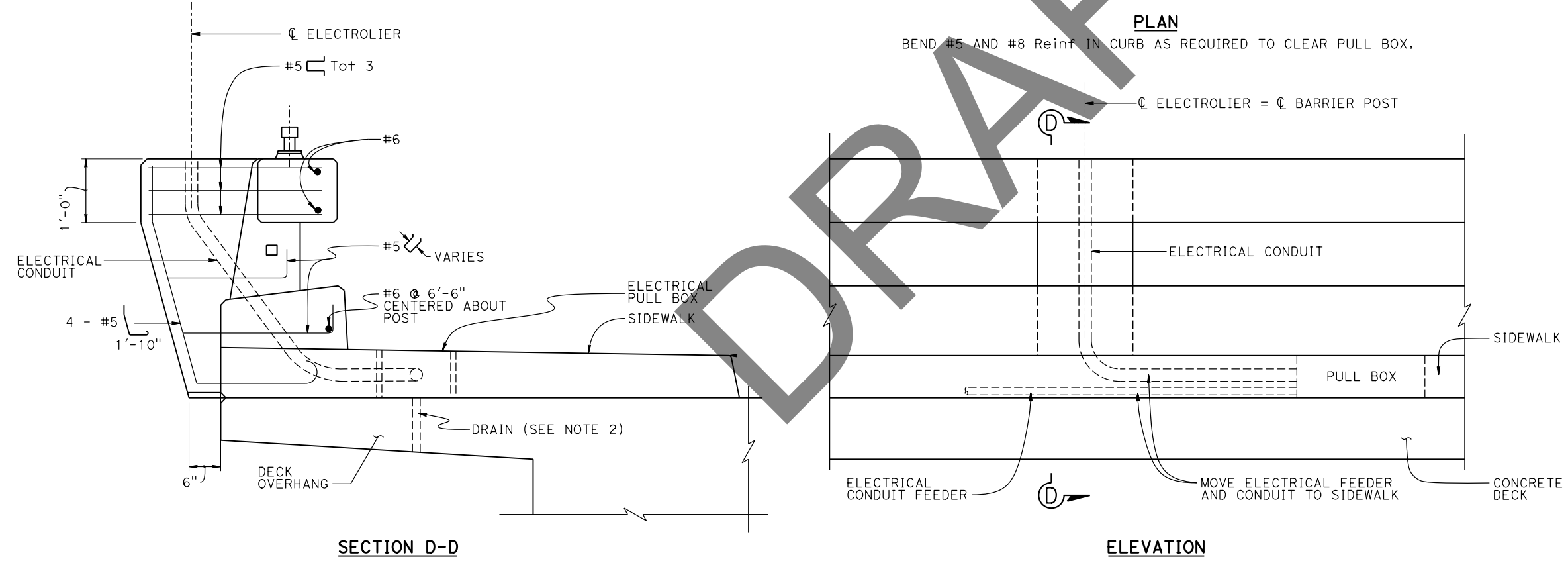
NO.	DATE	DESCRIPTION

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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- ELECTROLIER NOTES:
1. See Project Plans for electrolier and pull box locations.
  2. For electrical details, see Standard Plans ES-9A, ES-9B, ES-9C, ES-9D, and ES-9E.
  3. Only the additional reinforcing for the electrolier pedestal is shown. For other typical reinforcing for Type 85SW Barrier, see Bridge Standard Detail Sheet XS16-118-1.
  4. For electrolier mounting details, see Standard Plans ES-6A and ES-6B.

**PLAN**  
BEND #5 AND #8 Reinf IN CURB AS REQUIRED TO CLEAR PULL BOX.



**BARRIER MODIFICATION FOR ELECTROLIER**  
SEE NOTE 4

NO SCALE

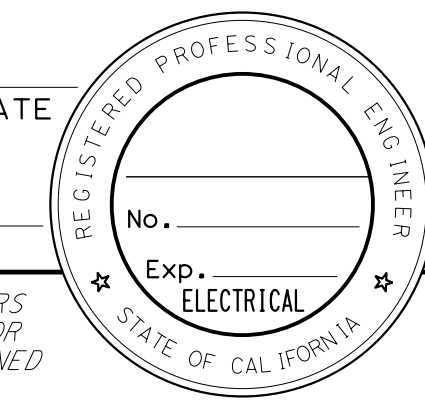
X BRANCH CHIEF	DESIGN	BY J.WOODY	CHECKED X	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF ENGINEERING SERVICES</b> <b>OFFICE OF DESIGN AND TECHNICAL SERVICES</b> <b>SPECIAL DESIGNS BRANCH B</b>	BRIDGE No.	<b>CONCRETE BARRIER TYPE 85SW</b> <b>ELECTROLIER SUPPORT</b>	<b>SES-1</b>	
	DETAILS	BY S.DORAISWAMY	CHECKED X			XX-XXXX			
	QUANTITIES	BY X	CHECKED X			POST MILE 11.38/26.36			
STRUCTURES DESIGN SPECIAL DESIGN SHEET (ENGLISH) (REV. 3/10/2021)		DATE PLOTTED => 1-SEP-2022	TIME PLOTTED => 14:17	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3619	COUNTY/ROUTE: SCL/082	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 1 OF 1
		FILE => 0418000032up001.dgn	USERNAME => s156400		PROJECT NUMBER & PHASE: 04180000321	CONTRACT No.: 04-0P9804		08/14/22 08/22/22 08/23/22 09/01/22	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	082	Var		X

REGISTERED ELECTRICAL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



### MODIFYING LIGHTING SYSTEMS

SHEET No.	CONDUIT		#6 CONDUCTOR	STANDARD		STANDARD FOUNDATION	PULL BOX	
	2"	4"		TYPE 15	TYPE 21		#5	#9
	FT		FT	EA				
E-1		200					2	
E-10	450	1500	1000	1	1	2	7	1

(N) NOT A SEPERSTE BID ITEM

### PEDESITRAIN HYBRID BEACON SYSTEMS

SHEET No.	CONDUIT		PULL BOX		CONDUCTOR								TYPE A LOOP DETECTOR	DETECTOR HANDHOLE	TYPE III-A SERVICE ENCLOSURE	CONTROLLER ASSEMBLY	STANDARD				SIGNAL HEAD	TOUCHLESS APS	
	1 1/2"	2"	3"	4"	#5	#6	#6	#8 (BARE)	#8	#14	DLC	SIC					TYPE 24-4-100	TYPE 15TS	TYPE 1-A	PBA POST			
	FT				EA		FT										EA						
E-2	60	1000	400	400	16	6	1600	800	800	2500	1500	500	6	4	1	1	2	2	1	1	6	2	
E-4		800			2							800											

(N) NOT A SEPERSTE BID ITEM

### MODIFYING SIGNAL AND LIGHTING SYSTEMS

SHEET No.	CONDUIT				PULL BOX		CONDUCTOR							TYPE A LOOP DETECTOR	TYPE D LOOP DETECTOR	DETECTOR HANDHOLE	TYPE III-A SERVICE ENCLOSURE	CONTROLLER ASSEMBLY	PBA POST	TOUCHLESS C-APS	SIGNAL HEAD
	1 1/2"	2"	3"	4"	#5	#6	-	#6	#8 (BARE)	#8	#14	DLC									
	FT				EA		FT														
E-6	400	50	400	320	3	11		1500	1100	1100	9000	2400	20	6	6					6	11
E-7	160	50	950	300	6	16		2000	1100	1100	10000	2600	26	8	8	1	1	2	10	18	

### MODIFYING SIGNAL AND LIGHTING SYSTEMS (CONTINUES)

SHEET No.	STANDARD				
	TYPE 1-A	TYPE 15	TYPE 15TS	TYPE 19-4-100	TYPE 61-5-100
	EA				
E-6	3	1	3	1	1
E-7	4	1	5	1	1

(N) NOT A SEPERSTE BID ITEM

### VIDEO DETECTION SYSTEMS (CITY OF PALO ALTO)

SHEET No.	VIDEO DETECTION CONTROL UNIT	VIDEO DETECTION CAMERA	VIDEO DETECTION CAMERA CABLE
	EA	EA	FT
E-6		3	1000
E-7	1	4	1100

NOT BID ITEM. PAY BY CITY

ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS. SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.

## ELECTRICAL SYSTEMS QUANTITIES

NO SCALE

### EQ-1

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: KENNETH Y. XU

CALCULATED/DESIGNED BY: DORIS YANG

CHECKED BY: PARWIZ A. KHAZI

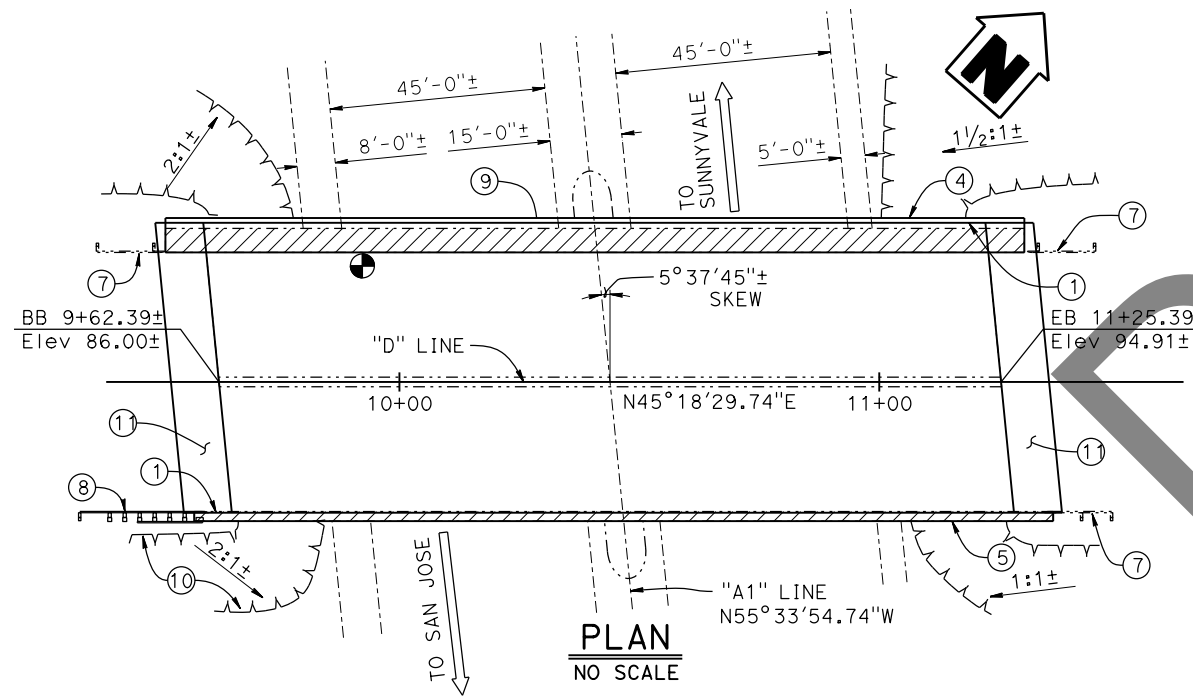
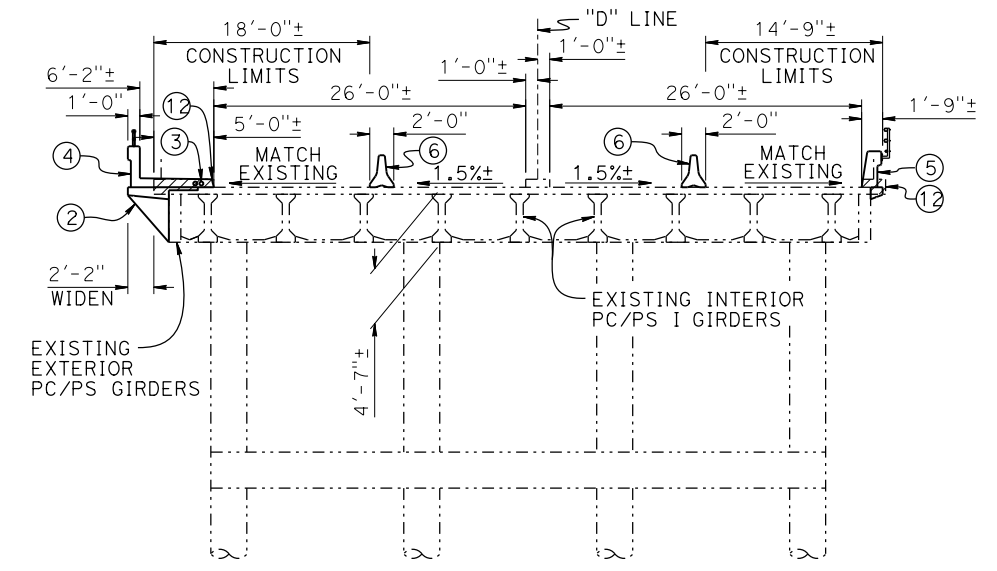
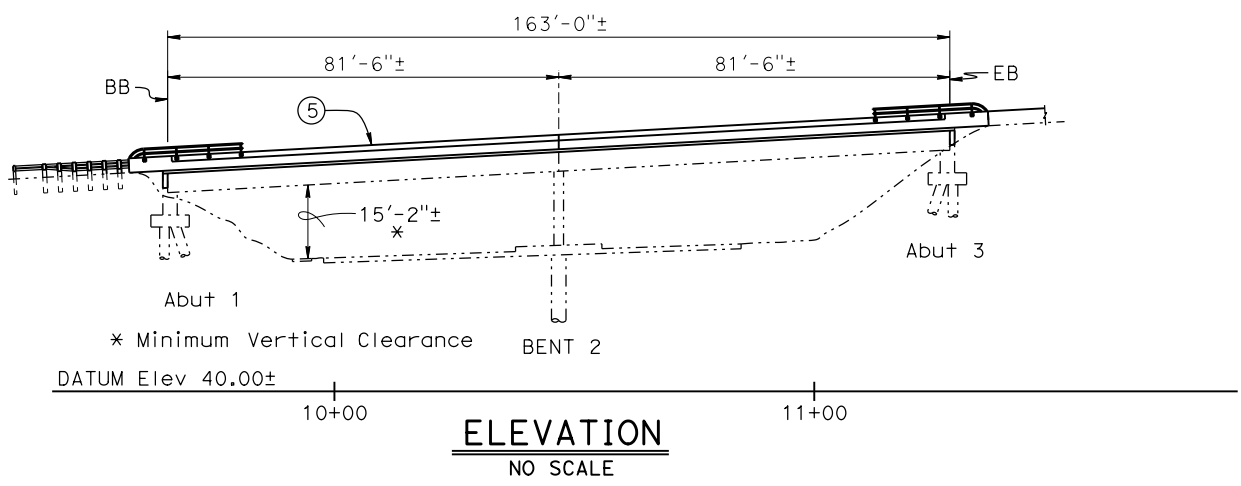
REVISOR: A

DATE REVISED: A

DATE PLOTTED => 22-FEB-2023 TIME PLOTTED => 12:11

# DRAFT SPS&E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
				X	
REGISTERED CIVIL ENGINEER				DATE	
				X	
				REGISTERED PROFESSIONAL ENGINEER	
				Justin Woody	
				No. 92764	
				Exp. 12-31-23	
				CIVIL	
				STATE OF CALIFORNIA	
PLANS APPROVAL DATE _____					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



- NOTES:**
- ① PAINT "DE LA CRUZ BLVD OC BRIDGE No. 37-0214" 1961
  - ② SUPPORT CORBEL, Tot 7 PER SPAN
  - ③ UTILITY OPENINGS, SEE ROADWAY PLANS
  - ④ CONCRETE BARRIER (TYPE 732SW Mod) WITH TUBULAR HANDRAILING
  - ⑤ CONCRETE BARRIER (TYPE 836 Mod) WITH TUBULAR BICYCLE RAILING
  - ⑥ TEMPORARY CONCRETE BARRIER (TYPE K), SEE ROADWAY PLANS
  - ⑦ EXISTING MGS, SEE ROADWAY PLANS
  - ⑧ MGS, SEE ROADWAY PLANS
  - ⑨ BRIDGE MOUNTED SIGN, SEE ROADWAY PLANS
  - ⑩ TOP OF SLOPE OR TOE OF SLOPE, Typ
  - ⑪ STRUCTURE APPROACH SLAB (TYPE R(10) Mod)
  - ⑫ EXISTING BARRIER RAILING AND CURB TO BE REMOVED

- LEGEND:**
- Existing Structure
  - ▨ Limits of Bridge Removal (Portion)
  - Point of Minimum Vertical Clearance
- NOTE:**  
For "INDEX TO PLANS", "STANDARD PLANS", and "GENERAL NOTES", see "INDEX TO PLANS" sheet.

**NOTE:**  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

X BRANCH CHIEF	DESIGN	BY Jackie Koyama	CHECKED Justin Woody	SEISMIC ANALYSIS	BY N/A	CHECKED N/A	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF ENGINEERING SERVICES</b> BRIDGE DESIGN <b>BRANCH 3</b>	BRIDGE No.	<b>DE LA CRUZ BLVD OC (WIDEN)</b>							
	DETAILS	BY Jay Reid	CHECKED Justin Woody	LAYOUT	BY Jackie Koyama	CHECKED Justin Woody			37-0214	<b>GENERAL PLAN</b>							
	QUANTITIES	BY Alireza Yazdani-Motlagh	CHECKED Jackie Koyama	SPECIFICATIONS	BY X	PLANS AND SPECS COMPARED X			11.38								
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REVISION 2/8/2022)		DATE PLOTTED => 16-FEB-2023		TIME PLOTTED => 15:48		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3578		COUNTY/ROUTE: SCL/82		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF	
		FILE => 00_37-0214_allplans_delacruz.dgn		USERNAME => s136693				PROJECT NUMBER & PHASE: 04180000321		CONTRACT No.: 04-0P9804				1-1-22 11-1-22 12-15-22 2-16-23		1 10	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

X  
REGISTERED CIVIL ENGINEER DATE

Justin Woody  
No. 92764  
Exp. 12-31-23  
CIVIL  
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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## GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:  
AASHTO LRFD Bridge Design Specifications,  
2017 edition with California Amendments,  
preface dated April 2019

STANDARD PLANS:  
2022 Standard Plans and Revised Standard Plans

LIVE LOADING:  
HL93 and permit design load

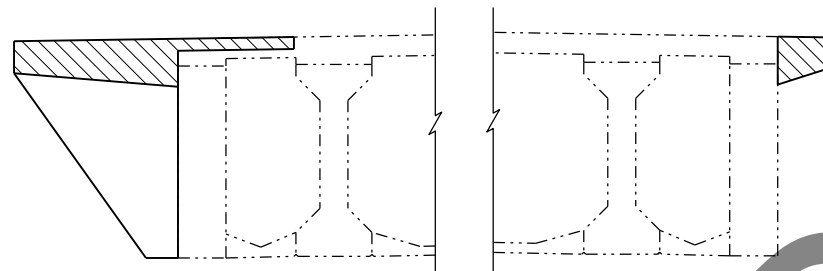
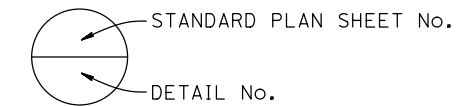
REINFORCED CONCRETE:  
f<sub>y</sub> = 60 ksi  
f'c = 3.6 ksi  
n = 8

JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (inches)
De La Cruz Blvd OC	37-0214	Abut 1	BB	1 *	61	YES	N/A
		Abut 3	EB	1 *	61	YES	N/A

LEGEND:  
BB = Beginning of bridge  
EB = End of bridge  
\* = Joint Seal (Type B)

## INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	FOUNDATION PLAN
4	TYPICAL SECTION
5	SUPPORT CORBEL DETAILS
6	STRUCTURE APPROACH DETAILS
7	REMOVAL DETAILS
8	CONCRETE BARRIER TYPE 80, 732 & 736
9	TUBULAR BICYCLE RAILING DETAILS
10	CONCRETE BARRIER TYPE 836/842 RETROFIT
	JOINT ARMOR FOR PEDESTRIAN WALKWAYS



LEGEND:  
 - - - - Existing Structure  
 ▨ Structural Concrete, Bridge (Polymer Fiber) (4 ksi at 28 days)  
 □ Structural Concrete, Bridge

## CONCRETE STRENGTH AND TYPE LIMITS

1/2" = 1'-0"

DRAFT

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN BY Jackie Koyama CHECKED Justin Woody DETAILS BY Jay Reid CHECKED Justin Woody QUANTITIES BY Alireza Yazdani-Motlagh CHECKED Jackie Koyama	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>BRIDGE DESIGN</b> <b>BRANCH 3</b>	BRIDGE No. 37-0214 POST MILE 11.38	<b>DE LA CRUZ BLVD OC (WIDEN)</b> <b>INDEX TO PLANS</b>	
	DATE PLOTTED => 16-FEB-2023 FILE => 00_37-0214_allplans_delacruz.dgn	TIME PLOTTED => 15:48 USERNAME => s136693	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804
	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 9-28-22 2-13-23 11-1-22 12-16-22	SHEET OF 2 10	

CURVE DATA				
No.	R	Δ	T	L
①	430.00'	64°33'40"	271.63'	484.53'
②	1000.00'	06°50'37"	59.79'	119.44'

**SOFFIT ELEVATIONS**

1	- 76.91
2	- 78.93
3	- 81.34
4	- 82.59
5	- 84.93

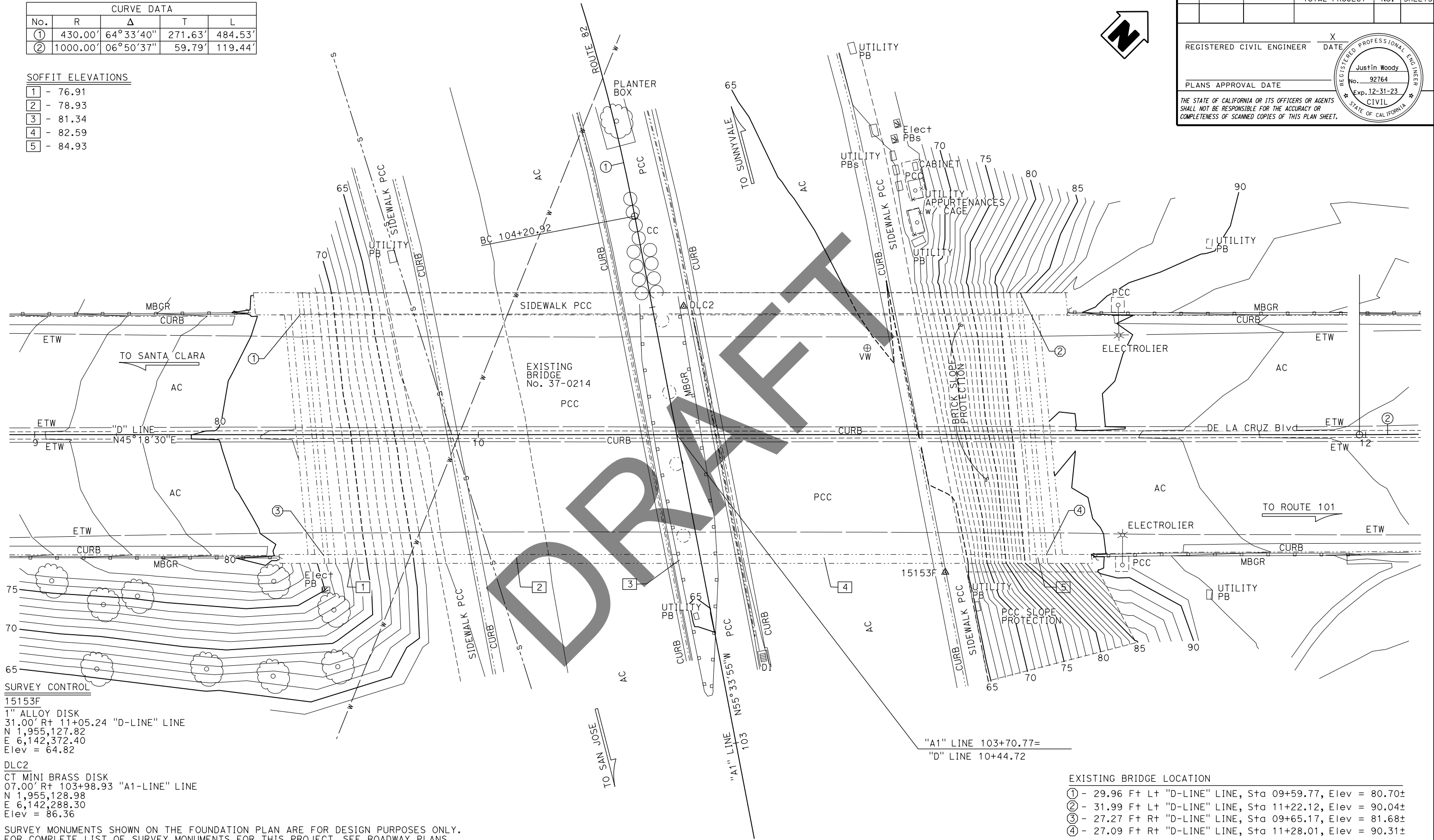
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER X DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

Justin Woody  
No. 92764  
Exp. 12-31-23  
CIVIL  
STATE OF CALIFORNIA

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**SURVEY CONTROL**  
15153F  
1" ALLOY DISK  
31.00' R+ 11+05.24 "D-LINE" LINE  
N 1,955,127.82  
E 6,142,372.40  
Elev = 64.82

**DLC2**  
CT MINI BRASS DISK  
07.00' R+ 103+98.93 "A1-LINE" LINE  
N 1,955,128.98  
E 6,142,288.30  
Elev = 86.36

**EXISTING BRIDGE LOCATION**

- ① - 29.96 F+ L+ "D-LINE" LINE, Sta 09+59.77, Elev = 80.70±
- ② - 31.99 F+ L+ "D-LINE" LINE, Sta 11+22.12, Elev = 90.04±
- ③ - 27.27 F+ R+ "D-LINE" LINE, Sta 09+65.17, Elev = 81.68±
- ④ - 27.09 F+ R+ "D-LINE" LINE, Sta 11+28.01, Elev = 90.31±

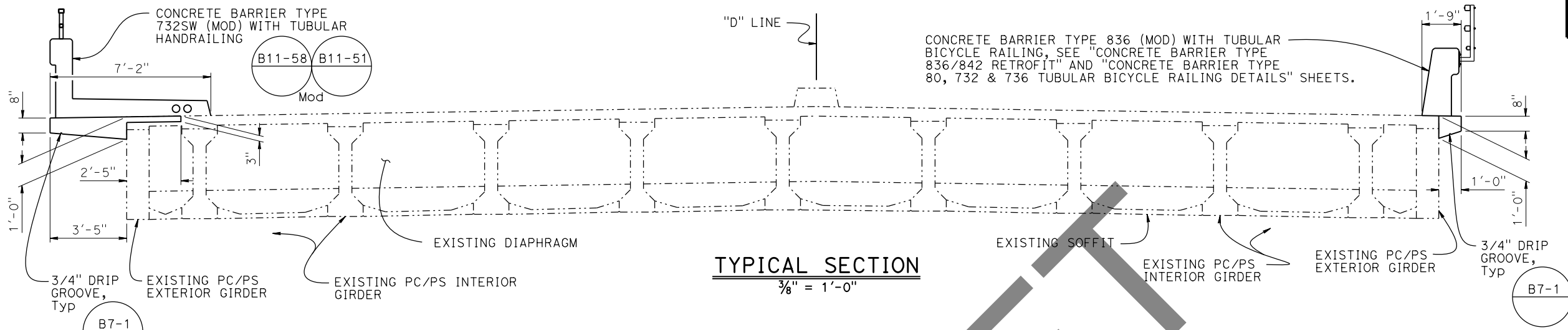
PRELIMINARY INVESTIGATIONS BRANCH				DESIGN	BY Jackie Koyama	CHECKED Justin Woody	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	DE LA CRUZ BLVD OC (WIDEN)			
SCALE:	VERT. DATUM: NAVD88	SURVEYED BY	DISTRICT	DETAILS	BY Jay Reid	CHECKED Justin Woody			37-0214	FOUNDATION PLAN		POST MILE	
1" = 10'	HORIZ. DATUM: NAD83 (1991.35)	DRAFTED BY	T. ZOLNIKOV	QUANTITIES	BY Alireza Yazdani-Motlagh	CHECKED Jackie Koyama			11.38			REVISION DATES	SHEET OF
												08/03/22	3 19

STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REVISION 4/21/2021)

DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 15:48 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3646 PROJECT NUMBER & PHASE: 04180000321 COUNTY/ROUTE: SCI/082 CONTRACT No.: 04-0P9804 DISREGARD PRINTS BEARING EARLIER REVISION DATES

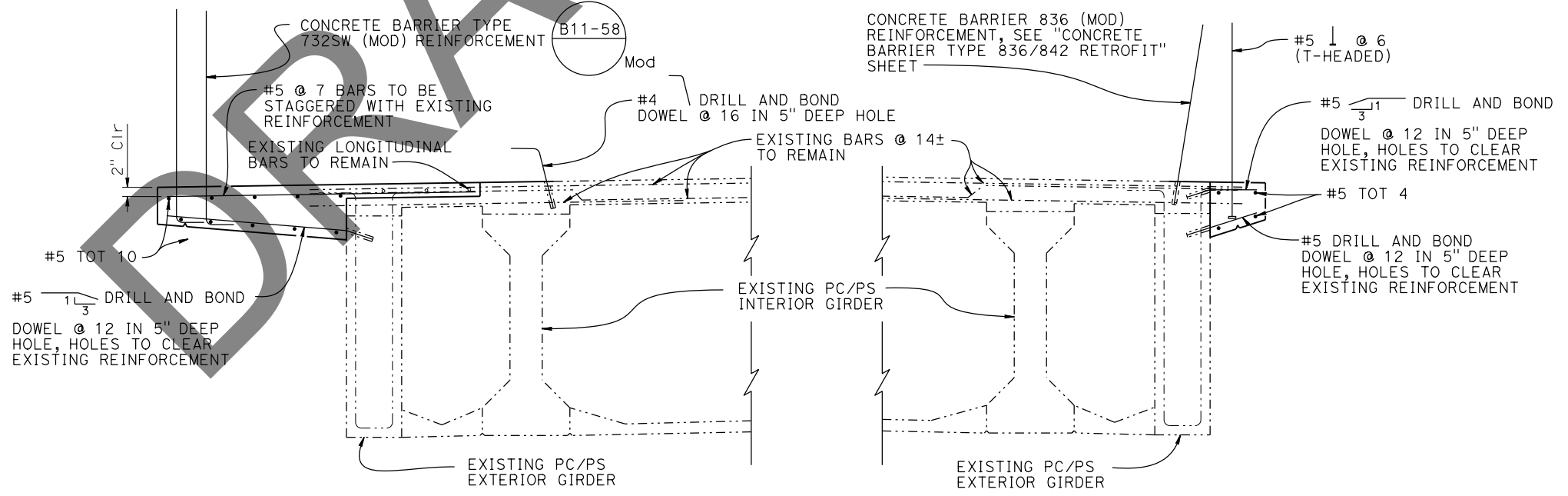
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



**TYPICAL SECTION**  
3/8" = 1'-0"

**LEGEND:**  
 ----- Existing Structure

**NOTE:**  
 Contractor to verify prestress path. Avoid existing reinforcement and prestressing when drilling



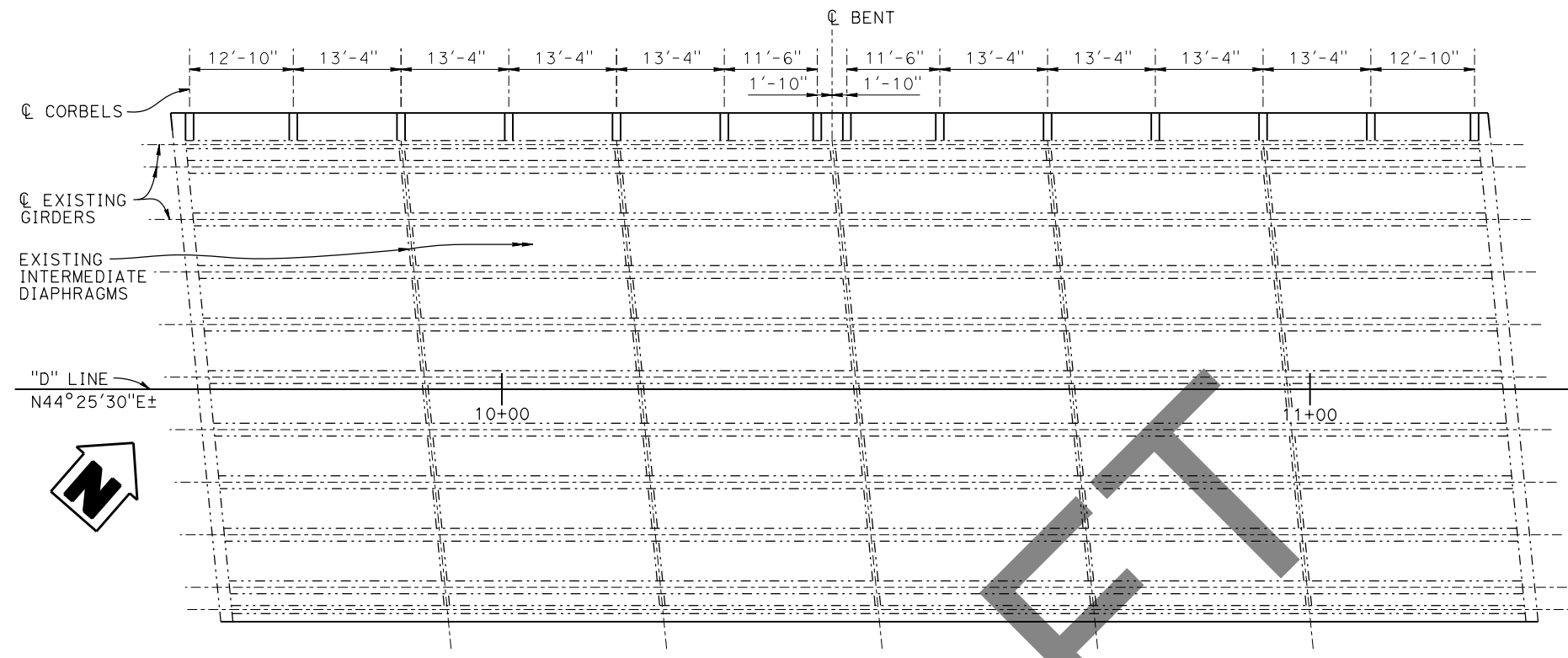
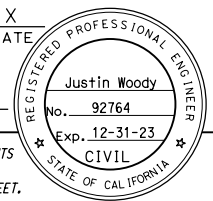
**PART TYPICAL SECTION**  
3/4" = 1'-0"

**NOTE:**  
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DESIGN BY Jackie Koyama CHECKED Justin Woody DETAILS BY Jay Reid CHECKED Justin Woody QUANTITIES BY Alireza Yazdani-Motlagh CHECKED Jackie Koyama	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No. 37-0214 POST MILE 11.38	<b>DE LA CRUZ BLVD OC (WIDEN)</b> <b>TYPICAL SECTION</b>	
	DATE PLOTTED => 16-FEB-2023 FILE => 00_37-0214_allplans_delacruz.dgn	TIME PLOTTED => 15:48 USERNAME => s136693	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804
	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 9-28-22 2-13-23 11-1-22 12-14-22	SHEET OF 4 10	

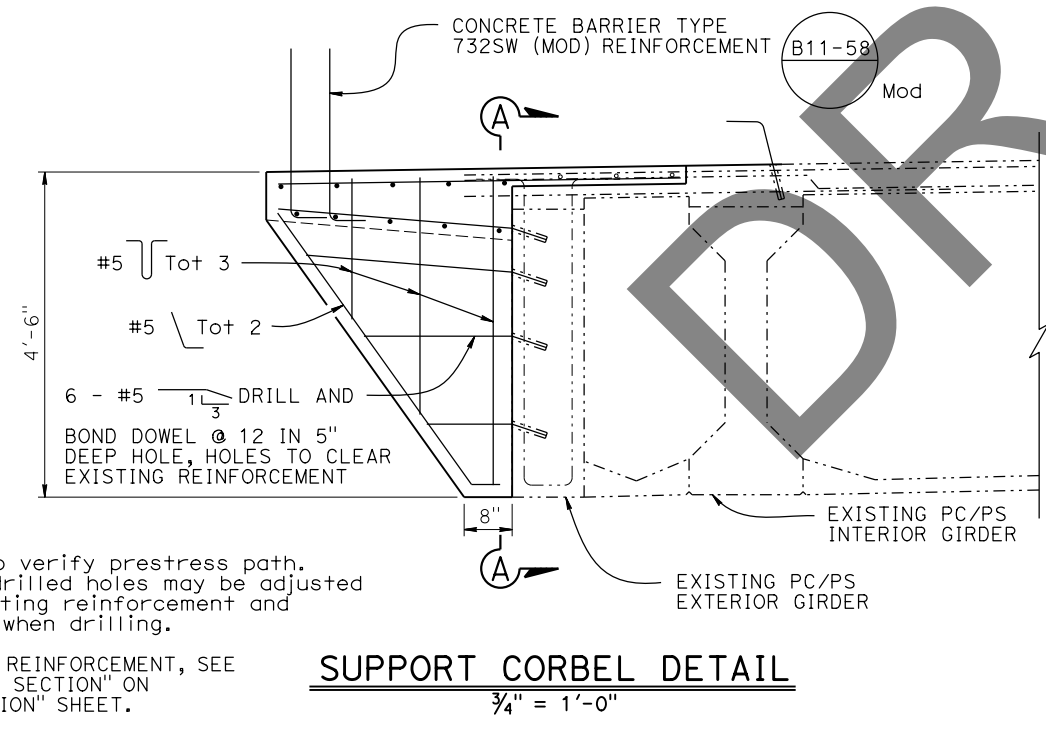


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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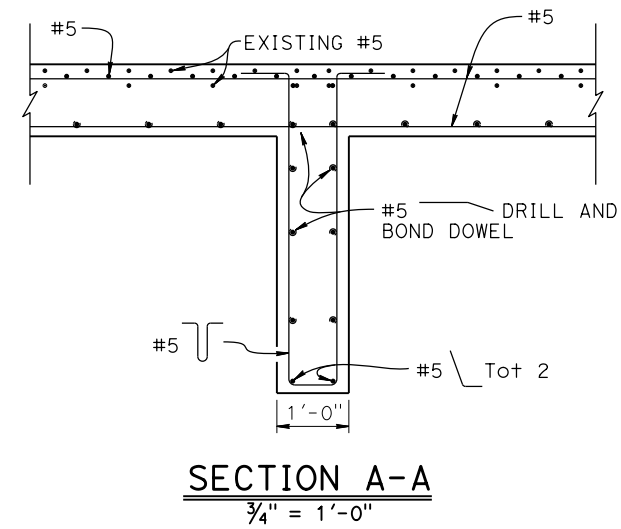


**CORBEL LAYOUT**  
1" = 10'

LEGEND:  
----- Existing Structure



**SUPPORT CORBEL DETAIL**  
3/4" = 1'-0"



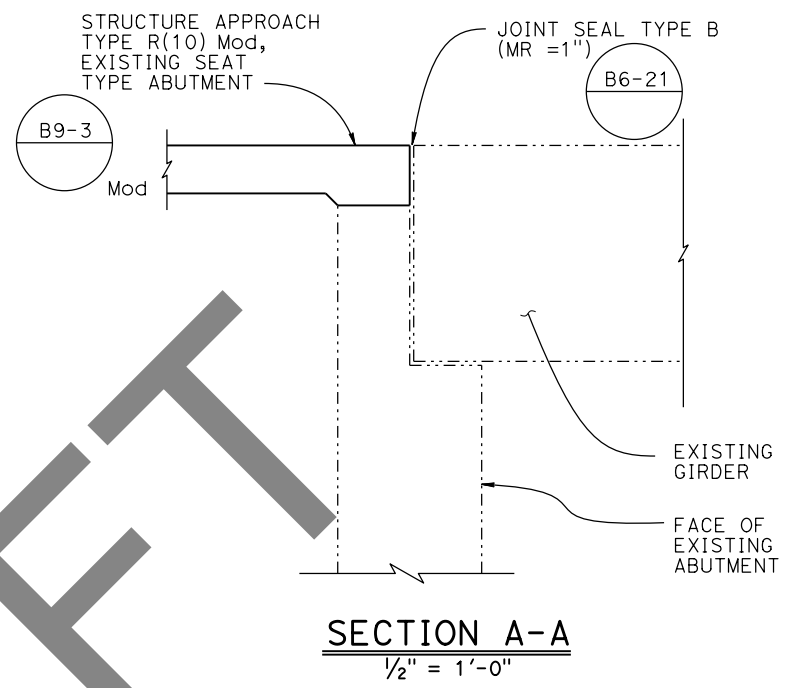
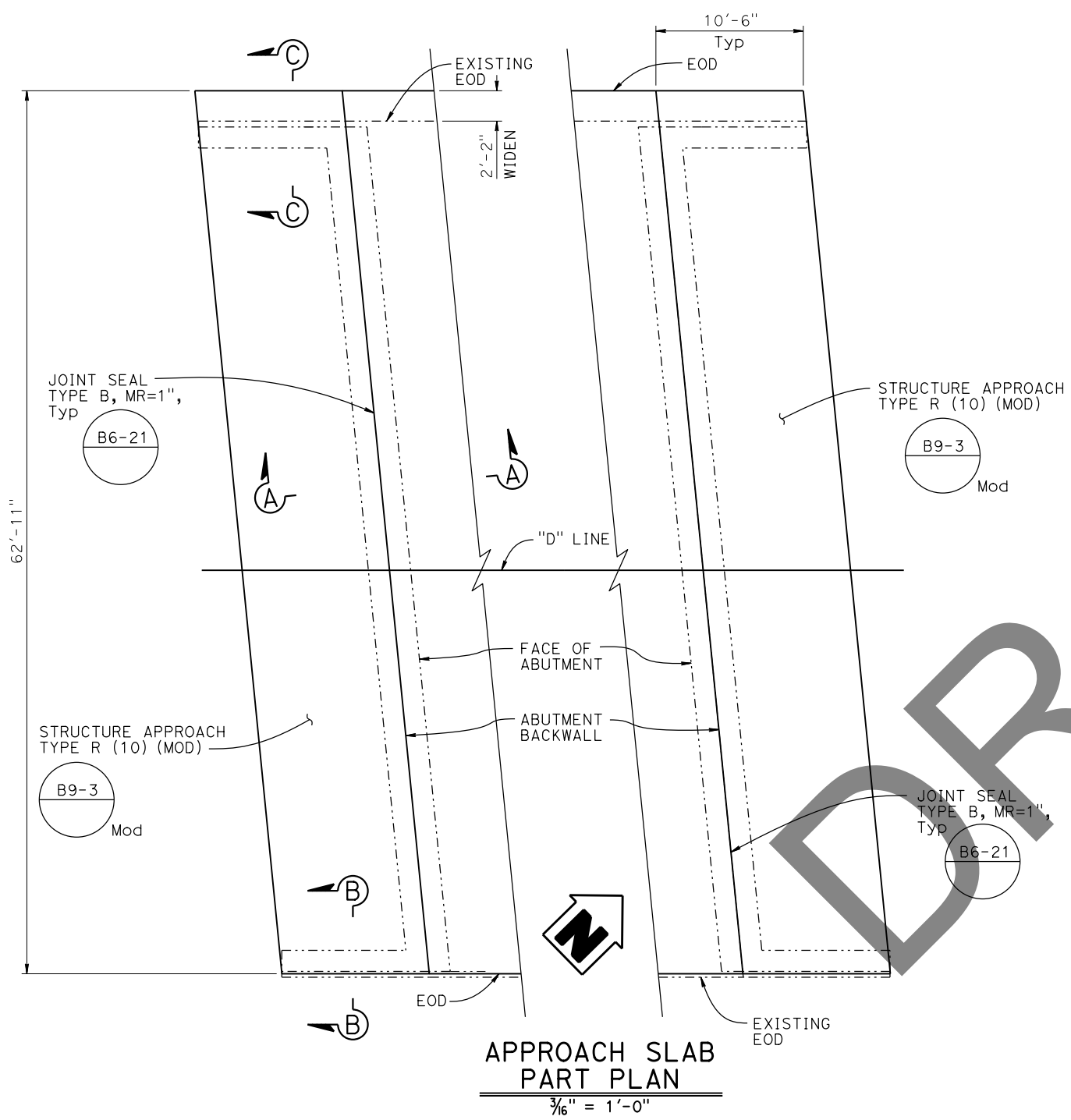
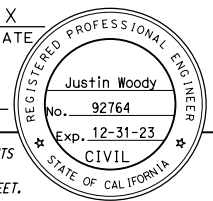
**SECTION A-A**  
3/4" = 1'-0"

- NOTES:
- Contractor to verify prestress path. Location of drilled holes may be adjusted to avoid existing reinforcement and prestressing when drilling.
  - FOR OVERHANG REINFORCEMENT, SEE "PART TYPICAL SECTION" ON "TYPICAL SECTION" SHEET.

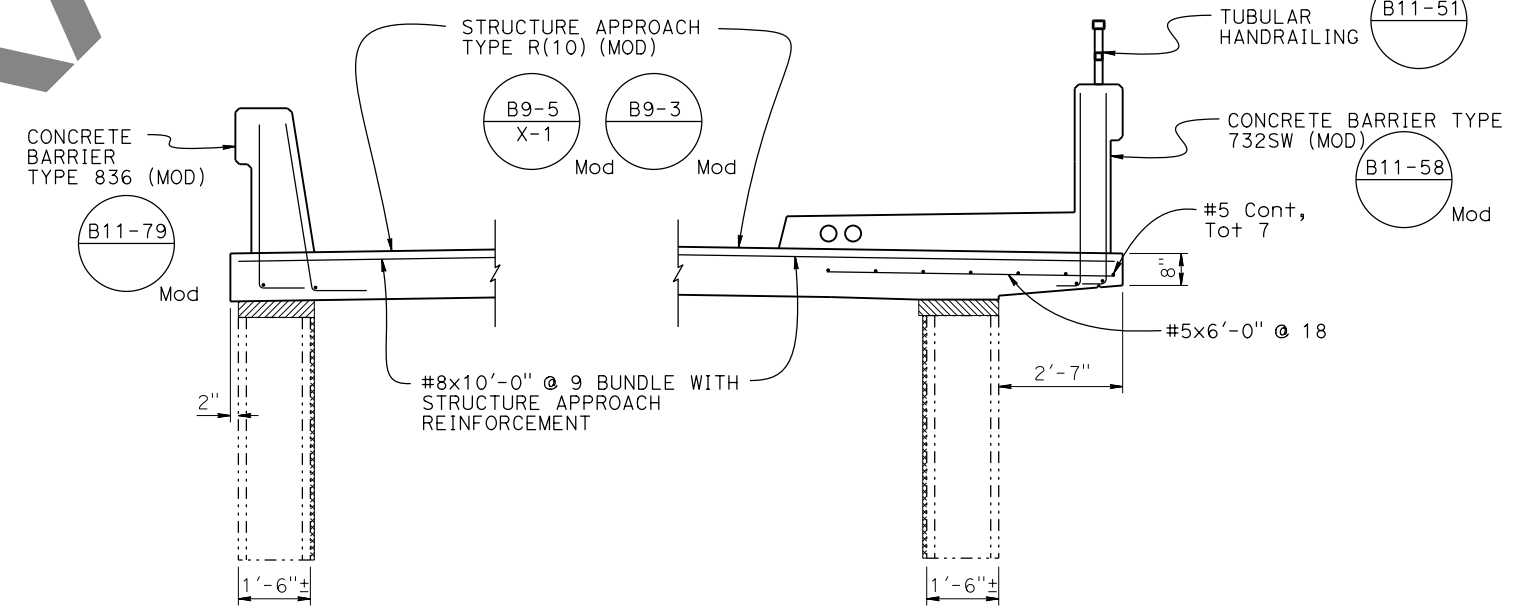
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Jackie Koyama	CHECKED Justin Woody	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	DE LA CRUZ BLVD OC (WIDEN) SUPPORT CORBEL DETAILS
	DETAILS BY Jay Reid	CHECKED Justin Woody			37-0214	
QUANTITIES	BY Alireza Yazdani-Motlagh	CHECKED Jackie Koyama	UNIT: 3578	PROJECT NUMBER & PHASE: 04180000321	POST MILE 11.38	COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804
DATE PLOTTED => 16-FEB-2023		TIME PLOTTED => 15:49		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		REVISION DATES
FILE => 00_37-0214_allplans_delacruz.dgn		USERNAME => s136963		0 1 2 3		9-22 2-13-23 11-1-22 12-1-22
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)						SHEET 5 OF 10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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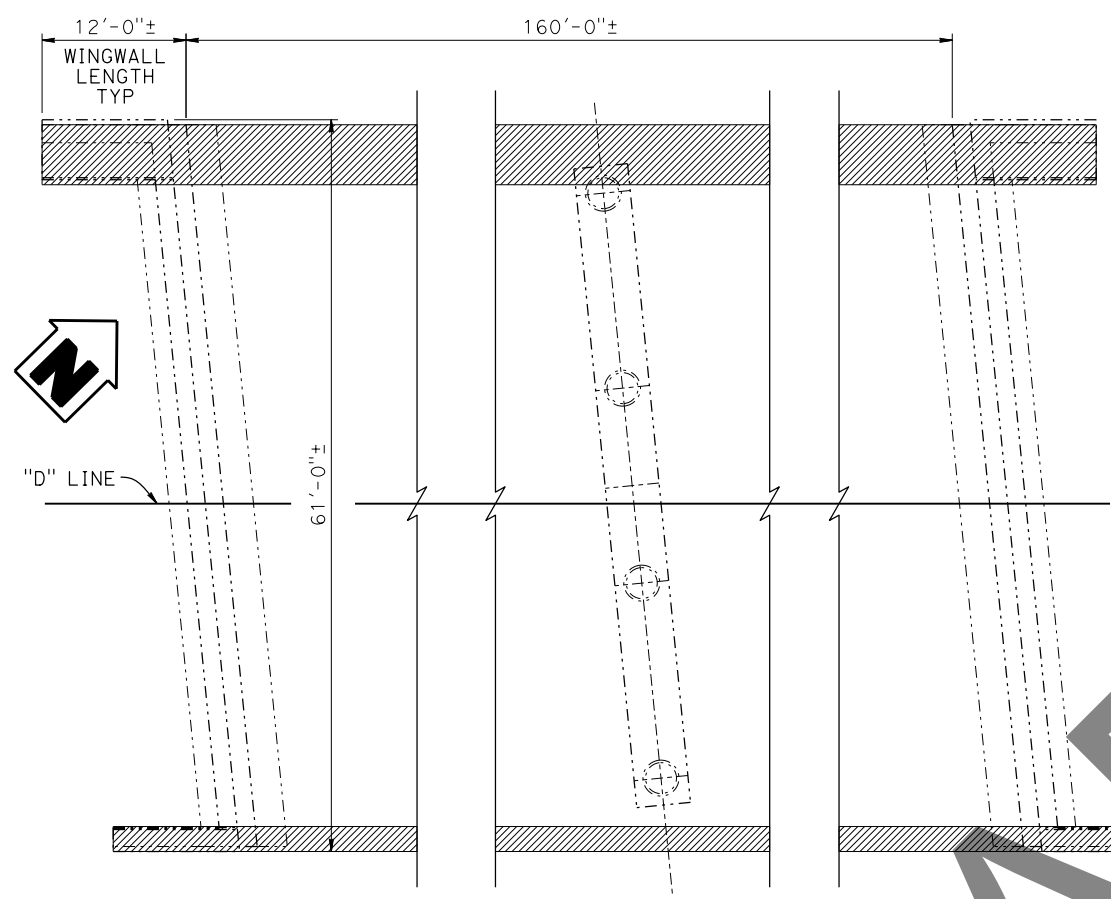


LEGEND:  
 ----- Existing Structure

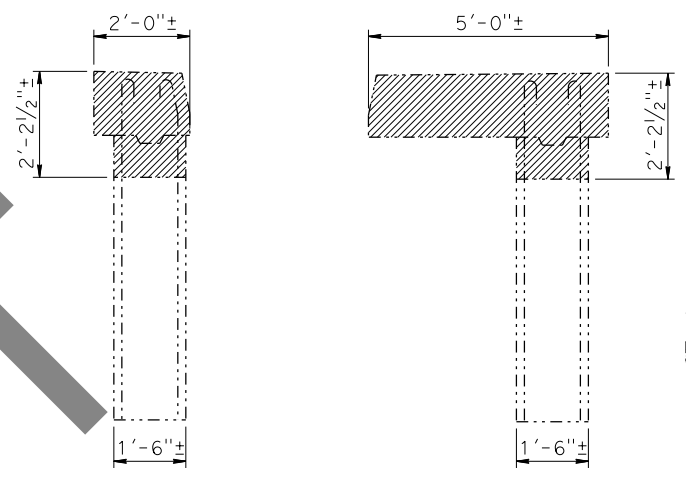


NOTE:  
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DESIGN BY Jackie Koyama CHECKED Justin Woody DETAILS BY Jay Reid CHECKED Justin Woody QUANTITIES BY Alireza Yazdani-Motlagh CHECKED Jackie Koyama	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN <b>BRANCH 3</b>	BRIDGE No.	<b>DE LA CRUZ BLVD OC (WIDEN)</b> <b>STRUCTURE APPROACH DETAILS</b>			
			37-0214				
			11.38				
DATE PLOTTED => 16-FEB-2023 FILE => 00_37-0214_allplans_deacruz.dgn	TIME PLOTTED => 15:49 USERNAME => s136693	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 9-28-22 2-13-23 11-1-22 12-14-22	SHEET OF 6 10



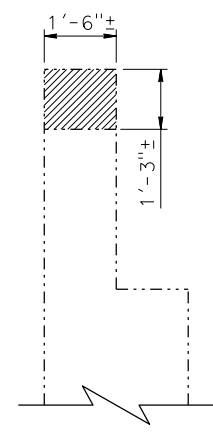
**PART PLAN**  
1/8" = 1'-0"



NOTE:  
Cut existing reinforcement 1" below removal line and fill with non-shrink grout.

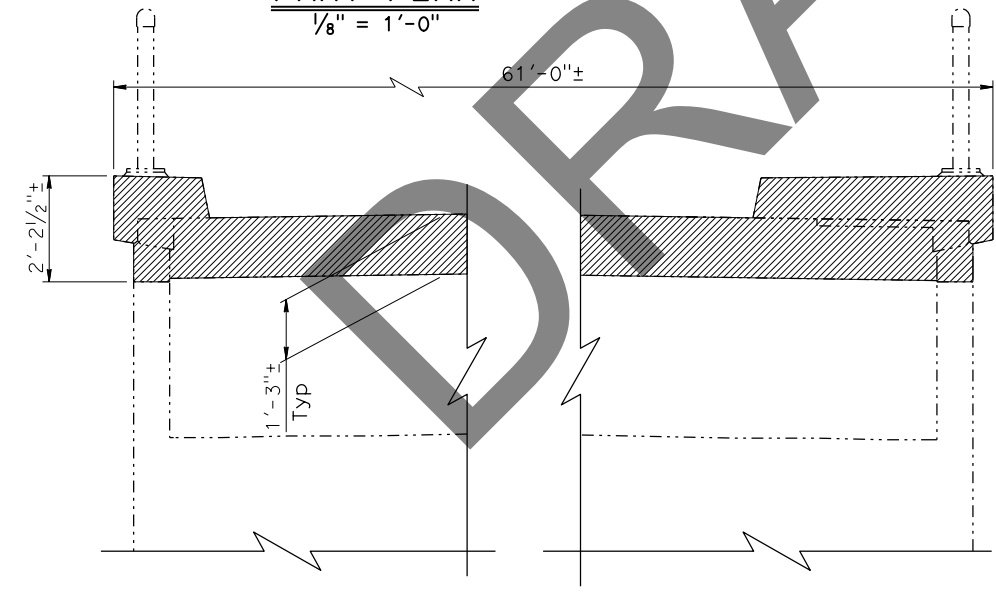
**WINGWALL REMOVAL**  
1/2" = 1'-0"

LEGEND:  
----- Existing Structure  
▨ Limits of Bridge Removal (Portion)



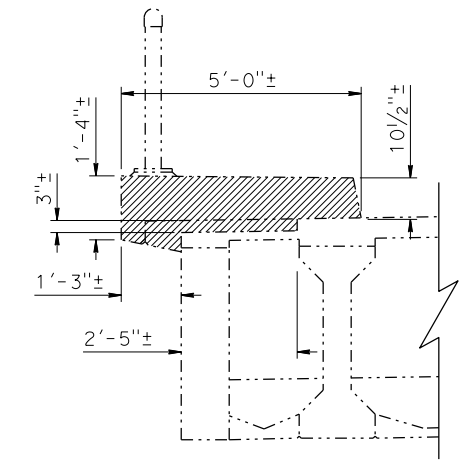
NOTE:  
Cut existing reinforcement 1" below removal line and fill with non-shrink grout.

**BACKWALL REMOVAL DETAIL**  
1/2" = 1'-0"

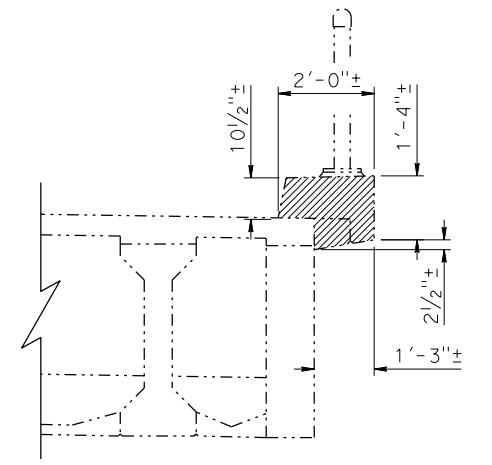


NOTE:  
Cut existing reinforcement 1" below removal line and fill with non-shrink grout.

**ABUTMENT REMOVAL DETAIL**  
1/2" = 1'-0"

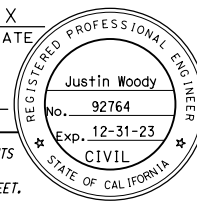


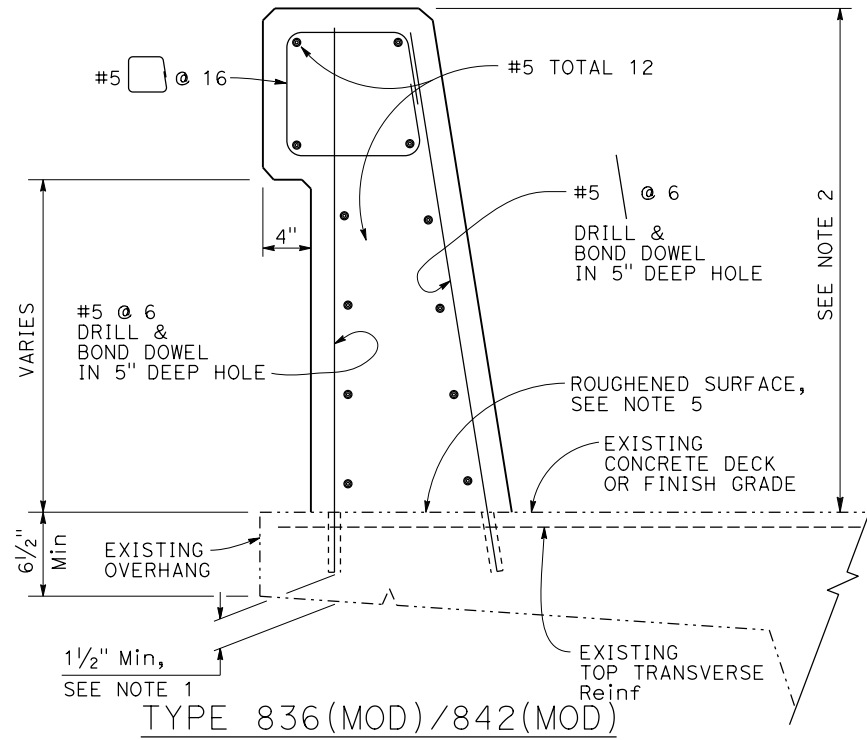
**OVERHANG REMOVAL DETAIL**  
1/2" = 1'-0"



NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Jackie Koyama	CHECKED Justin Woody	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	DE LA CRUZ BLVD OC (WIDEN) REMOVAL DETAILS			
DETAILS	BY Jay Reid	CHECKED Justin Woody			37-0214				
QUANTITIES	BY Alireza Yazdani-Motlagh	CHECKED Jackie Koyama			POST MILE 11.38				
DATE PLOTTED => 16-FEB-2023			TIME PLOTTED => 15:49	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3578	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 7 OF 10
FILE => 00_37-0214_allplans_delacruz.dgn			USERNAME => s136693		PROJECT NUMBER & PHASE: 04180000321	CONTRACT No.: 04-0P9804		9-28-22 2-13-23 11-1-22 12-14-22	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
			X DATE		
			REGISTERED CIVIL ENGINEER		
			DATE		
			PLANS APPROVAL DATE		
					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
<small>THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.</small>					



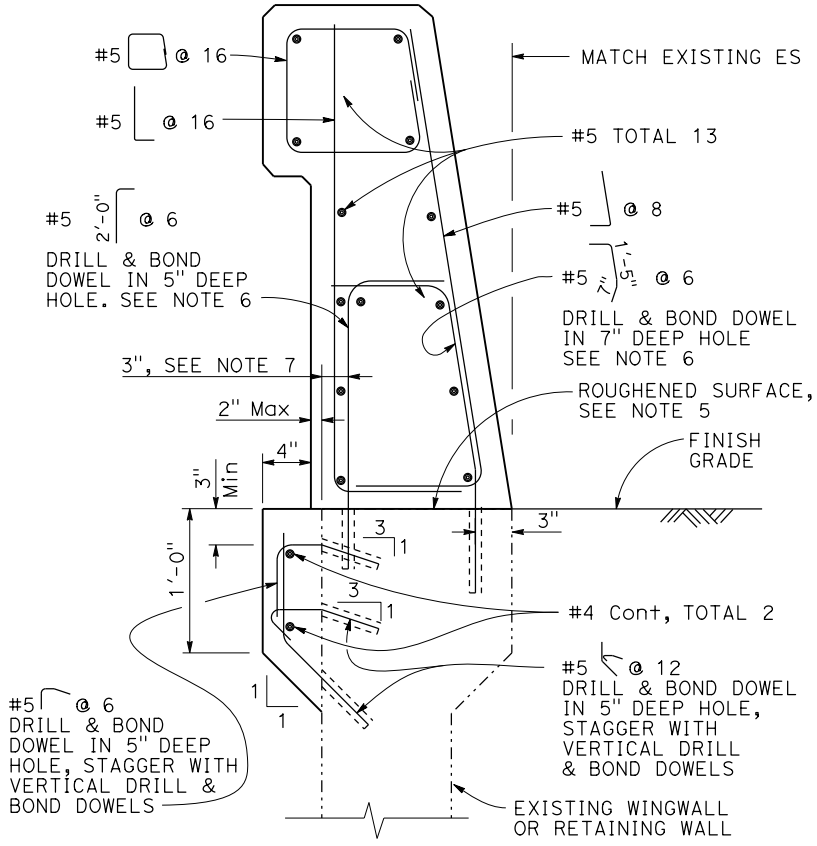
**TYPE 836(MOD)/842(MOD)**  
NO SCALE

NOTE: Overhang Bridge Deck shown, Slab Bridge Deck similar.

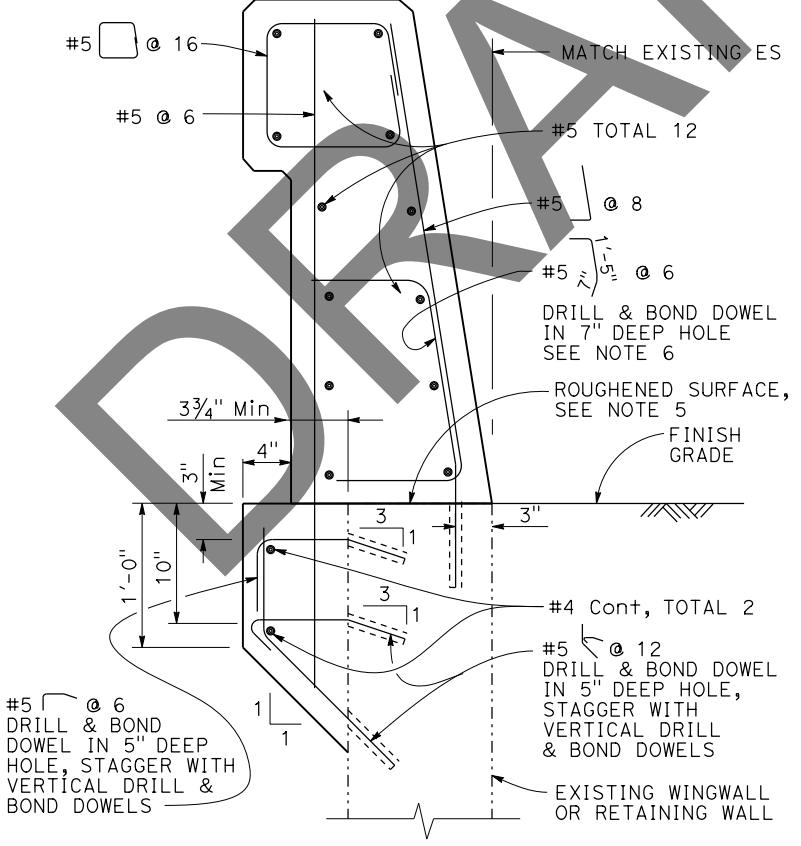
DESIGN NOTES:  
 DESIGN: AASHTO LRFD Bridge Design Specifications, 8th Edition with California Amendments  
 CT: 54 kip maximum traffic impact distributed over "Lt" = 3.5 feet at the top of the barrier, which results in the following values for "Lc" at the deck overhang:  
 Interior Segment\*\*      Near Joint Segment\*\*\*  
 TYPE 836      15.0 Feet      6.7 Feet  
 TYPE 842      15.7 Feet      6.9 Feet

Load Combinations and "Lc" given for barrier attachments to existing bridge overhang only.  
 \*\* Typical Segment at least "Lc" away from End Segment,  
 \*\*\* Near Joint Segment within "Lc" from deck joint.  
 Load Combinations:  
 Extreme II    Q=1.00DC+1.00CT  
 Where:  
 Q: Force Effects  
 DC: Dead Load of Structure Components  
 CT: Vehicular Collision Force  
 IM: Vehicular Dynamic Load Allowance

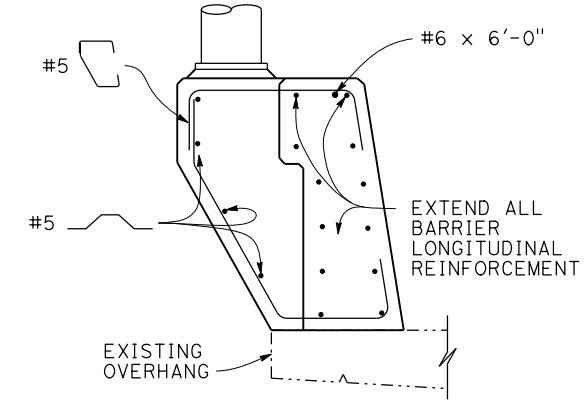
- NOTES:
1. Avoid existing reinforcement when drilling.
  2. For details not shown, see RSP B11-79, RSP B11-80, RSP B11-81 & RSP B11-82. Dimensions may vary with roadway cross slope and with certain thicknesses of surfacing. See ROADWAY PLANS.
  3. Clearance to reinforcing steel in barrier shall be 2", except as noted. Longitudinal reinforcement shall stop at all expansion joints.
  4. For typical metal railing connection details not shown, see STANDARD PLANS A77U1 and A77U2.
  5. Roughen existing bridge deck surface before casting new concrete against existing concrete.
  6. Corbel shall be placed and cured before barrier drill and bond installation.
  7. 3" may be increased to maintain 2" cover.
  8. Type 836B/842B cannot be retrofitted onto the existing trench footings for Type 732B/736B/742B unless the footing was constructed per July 15, 2016 Revised Standard Plans or later. Type 836B/842B must be minimum length 40ft.
  9. Concrete Barrier Type 842(MOD) shown in each detail, Concrete Barrier Type 836(MOD) details similar.



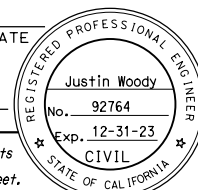
**TYPE 836A(MOD)/842A(MOD), OPTION 1**  
NO SCALE

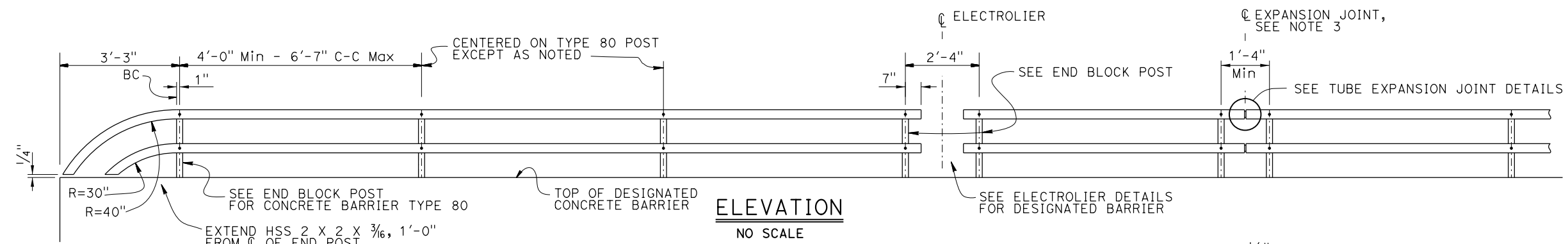


**TYPE 836A(MOD)/842A(MOD), OPTION 2**  
NO SCALE

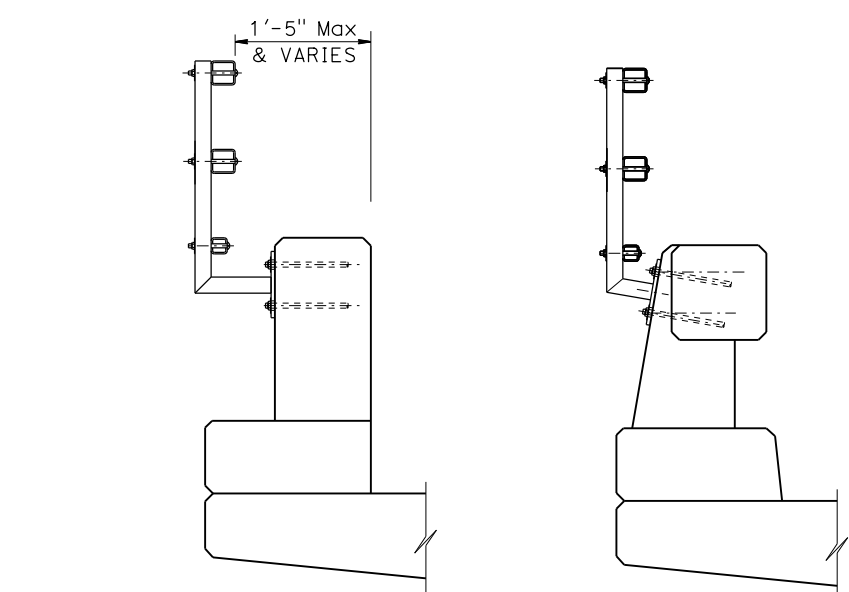


NOTE: Not all reinforcement shown for clarity.  
**PEDESTAL ELEVATION**  
NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</i> <i>The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.</i>					

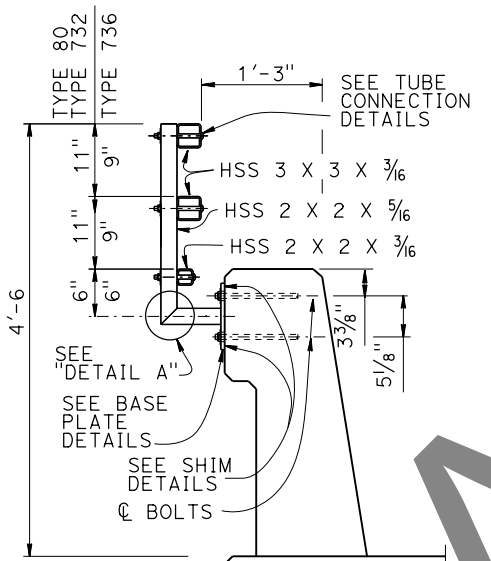


**ELEVATION**  
NO SCALE

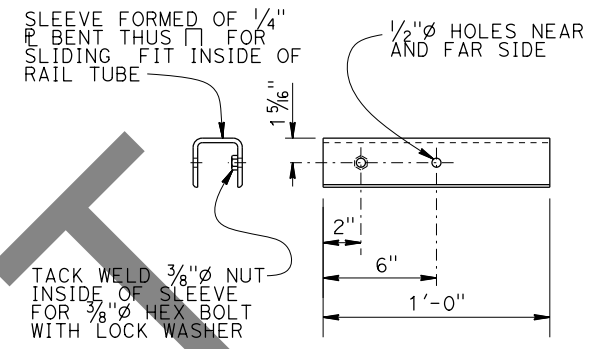


**TYPE 80 END BLOCK POST**  
1" = 1'-0"

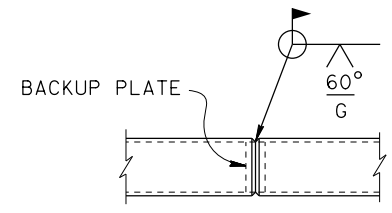
**TYPE 80**  
1" = 1'-0"



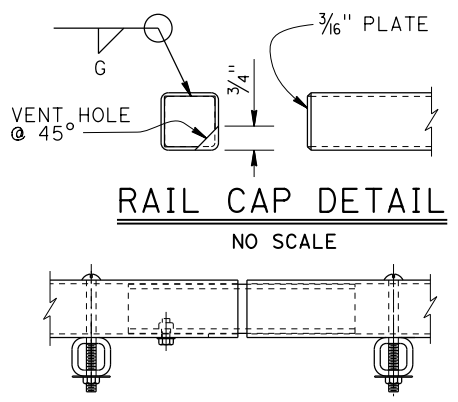
**TYPE 732 OR 736**  
1" = 1'-0"



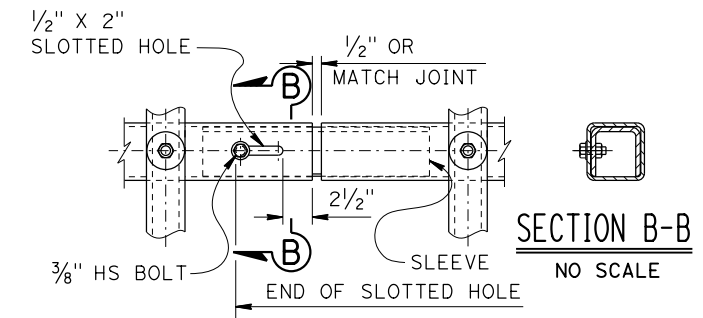
**SLEEVE DETAIL**  
NO SCALE



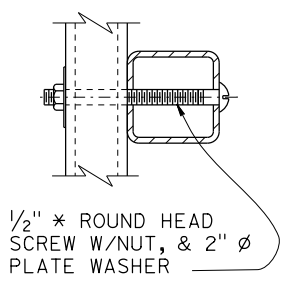
**WELDED SPLICE DETAIL**  
NO SCALE



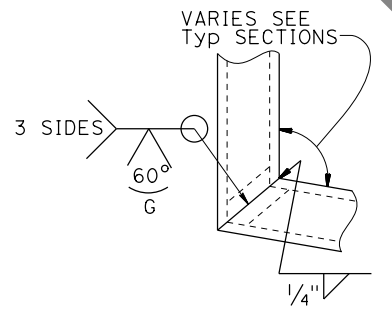
**RAIL CAP DETAIL**  
NO SCALE



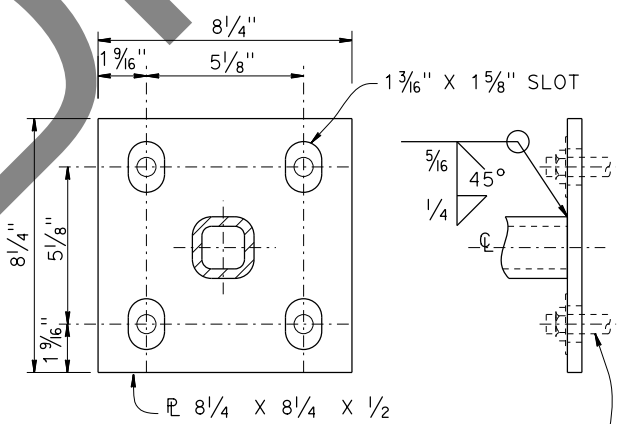
**TUBE EXPANSION JOINT DETAILS**  
NO SCALE



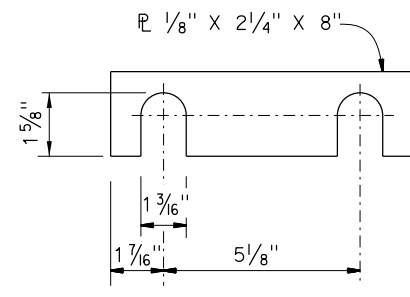
**TUBE CONNECTION DETAIL**  
NO SCALE



**DETAIL A**  
NO SCALE



**BASE PLATE DETAIL**  
NO SCALE

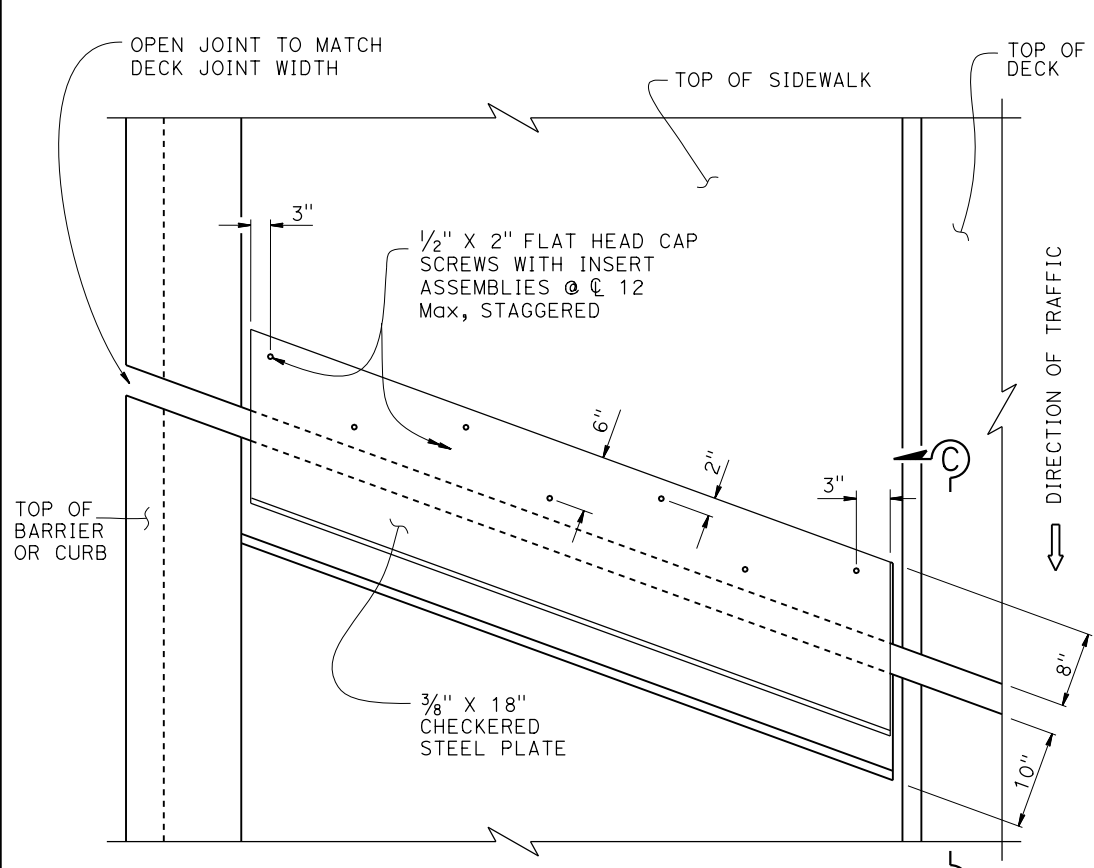


**SHIM DETAILS**  
NO SCALE

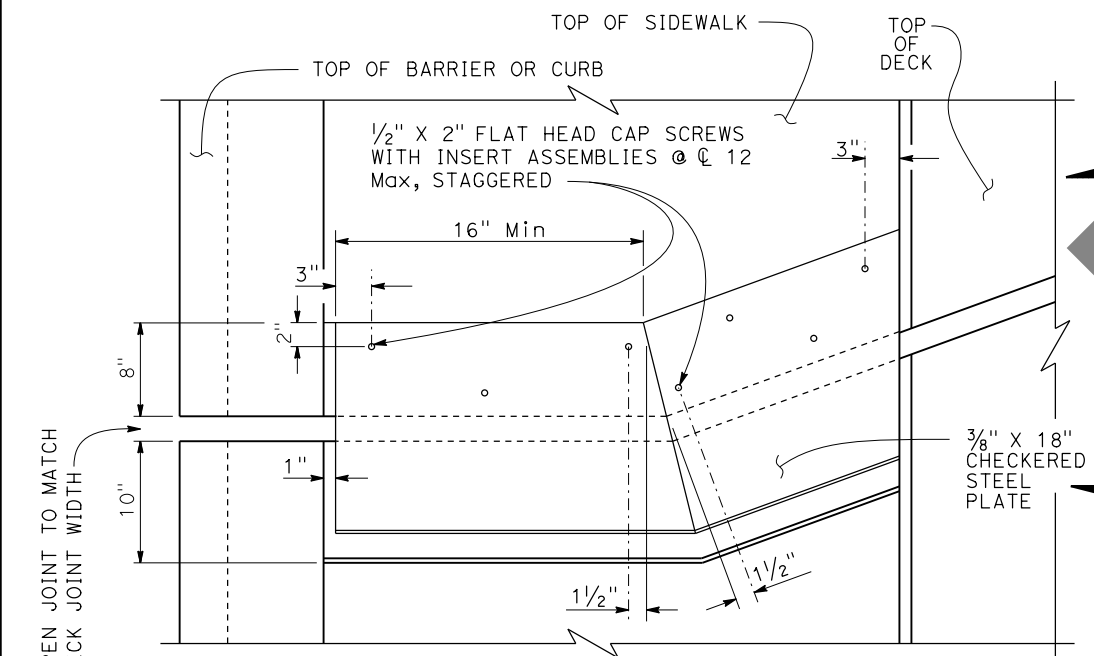
- NOTES:**
1. Post must be normal to railing.
  2. Rail tubes must be shop bent or fabricated to fit horizontal curve when radius is less than 950'.
  3. Tube expansion joints must be located in the tubes spanning deck or wall joints. Increase joint width in tubes to match expansion joint width and increase sleeve length correspondingly.
  4. Top rail tube must be continuous over not less than two posts except a short post spacing is permitted near deck or wall joints, electroliers, or other rail discontinuities as noted.
  5. See Project Plans for limits of tubular bicycle railing.

<b>BRIDGE STANDARD DETAILS</b>		The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California.	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF ENGINEERING SERVICES</b>	BRIDGE NO.	<b>DE LA CRUZ BLVD OC (WIDEN)</b> <b>CONCRETE BARRIER TYPE 80, 732 &amp; 736</b> <b>TUBULAR BICYCLE RAILING DETAILS</b>	
<b>xs16-035</b> FILE NO.	October 2014 APPROVAL DATE				37-0214		
Refer to: <a href="http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html">http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html</a>			PROJECT NUMBER & PHASE: 04180000321		COUNTY/ROUTE: SCL/82 CONTRACT NO.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
FILE => 00_37-0214_allplans_delacruz.dgn USERNAME => s136693 TIME PLOTTED => 15:49 DATE PLOTTED => 16-FEB-2023			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT NO.: 04-0P9804	REVISION DATES 9/17/12 10/17/14 7-14-16	SHEET 9 OF 10

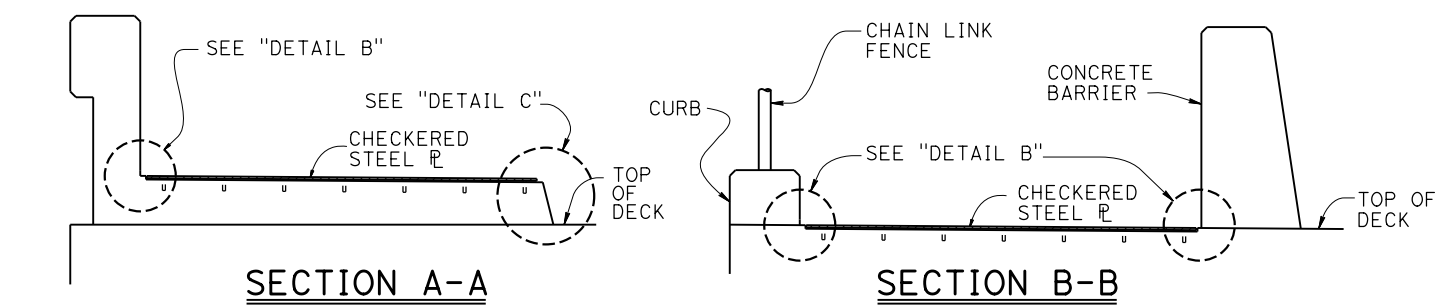
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			REGISTERED PROFESSIONAL ENGINEER		
			Justin Woody		
			No. 92764		
			Exp. 12-31-23		
			CIVIL		
			STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					
The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.					



**PLAN SKEW ≤ 20°**

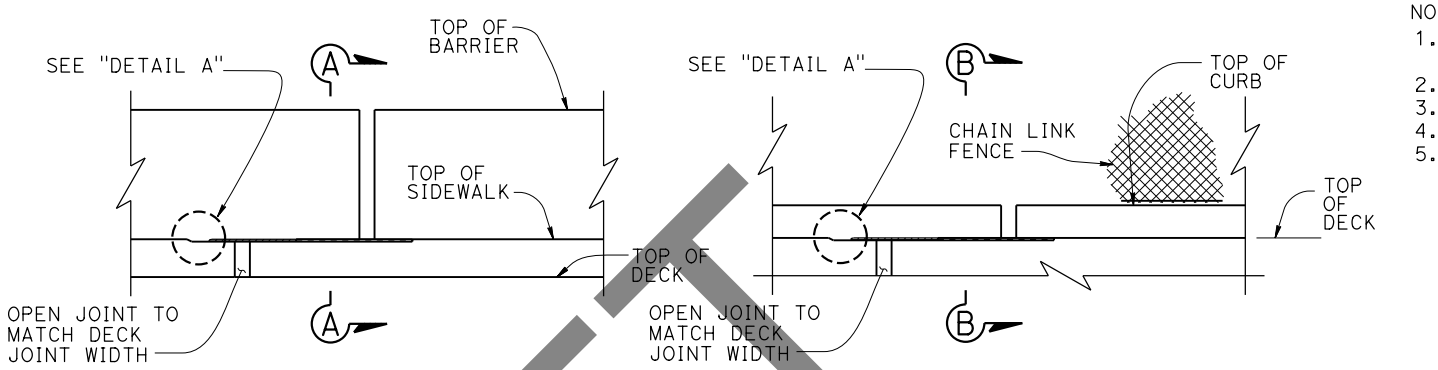


**PLAN SKEW > 20°**



**SECTION A-A**

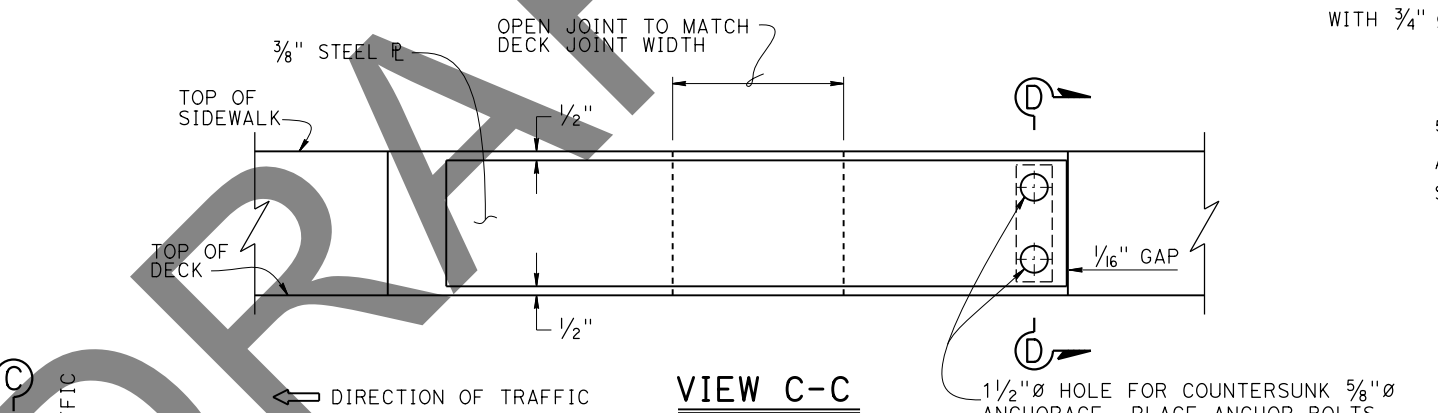
**SECTION B-B**



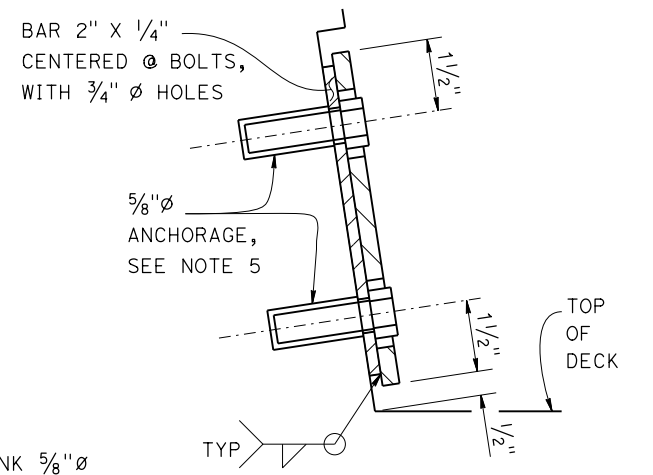
**ELEVATION**

**ELEVATION**

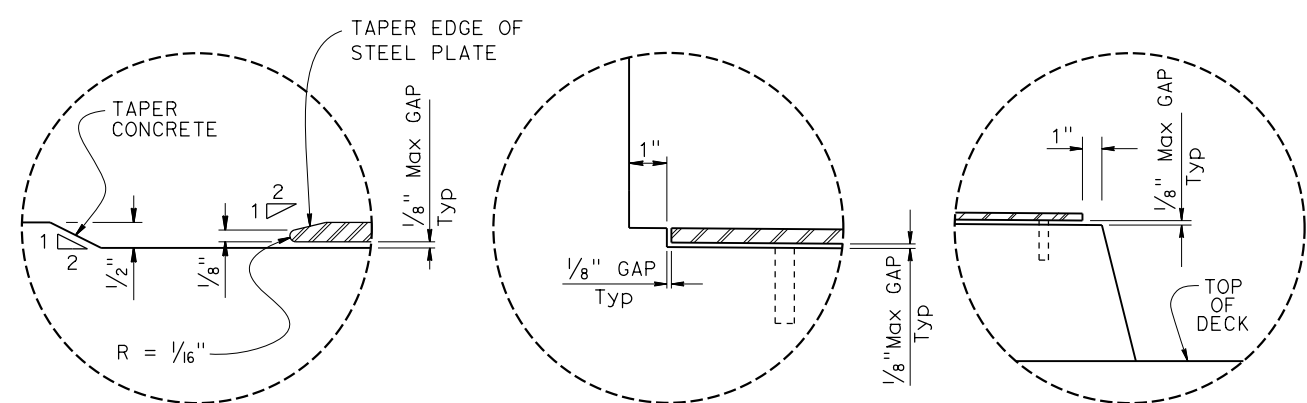
- NOTES:
- Utility openings and expansion joints not shown for clarity
  - Recess concrete 1/2" for plates
  - Plates to be galvanized
  - Architectural treatment not shown
  - Insert assembly or expansion anchorage for 5/8" x 1 3/4" bolts. Use installation bolts extended 1/2" minimum past nut and coat with bond breaker. After concrete has cured, remove installation bolts, install HS bolts



**VIEW C-C**



**SECTION D-D**



**DETAIL A**

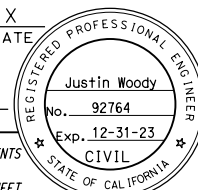
**DETAIL B**

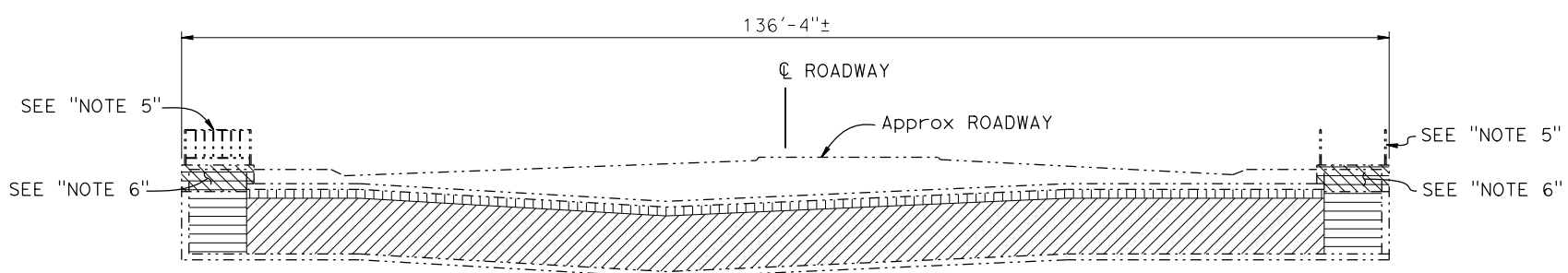
**DETAIL C**

NO SCALE

BRIDGE STANDARD DETAILS		The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California.	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 37-0214	DE LA CRUZ BLVD OC (WIDEN)			
x88-050 FILE NO.	October 2018 APPROVAL DATE				POST MILE 11.38		JOINT ARMOR FOR PEDESTRIAN WALKWAYS		
Refer to: <a href="http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html">http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html</a>		FILE => 00_37-0214_allplans_delacruz.dgn USERNAME => s136693	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT NO.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES			
TIME PLOTTED => 15:49		DATE PLOTTED => 16-FEB-2023	0 1 2 3	7-24-14	9-11-18	10-2-18	8-28-18	SHEET 10	OF 10

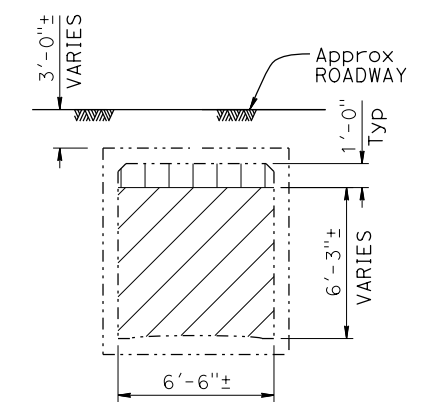
**DRAFT SPS&E**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
					
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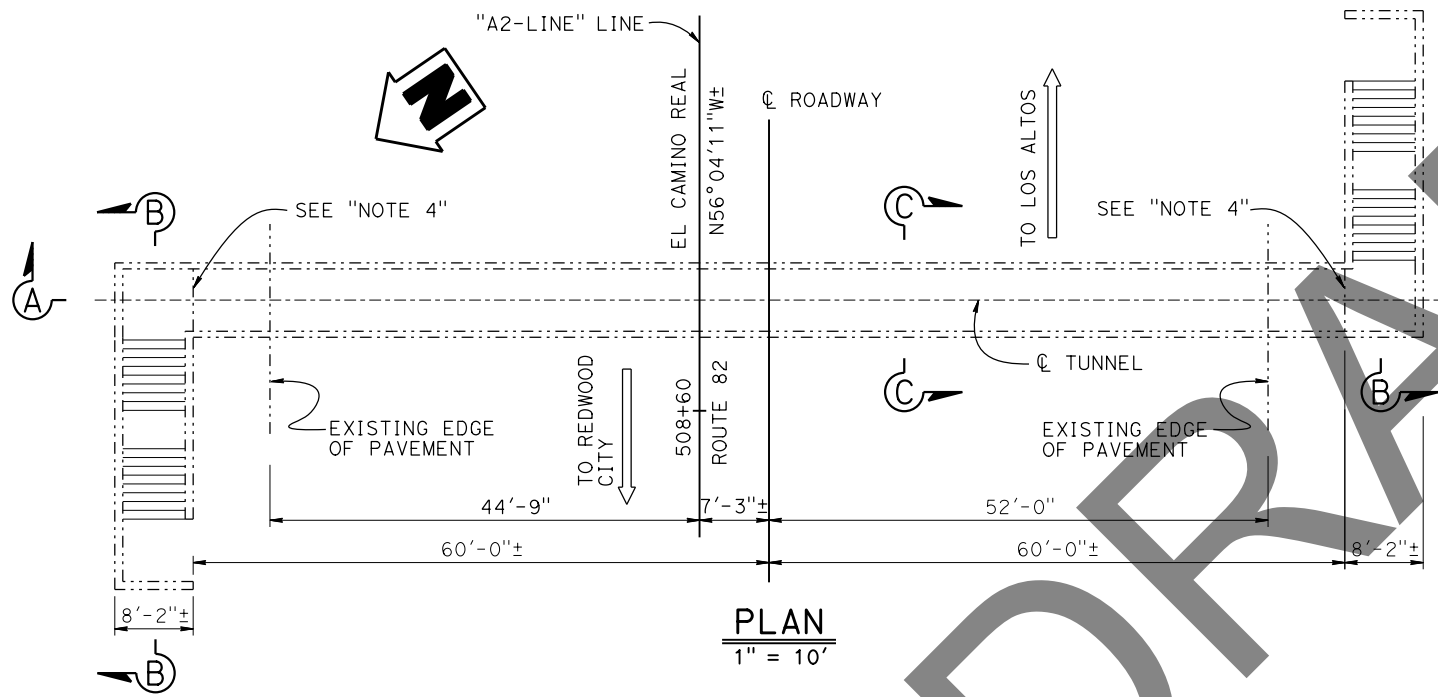


DATUM Elev 15.00±

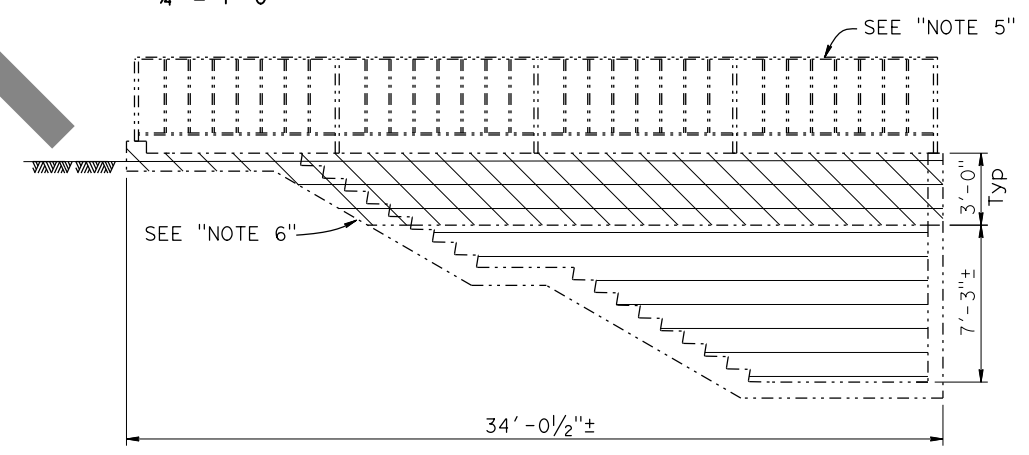
**ELEVATION A-A**  
 1" = 10'



**TYPICAL SECTION C-C**  
 1/4" = 1'-0"



**PLAN**  
 1" = 10'



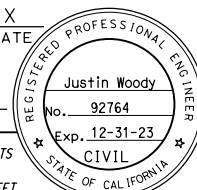
**TYPICAL SECTION B-B**  
 1/4" = 1'-0"

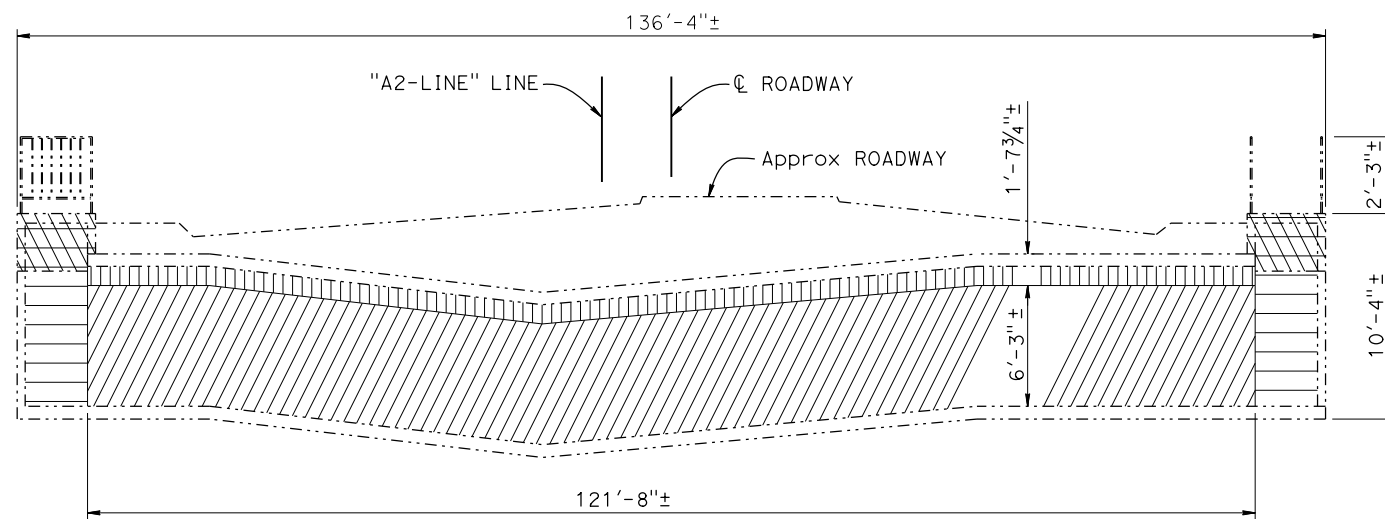
- LEGEND:**
- Existing Structure
  - ▨ Limits of Bridge Removal (Portion)
  - ▧ Limits of Lean Concrete Backfill
  - ▩ Limits of Pressure Grouting
  - Limits of Structure Backfill

- NOTES:**
1. Exist PUC to be Abandoned and closed off.
  2. Structure backfill to match and conform to existing adjacent grades.
  3. For existing utilities see Roadway Plans
  4. Tunnel to be sealed at both ends and top 1'-0" to be pressure grouted.
  5. EXISTING METAL RAILING TO BE REMOVED
  6. REMOVE EXISTING TOP 3'-0" STAIRS & WALLS

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

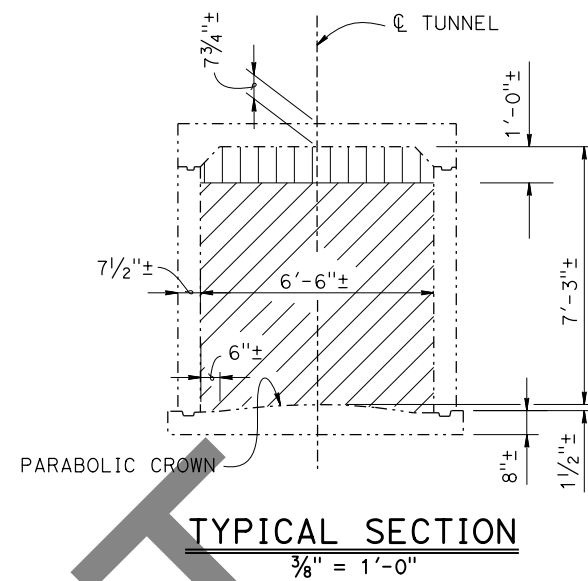
X BRANCH CHIEF	DESIGN	BY Mufeed Khalaf	CHECKED Quang Nguyen	SEISMIC ANALYSIS	BY N/A	CHECKED N/A	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	MAYFIELD PUC (REMOVAL) GENERAL PLAN												
	DETAILS	BY Liang Ma	CHECKED Quang Nguyen	LAYOUT	BY Justin Woody	CHECKED Mufeed Khalaf			37-0091													
	QUANTITIES	BY Mufeed Khalaf	CHECKED Alexis Guerrero	SPECIFICATIONS	BY X	PLANS AND SPECS COMPARED X		BRIDGE No.	24.15													
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REVISION 2/8/2022)							DATE PLOTTED => 16-FEB-2023	TIME PLOTTED => 15:35	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3578	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF			
							FILE => 00_37-0091_allplans_mayfield	USER NAME => s136693							PROJECT NUMBER & PHASE: 04180000321	CONTRACT No.: 04-0P9804	1-1-22	6-18-22	10-31-22	2-16-23	1	4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
					
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**LONGITUDINAL ELEVATION**

Horiz: 1" = 10', Vert: 1" = 5'



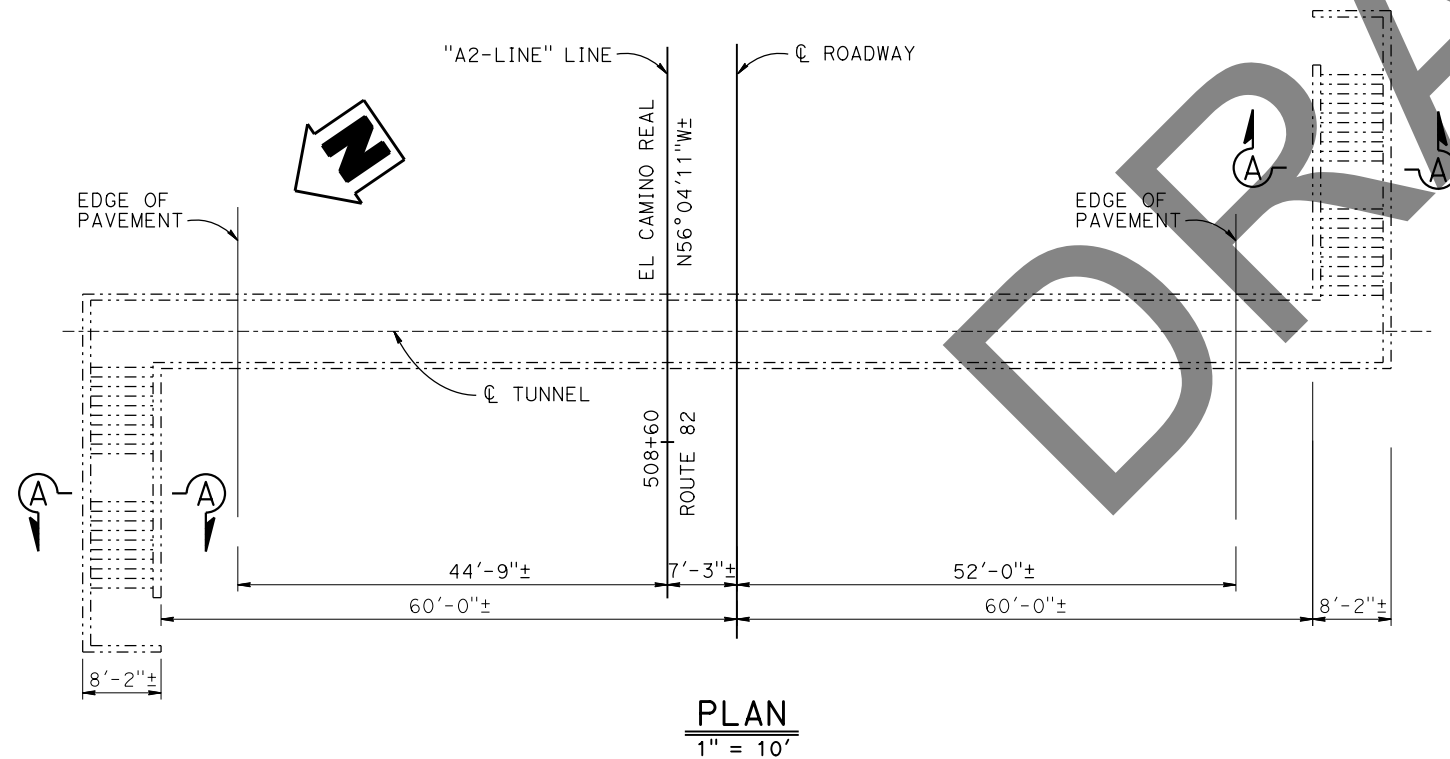
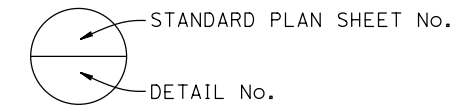
**GENERAL NOTES  
LOAD AND RESISTANCE FACTOR DESIGN**

DESIGN:  
AASHTO LRFD Bridge Design Specifications, 2017 edition with California Amendments, preface dated April 2019

STANDARD PLANS:  
2022 Standard Plans and Revised Standard Plans

**INDEX TO PLANS**

SHEET No.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	FOUNDATION PLAN
4	STRUCTURE REMOVAL (PORTION)



**PLAN**  
1" = 10'

LEGEND:

- Existing Structure
- Limits of Bridge Removal (Portion)
- Limits of Lean Concrete Backfill
- Limits of Pressure Grouting
- Limits of Structure Backfill

NOTES:

1. For "SECTION A-A", see "STRUCTURE REMOVAL" sheet.

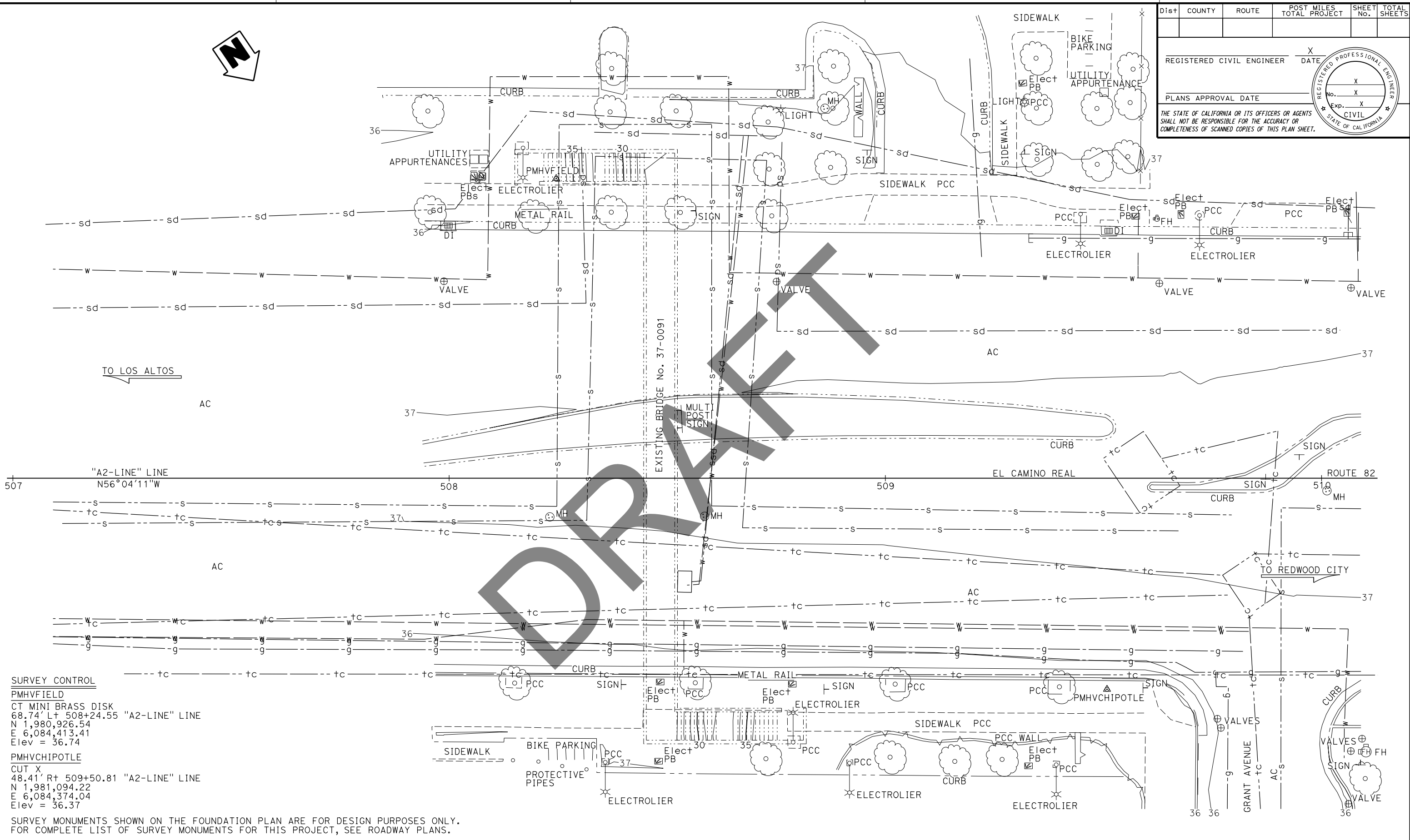
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Mufeed Khalaf	CHECKED Quang Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	MAYFIELD PUC (REMOVAL) INDEX TO PLANS				
	DETAILS	BY Liang Ma			CHECKED Quang Nguyen		37-0091			
QUANTITIES	BY Mufeed Khalaf	CHECKED Alexis Guerrero			POST MILE					
					24.15					
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DATE PLOTTED => 16-FEB-2023	TIME PLOTTED => 15:35	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3578	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
	FILE => 00_37-0091_allplans_mayfield	USER => s136693			PROJECT NUMBER & PHASE: 04180000321	CONTRACT No.: 04-0P9804		7-24-22 10-27-22 2-16-23	2	4





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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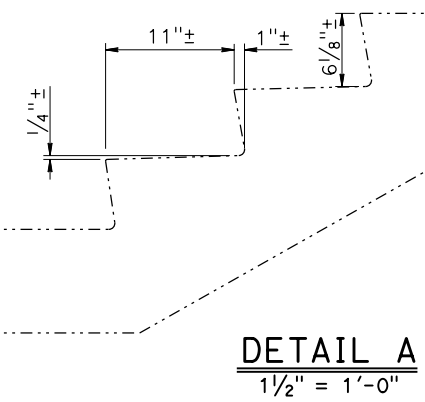
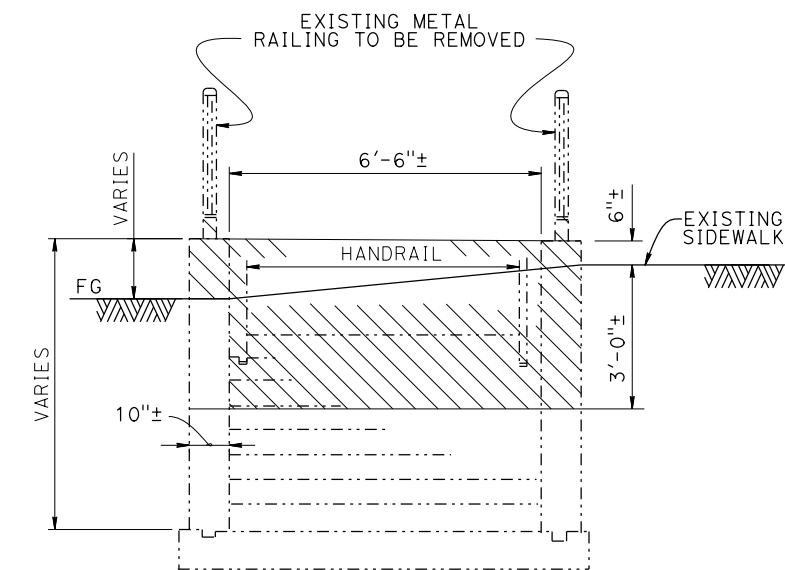
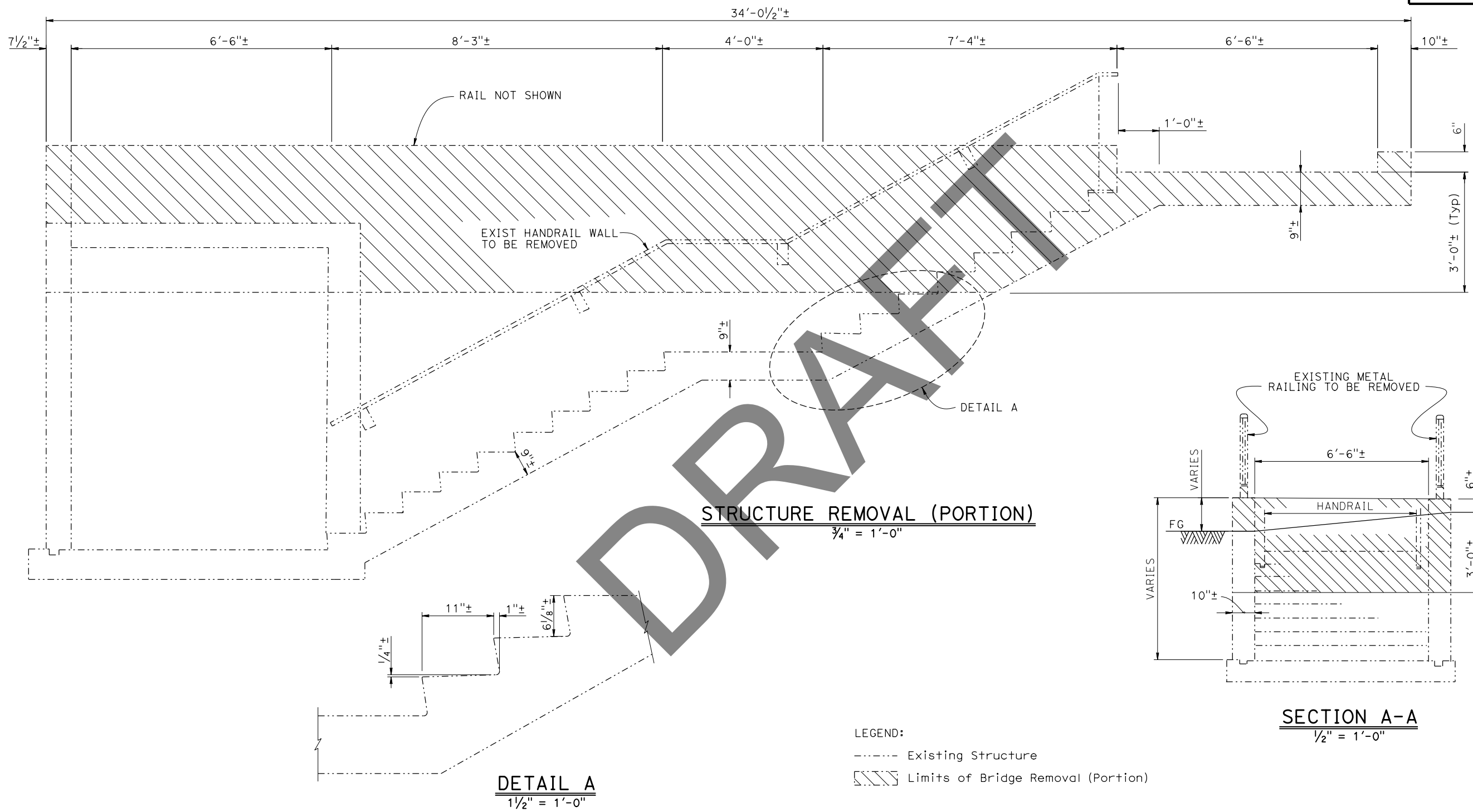


**SURVEY CONTROL**  
 PMHVFIELD  
 CT MINI BRASS DISK  
 68.74' L+ 508+24.55 "A2-LINE" LINE  
 N 1,980,926.54  
 E 6,084,413.41  
 Elev = 36.74  
 PMHVCHIPOTLE  
 CUT X  
 48.41' R+ 509+50.81 "A2-LINE" LINE  
 N 1,981,094.22  
 E 6,084,374.04  
 Elev = 36.37

SURVEY MONUMENTS SHOWN ON THE FOUNDATION PLAN ARE FOR DESIGN PURPOSES ONLY.  
 FOR COMPLETE LIST OF SURVEY MONUMENTS FOR THIS PROJECT, SEE ROADWAY PLANS.

PRELIMINARY INVESTIGATIONS BRANCH				DESIGN	BY Muffed Khalaf	CHECKED Quang Nguyen	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF ENGINEERING SERVICES</b> <b>BRIDGE DESIGN</b> <b>BRANCH 3</b>	BRIDGE No.	<b>MAYFIELD PUC (REMOVAL)</b> <b>FOUNDATION PLAN</b>						
SCALE:	VERT. DATUM: NAVD88	SURVEYED	BY DISTRICT	DETAILS	BY Liang Ma	CHECKED Quang Nguyen			37-0091	POST MILE						
1" = 10'	HORIZ. DATUM: NAD83 (2017.50)	DRAFTED	BY T. ZOLNIKOV	QUANTITIES	BY Muffed Khalaf	CHECKED Alexis Guerrero			24.15							
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REVISION 4/21/2021)				DATE PLOTTED => 16-FEB-2023	TIME PLOTTED => 15:35	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3646	COUNTY/ROUTE: SCI/082	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 3	OF 4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
X					
Justin Woody					
No. 92764					
PLANS APPROVAL DATE					
Exp. 12-31-23					
CIVIL			STATE OF CALIFORNIA		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

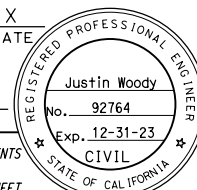


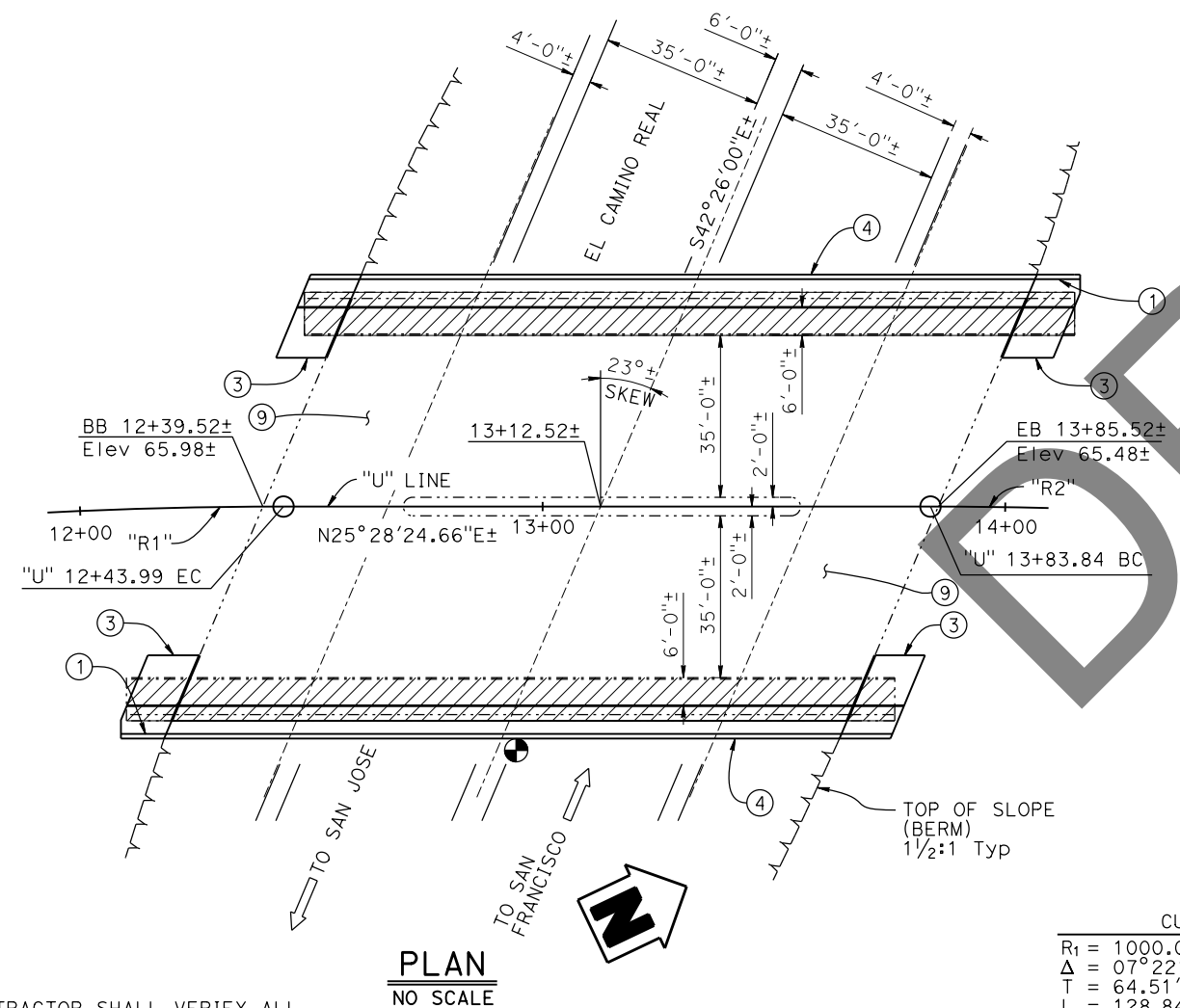
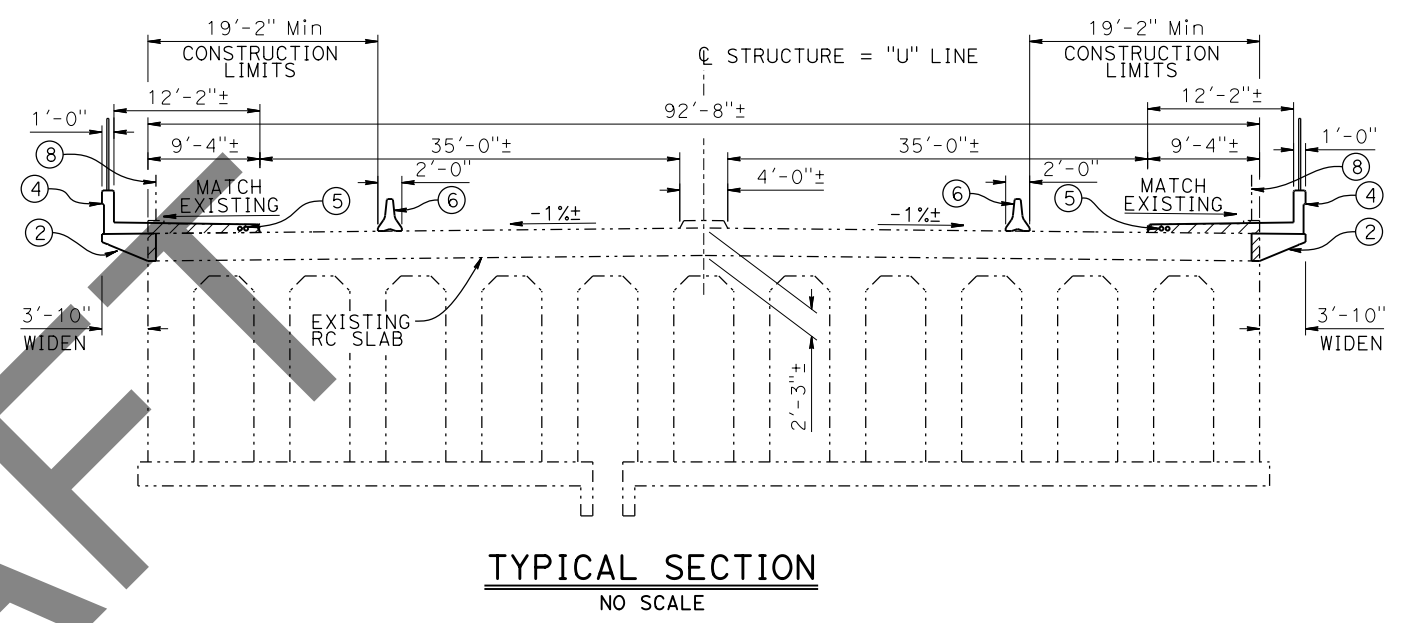
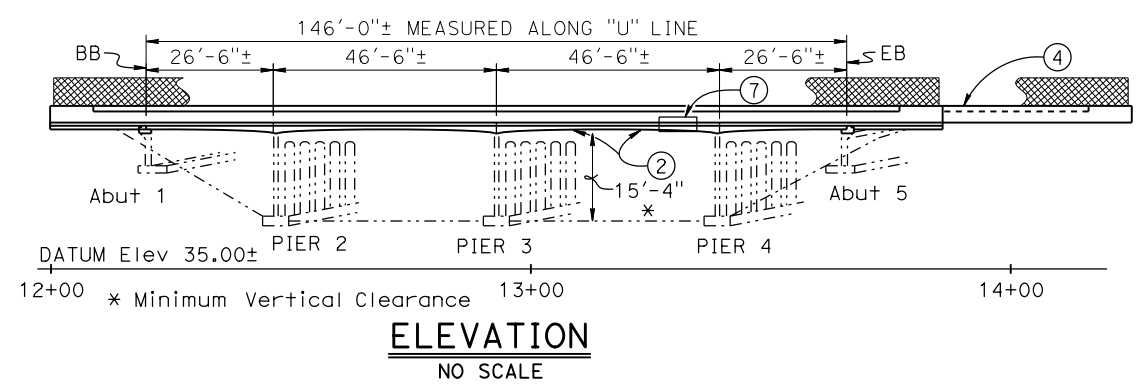
LEGEND:  
 - - - - Existing Structure  
 [Hatched] Limits of Bridge Removal (Portion)

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY	Mufeed Khalaf	CHECKED	Quang Nguyen	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	37-0091	MAYFIELD PUC (REMOVAL) STRUCTURE REMOVAL (PORTION)
	DETAILS	BY	Liang Ma	CHECKED			Quang Nguyen	POST MILE	
QUANTITIES	BY	Mufeed Khalaf	CHECKED	Alexis Guerrero	UNIT: 3578	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 15:35 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					PROJECT NUMBER & PHASE: 04180000321	CONTRACT No.: 04-0P9804	REVISION DATES		SHEET 4 OF 4

# DRAFT SPS&E



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
				X	
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



**CURVE DATA**

R <sub>1</sub> = 1000.00'	R <sub>2</sub> = 1000.00'
Δ = 07°22'56"	Δ = 08°49'41"
T = 64.51'	T = 77.19'
L = 128.84'	L = 154.08'

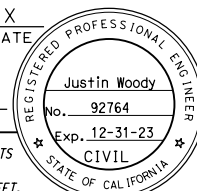
**NOTE:**  
For "INDEX TO PLANS", "STANDARD PLANS" list, "QUANTITIES" and "GENERAL NOTES", see "INDEX TO PLANS" Sheet.

- LEGEND:**
- Existing Structure
  -  Limits of Bridge Removal (Portion including rail removal)
  -  Point of Minimum Vertical Clearance

- NOTES:**
- ① PAINT "UNIVERSITY AVENUE OC BRIDGE No. 37-0092" 1940
  - ② R/C SLAB WIDENING
  - ③ STRUCTURE APPROACH TYPE R(10) (Mod)
  - ④ CONCRETE BARRIER TYPE 732SW WITH CHAIN LINK RAILING TYPE 6
  - ⑤ UTILITY OPENINGS, SEE ROADWAY PLANS
  - ⑥ TEMPORARY CONCRETE BARRIER (TYPE K), SEE ROADWAY PLANS
  - ⑦ BRIDGE MOUNTED SIGN, SEE ROADWAY PLANS
  - ⑧ EXISTING BALUSTER BARRIER RAILING AND CURB TO BE REMOVED
  - ⑨ FOR ELECTRICAL SYSTEMS (LOOP DETECTORS), Typ, SEE ROADWAY PLANS

**NOTE:**  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

X BRANCH CHIEF	DESIGN	BY Justin Woody	CHECKED Alireza Yazdani-Motlagh	SEISMIC ANALYSIS	BY N/A	CHECKED N/A	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF ENGINEERING SERVICES</b> <b>BRIDGE DESIGN</b> <b>BRANCH 3</b>	BRIDGE No.	37-0092	<b>UNIVERSITY AVENUE OC (WIDEN)</b> <b>GENERAL PLAN</b>		
	DETAILS	BY Jay Reid	CHECKED Alireza Yazdani-Motlagh	LAYOUT	BY Justin Woody	CHECKED Alireza Yazdani-Motlagh			POST MILE	25.88			
	QUANTITIES	BY Quang Nguyen	CHECKED Armando Shane	SPECIFICATIONS	BY X	PLANS AND SPECS COMPARED X							
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REVISION 2/8/2022)		DATE PLOTTED => 16-FEB-2023		TIME PLOTTED => 13:26		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3578		COUNTY/ROUTE: SCL/82		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
		FILE => 00_37-0092_allplans_university		REVISED => s136693				PROJECT NUMBER & PHASE: 04180000321		CONTRACT No.: 04-09804		REVISION DATES 1-1-22 3-30-22 12-16-22 2-16-23 SHEET 1 OF 11	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
			X	DATE	
REGISTERED CIVIL ENGINEER					
					
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**GENERAL NOTES  
LOAD AND RESISTANCE FACTOR DESIGN**

DESIGN:  
AASHTO LRFD Bridge Design Specifications,  
2017 edition with California Amendments,  
preface dated April 2019

STANDARD PLANS:  
2022 Standard Plans and Revised Standard Plans

LIVE LOADING:  
HL93 and permit design load

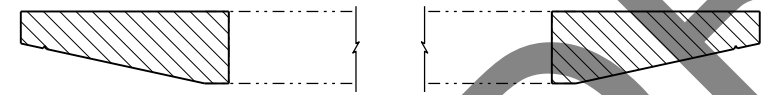
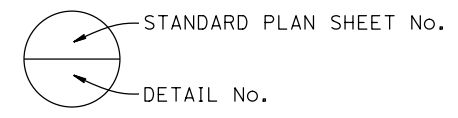
REINFORCED CONCRETE:  
f<sub>y</sub> = 60 ksi  
f'c = 3.6 ksi  
n = 8

JOINT SEAL TABLE							
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (inches)
		Abut 1	BB				
UNIVERSITY AVENUE OC	37-0092	Abut 1	BB	1 *	30.75	NO	N/A
		Abut 5	EB	1 *	30.75	NO	N/A

LEGEND:  
BB = Beginning of bridge  
EB = End of bridge  
\* = Joint Seal (Type B)

**INDEX TO PLANS**

SHEET No.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	FOUNDATION PLAN
4	TYPICAL SECTION
5	MISCELLANEOUS DETAILS No. 1
6	MISCELLANEOUS DETAILS No. 2
7	BRIDGE REMOVAL DETAILS No. 1
8	BRIDGE REMOVAL DETAILS No. 2
9	ARCHITECTURAL DETAILS
10	JOINT ARMOR FOR PEDESTRIAN WALKWAYS
11	CHAIN LINK RAILING TYPE 6



LEGEND:  
----- Existing Structure  
▨ Structural Concrete, Bridge (Polymer Fiber) (4 ksi at 28 days)

**CONCRETE STRENGTH AND TYPE LIMITS**

1/2" = 1'-0"

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Justin Woody	CHECKED Alireza Yazdani-Motlagh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	UNIVERSITY AVENUE OC (WIDEN)									
	DETAILS	BY Jay Reid			CHECKED Alireza Yazdani-Motlagh		37-0092								
QUANTITIES	BY Quang Nguyen	CHECKED Armando Shane			POST MILE	INDEX TO PLANS									
					25.88										
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)		DATE PLOTTED => 16-FEB-2023	TIME PLOTTED => 13:27	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3578	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF	
		FILE => 00_37-0092_allplans_university	REVISED => s136693						PROJECT NUMBER & PHASE: 04180000321	CONTRACT No.: 04-0P9804	9-28-22	12-16-22	2-16-23	2	11

CURVE DATA				
No.	R	Δ	T	L
①	1000.00'	07°22'56"	64.51'	128.84'
②	1000.00'	08°49'41"	77.19'	154.08'

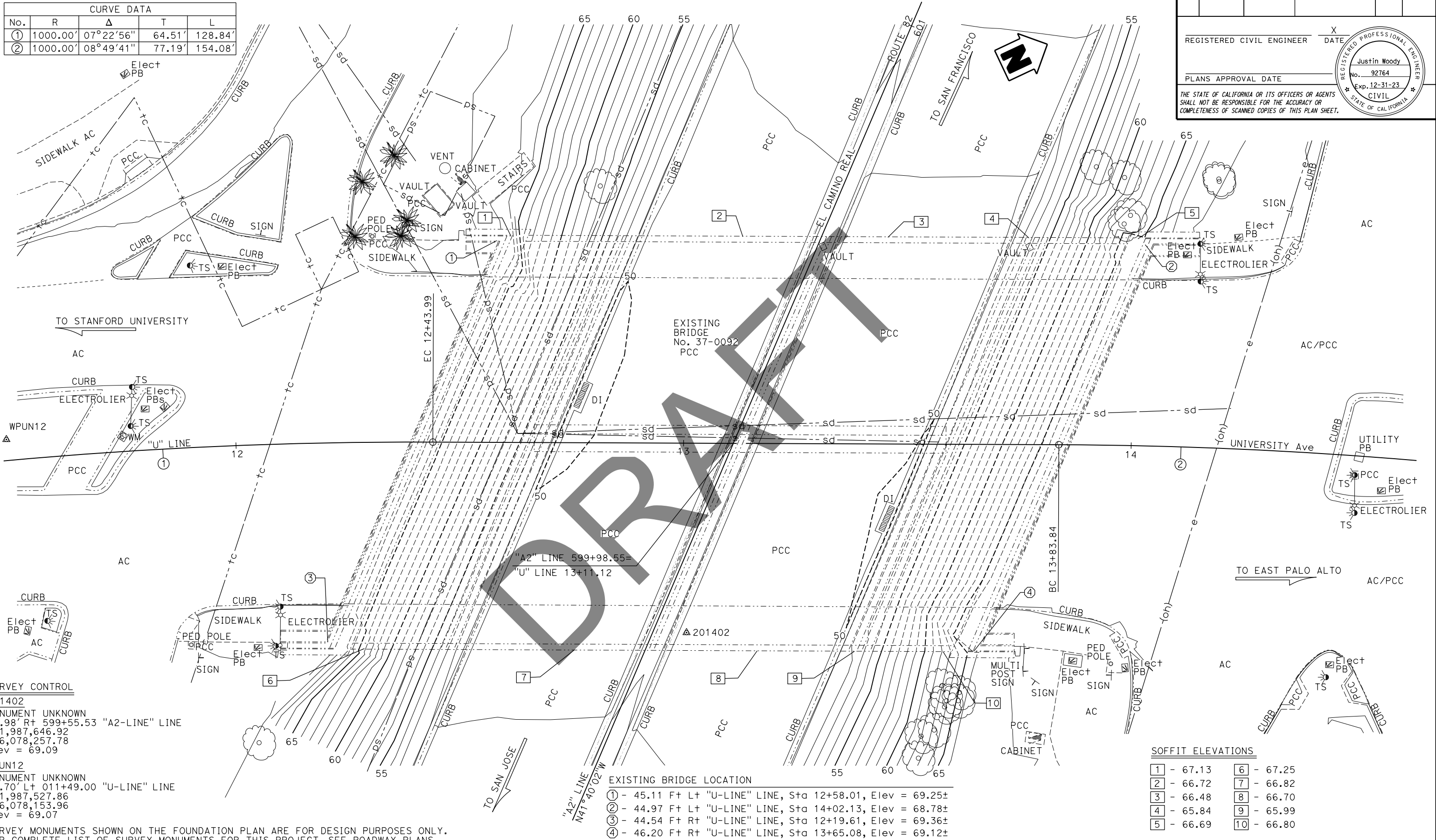
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER X DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
Justin Woody  
No. 92764  
Exp. 12-31-23  
CIVIL  
STATE OF CALIFORNIA



**SURVEY CONTROL**  
201402  
MONUMENT UNKNOWN  
06.98' Rt 599+55.53 "A2-LINE" LINE  
N 1,987,646.92  
E 6,078,257.78  
Elev = 69.09

WPUN12  
MONUMENT UNKNOWN  
04.70' Lt 011+49.00 "U-LINE" LINE  
N 1,987,527.86  
E 6,078,153.96  
Elev = 69.07

SURVEY MONUMENTS SHOWN ON THE FOUNDATION PLAN ARE FOR DESIGN PURPOSES ONLY.  
FOR COMPLETE LIST OF SURVEY MONUMENTS FOR THIS PROJECT, SEE ROADWAY PLANS.

**EXISTING BRIDGE LOCATION**

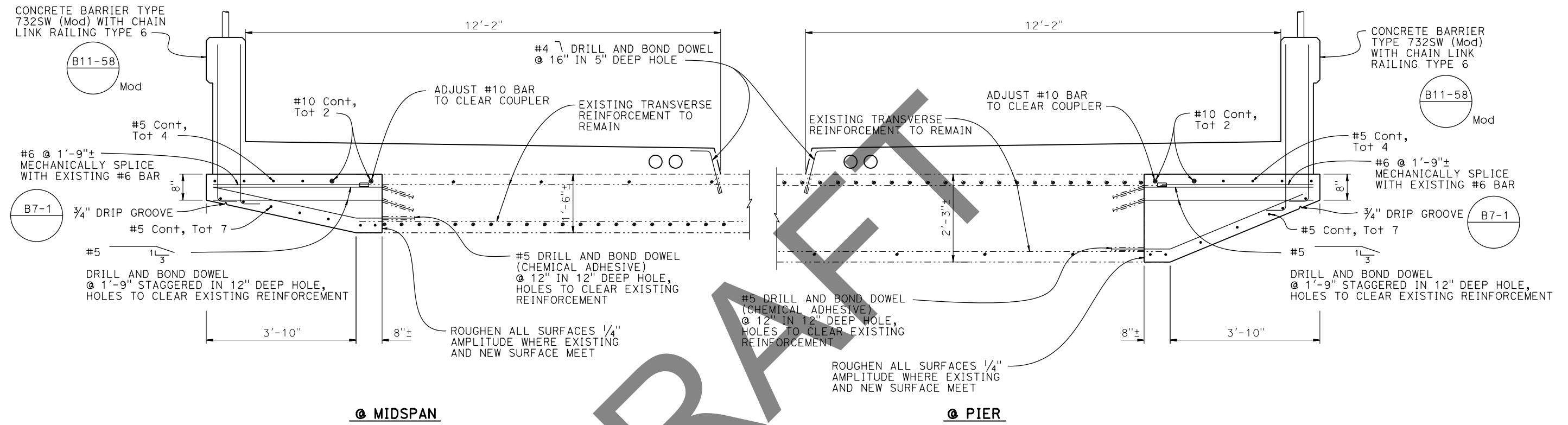
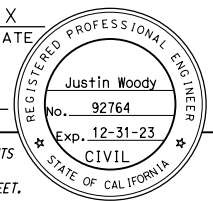
①	- 45.11 Ft Lt "U-LINE" LINE, Sta 12+58.01, Elev = 69.25±
②	- 44.97 Ft Lt "U-LINE" LINE, Sta 14+02.13, Elev = 68.78±
③	- 44.54 Ft Rt "U-LINE" LINE, Sta 12+19.61, Elev = 69.36±
④	- 46.20 Ft Rt "U-LINE" LINE, Sta 13+65.08, Elev = 69.12±

**SOFFIT ELEVATIONS**

①	- 67.13	⑥	- 67.25
②	- 66.72	⑦	- 66.82
③	- 66.48	⑧	- 66.70
④	- 65.84	⑨	- 65.99
⑤	- 66.69	⑩	- 66.80

<b>PRELIMINARY INVESTIGATIONS BRANCH</b>			DESIGN	By Justin Woody	CHECKED	Alireza Yazdani-Motlagh	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN <b>BRANCH 3</b>	BRIDGE No.	<b>UNIVERSITY AVENUE OC (WIDEN)</b>	
SCALE:	VERT. DATUM: NAVD88	SURVEYED BY DISTRICT	DETAILS	By Jay Reid	CHECKED	Alireza Yazdani-Motlagh			37-0092	<b>FOUNDATION PLAN</b>	
1" = 10'	HORIZ. DATUM: NAD83 (2017.5)	DRAFTED BY T. ZOLNIKOV	QUANTITIES	By Quang Nguyen	CHECKED	Armando Shane			POST MILE		
									25.88		
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REVISION 4/21/2021)			DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:27		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3646	COUNTY/ROUTE: SCI/082	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
			FILE => 00_37-0092_allplans_university_04180000321.dwg => s136693				PROJECT NUMBER & PHASE: 04180000321	CONTRACT No.: 04-09P804	REVISION DATES		
									08/02/22	SHEET 3 OF 11	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
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DRAFT

LEGEND:

----- Existing Structure

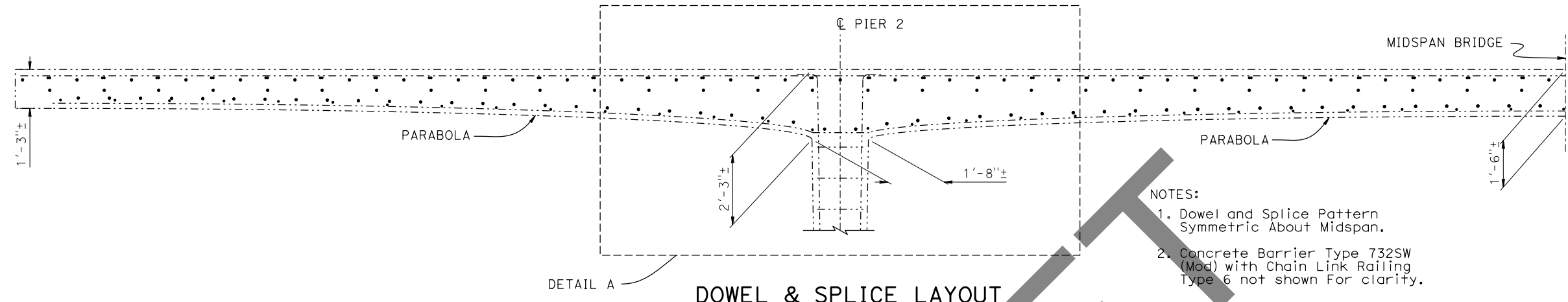
NOTES:

1. For Drill and Bond Dowel and Mechanical Splice Layout, See "Dowel and Splice Layout" and "Detail A" on "Miscellaneous Details No. 1" Sheet.
2. Bottom of New Overhang to Follow Existing Parabola.
3. For Concrete Barrier Type 732SW Details and Reinforcement Not Shown, See Standard Plan B11-58.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

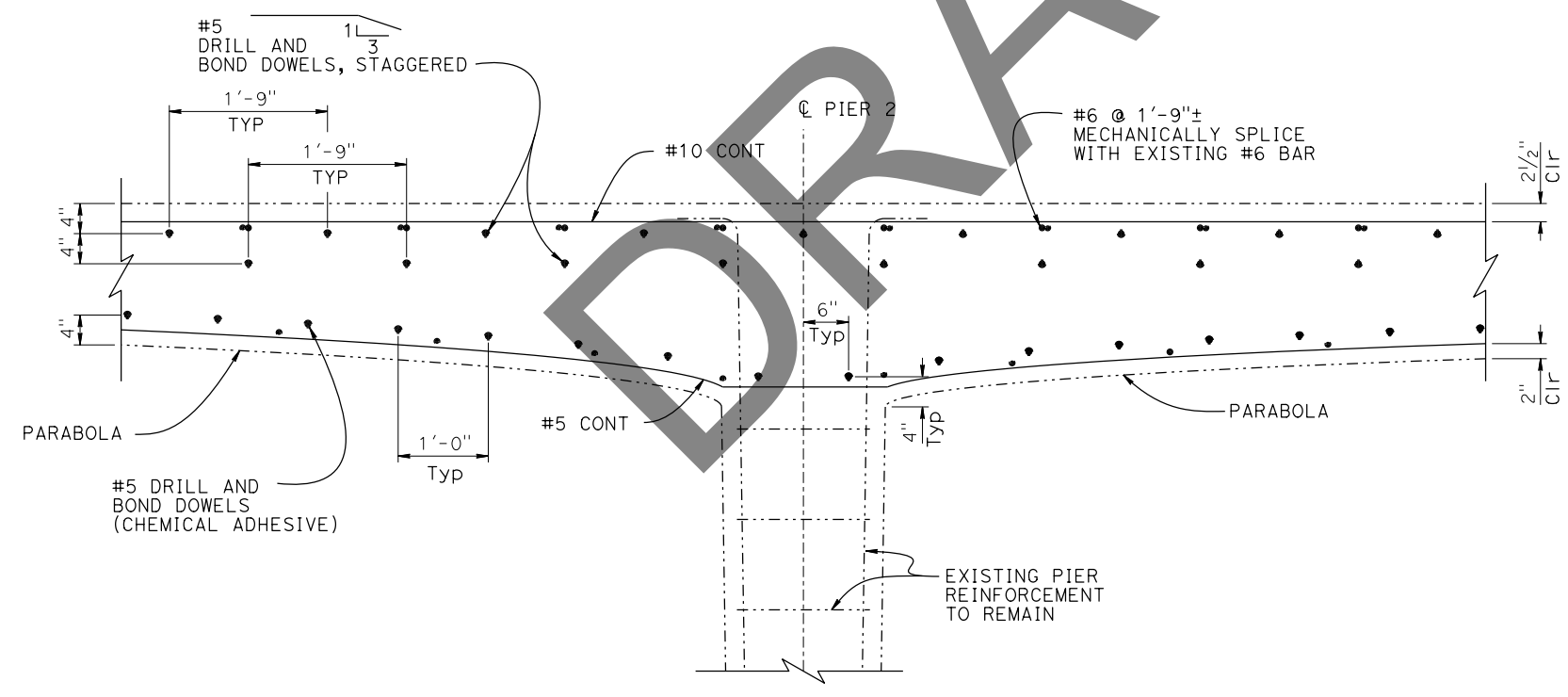
DESIGN	BY Justin Woody	CHECKED Alireza Yazdani-Motlagh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No. 37-0092	UNIVERSITY AVENUE OC (WIDEN) TYPICAL SECTION
	DETAILS	BY Jay Reid			CHECKED Alireza Yazdani-Motlagh	
QUANTITIES	BY Quang Nguyen	CHECKED Armando Shane				
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:27 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 3-28-22 12-16-22 2-16-23
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)						SHEET 4 OF 11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



- NOTES:
- Dowel and Splice Pattern Symmetric About Midspan.
  - Concrete Barrier Type 732SW (Mod) with Chain Link Railing Type 6 not shown For clarity.

LEGEND:  
----- Existing Structure

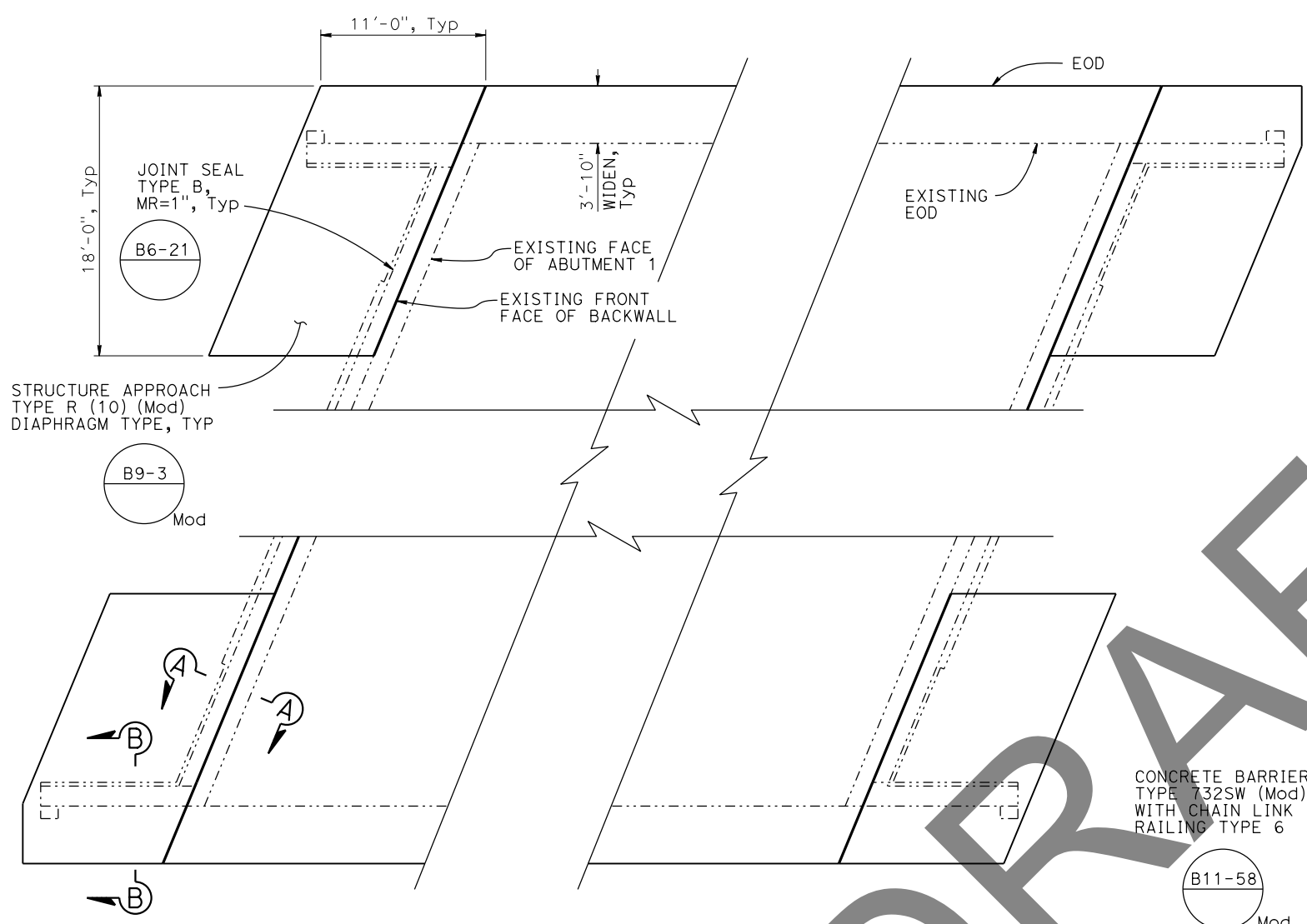


NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

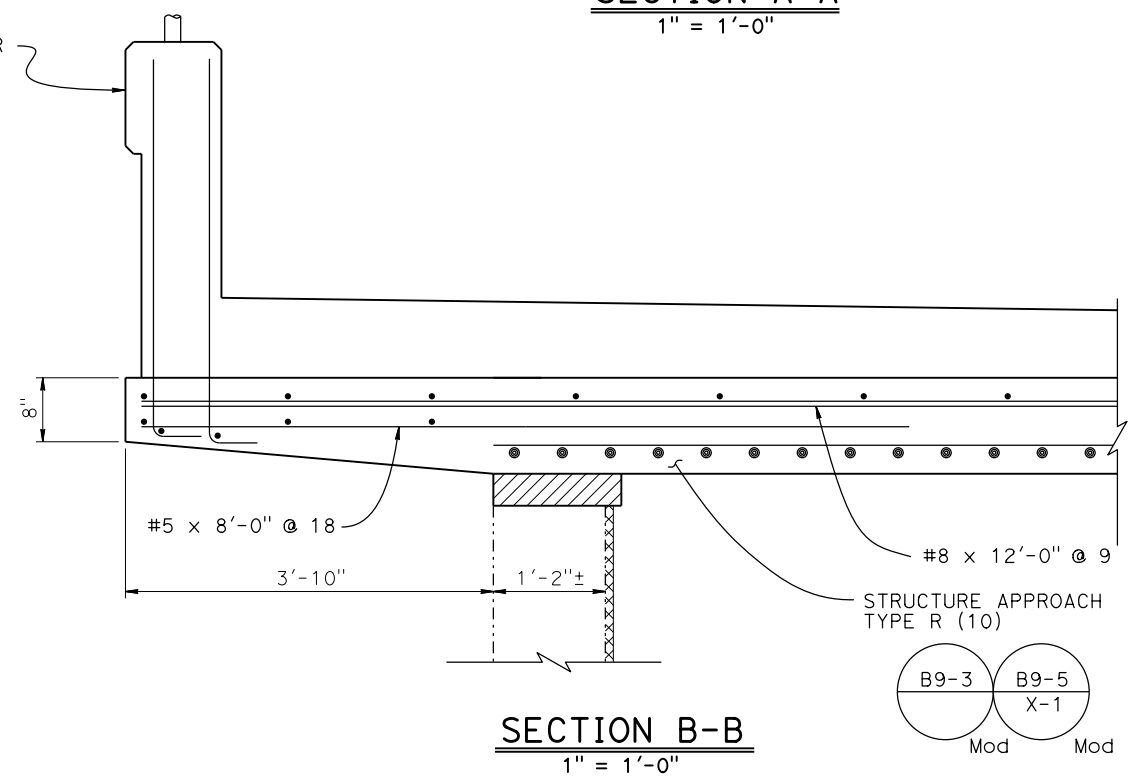
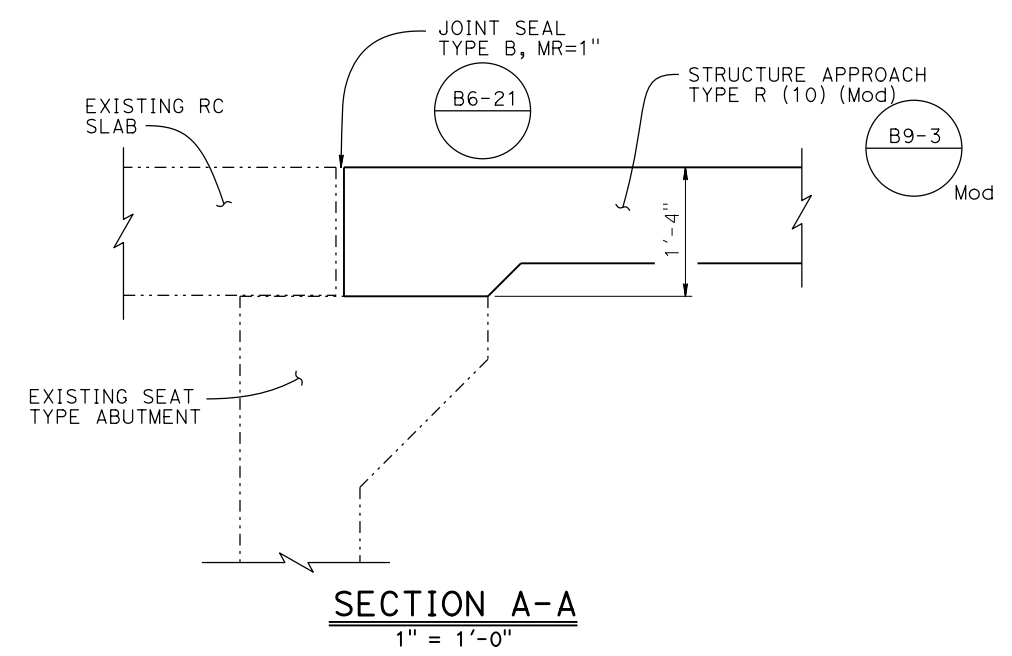
DESIGN	BY Justin Woody	CHECKED Alireza Yazdani-Motlagh	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF ENGINEERING SERVICES</b> BRIDGE DESIGN <b>BRANCH 3</b>	BRIDGE No.	<b>UNIVERSITY AVENUE OC (WIDEN)</b> <b>MISCELLANEOUS DETAILS No. 1</b>										
	DETAILS	BY Jay Reid			CHECKED Alireza Yazdani-Motlagh		37-0092									
QUANTITIES	BY Quang Nguyen	CHECKED Armando Shane			POST MILE											
					25.88											
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)		DATE PLOTTED => 16-FEB-2023	TIME PLOTTED => 13:27	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3578	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF		
		FILE => 00_37-0092_allplans_university	REVISED => s136693						PROJECT NUMBER & PHASE: 04180000321	CONTRACT No.: 04-0P9804		3-22	12-22	2-16-23	5	11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
				X	
REGISTERED CIVIL ENGINEER				DATE	
				Justin Woody	
				No. 92764	
				Exp. 12-31-23	
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

LEGEND:  
 ----- Existing Structure



**APPROACH SLAB DETAILS**  
 3/16" = 1'-0"



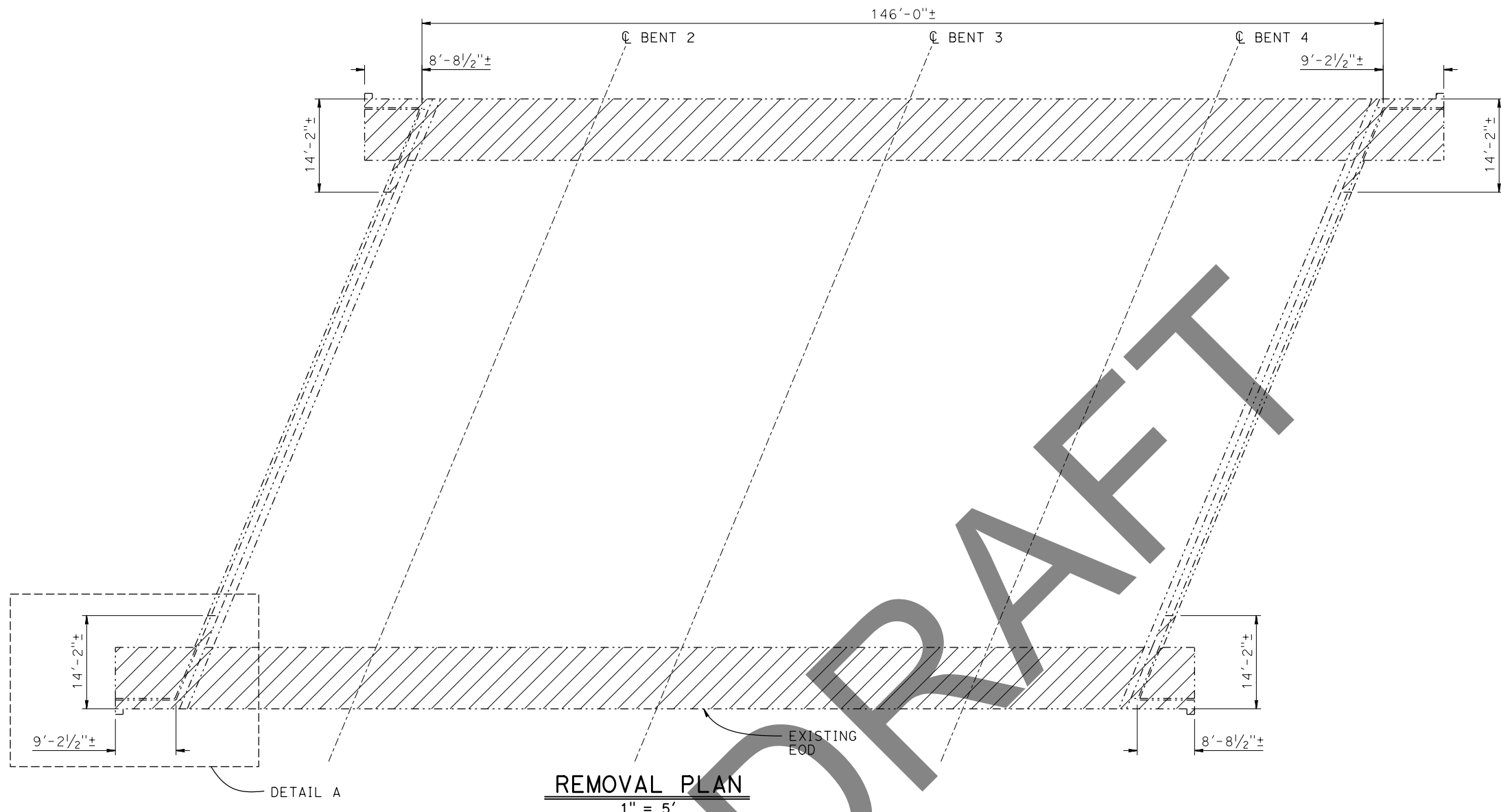
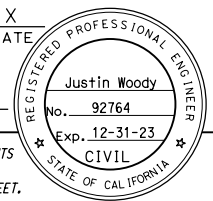
- NOTES:
1. Portion of Existing Backwall to be Removed, See "Bridge Removal Details" Sheet.
  2. For Details and Reinforcement Not Shown, See Standard Plan B9-3 and B9-5.

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Justin Woody	CHECKED Alireza Yazdani-Motlagh	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF ENGINEERING SERVICES</b> <b>BRIDGE DESIGN</b> <b>BRANCH 3</b>	BRIDGE No.	<b>UNIVERSITY AVENUE OC (WIDEN)</b> <b>MISCELLANEOUS DETAILS No. 2</b>						
DETAILS	BY Jay Reid	CHECKED Alireza Yazdani-Motlagh			37-0092							
QUANTITIES	BY Quang Nguyen	CHECKED Armando Shane			25.88							
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:27 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>3-22 12-16-22 2-16-23</td> <td>6</td> <td>11</td> </tr> </table>	REVISION DATES	SHEET	OF	3-22 12-16-22 2-16-23	6	11
REVISION DATES	SHEET	OF										
3-22 12-16-22 2-16-23	6	11										

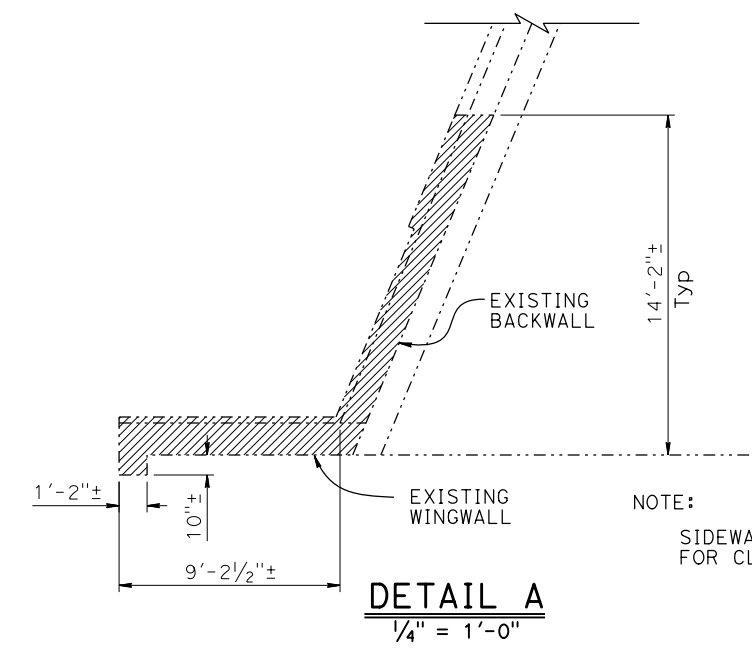


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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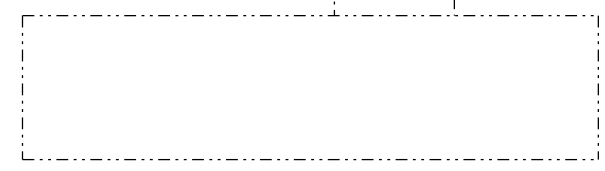
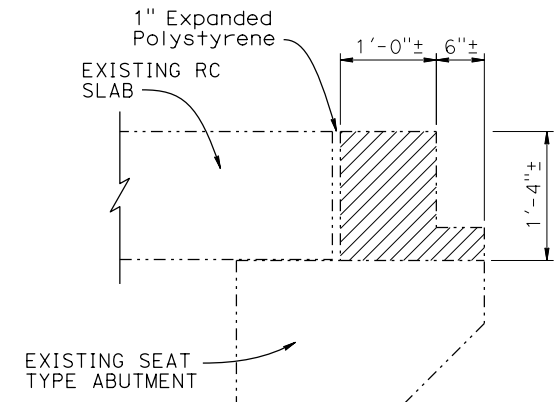
LEGEND:  
 - - - - - Existing Structure  
 [Hatched Box] Limits of Bridge Removal (Portion)

NOTE:  
 For Bridge Removal Details Not Shown, See "Bridge Removal Details No. 2" Sheet



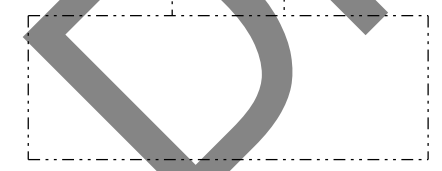
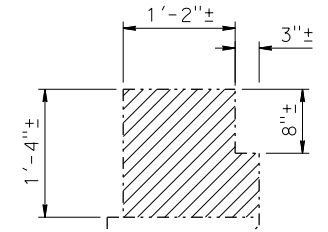
NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Justin Woody	CHECKED Alireza Yazdani-Motlagh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No. 37-0092	UNIVERSITY AVENUE OC (WIDEN) BRIDGE REMOVAL DETAILS No. 1				
	DETAILS	BY Jay Reid			CHECKED Alireza Yazdani-Motlagh		POST MILE 25.88			
QUANTITIES	BY Quang Nguyen	CHECKED Armando Shane	UNIT: 3578	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES					
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:27 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			PROJECT NUMBER & PHASE: 04180000321		CONTRACT No.: 04-0P9804	REVISION DATES				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)						FILE => 00_37-0092_allplans_universityavenueoc => s136693	<table border="1"> <tr> <td>9-28-22</td> <td>12-16-22</td> <td>2-16-23</td> </tr> </table>	9-28-22	12-16-22	2-16-23
9-28-22	12-16-22	2-16-23								
						SHEET 7	OF 11			



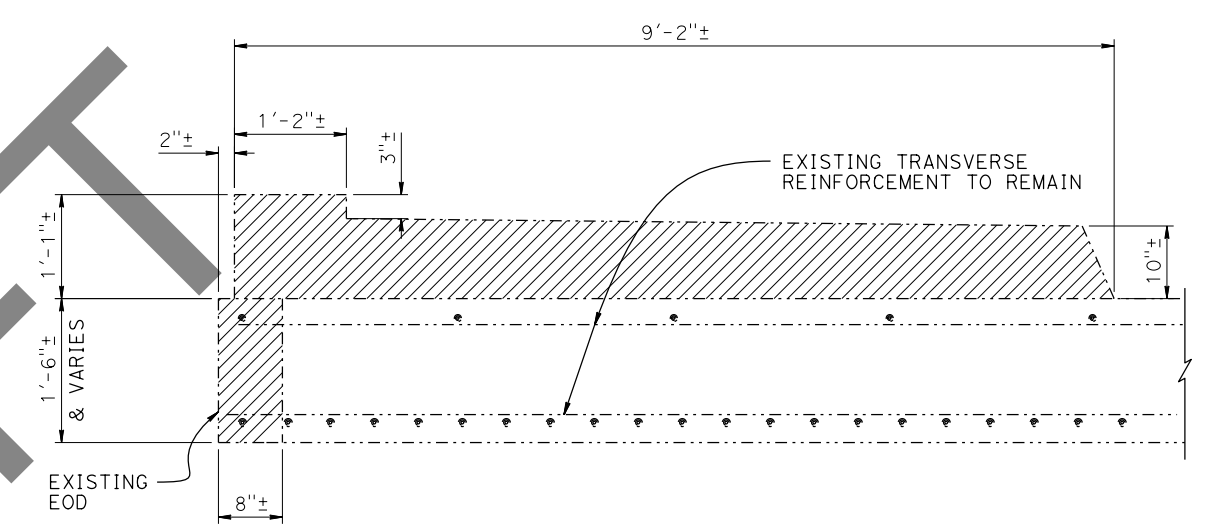
NOTE:  
Cut existing Reinforcement 1" below removal line and fill with non-shrink grout

**ABUTMENT REMOVAL**  
1" = 1'-0"



NOTE:  
Cut existing Reinforcement 1" below removal line and fill with non-shrink grout

**WINGWALL REMOVAL**  
1" = 1'-0"



**TYPICAL REMOVAL**  
1" = 1'-0"

LEGEND:  
----- Existing Structure  
▨ Limits of Bridge Removal (Portion)

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Justin Woody	CHECKED Alireza Yazdani-Motlagh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	UNIVERSITY AVENUE OC (WIDEN) BRIDGE REMOVAL DETAILS No. 2
	DETAILS	BY Jay Reid			CHECKED Alireza Yazdani-Motlagh	
QUANTITIES	BY Quang Nguyen	CHECKED Armando Shane			POST MILE	25.88

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)

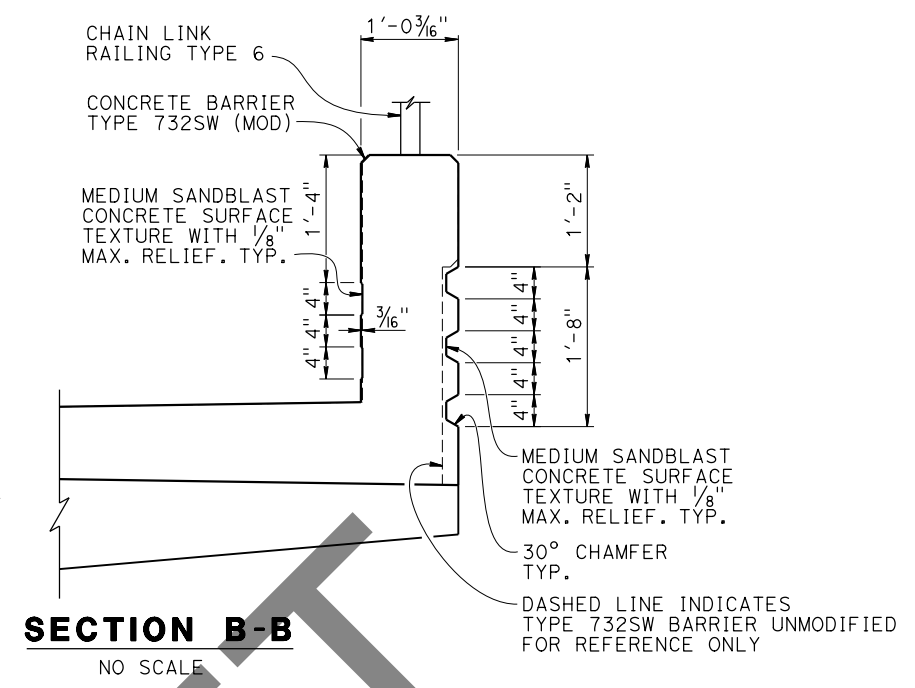
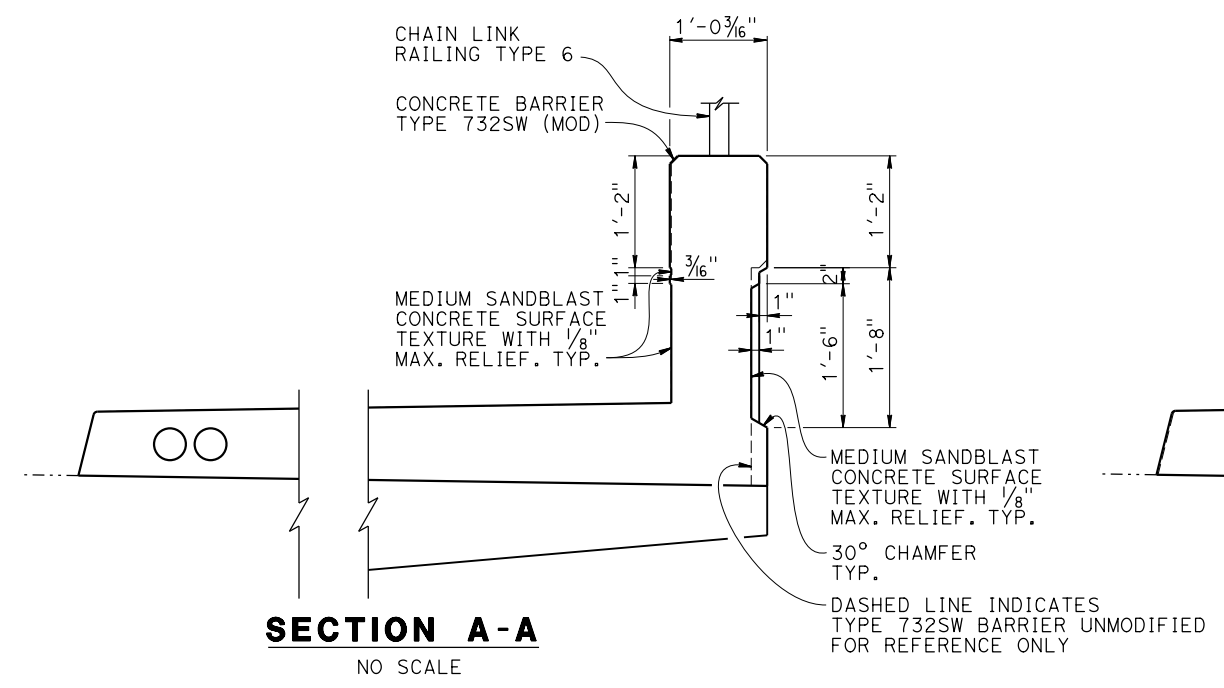
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:27 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

FILE => 00\_37-0092\_allplans\_universityavenueoc => s136693

UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321 COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-22 12-22 2-16-23	8	11

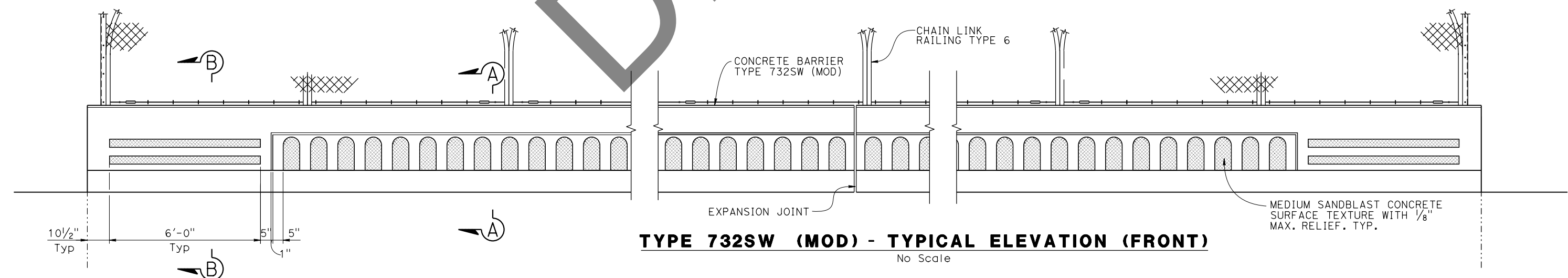
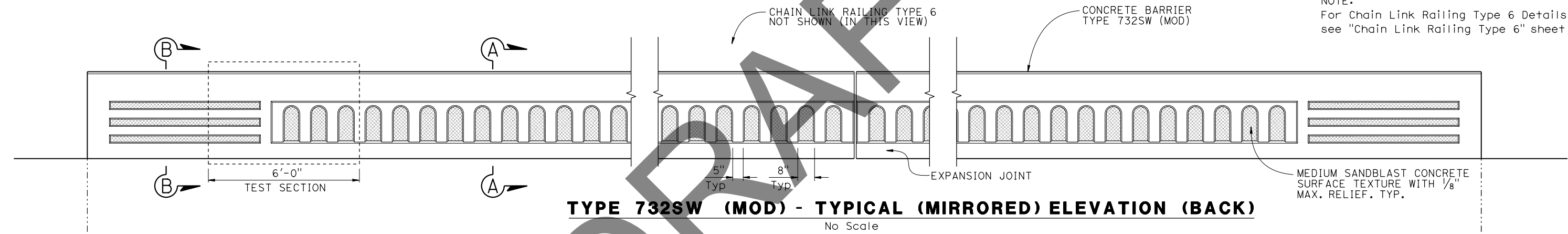


NOTE:  
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND:  
 - - - - - Indicates existing structure  
 \_\_\_\_\_ Indicates new structure

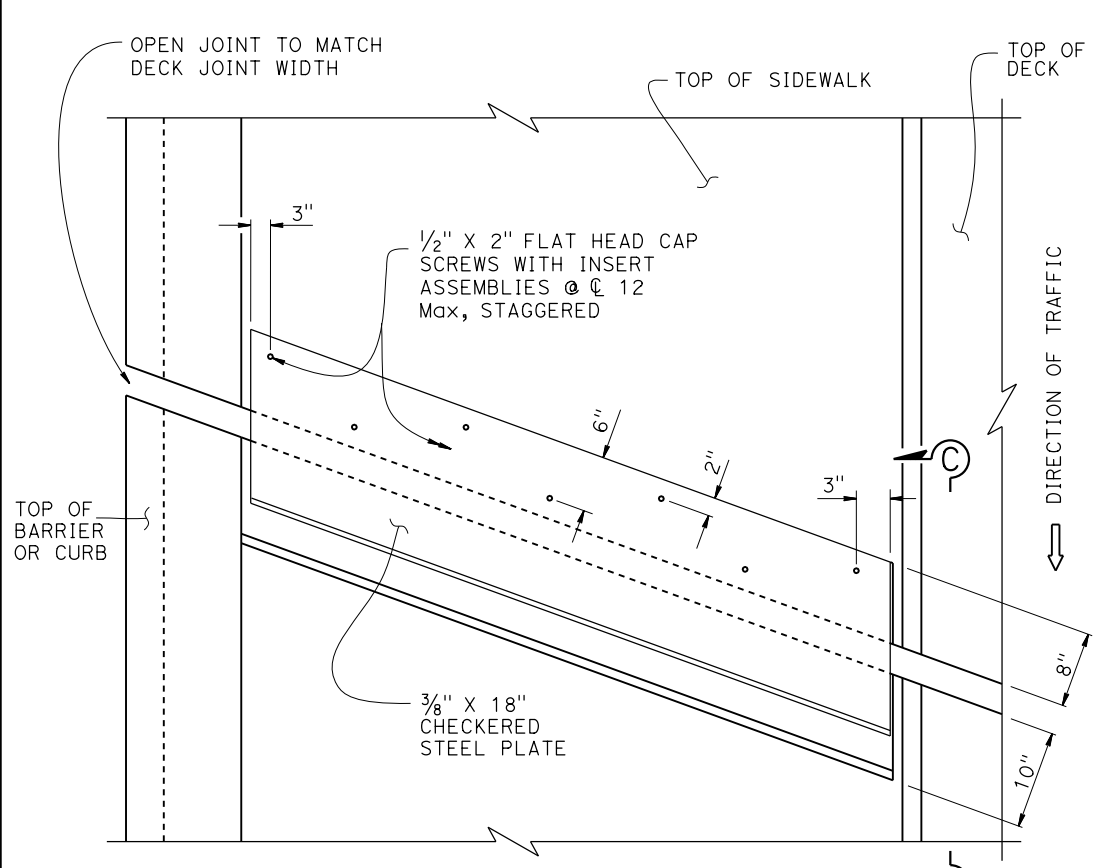
Indicates MEDIUM SANDBLAST CONCRETE SURFACE TEXTURE WITH 1/8" max. relief.

NOTE:  
For Chain Link Railing Type 6 Details, see "Chain Link Railing Type 6" sheet

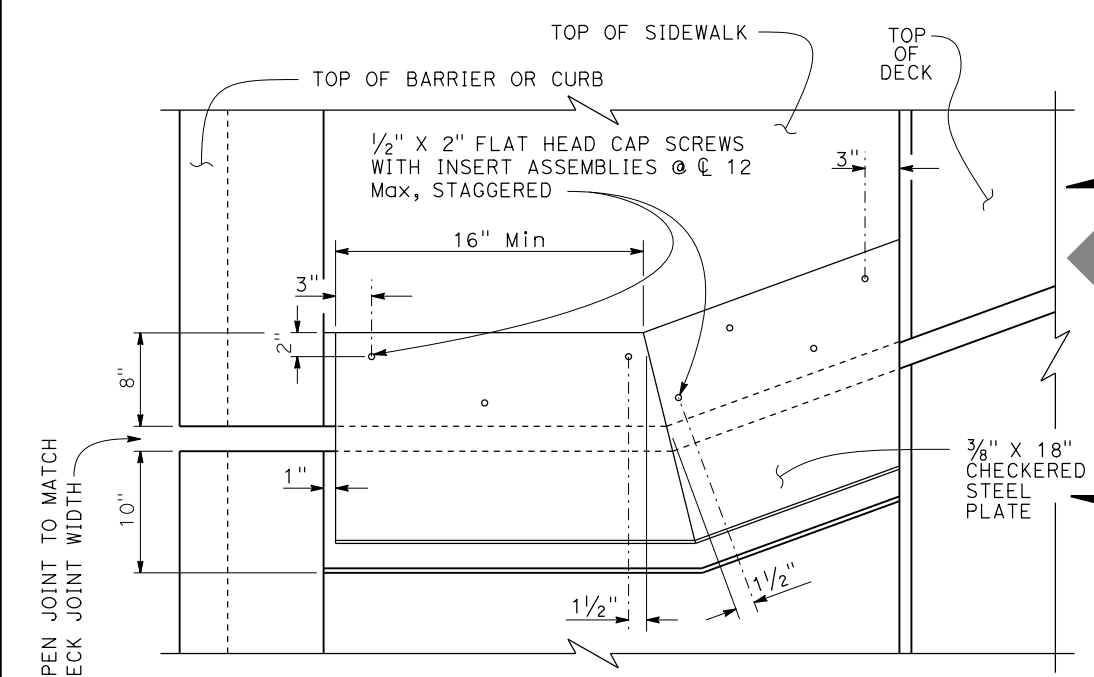


STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DESIGN	BY S. HEATH	CHECKED A. ALMAM	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURES & ENGINEERING SERVICES BRIDGE ARCHITECTURE & AESTHETICS	BRIDGE No.	UNIVERSITY AVENUE OC (WIDEN) ARCHITECTURAL DETAILS		
	DETAILS	BY S. HEATH	CHECKED A. ALMAM			37-0092			
	QUANTITIES	BY Quang Nguyen	CHECKED Armando Shane			POST MILE 25.88			
DATE PLOTTED => 16-FEB-2023	TIME PLOTTED => 13:27	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3583	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9	OF 11

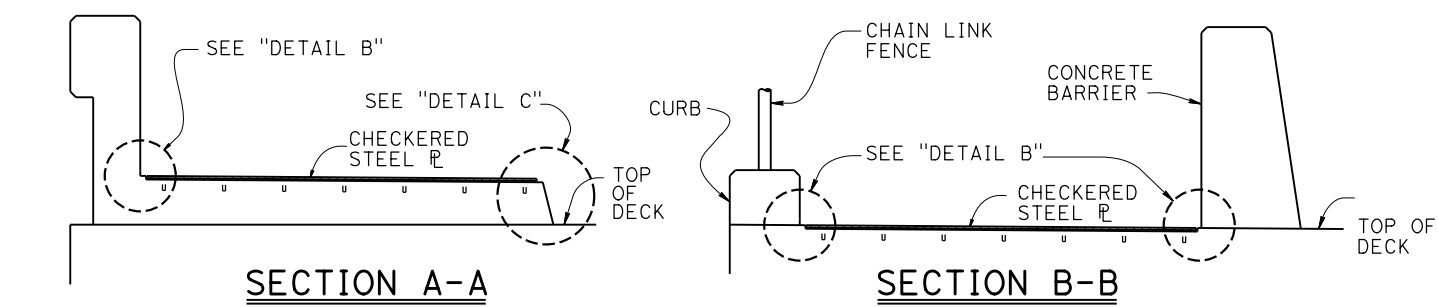
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			REGISTERED PROFESSIONAL ENGINEER		
			Justin Woody		
			No. 92764		
			Exp. 12-31-23		
			CIVIL		
			STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					
The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.					



**PLAN SKEW ≤ 20°**

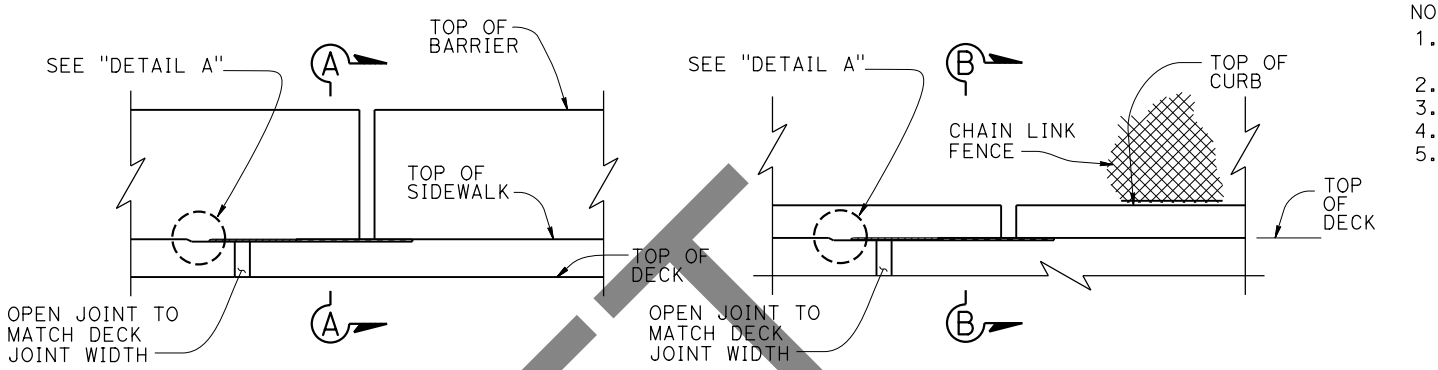


**PLAN SKEW > 20°**



**SECTION A-A**

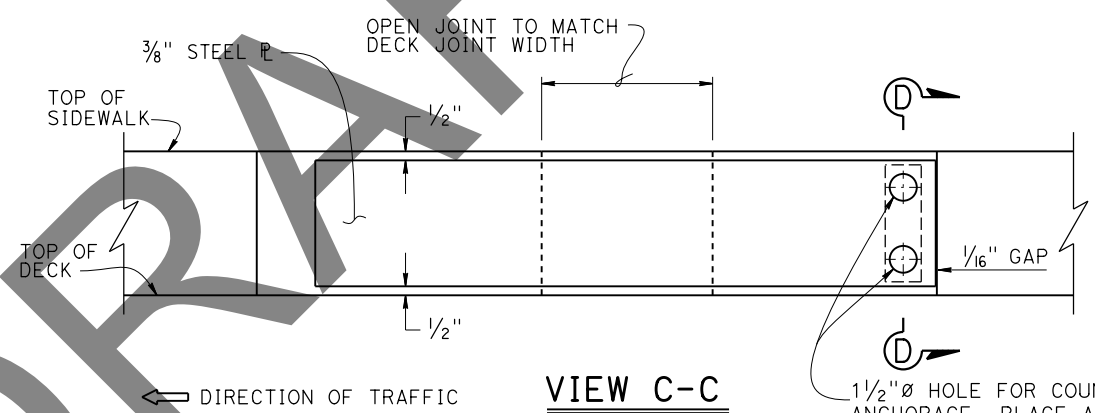
**SECTION B-B**



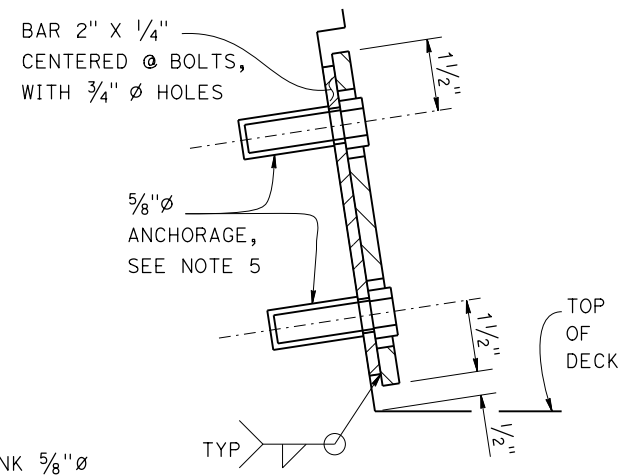
**ELEVATION**

**ELEVATION**

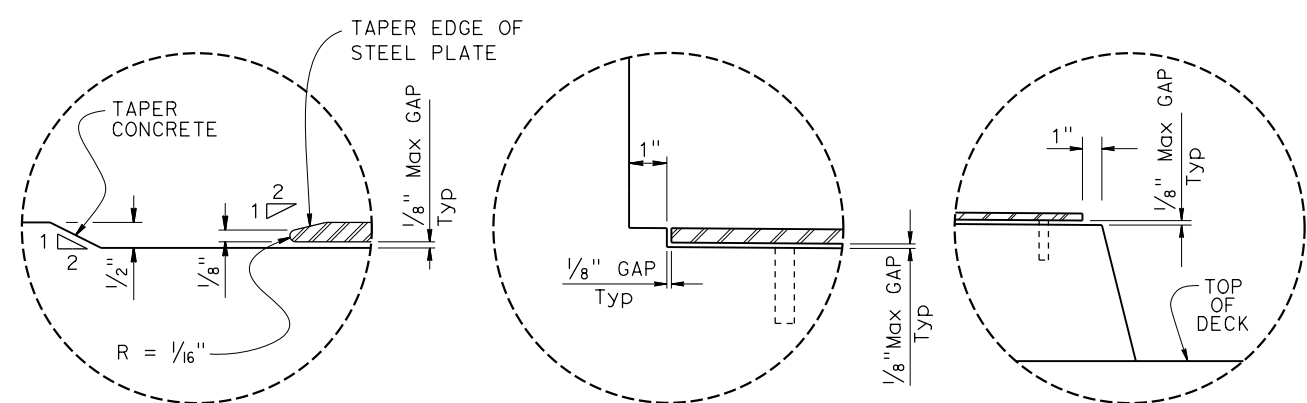
NOTE: Barrier not shown for clarity



**VIEW C-C**



**SECTION D-D**



**DETAIL A**

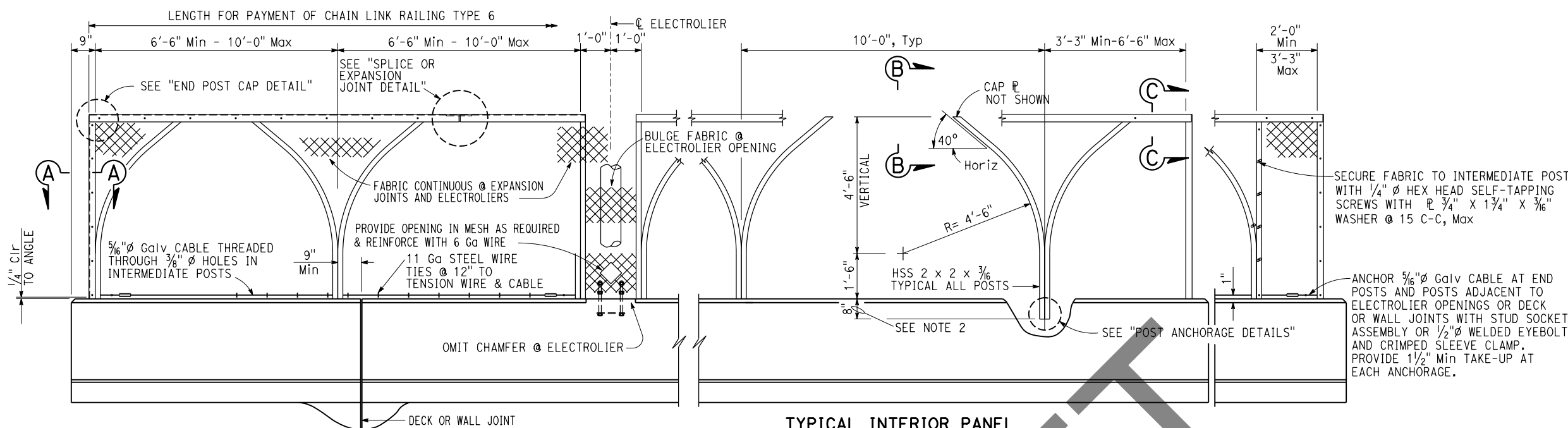
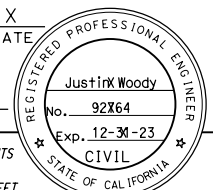
**DETAIL B**

**DETAIL C**

NO SCALE

<b>BRIDGE STANDARD DETAILS</b>		The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California.	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF ENGINEERING SERVICES</b>	BRIDGE NO. 37-0092	<b>UNIVERSITY AVENUE OC (WIDEN)</b>
FILE NO. x88-050	APPROVAL DATE October 2018				POST MILE 25.88	
Refer to: <a href="http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html">http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html</a>		FILE => 00_37-0092_allplans_universityave.dgn	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3578	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES
USERNAME => s136693	TIME PLOTTED => 13:27	DATE PLOTTED => 16-FEB-2023	0 1 2 3	PROJECT NUMBER & PHASE: 04180000321	CONTRACT NO.: 04-0P9804	REVISION DATES
						7-24-14 9-11-18 10-2-18 8-28-18
						SHEET 10 OF 11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
DDDD	CCCC	RRRR	PPPP	????	####
REGISTERED CIVIL ENGINEER			X	DATE	
MM/DD/YYYY					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.					



### GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

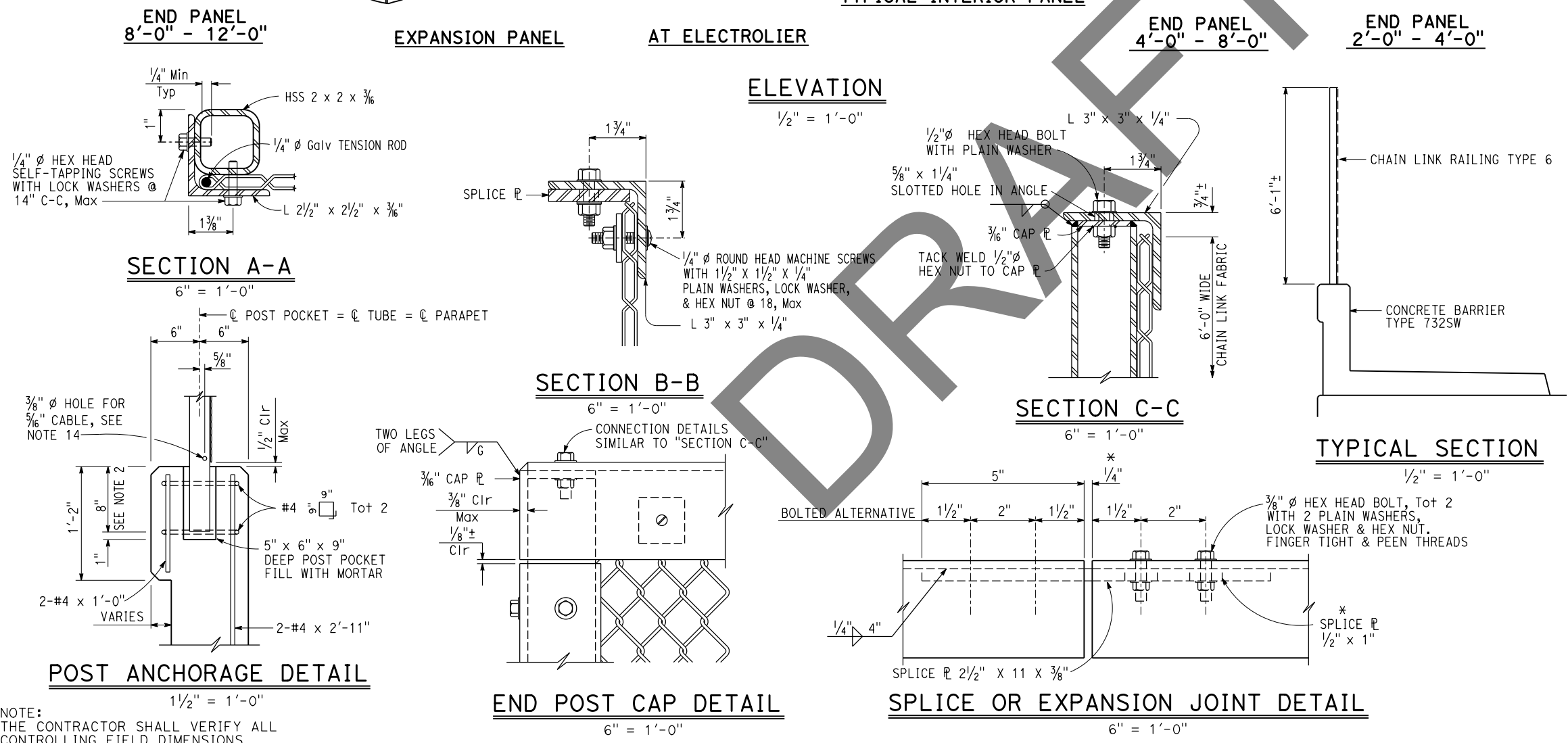
DESIGN:  
AASHTO LRFD Bridge Design Specifications,  
8th Edition 2017 with California  
Amendments April 2019

CONCRETE:  
 $f_y = 60\text{ksi}$   $f'_c = 3.6\text{ksi}$

STRUCTURAL STEEL:  
 $f_y = 36\text{ksi}$

NOTES:

- Horizontal angle must be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
- One post may be embedded 6" minimum to accommodate grade changes, otherwise fabricate post lengths as required.
- Curved posts may be rotated in plane within post pockets to accommodate curved horizontal alignment.
- Straight posts and straight portions of curved posts must be installed normal to bridge profile grade.
- Top horizontal angle must be parallel to bridge profile grade and must be shop bent to fit horizontal curves.
- When railing is on slope, fabric must be placed parallel to slope.
- Alternative details may be submitted by Contractor for Engineer's approval.
- For details and reinforcement not shown, see Std Plan B11-58, "CONCRETE BARRIER TYPE 732SW (SHEET 1 OF 2)".
- See Bridge Plans for limits of Chain Link Railing Type 6.
- Provide thimbles at all cable loops.
- Chain link fabric to be 6'-0" wide with 1" mesh and with knuckled selvage top and bottom.
- When railing is placed on a horizontal alignment with a radius of 150'-0" or less, thread  $\frac{5}{16}$ " cable through  $\frac{3}{8}$ " x welded eye rods embedded 4" into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between  $\frac{5}{16}$ " cable and the curve to 1" maximum.
- Splices and expansion joints must be located at  $\text{C}$  panel.
- Holes in posts for  $\frac{5}{16}$ " cable and its anchorage may be field drilled and painted with zinc rich paint.
- Design valid for bridges with the top of chain link railing type 6 equal to or less than 180' height above surrounding ground surfaces.



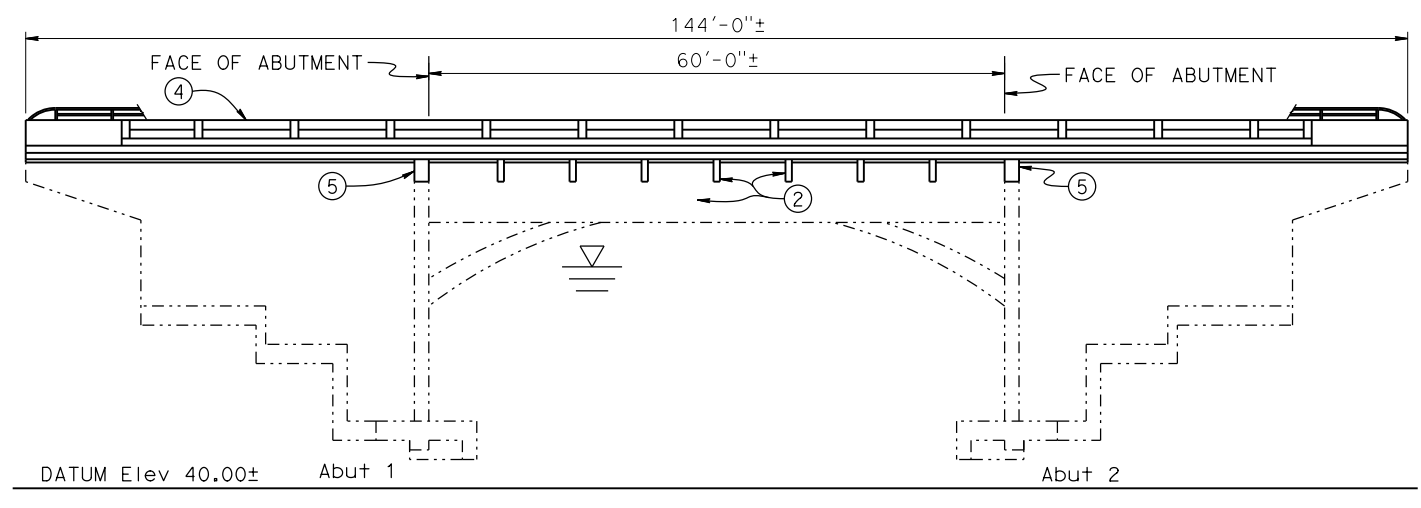
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

BRIDGE STANDARD DETAILS		
xs16-200 FILE NO.	July 2020 APPROVAL DATE	The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California

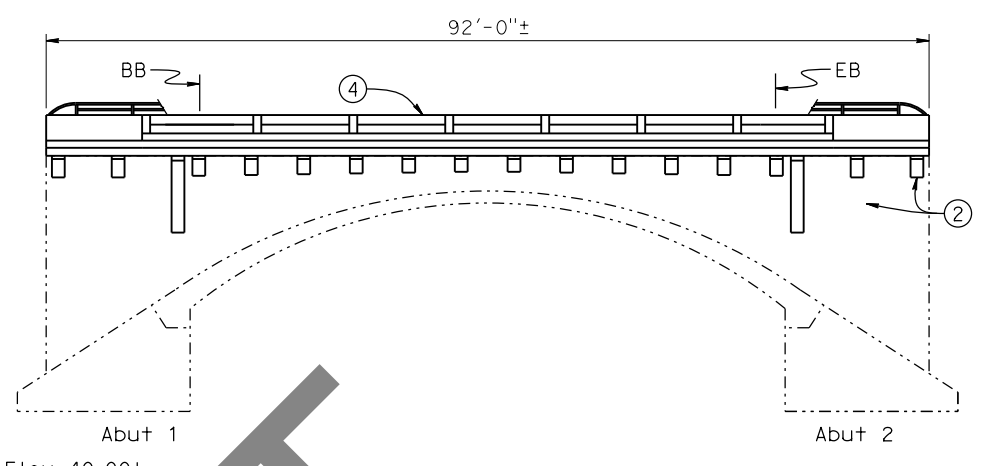
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No. 37-0092	<b>UNIVERSITY AVENUE OC (WIDEN)</b> <b>CHAIN LINK RAILING TYPE 6</b>
		POST MILE 25.88	

# DRAFT SPS&E

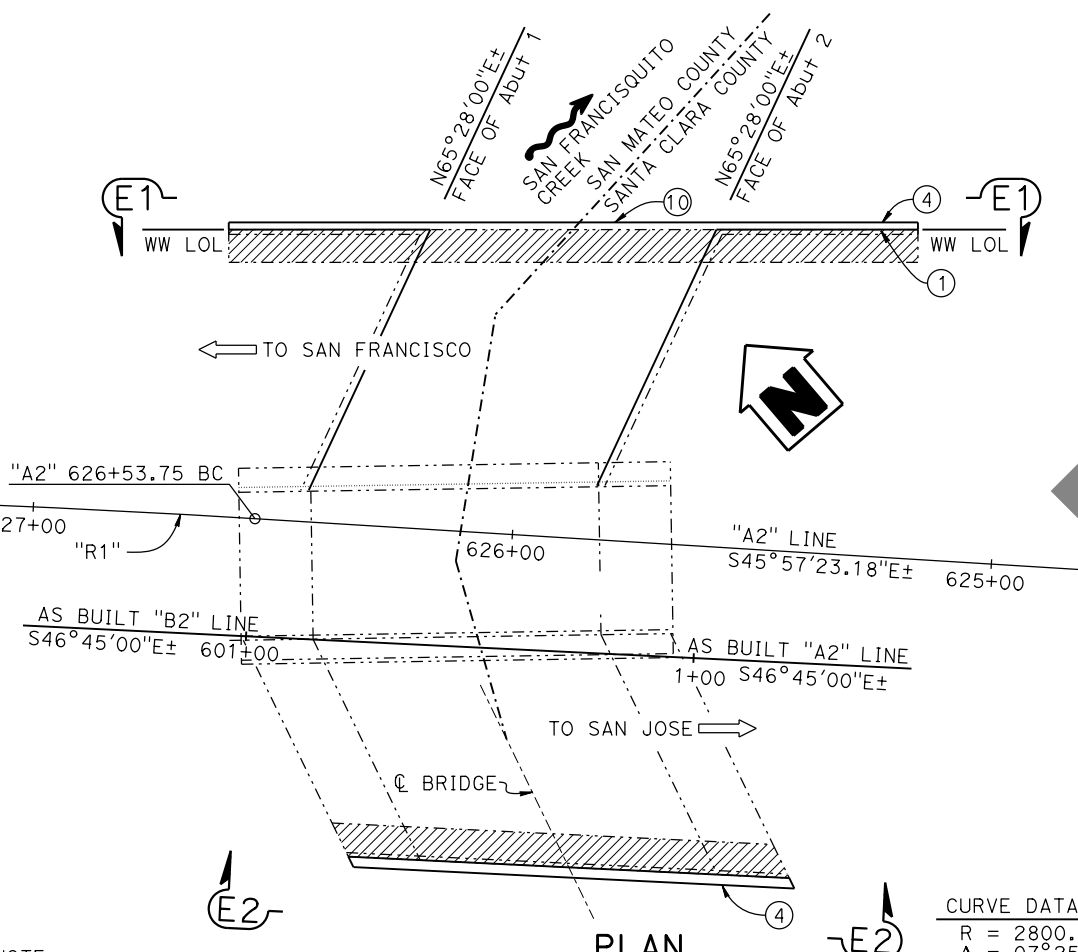
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
X					
Justin Woody			No. 92764		
PLANS APPROVAL DATE			Exp. 12-31-23		
CIVIL			STATE OF CALIFORNIA		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



**MIRRORED ELEVATION E1**  
NO SCALE



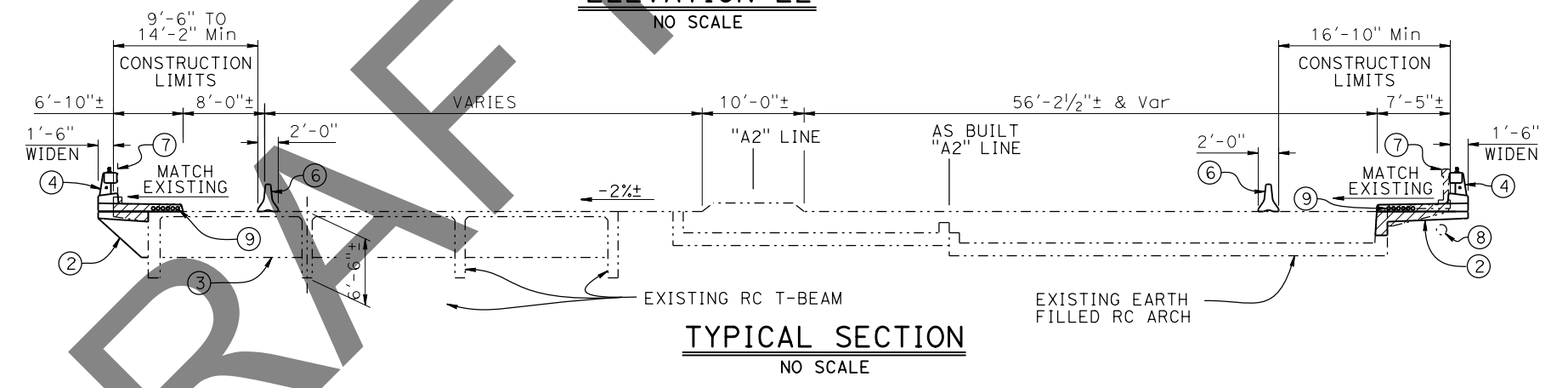
**ELEVATION E2**  
NO SCALE



**PLAN**  
NO SCALE

**CURVE DATA "R1"**  
 R = 2800.00'  
 Δ = 07°25'17"  
 T = 181.59'  
 L = 362.67'

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



**TYPICAL SECTION**  
NO SCALE

NOTES:  
For "INDEX TO PLANS", "STANDARD PLANS" list, "QUANTITIES" and "GENERAL NOTES", see "INDEX TO PLANS" Sheet.

LEGEND:  
 - - - - - Existing Structure  
 [Hatched Area] Limits of Bridge Removal (Portion) including rail removal  
 ▽ High Water Mark

- NOTES:
- ① Paint "SAN FRANCISQUITO BRIDGE No. 37-0018" 1955
  - ② CORBEL
  - ③ EXISTING INTERMEDIATE INTERNAL DIAPHRAGM, Tot 3
  - ④ CONCRETE BARRIER TYPE 85SW WITH TUBULAR HAND RAILING
  - ⑤ ABUTMENT WIDENING
  - ⑥ TEMPORARY CONCRETE BARRIER (TYPE K), SEE ROADWAY PLANS
  - ⑦ EXISTING BALUSTER BARRIER RAILING AND CURB TO BE REMOVED
  - ⑧ EXISTING CONDUIT TO BE RELOCATED AND REPLACED BY OTHERS
  - ⑨ UTILITY CONDUITS, (4 FUTURE BROADBAND 2 ELECTRICAL), SEE ROADWAY PLANS
  - ⑩ ELECTROLIER, SEE ROADWAY PLANS

X BRANCH CHIEF	DESIGN	BY Justin Woody	CHECKED Mike Bergman	SEISMIC ANALYSIS	BY N/A	CHECKED N/A	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	37-0018	SAN FRANCISQUITO CREEK BR (WIDEN) GENERAL PLAN						
	DETAILS	BY Jay Reid	CHECKED Mike Bergman	LAYOUT	BY Justin Woody	CHECKED Mike Bergman			POST MILE	26.36							
	QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero	SPECIFICATIONS	BY X	PLANS AND SPECS COMPARED X											
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REVISION 2/8/2022)		DATE PLOTTED => 16-FEB-2023		TIME PLOTTED => 13:20		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3578		COUNTY/ROUTE: SCL/82		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET 1 OF 19	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_ X

PLANS APPROVAL DATE \_\_\_\_\_

Justin Woody  
No. 92764  
Exp. 12-31-23  
CIVIL  
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

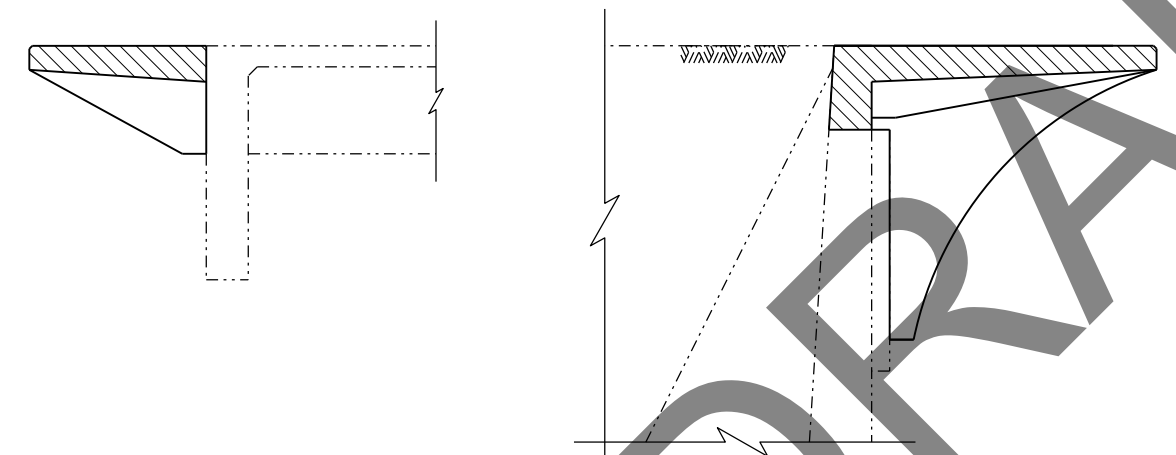
## GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

**DESIGN:**  
AASHTO LRFD Bridge Design Specifications,  
2017 edition with California Amendments,  
preface dated April 2019

**STANDARD PLANS:**  
2022 Standard Plans and Revised Standard Plans

**LIVE LOADING:**  
HL93 and permit design load

**REINFORCED CONCRETE:**  
f<sub>y</sub> = 60 ksi  
f'<sub>c</sub> = 3.6 ksi  
n = 8



**LEGEND:**

----- Existing Structure

Structural Concrete, Bridge (Polymer Fiber)  
(4 ksi at 28 days)

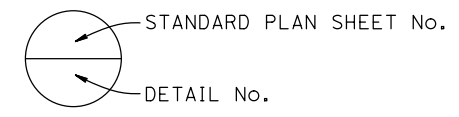
Structural Concrete, Bridge

### CONCRETE STRENGTH AND TYPE LIMITS

3/8" = 1'-0"

### INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	FOUNDATION PLAN
4	ABUTMENT DETAILS No. 1
5	ABUTMENT DETAILS No. 2
6	ABUTMENT DETAILS No. 3
7	TYPICAL SECTION
8	MISCELLANEOUS DETAILS
9	BRIDGE REMOVAL DETAILS No. 1
10	BRIDGE REMOVAL DETAILS No. 2
11	CONCRETE BARRIER SLAB DETAILS
12	CONCRETE BARRIER TYPE 85SW DETAILS No. 1
13	CONCRETE BARRIER TYPE 85SW DETAILS No. 2
14	CONCRETE BARRIER TYPE 85SW DETAILS No. 3
15	CONCRETE BARRIER TYPE 85SW DETAILS No. 4
16	JOINT ARMOR FOR PEDESTRIAN WALKWAYS
17	ARCHITECTURAL DETAILS No. 1
18	ARCHITECTURAL DETAILS No. 2
19	ARCHITECTURAL DETAILS No. 3



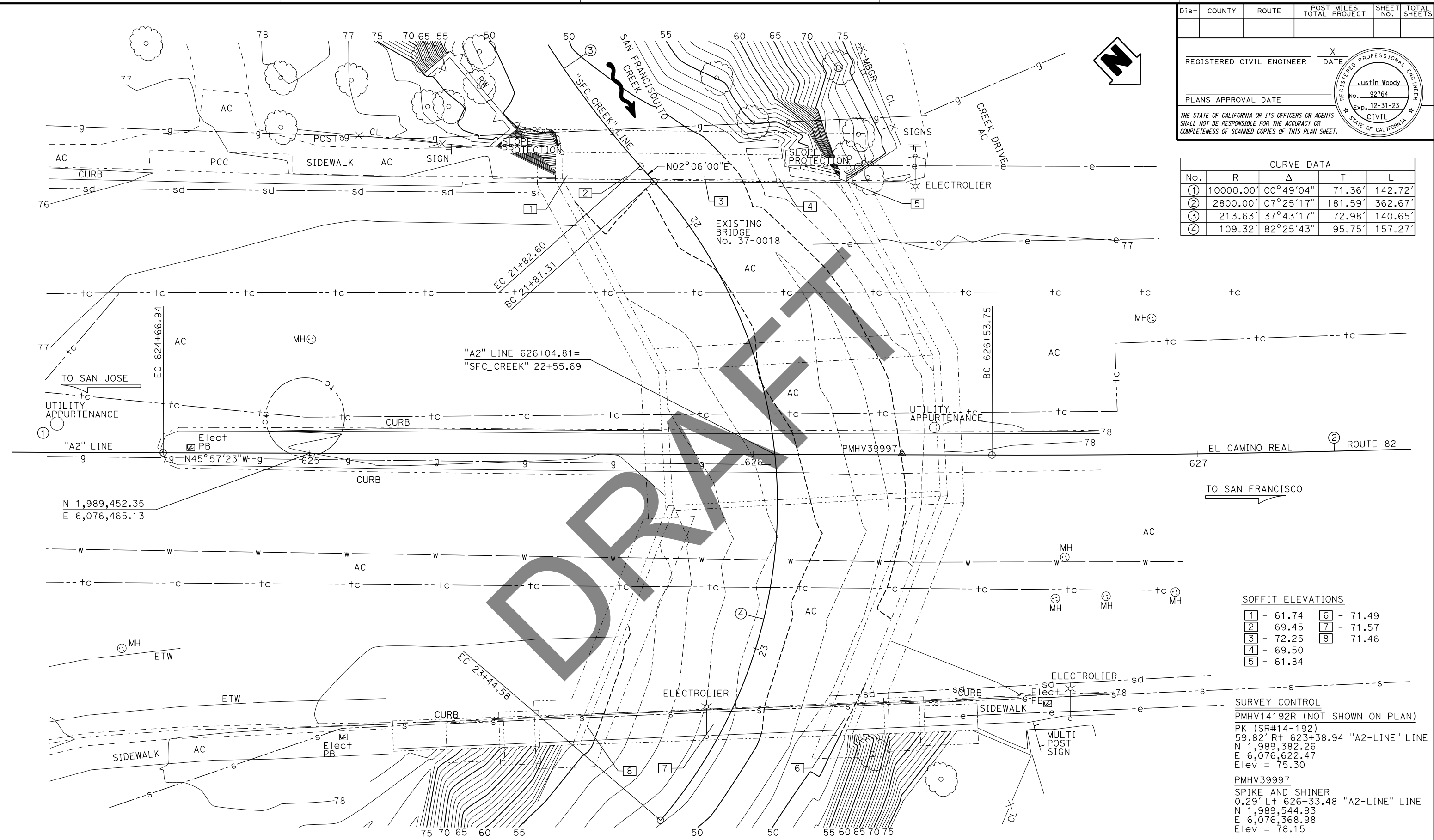
**NOTE:**  
THE CONTRACTOR SHALL VERIFY ALL  
CONTROLLING FIELD DIMENSIONS  
BEFORE ORDERING OR FABRICATING  
ANY MATERIAL.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">DESIGN</td> <td style="width: 20%;">BY Justin Woody</td> <td style="width: 20%;">CHECKED Mike Bergman</td> </tr> <tr> <td>DETAILS</td> <td>BY Jay Reid</td> <td>CHECKED Mike Bergman</td> </tr> <tr> <td>QUANTITIES</td> <td>BY Justin Woody</td> <td>CHECKED Alexis Guerrero</td> </tr> </table>	DESIGN	BY Justin Woody	CHECKED Mike Bergman	DETAILS	BY Jay Reid	CHECKED Mike Bergman	QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN <b>BRANCH 3</b>	BRIDGE No. 37-0018 POST MILE 26.36	<b>SAN FRANCISQUITO CREEK BR (WIDEN)</b>  <b>INDEX TO PLANS</b>
	DESIGN	BY Justin Woody	CHECKED Mike Bergman										
DETAILS	BY Jay Reid	CHECKED Mike Bergman											
QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero											
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:20 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 FILE => 00_37-0018_allplans_sanfrancisco\BRANCH3\136693	UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES									

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE X  
 Justin Woody No. 92764 Exp. 12-31-23  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CURVE DATA				
No.	R	Δ	T	L
①	10000.00'	00°49'04"	71.36'	142.72'
②	2800.00'	07°25'17"	181.59'	362.67'
③	213.63'	37°43'17"	72.98'	140.65'
④	109.32'	82°25'43"	95.75'	157.27'



SOFFIT ELEVATIONS			
① - 61.74	⑥ - 71.49	⑦ - 71.57	⑧ - 71.46
② - 69.45	③ - 72.25	④ - 69.50	⑤ - 61.84

**SURVEY CONTROL**  
 PMHV14192R (NOT SHOWN ON PLAN)  
 PK (SR#14-192)  
 59.82' Rt 623+38.94 "A2-LINE" LINE  
 N 1,989,382.26  
 E 6,076,622.47  
 Elev = 75.30  
 PMHV39997  
 SPIKE AND SHINER  
 0.29' Lt 626+33.48 "A2-LINE" LINE  
 N 1,989,544.93  
 E 6,076,368.98  
 Elev = 78.15

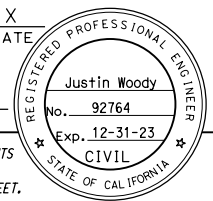
SURVEY MONUMENTS SHOWN ON THE FOUNDATION PLAN ARE FOR DESIGN PURPOSES ONLY. FOR COMPLETE LIST OF SURVEY MONUMENTS FOR THIS PROJECT, SEE ROADWAY PLANS.

PRELIMINARY INVESTIGATIONS BRANCH			DESIGN BY Justin Woody	CHECKED Mike Bergman	<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>DIVISION OF ENGINEERING SERVICES</b> <b>BRIDGE DESIGN</b> <b>BRANCH 3</b>	BRIDGE No. 37-0018	<b>SAN FRANCISQUITO CREEK BR (WIDEN)</b> <b>FOUNDATION PLAN</b>
SCALE: 1" = 20'	VERT. DATUM: NAVD88	SURVEYED BY DISTRICT	DETAILS BY Jay Reid	CHECKED Mike Bergman		POST MILE 26.36	
	HORIZ. DATUM: NAD83 (1991.35)	DRAFTED BY T. ZOLNIKOV	QUANTITIES BY Justin Woody	CHECKED Alexis Guerrero			

DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:20 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3  
 FILE => 00\_37-0018\_allplans\_sanfranciscocreekbr widening s136693 UNIT: 3646 PROJECT NUMBER & PHASE: 04180000321 COUNTY/ROUTE: SCI/082 CONTRACT No.: 04-0P9804  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES 01/29/22 REVISION DATES SHEET 3 OF 19

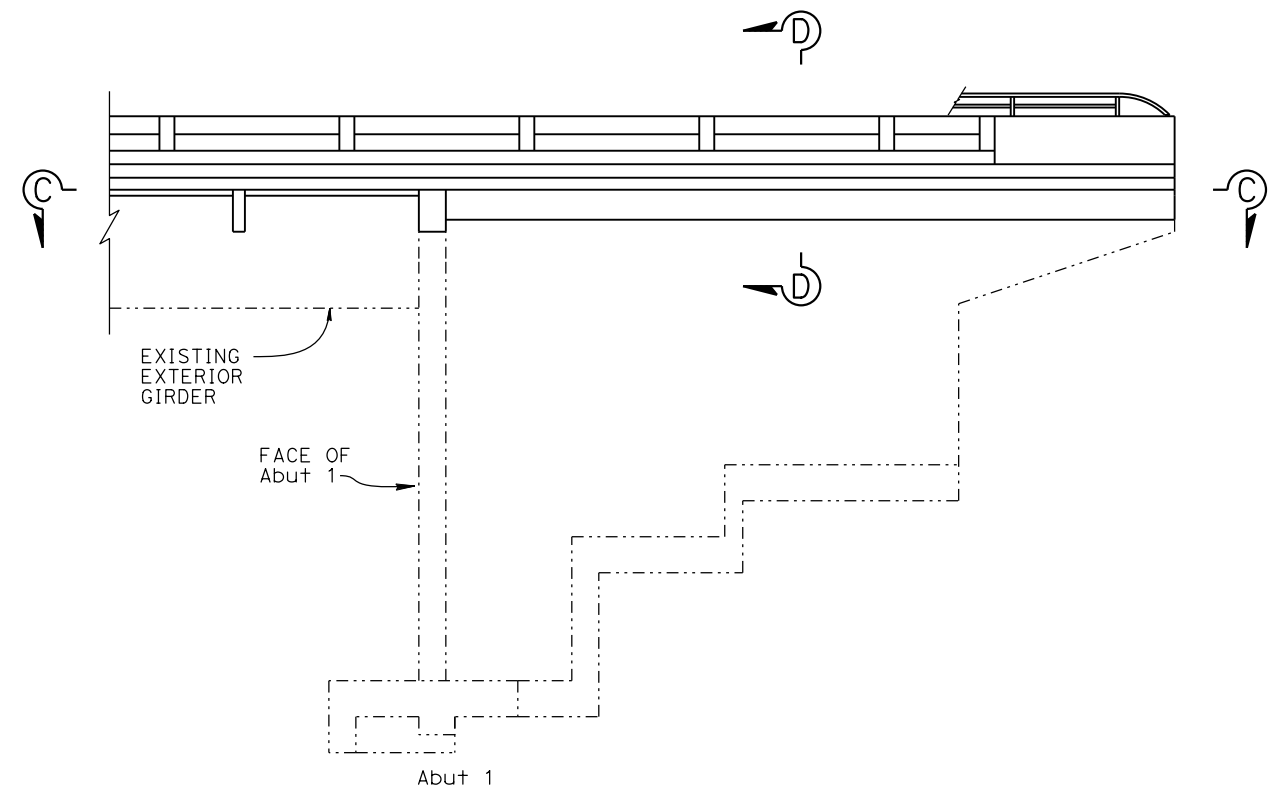


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

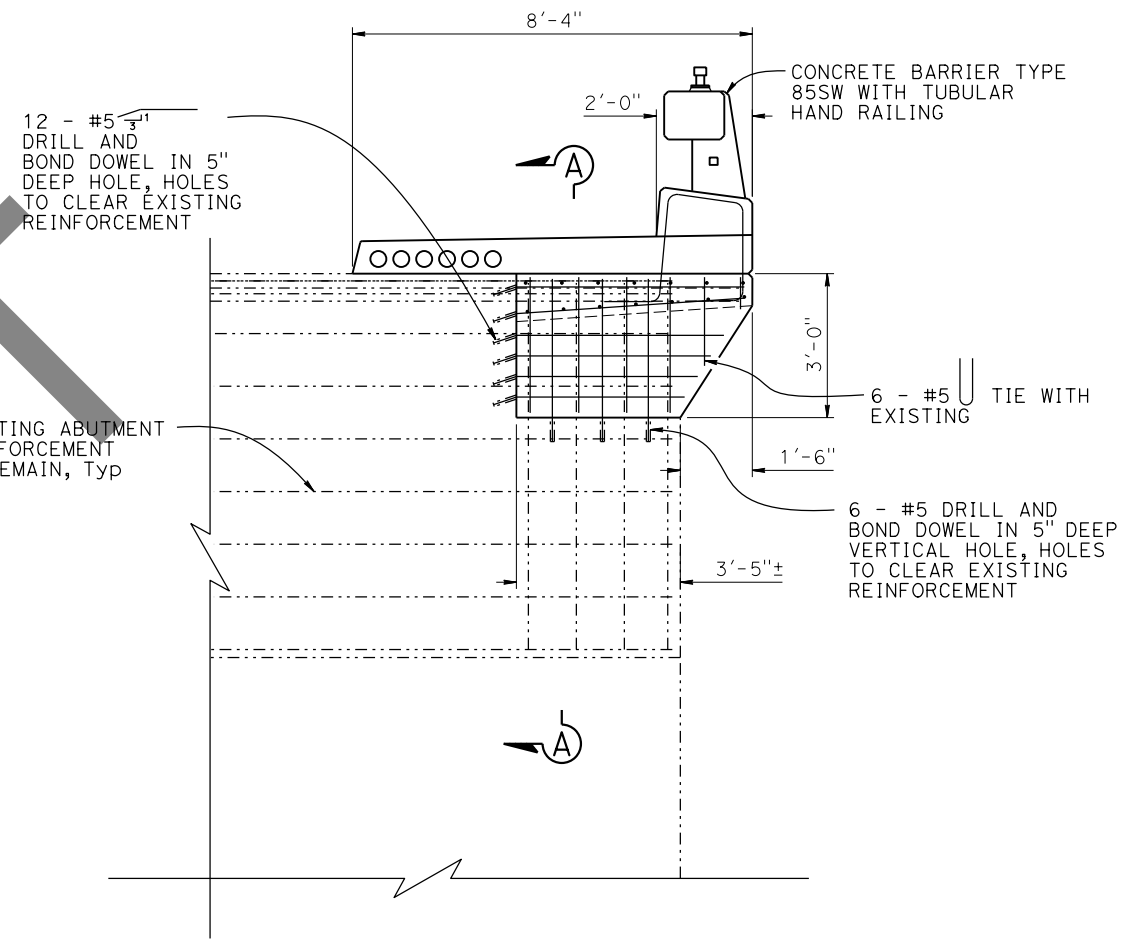


LEGEND:

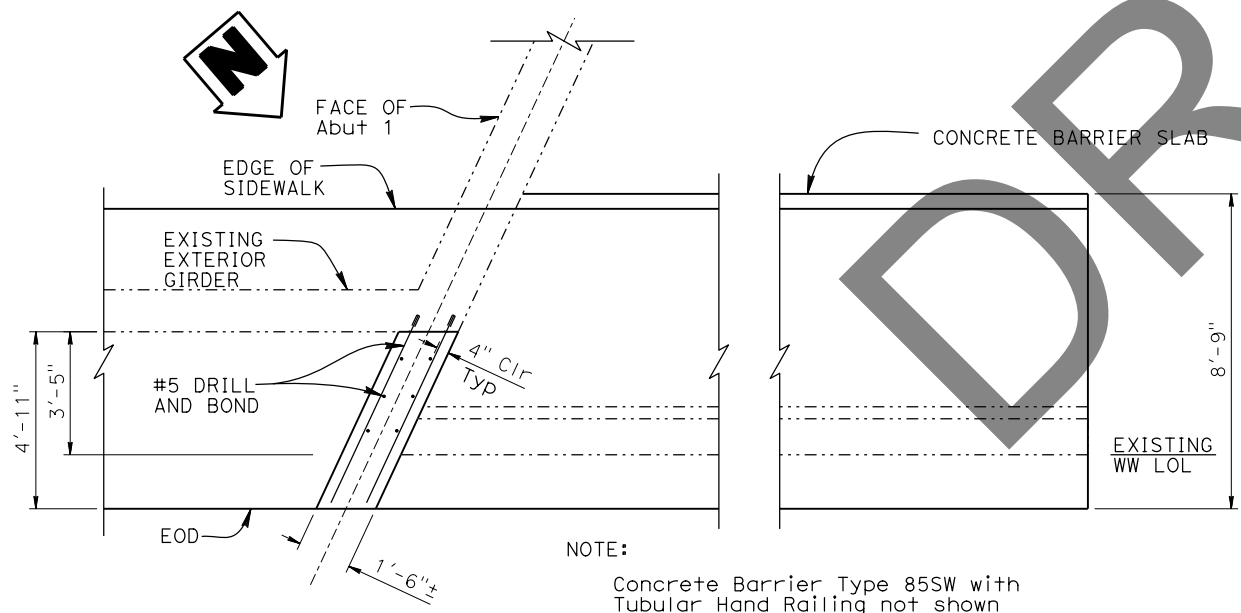
----- Existing Structure



**WINGWALL ELEVATION**  
3/16" = 1'-0"



**PART ABUTMENT ELEVATION**  
1/2" = 1'-0"



**SECTION C-C**  
3/8" = 1'-0"

NOTE:  
Concrete Barrier Type 85SW with Tubular Hand Railing not shown for clarity.

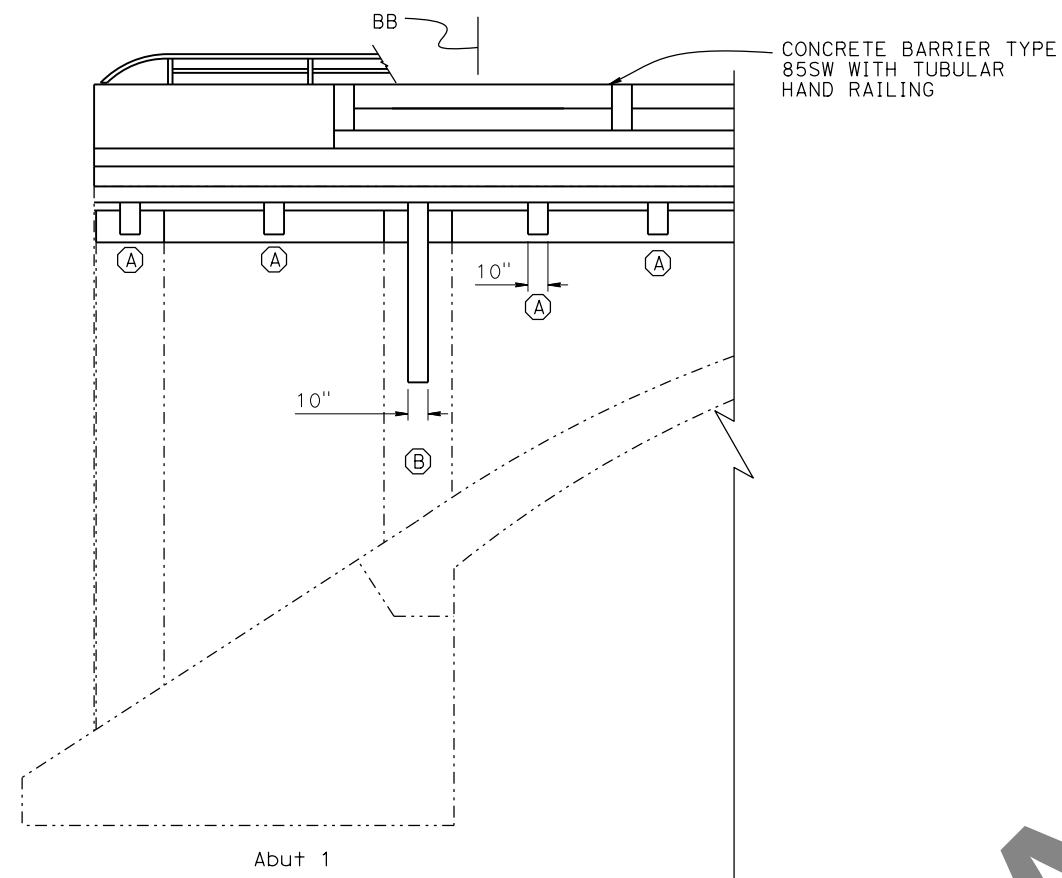
NOTES:

1. For reinforcement not shown, see "SECTION A-A" & "SECTION D-D" on "ABUTMENT DETAILS No. 3" sheet.
2. For Corbel Layout, see "MISCELLANEOUS DETAILS" sheet.
3. Roughen all surfaces 1/4" amplitude where existing and new concrete meet.
4. For Overhang and Corbel Reinforcement, see "TYPICAL SECTION" sheet.
5. For Barrier Details and Reinforcement not shown, see "CONCRETE BARRIER TYPE 85SW DETAILS" sheets.
6. Provide Six 4" Round Openings in the Sidewalk for Future Utilities.

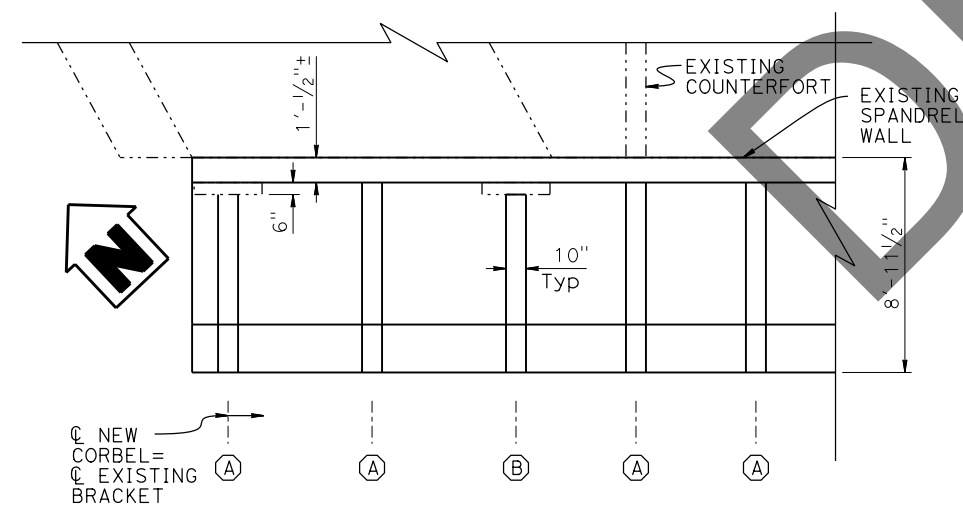
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY	Justin Woody	CHECKED	Mike Bergman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	37-0018	SAN FRANCISQUITO CREEK BR (WIDEN) ABUTMENT DETAILS No. 1					
	DETAILS	BY	Jay Reid	CHECKED			Mike Bergman	POST MILE		26.36				
QUANTITIES	BY	Justin Woody	CHECKED	Alexis Guerrero	UNIT: 3578	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET	OF			
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:20 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	3-18-22	2-16-23	12-4-22	12-14-22	4	19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
			X	DATE	
REGISTERED CIVIL ENGINEER			Justin Woody		
PLANS APPROVAL DATE			No. 92764		
			Exp. 12-31-23		
			CIVIL		
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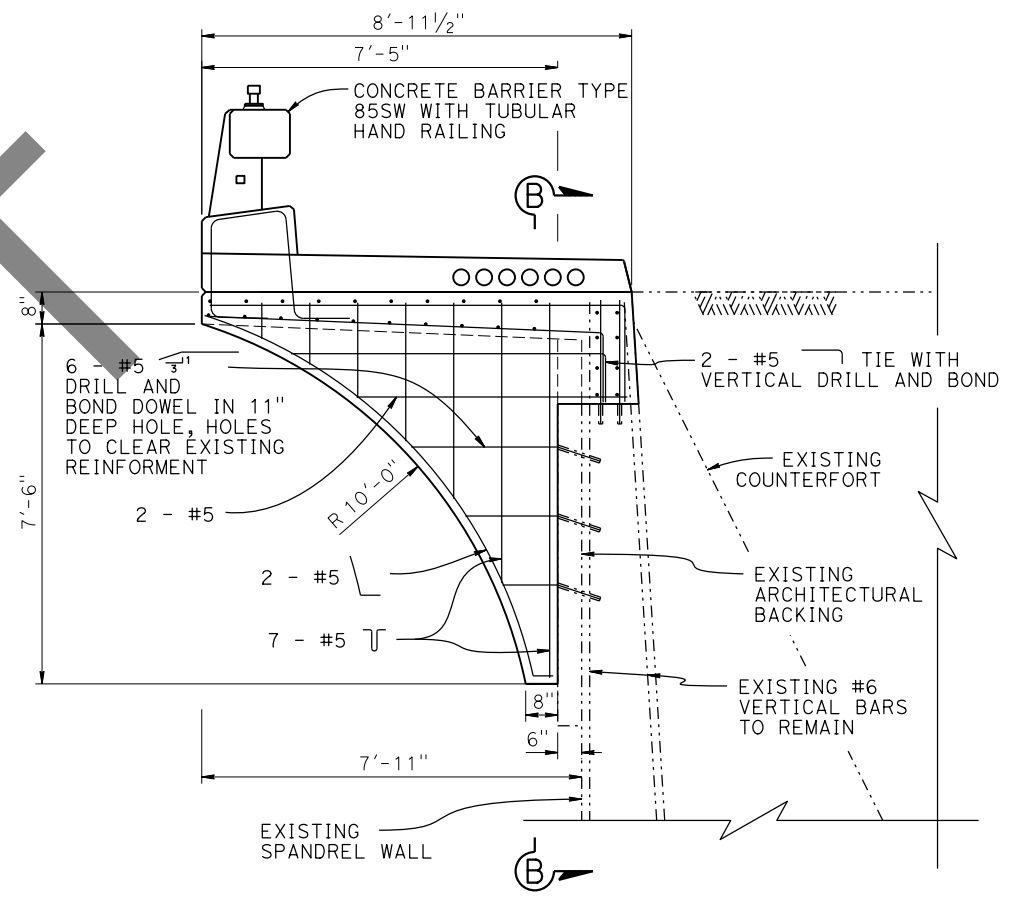


**PART SPANDREL WALL ELEVATION**  
 $\frac{1}{4}'' = 1'-0''$



**PART PLAN**  
 $\frac{1}{4}'' = 1'-0''$

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



**CORBEL B**  
 $\frac{1}{2}'' = 1'-0''$

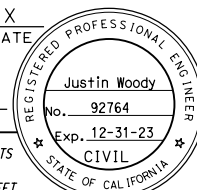
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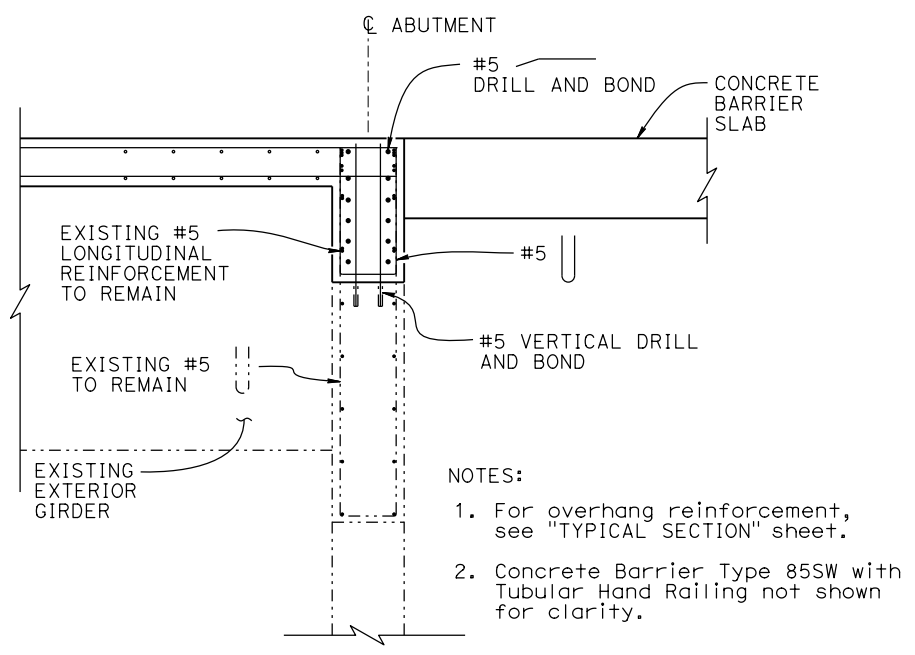
----- Existing Structure

NOTES:

1. For reinforcement not shown, see "SECTION B-B" on "ABUTMENT DETAILS No. 3" sheet.
2. For Corbel Layout, see "MISCELLANEOUS DETAILS" sheet.
3. Roughen all surfaces 1/4" amplitude where existing and new concrete meet.
4. For Overhang and Corbel A Reinforcement, see "TYPICAL SECTION" sheet.
5. For Barrier Details and Reinforcement not shown, see "CONCRETE BARRIER TYPE 85SW DETAILS" sheets.
6. Provide Six 4" Round Openings in the Sidewalk for Future Utilities.

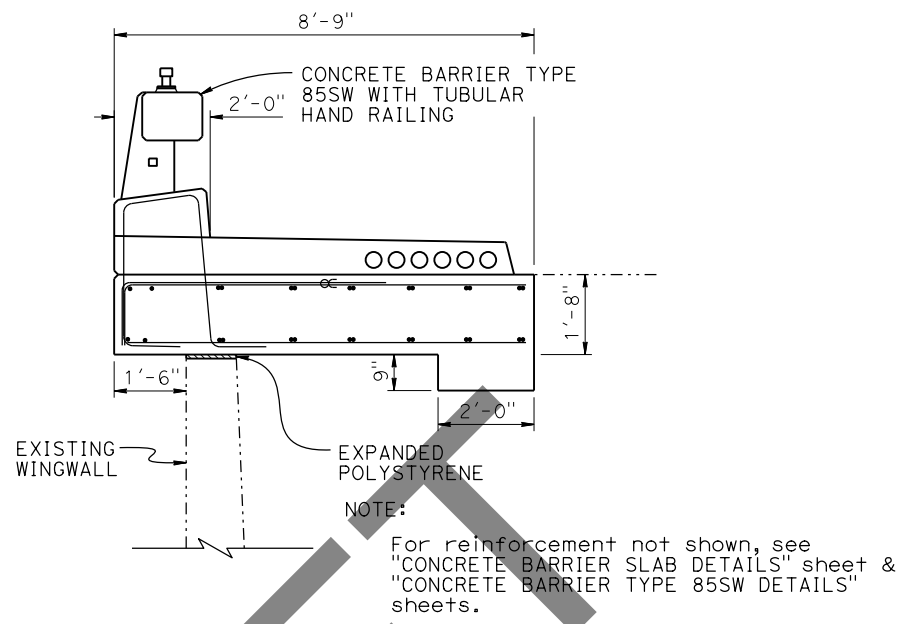
DESIGN	BY Justin Woody	CHECKED Mike Bergman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	SAN FRANCISQUITO CREEK BR (WIDEN) ABUTMENT DETAILS No. 2											
DETAILS	BY Jay Reid	CHECKED Mike Bergman			37-0018												
QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero			26.36												
DATE PLOTTED => 16-FEB-2023			TIME PLOTTED => 13:21	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: 3578	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF			
FILE => 00_37-0018_allplans_sanfranciscobridge			USP&M	gms	s136693	0	1	2	3	PROJECT NUMBER & PHASE: 04180000321	CONTRACT No.: 04-OP9804	3-18-22	2-16-23	12-4-22	12-14-22	5	19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
					
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**SECTION A-A**  
1/2" = 1'-0"

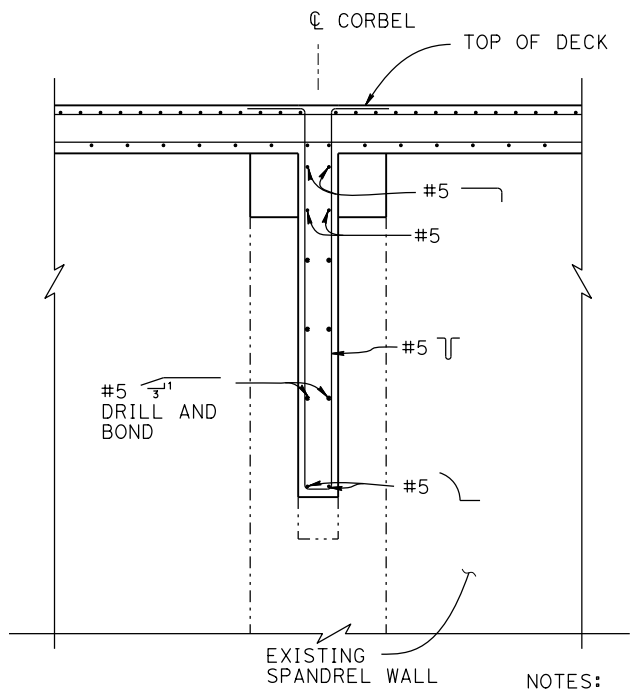
- NOTES:
1. For overhang reinforcement, see "TYPICAL SECTION" sheet.
  2. Concrete Barrier Type 85SW with Tubular Hand Railing not shown for clarity.



**SECTION D-D**  
1/2" = 1'-0"

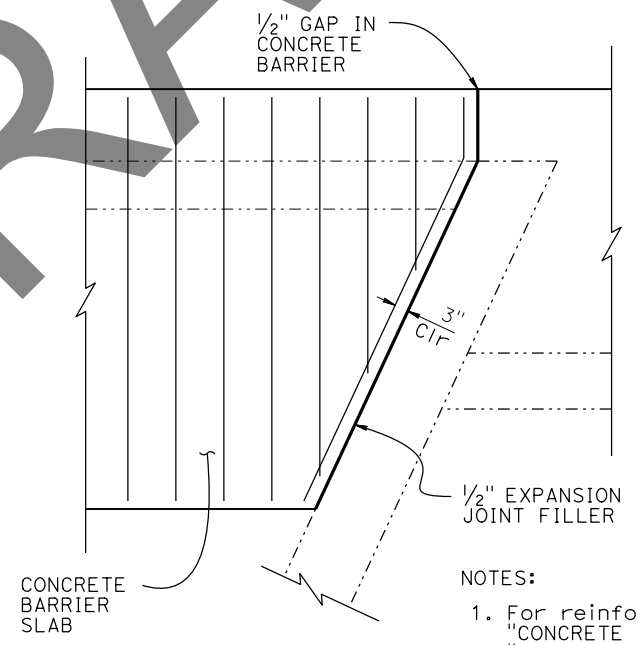
- NOTE:
- For reinforcement not shown, see "CONCRETE BARRIER SLAB DETAILS" sheet & "CONCRETE BARRIER TYPE 85SW DETAILS" sheets.

LEGEND:  
----- Existing Structure



**SECTION B-B**  
1/2" = 1'-0"

- NOTES:
1. For overhang reinforcement, see "TYPICAL SECTION" sheet.
  2. Concrete Barrier Type 85SW with Tubular Hand Railing not shown for clarity.



**DETAIL A**  
1/2" = 1'-0"

- NOTES:
1. For reinforcement not shown see "CONCRETE BARRIER SLAB DETAILS" sheet & "CONCRETE BARRIER TYPE 85SW DETAILS" sheets.
  2. Concrete Barrier Type 85SW with Tubular Hand Railing not shown for clarity.
  3. For location of "DETAIL A" see "MISCELLANEOUS DETAILS" sheet.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

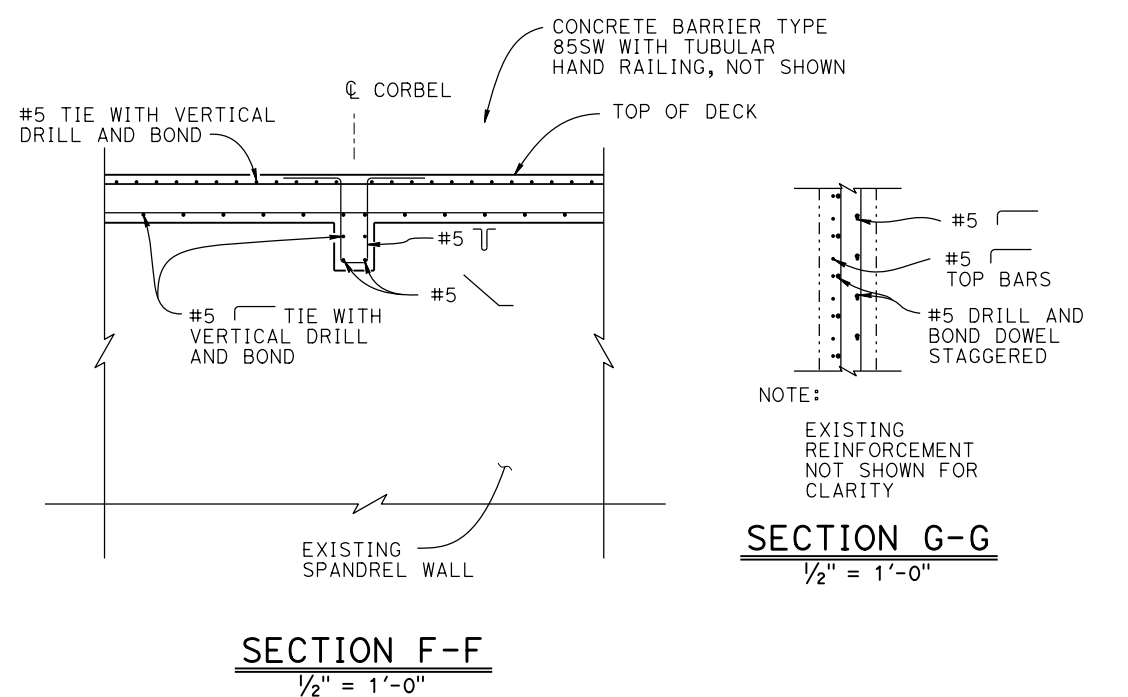
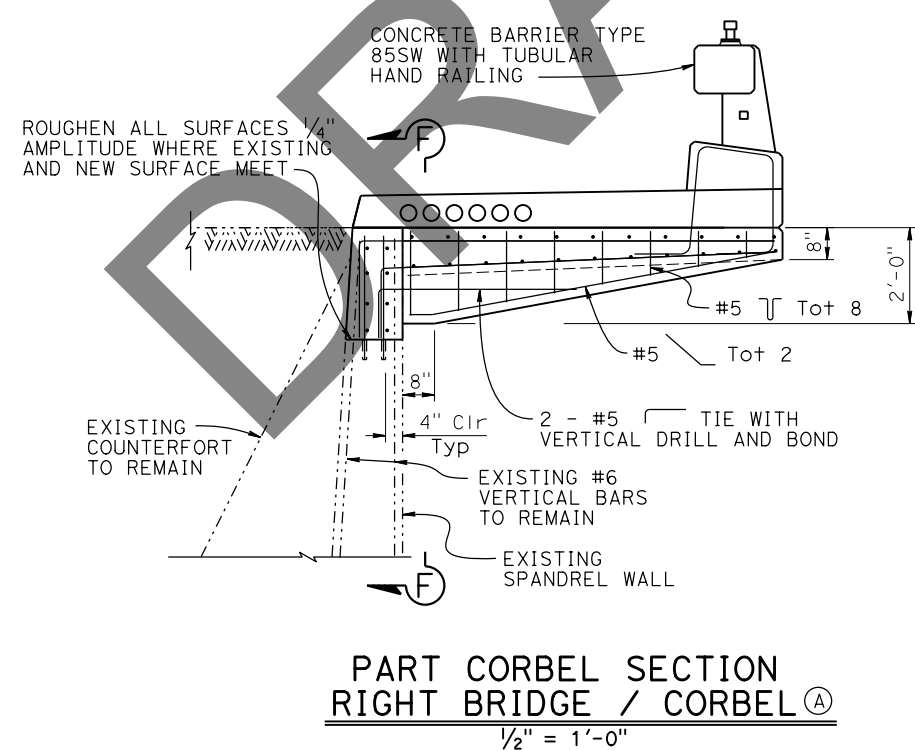
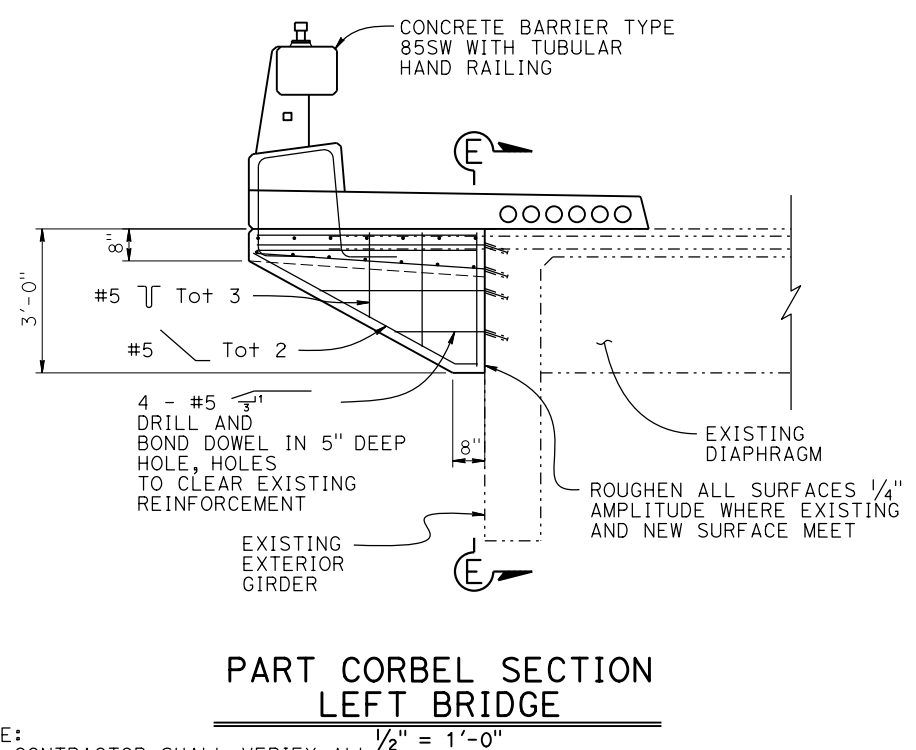
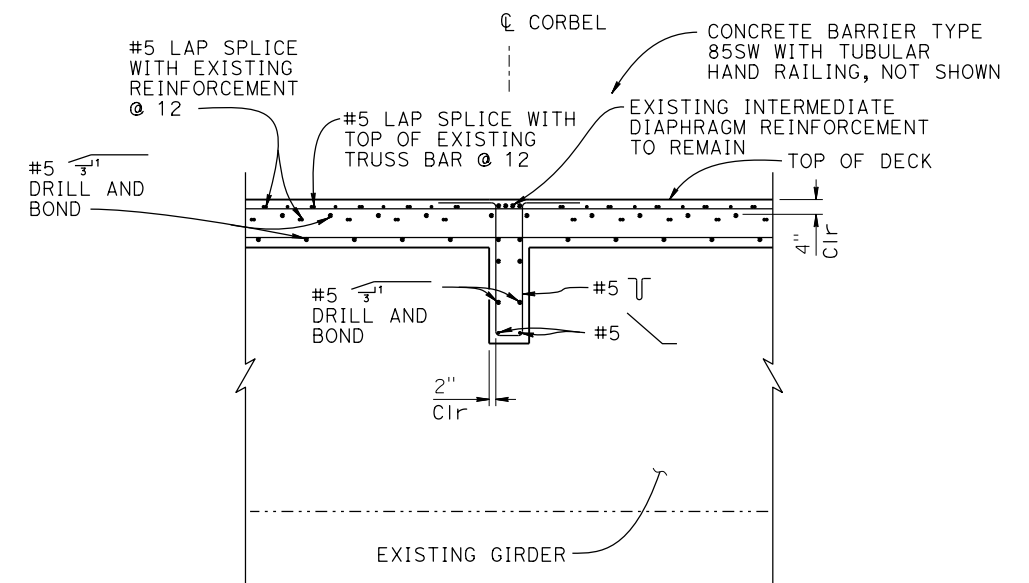
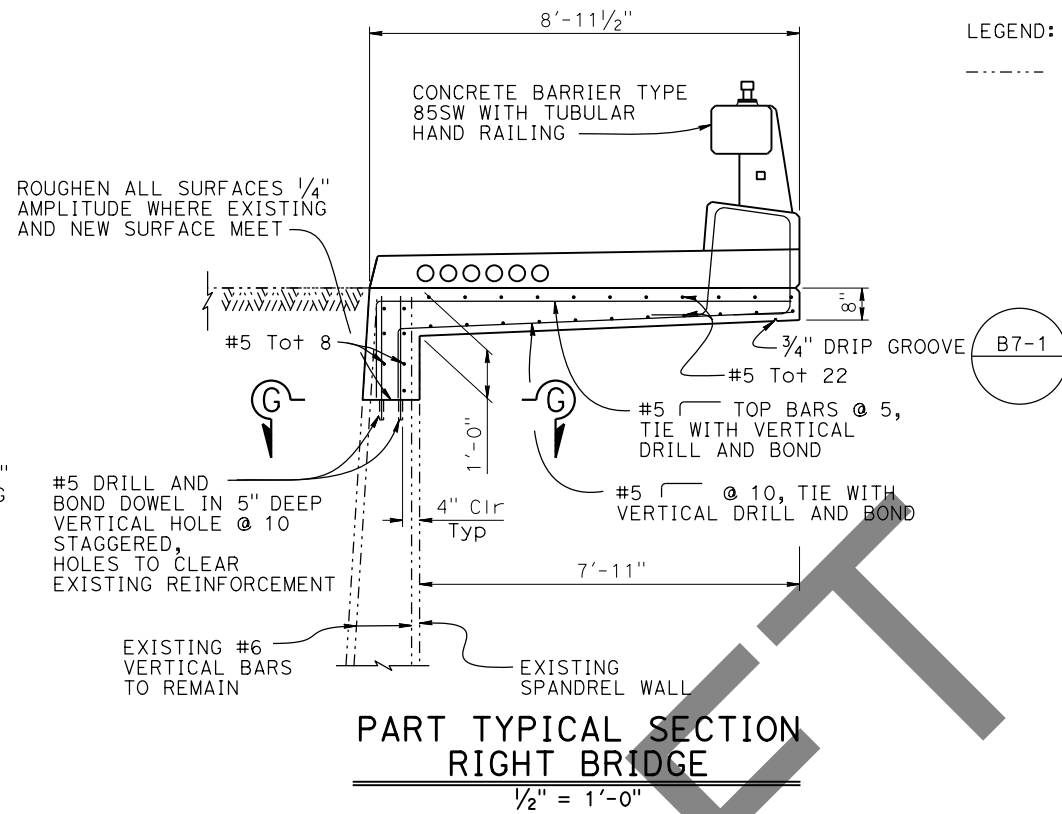
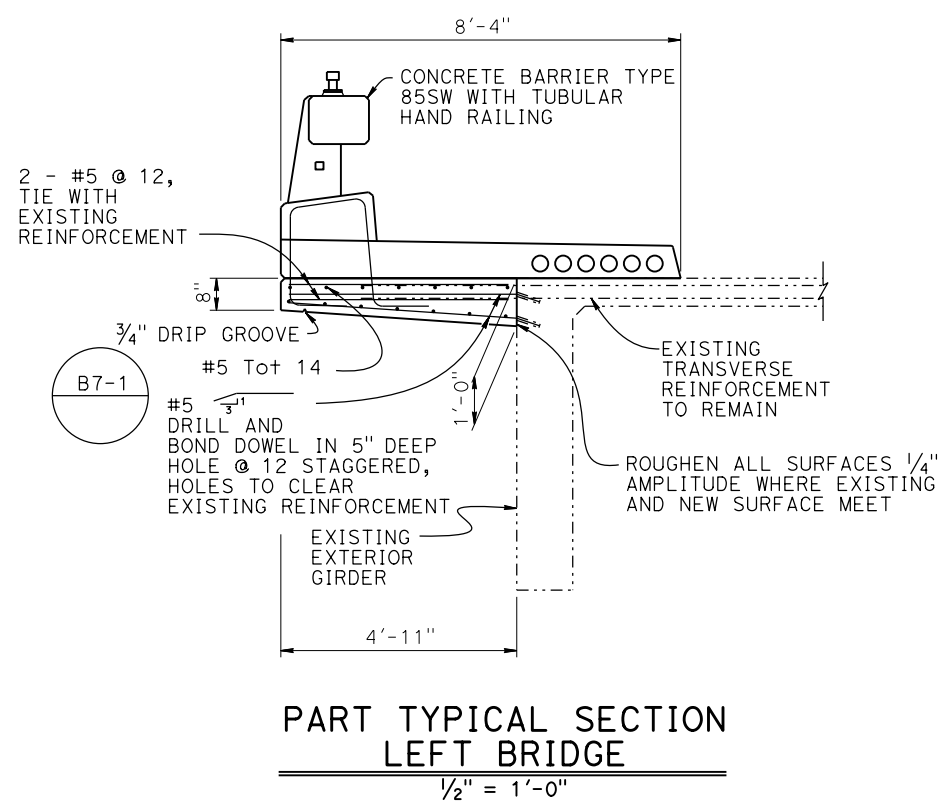
DESIGN	BY Justin Woody	CHECKED Mike Bergman	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN <b>BRANCH 3</b>	BRIDGE No.	<b>SAN FRANCISQUITO CREEK BR (WIDEN)</b> <b>ABUTMENT DETAILS No. 3</b>	
DETAILS	BY Jay Reid	CHECKED Mike Bergman			37-0018		
QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero			26.36		
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:21 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 3-18-22 2-16-23 12-4-22 12-14-22	SHEET 6 OF 19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER	X	DATE
PLANS APPROVAL DATE		

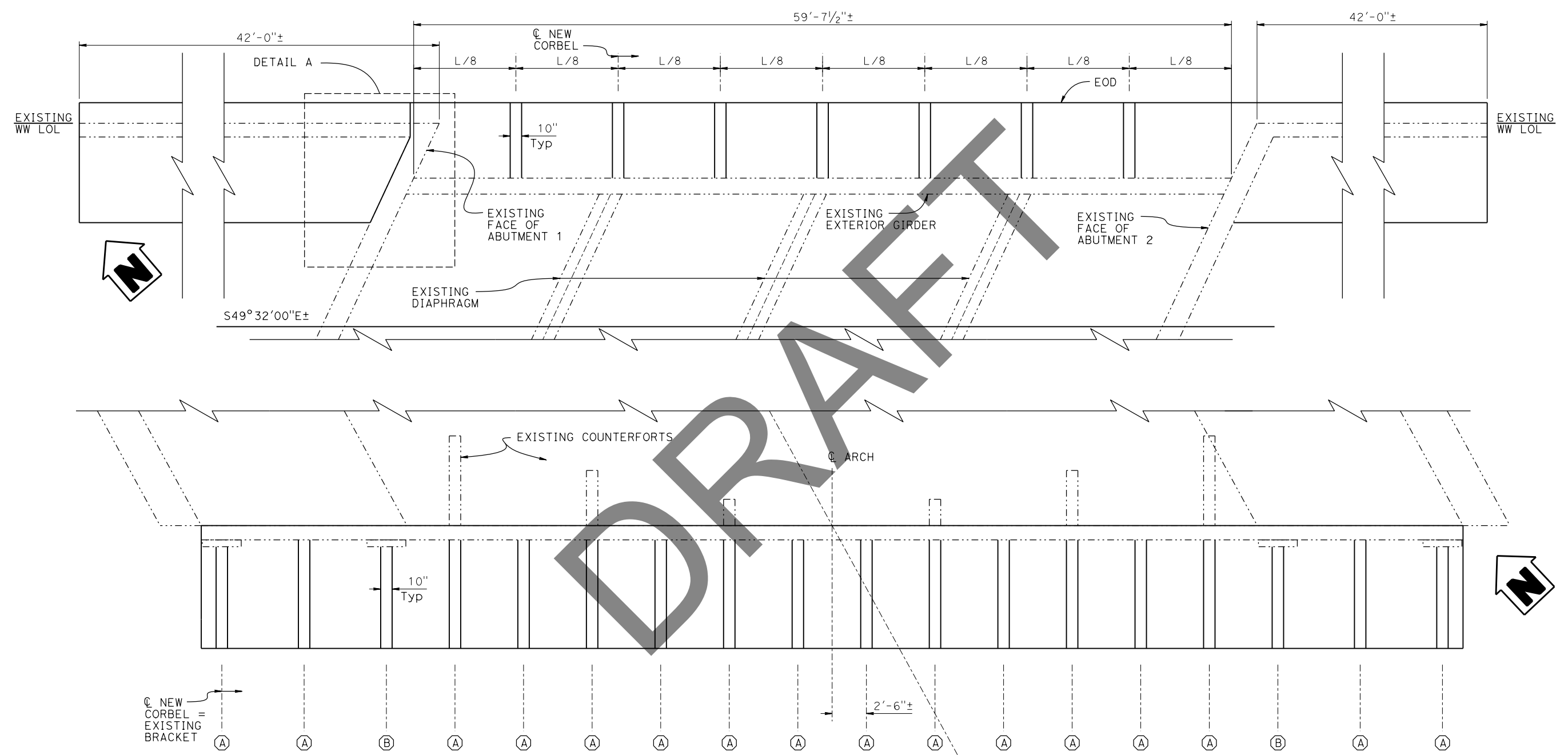
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NOTE:  
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DESIGN	BY Justin Woody	CHECKED Mike Bergman	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN <b>BRANCH 3</b>	BRIDGE No.	<b>SAN FRANCISQUITO CREEK BR (WIDEN)</b> <b>TYPICAL SECTION</b>	
DETAILS	BY Jay Reid	CHECKED Mike Bergman			37-0018		
QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero			26.36		
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:21 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3				UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)						REVISION DATES 3-18-22 2-16-23 12-4-22 12-14-22	SHEET 7 OF 19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
X					
Justin Woody			No. 92764		
PLANS APPROVAL DATE			Exp. 12-31-23		
CIVIL			STATE OF CALIFORNIA		
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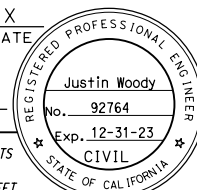
- NOTES:
- For "DETAIL A" see "ABUTMENT DETAILS No. 3" sheet.
  - Corbel centerline and spacing to match existing corbels, Layout to be determined in the field.

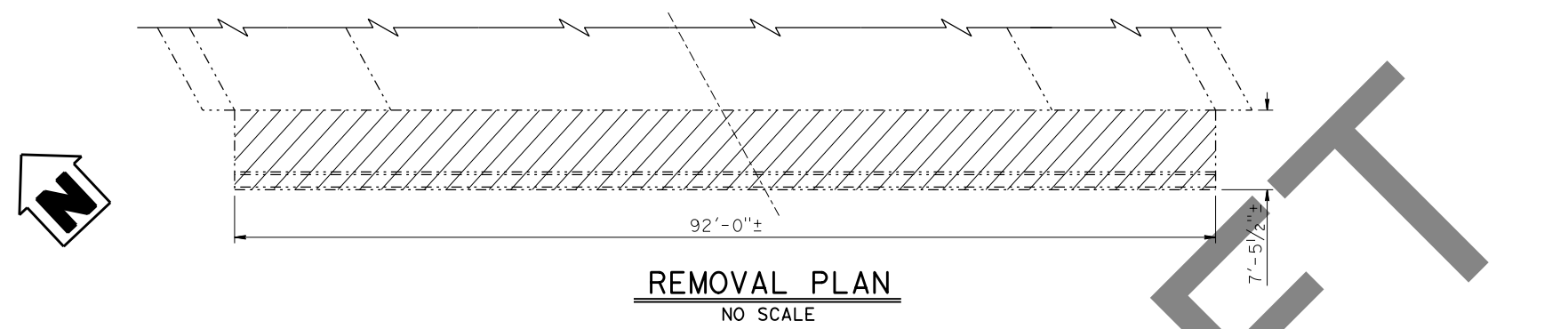
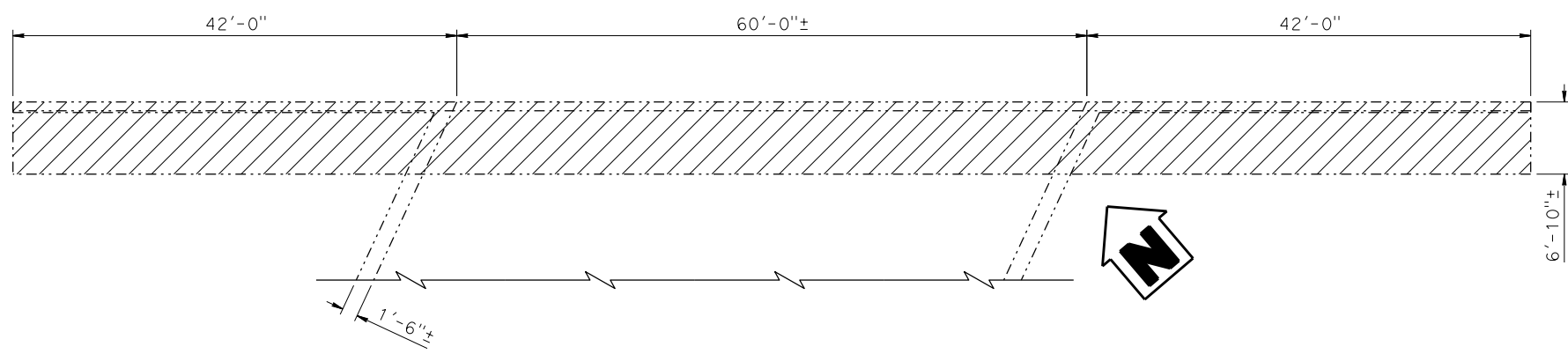
**CORBEL LAYOUT**  
1/4" = 1'-0"

LEGEND:  
----- Existing Structure

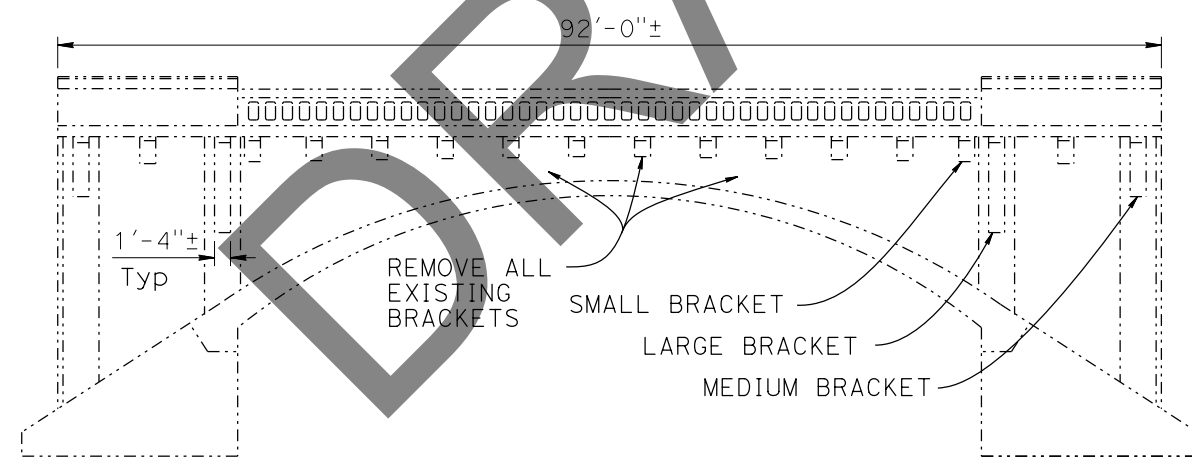
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Justin Woody	CHECKED Mike Bergman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	SAN FRANCISQUITO CREEK BR (WIDEN) MISCELLANEOUS DETAILS	
DETAILS	BY Jay Reid	CHECKED Mike Bergman			37-0018		
QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero			26.36		
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:21 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT No.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 8 OF 19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
					
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LEGEND:  
 - - - - - Existing Structure  
 [Hatched Box] Limits of Bridge Removal (Portion)

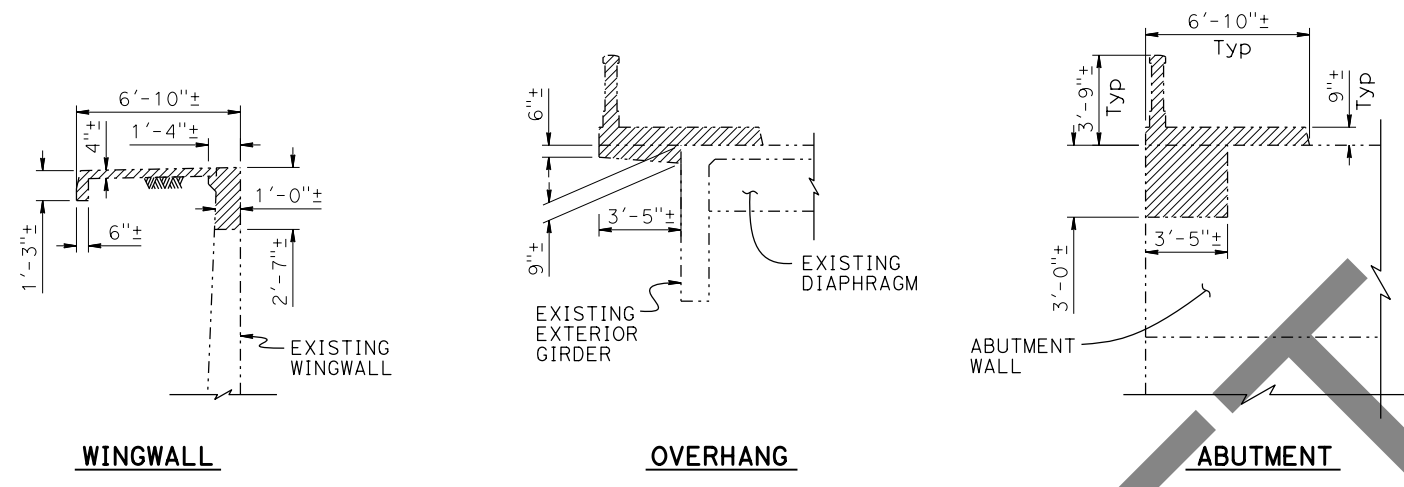


NOTE:  
See "BRIDGE REMOVAL DETAILS No.2" sheet for Bracket Dimensions

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Justin Woody	CHECKED Mike Bergman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	SAN FRANCISQUITO CREEK BR (WIDEN) BRIDGE REMOVAL DETAILS No. 1												
	DETAILS BY Jay Reid	CHECKED Mike Bergman			37-0018													
QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero	UNIT: 3578	COUNTY/ROUTE: SCL/82	POST MILE	26.36												
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:21 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			PROJECT NUMBER & PHASE: 04180000321		CONTRACT No.: 04-OP9804													
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)					DISREGARD PRINTS BEARING EARLIER REVISION DATES													
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REVISION DATES				SHEET	OF													
1-18-22	2-16-23	12-4-22	12-14-22	9	19													

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
			X		
			Justin Woody		
			No. 92764		
			Exp. 12-31-23		
PLANS APPROVAL DATE			CIVIL		
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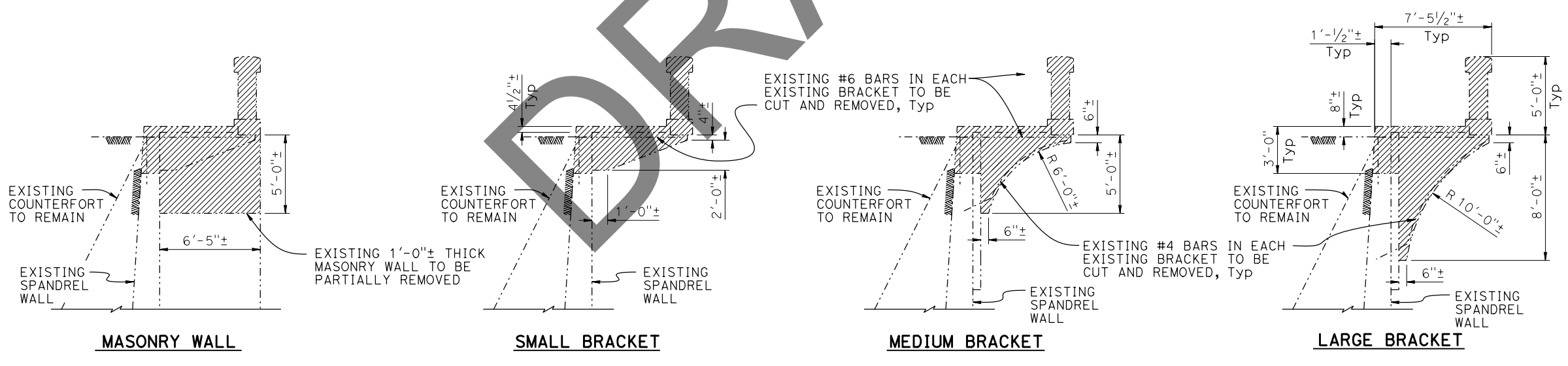


**REMOVAL DETAILS (LEFT BRIDGE)**

1/4" = 1'-0"

NOTE:  
 Abutment 2 removal shown,  
 Abutment 1 removal similar.

LEGEND:  
 - - - - - Existing Structure  
 [Hatched Area] Limits of Bridge Removal (Portion)



**REMOVAL DETAILS (RIGHT BRIDGE)**

1/4" = 1'-0"

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Justin Woody	CHECKED Mike Bergman	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 3	BRIDGE No.	SAN FRANCISQUITO CREEK BR (WIDEN) BRIDGE REMOVAL DETAILS No. 2
	DETAILS	BY Jay Reid			CHECKED Mike Bergman	
QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero	UNIT: 3578	COUNTY/ROUTE: SCL/82	POST MILE	26.36
DATE PLOTTED => 16-FEB-2023 TIME PLOTTED => 13:21 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			PROJECT NUMBER & PHASE: 04180000321		CONTRACT No.: 04-0P9804	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)					DISREGARD PRINTS BEARING EARLIER REVISION DATES	
					REVISION DATES	SHEET OF
					3-18-22 2-16-23 12-4-22 12-14-22	10 19

**DESIGN DATA**

DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments.  
 WS: 33 psf on sound wall  
 $F_t$  : 54 kips on barrier  
 EQE:  $k_h = 0.2$   
 $k_v = 0.0$

REINFORCED CONCRETE:  $f'_c = 3600$  psi  
 $f_y = 60$  ksi  
 $n = 8$

**NOTES:**

1. Clearance to reinforcing steel in concrete barrier to be 1".
2. Not all barrier reinforcement shown.
3. No expansion joints in concrete barrier or barrier slab within wall limits.
4. Specific concrete barrier to be used is shown elsewhere in Project Plans.
5. Sound Wall not permitted on MSE walls unless supported by a CIDH pile foundation. (See "Mechanically Stabilized Embankment Detail No. 5" sheet).
6. Install cable railing or chain link railing when indicated in Project Plans. Refer to Standard Plans B11-7 and B11-47 for anchorage details to top of concrete barrier.
7. Minimum slab length: 40 ft

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

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*The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.*

REGISTERED PROFESSIONAL ENGINEER

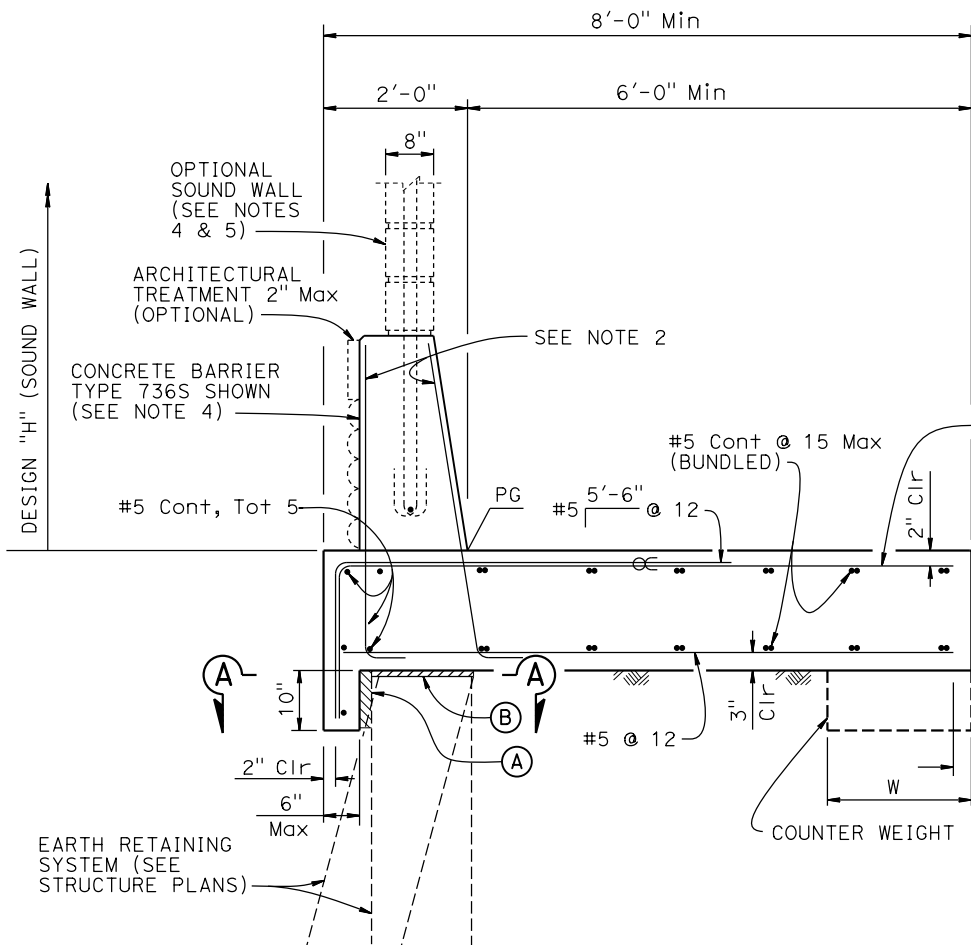
Justin Woody

No. 92764

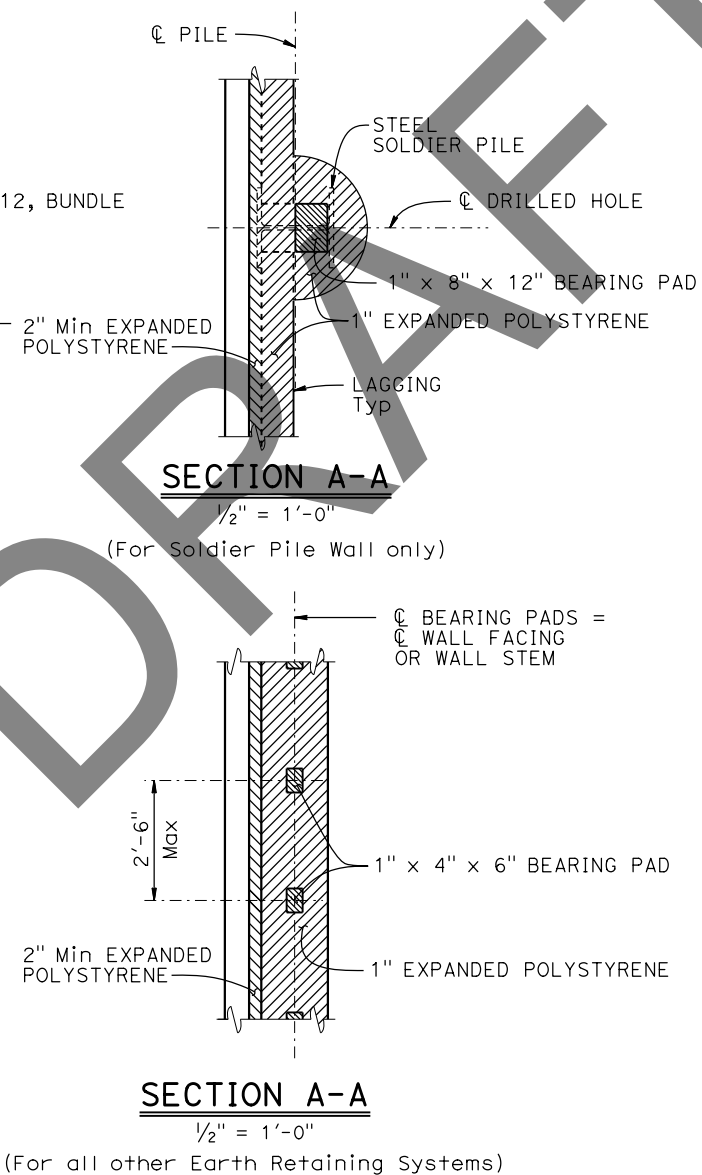
Exp. 12-31-23

CIVIL

STATE OF CALIFORNIA

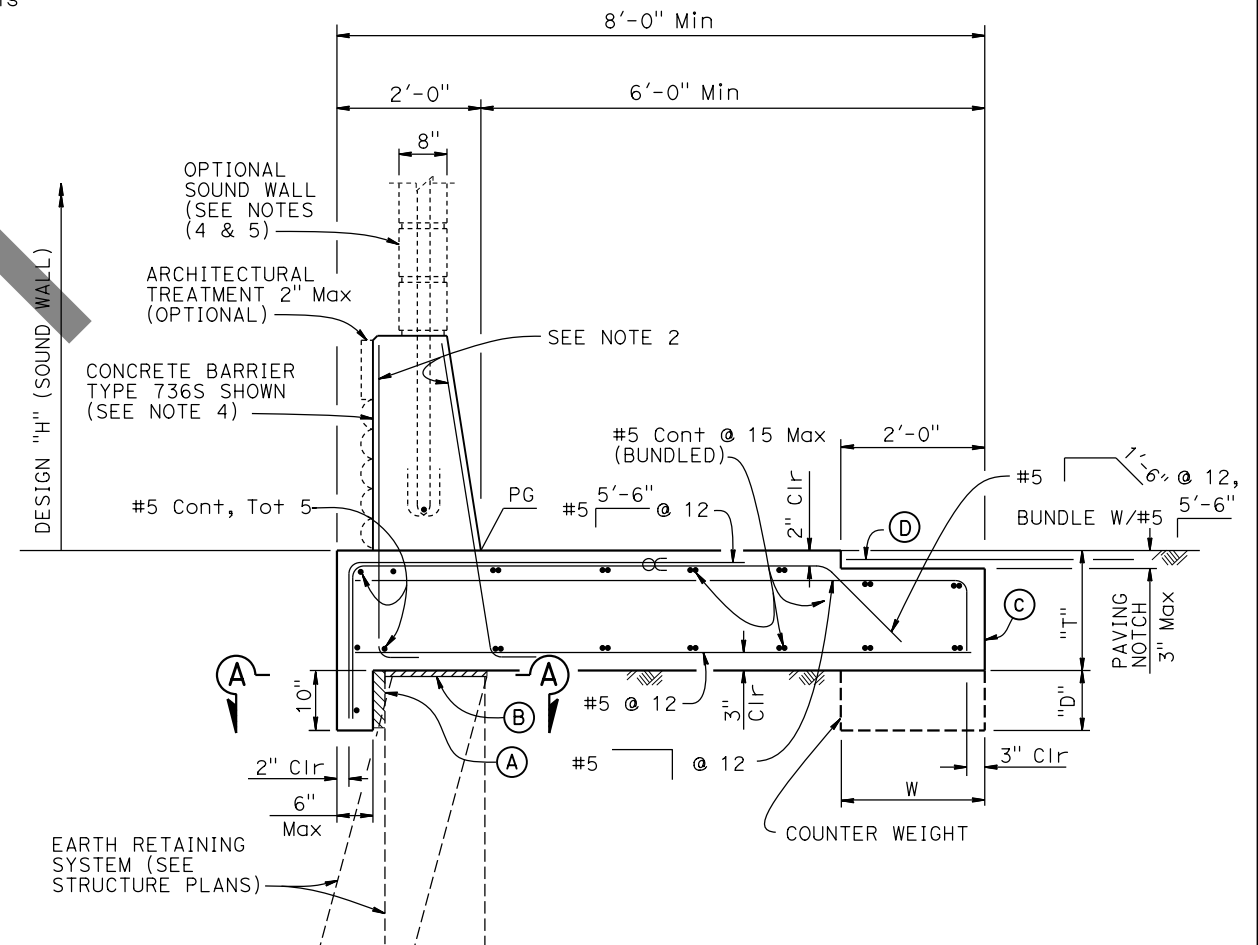


**CONCRETE BARRIER SLAB**  
 $\frac{3}{4}'' = 1'-0''$



**SECTION A-A**  
 $\frac{1}{2}'' = 1'-0''$

(For all other Earth Retaining Systems)



**CONCRETE BARRIER SLAB WITH PAVING NOTCH**  
 $\frac{3}{4}'' = 1'-0''$

**NOTES:**

- (A) 2" Min Expanded polystyrene
- (B) 1" Expanded Polystyrene on MSE and concrete stem walls, See "SECTION A-A" for Soldier Pile Walls
- (C) Contact joint
- (D) 4'-0" wide pavement reinforcing fabric
- ∞ Indicates bundled bars

**BARRIER SLAB DIMENSIONS**

DESIGN "H" OF SOUND WALL	NO SW	12'-4"	14'-4"	16'-4"
BARRIER TYPE	732 736 742	736 S	736 S	736 S
T	1'-8"	1'-8"	2'-0"	2'-0"
W	N/A	N/A	N/A	2'-0"
D	N/A	N/A	N/A	0'-9"

**BRIDGE STANDARD DETAILS**

**xs12-090** FILE NO.  
 July 2014 APPROVAL DATE  
*The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California.*

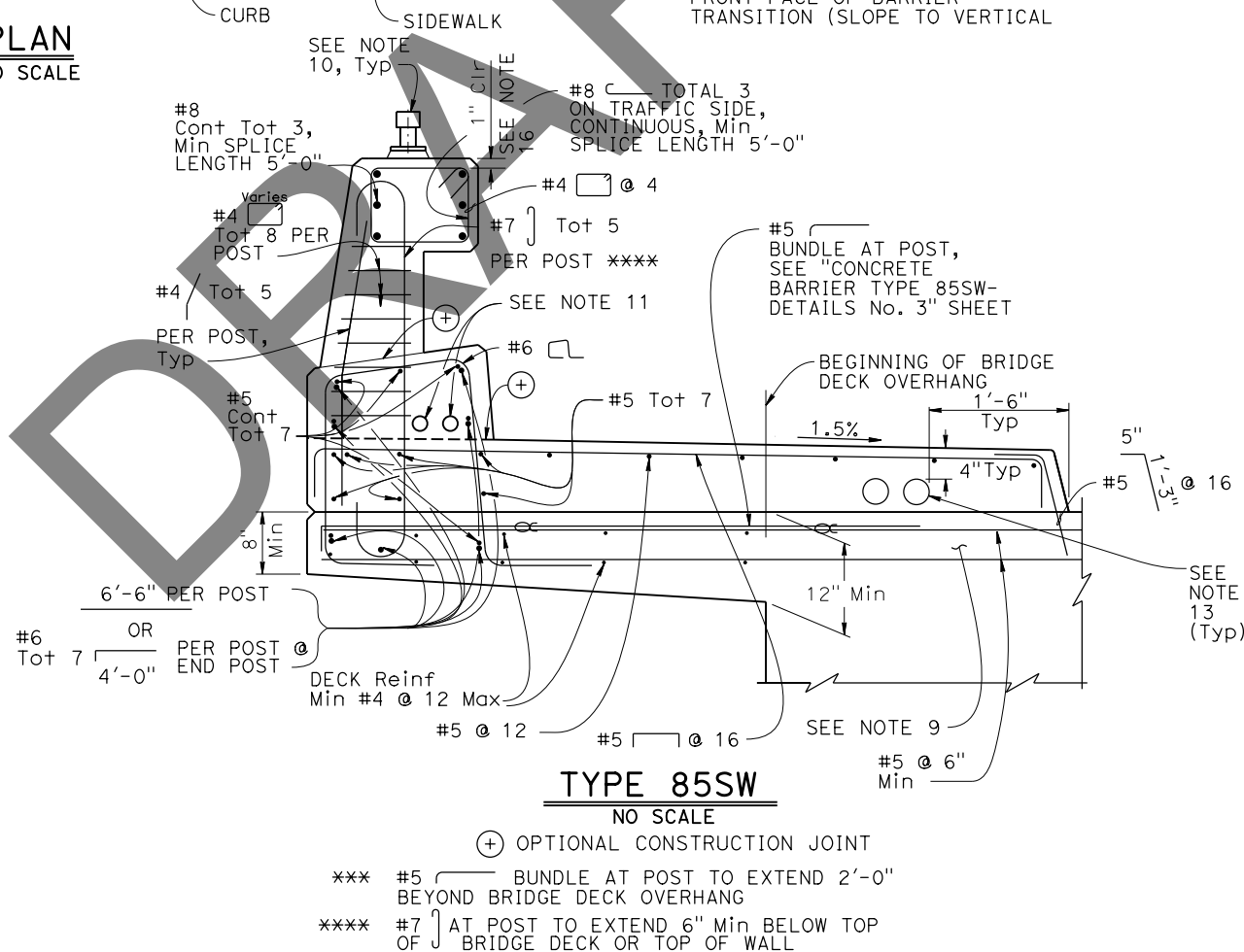
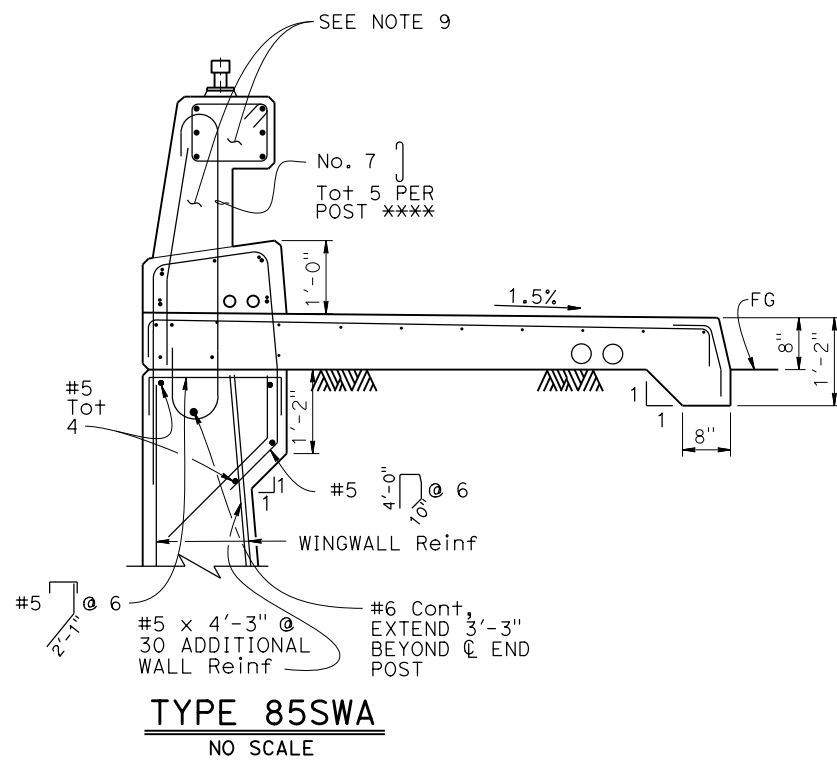
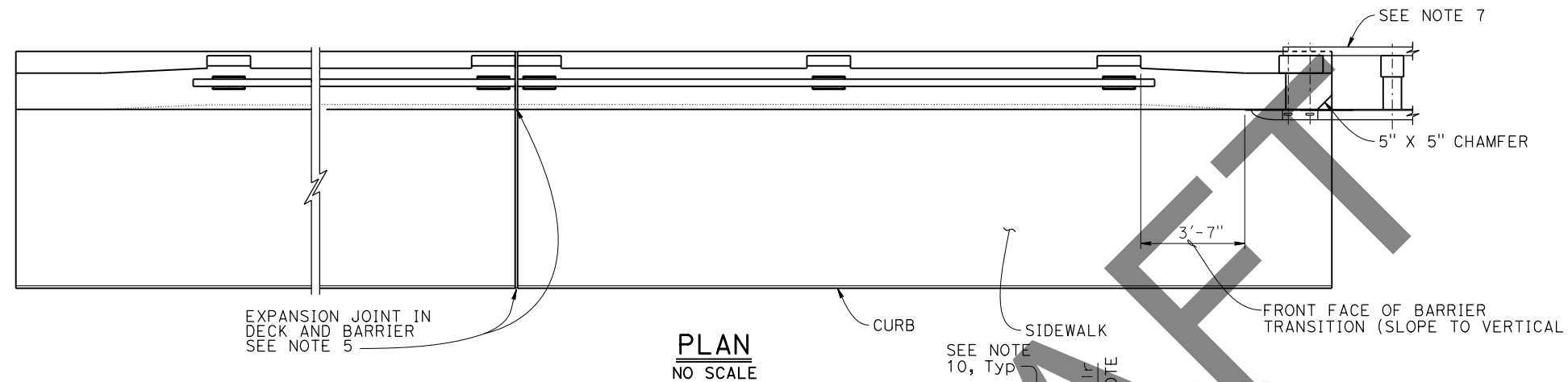
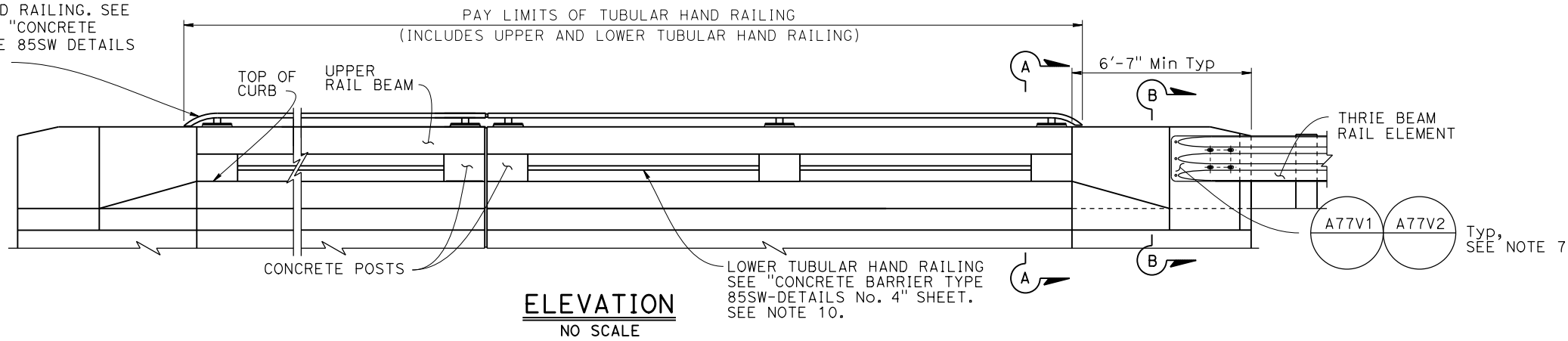
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 37-0018  
 POST MILE 26.36  
**SAN FRANCISQUITO CREEK BR (WIDEN)**  
**CONCRETE BARRIER SLAB DETAILS**



TUBULAR HAND RAILING. SEE NOTE 10 AND "CONCRETE BARRIER TYPE 85SW DETAILS No. 4" SHEET



NOTES:

- This barrier is to be used only for posted speeds of 45 MPH or less.
- Walls are to be backfilled before the barrier is placed.
- Longitudinal reinforcing steel to stop at all expansion joints.
- The front face dimensions are to be constant above the finish roadway profile, but the overall height will vary with certain thicknesses of surfacing and roadway cross slopes.
- Expansion joint to match deck joint.
- Splicing in longitudinal rail reinforcing must be staggered.
- For typical metal railing connection details not shown, see Standard Plans A77V1 and A77V2.
- Chain link railing is not allowed on Type 85 Barriers.
- For additional reinforcement details, see "CONCRETE BARRIER TYPE 85SW DETAILS No. 2" and "CONCRETE BARRIER TYPE 85SW DETAILS No. 3" sheets.
- Upper tubular hand railing to extend to where level bench elevation along exterior face of wing wall is within 1'-0" of roadway shoulder FG.
- The maximum number of conduits is limited to two 1 1/2" Dia and must be placed in front half of the lower beam/curb.
- For reinforcement not shown, see other details.
- A minimum of two 4" round openings for future utilities and a maximum of six 4" round openings for a 6'-2" sidewalk. One 4" round opening can be added for each additional 1'-0" of sidewalk width. Utility opening must be a minimum of 6" from face of barrier parapet. Openings are to be sealed at ends and extended 8" minimum past end of sidewalk if not used. Duct forms are to be tied down. For exact number and placement of utility openings see other details. Minimum 2" clear between conduits.
- For dimensions not shown, see "CONCRETE BARRIER TYPE 85SW DETAILS No. 2" and "CONCRETE BARRIER TYPE 85SW DETAILS No. 3" sheets.
- For sections A-A and B-B, see "CONCRETE BARRIER TYPE 85SW DETAILS No. 2" sheet.
- 1" clearance, typical for bridge rail except for 2" clearance at traffic face and back side of lower beam (curb).

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER DATE X

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
Justin Woody  
No. 92764  
Exp. 12-31-23  
CIVIL  
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.

BRIDGE STANDARD DETAILS

**xs16-118-1**  
FILE NO.

July 2021  
APPROVAL DATE

The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE No. 37-0018  
POST MILE 26.36

**SAN FRANCISQUITO CREEK BR (WIDEN)**  
**CONCRETE BARRIER TYPE 85SW**  
**DETAILS No. 1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

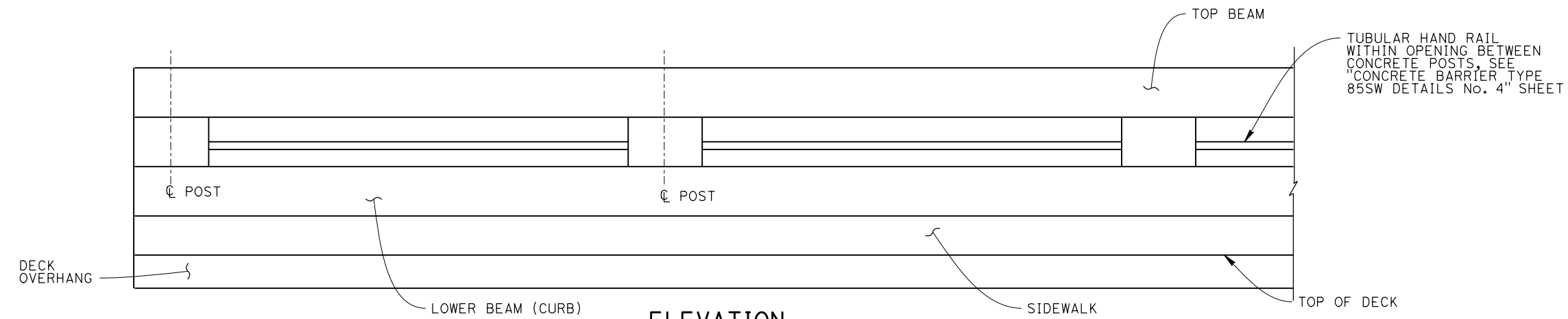
REGISTERED CIVIL ENGINEER DATE X

Justin Woody  
No. 92764  
Exp. 12-31-23  
CIVIL  
STATE OF CALIFORNIA

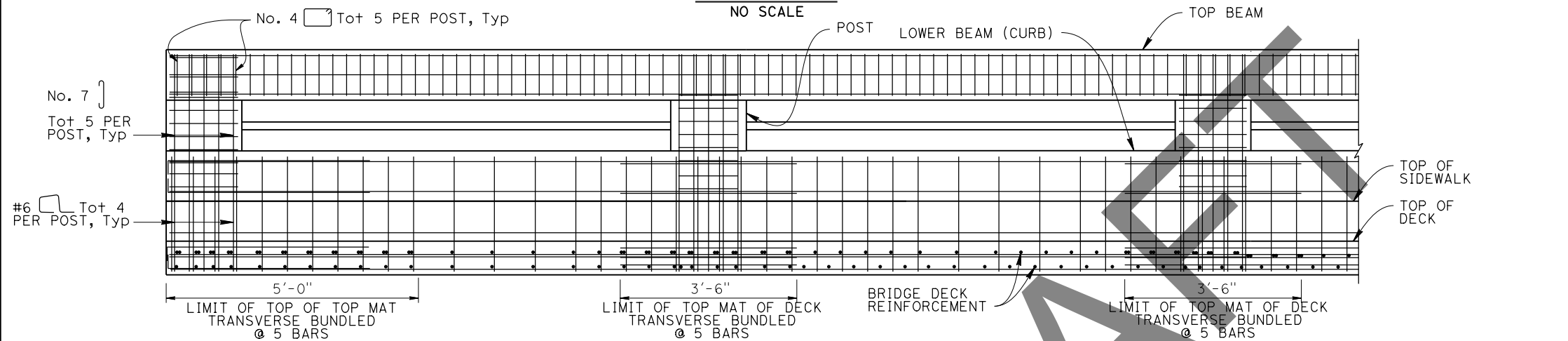
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

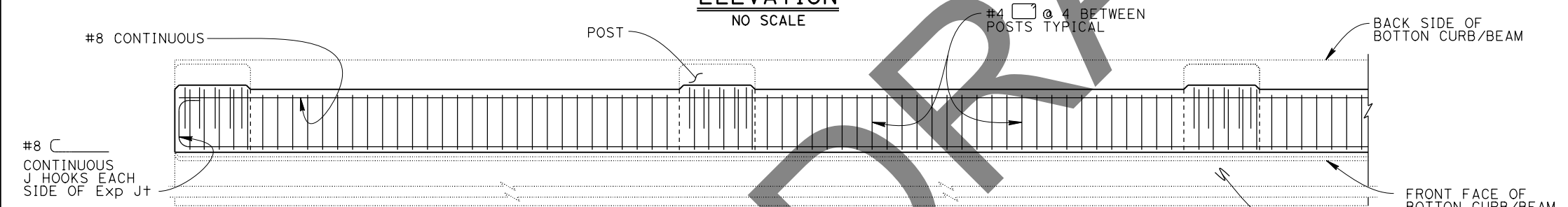
THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.



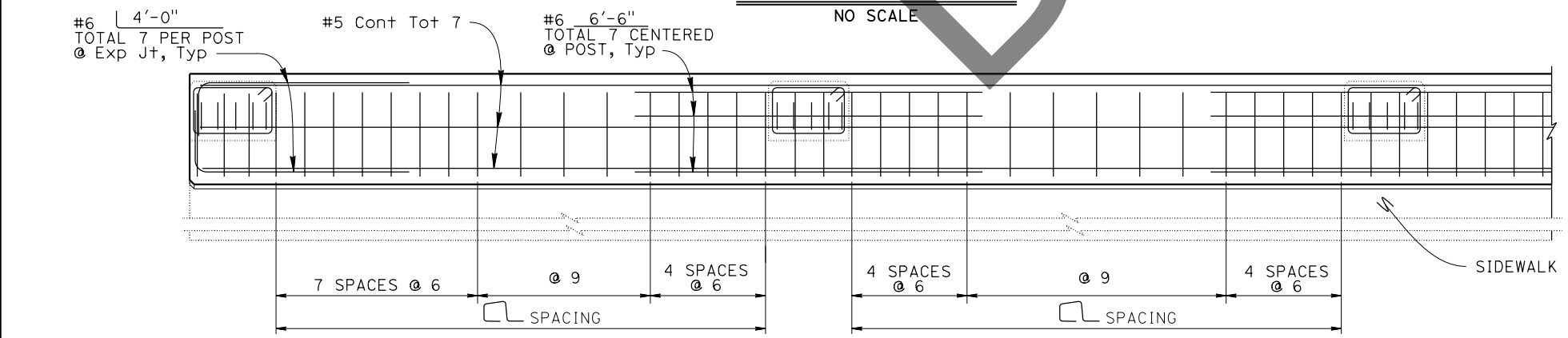
**ELEVATION**  
NO SCALE



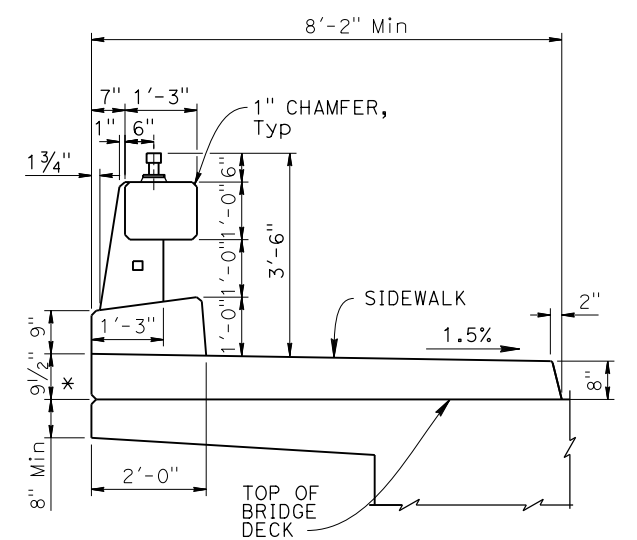
**ELEVATION**  
NO SCALE



**PLAN @ TOP BEAM**  
NO SCALE



**PLAN @ LOWER BEAM (CURB)**  
NO SCALE

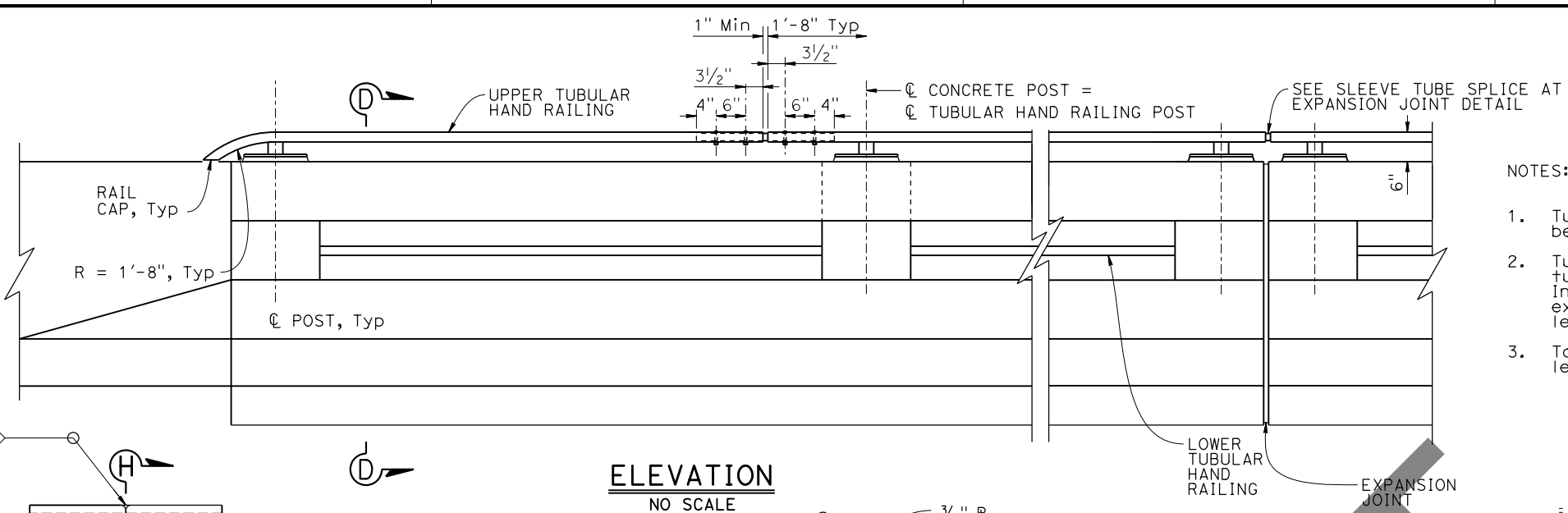
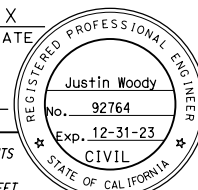


**TYPICAL SECTION**

\*Dimension may vary with bridge cross-slope and with certain thickness of surfacing. See Structural Plans.

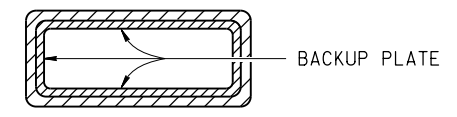
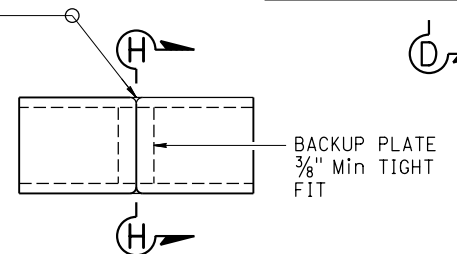
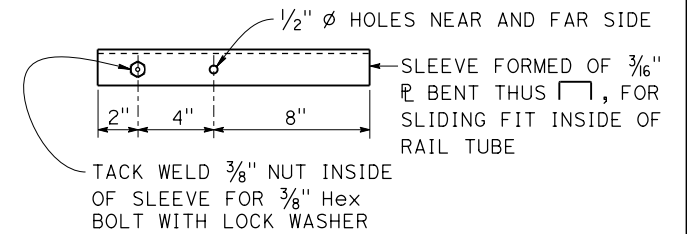
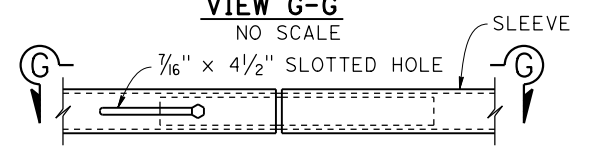
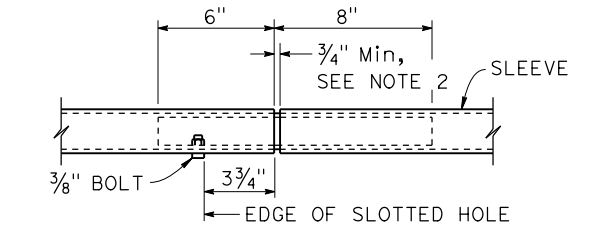
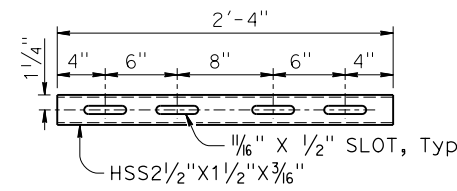
BRIDGE STANDARD DETAILS			STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No. 37-0018	SAN FRANCISQUITO CREEK BR (WIDEN) CONCRETE BARRIER TYPE 85SW DETAILS No. 3
xs16-118-3 FILE NO.	July 2021 APPROVAL DATE	The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California.			POST MILE 26.36	
Refer to: <a href="http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html">http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html</a>			DATE PLOTTED => 16-FEB-2023	TIME PLOTTED => 13:22	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3578 PROJECT NUMBER & PHASE: 04180000321
			FILE => 00_37-0018_allplans_sanfrancisco	COUNTY/ROUTE: SCL/82	CONTRACT No.: 04-0P9804	DISREGARD PRINTS BEARING EARLIER REVISION DATES
				REVISION DATES	SHEET 14	OF 19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
			X	DATE	
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.					

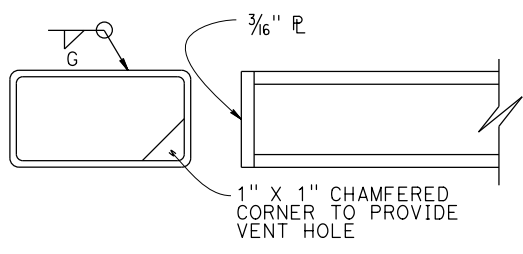
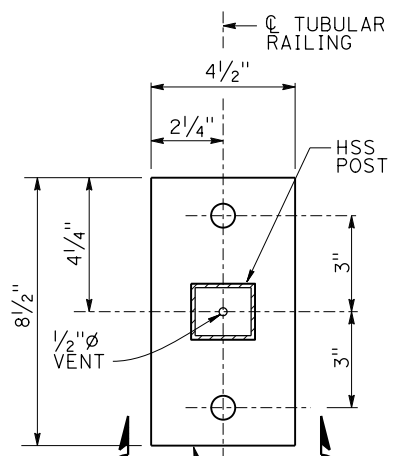


NOTES:

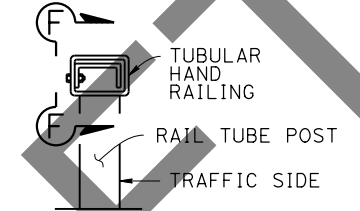
1. Tubular railing posts shall be normal to railing.
2. Tube splices shall be located in the tubes spanning deck or wall joints. Increase joint width in tubes to match expansion joint width and increase sleeve length accordingly.
3. Top rail tube shall be continuous over not less than two posts.



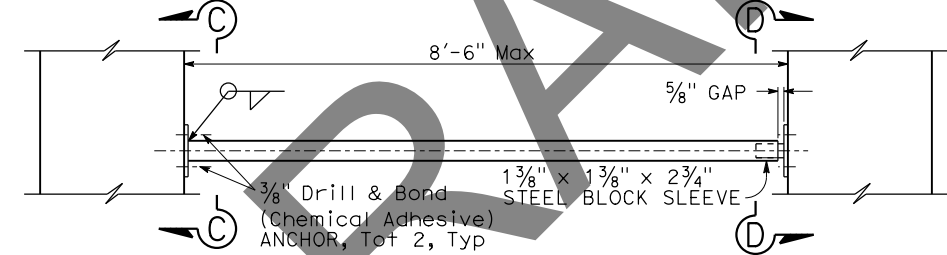
ALTERNATIVE TUBE WELDED STANDARD SPLICE FOR SPLICES NOT AT EXPANSION JOINTS NO SCALE



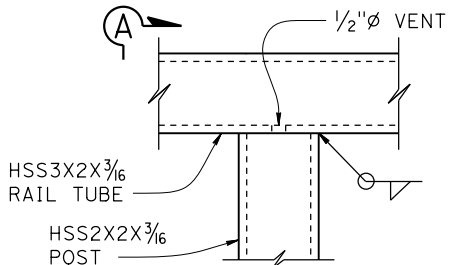
RAIL CAP NO SCALE



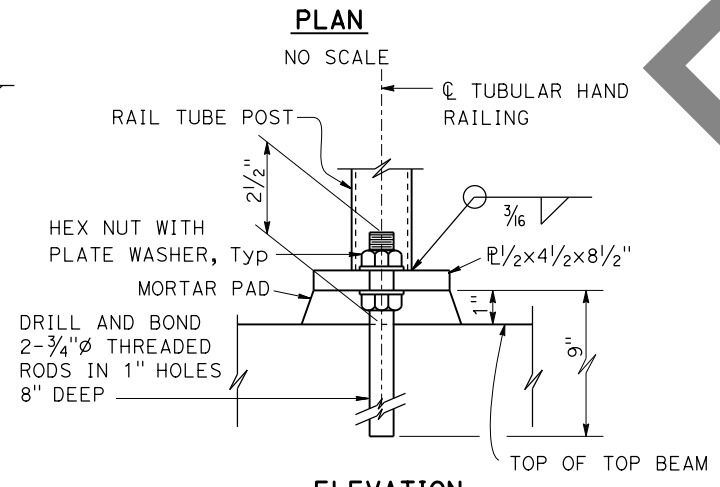
SECTION NO SCALE



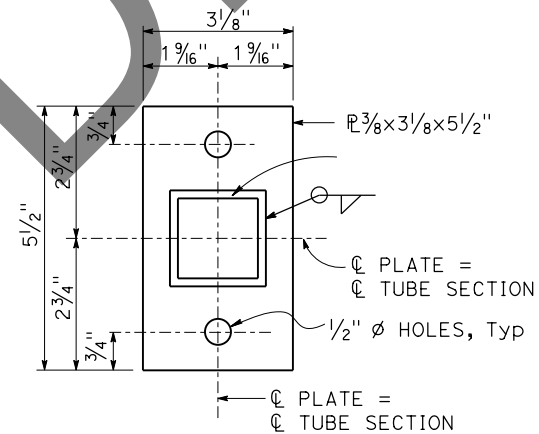
LOWER HAND RAIL DETAIL NO SCALE



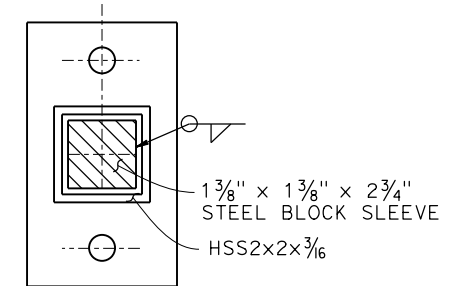
SECTION A-A NO SCALE



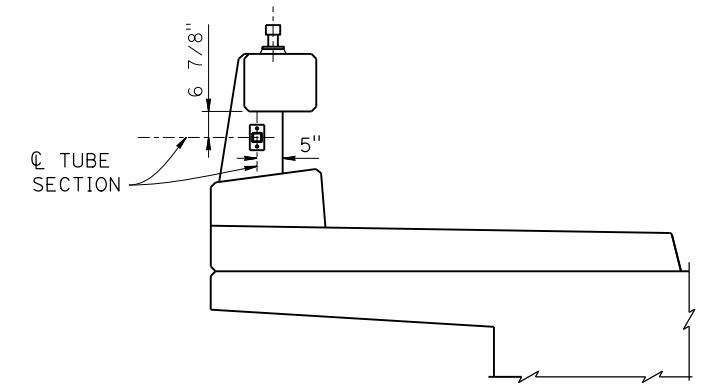
SECTION B-B TUBULAR HAND RAILING DETAILS NO SCALE



SECTION C-C NO SCALE



SECTION D-D NO SCALE



SECTION E-E NO SCALE

BRIDGE STANDARD DETAILS		
xs16-118-4	July 2021	The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California.
FILE NO.	APPROVAL DATE	

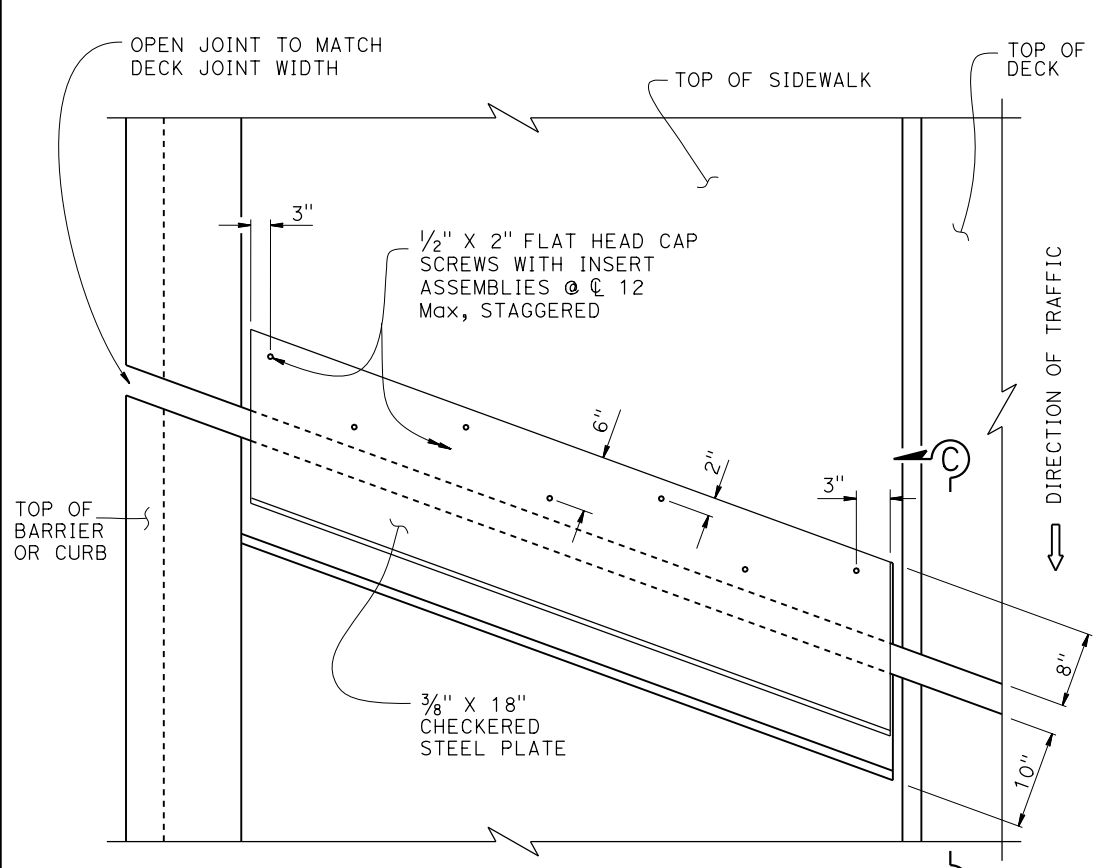
STATE OF CALIFORNIA		
DEPARTMENT OF TRANSPORTATION		

DIVISION OF ENGINEERING SERVICES	
BRIDGE No.	37-0018
POST MILE	26.36

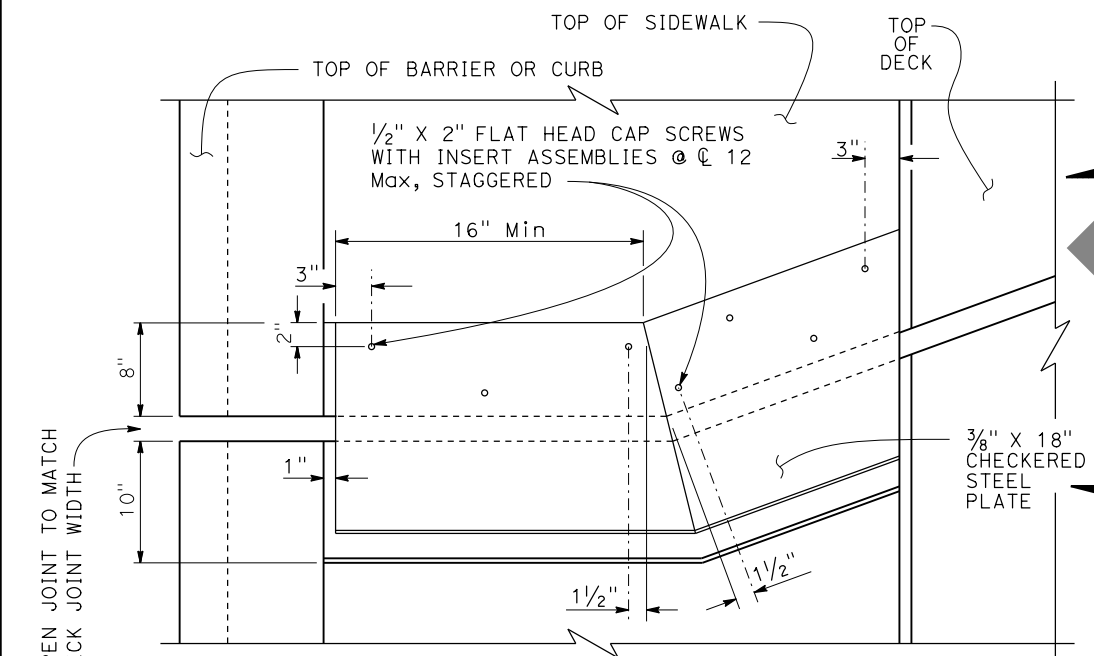
SAN FRANCISQUITO CREEK BR (WIDEN)	
CONCRETE BARRIER TYPE 85SW	
DETAILS No. 4	

REVISION DATES	SHEET	OF
1-19-21	15	19

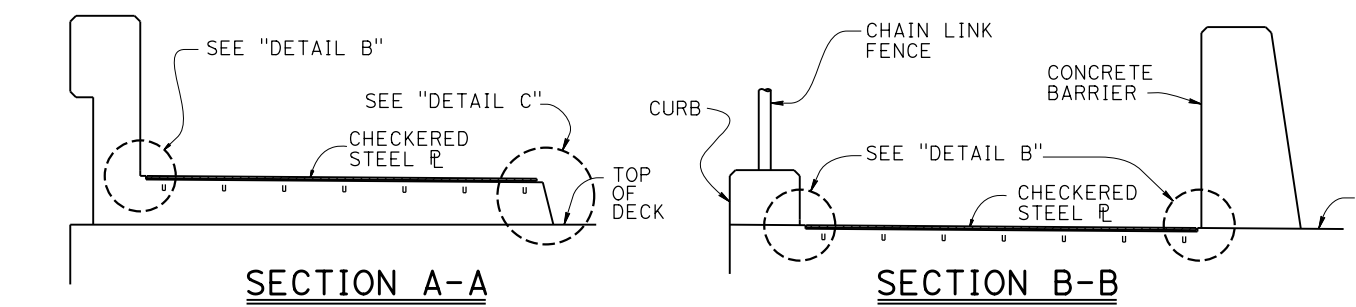
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			REGISTERED PROFESSIONAL ENGINEER		
			Justin Woody		
			No. 92764		
			Exp. 12-31-23		
			CIVIL		
			STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					
The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.					



**PLAN SKEW ≤ 20°**

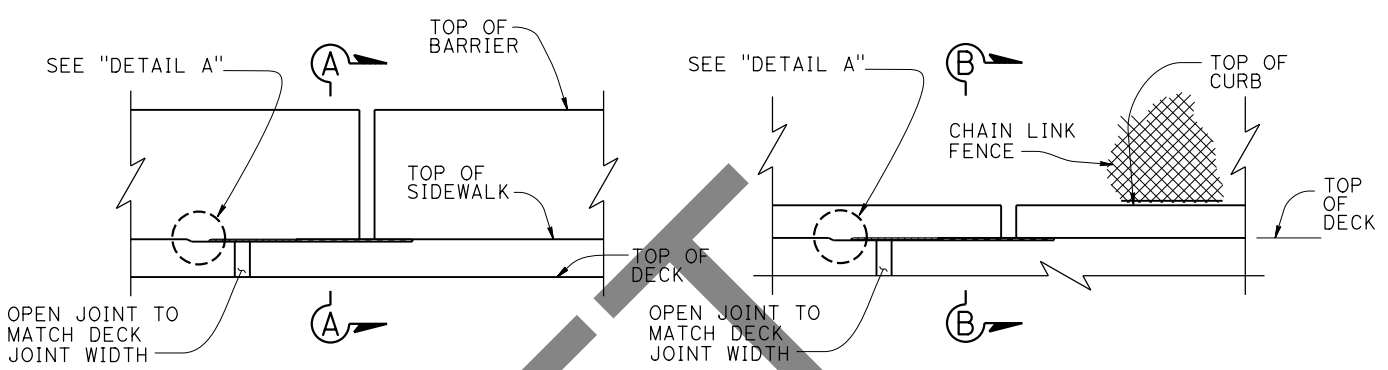


**PLAN SKEW > 20°**



**SECTION A-A**

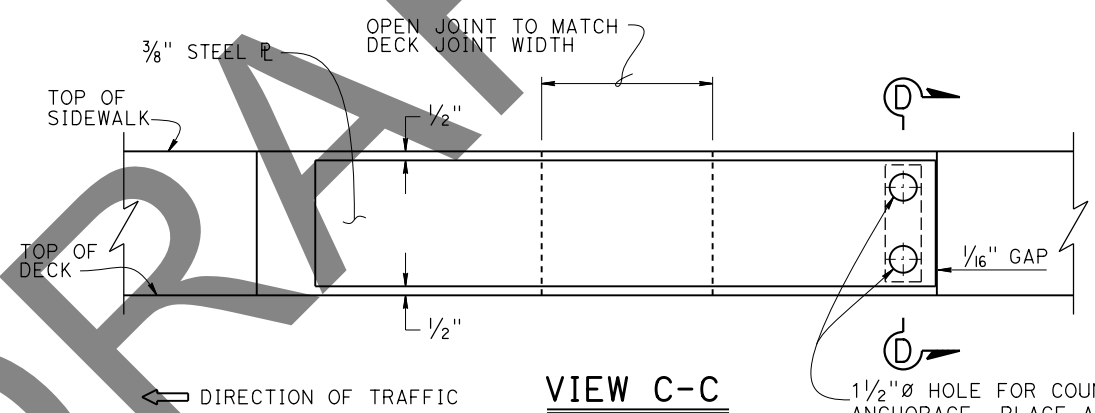
**SECTION B-B**



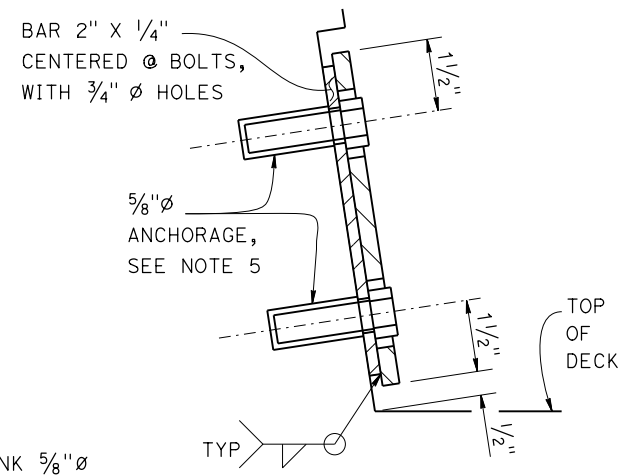
**ELEVATION**

**ELEVATION**

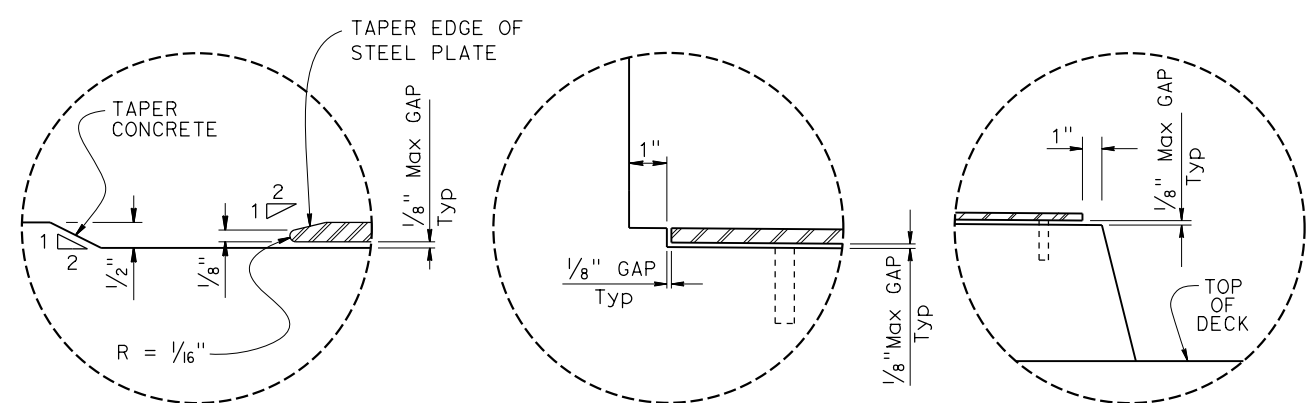
NOTE: Barrier not shown for clarity



**VIEW C-C**



**SECTION D-D**



**DETAIL A**

**DETAIL B**

**DETAIL C**

NO SCALE

BRIDGE STANDARD DETAILS		
<b>x98-050</b>	October 2018	The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California.
FILE NO.	APPROVAL DATE	

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES
DEPARTMENT OF TRANSPORTATION	

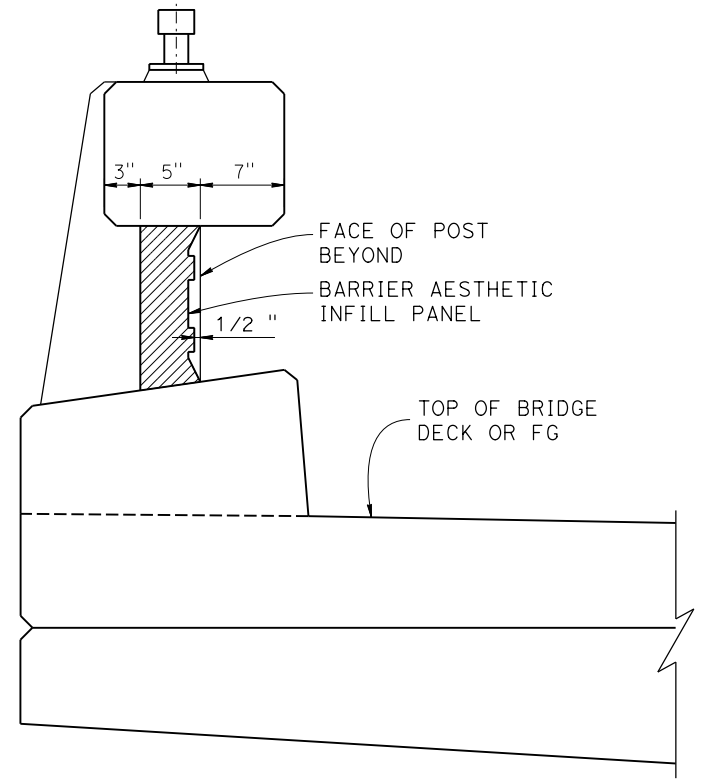
BRIDGE NO.	37-0018	<b>SAN FRANCISQUITO CREEK BR (WIDEN)</b>
POST MILE	26.36	
<b>JOINT ARMOR FOR PEDESTRIAN WALKWAYS</b>		

BRIDGE NO.	37-0018	<b>SAN FRANCISQUITO CREEK BR (WIDEN)</b>
POST MILE	26.36	
<b>JOINT ARMOR FOR PEDESTRIAN WALKWAYS</b>		

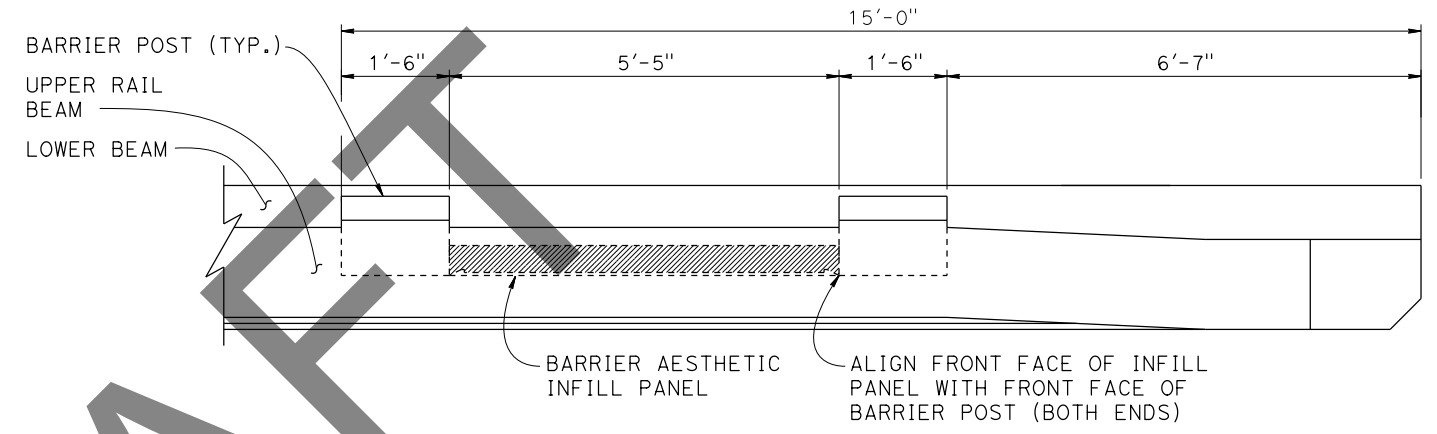
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
Abraham Almam REGISTERED CIVIL ENGINEER DATE 11/21/22			LICENSED ARCHITECT ABRAHAM L. ALMAM C33312 9/30/2023 Renewal Date STATE OF CALIFORNIA		
PLANS APPROVAL DATE					
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NOTES:

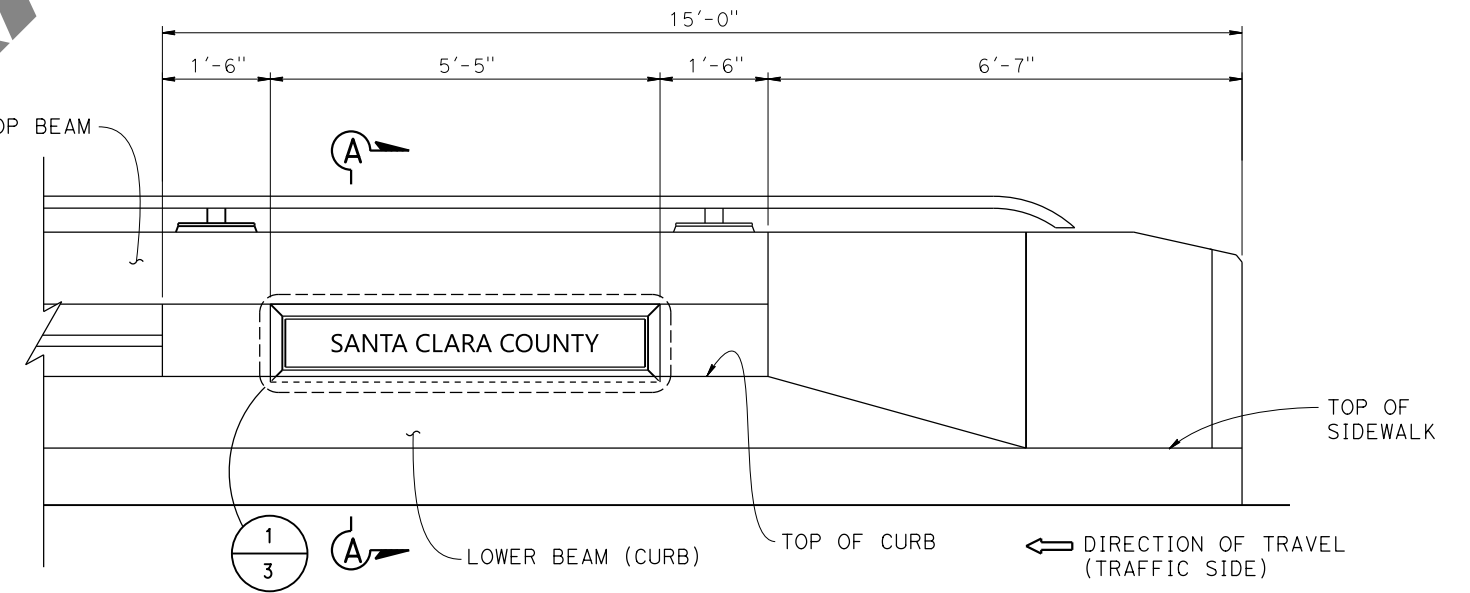
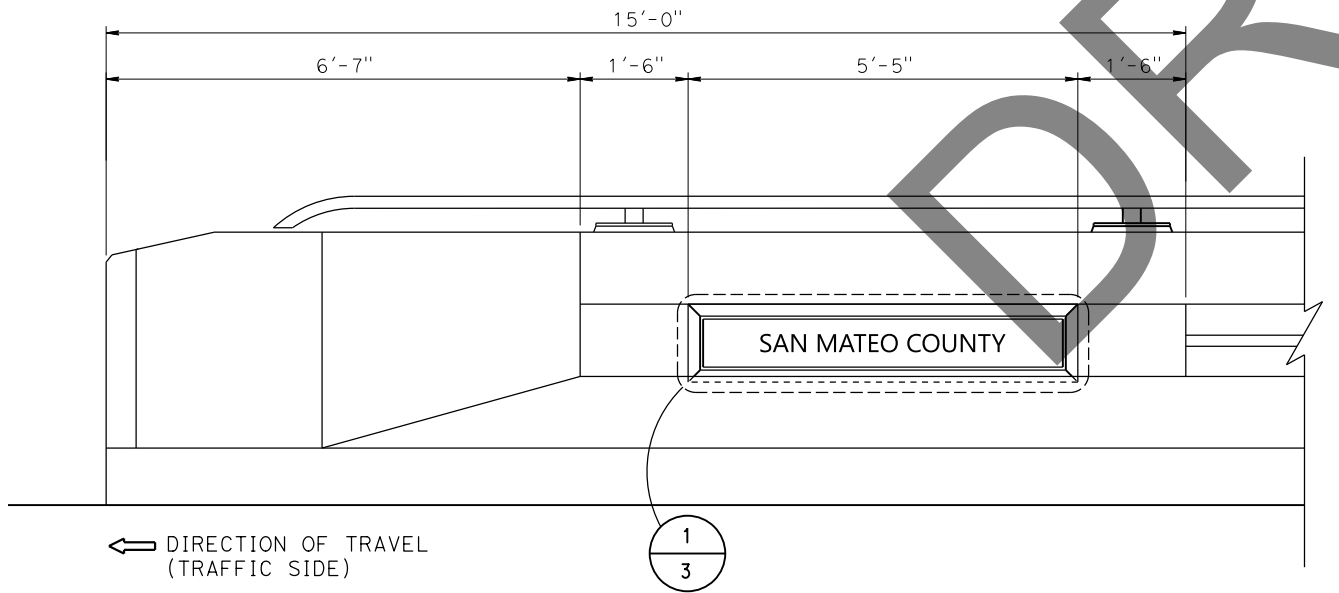
1. The contractor must verify all controlling dimensions prior to ordering or fabricating any materials or assemblies for construction.
2. For dimensions and details not shown, see structural plans.
3. Clean and paint all metal components.
4. See ARCHITECTURAL DETAILS No. 2 & 3 for additional details.



**SECTION A-A**  
NO SCALE



**TOP PLAN** (OTHER BARRIER END SIM.)  
NO SCALE



**TYPE 85SW Mod. BARRIER (NORTH SIDE ELEVATION)**  
NO SCALE

DESIGN	BY S. HEATH	CHECKED A. ALMAM
DETAILS	BY S. HEATH	CHECKED A. ALMAM
QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
STRUCTURES & ENGINEERING SERVICES  
**BRIDGE ARCHITECTURE & AESTHETICS**

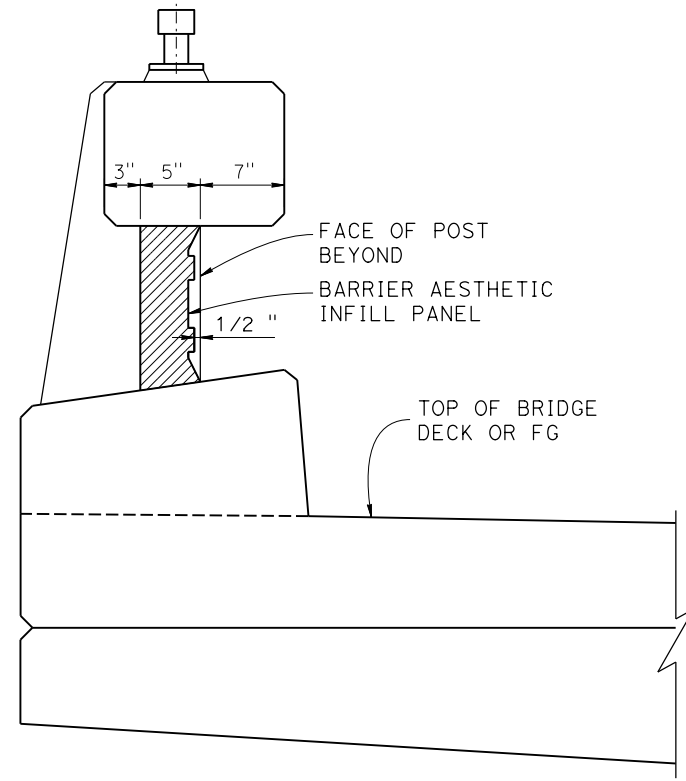
BRIDGE No.	37-0018
POST MILE	26.36

**SAN FRANCISQUITO CREEK BR (WIDEN)**  
**ARCHITECTURAL DETAILS No. 1**

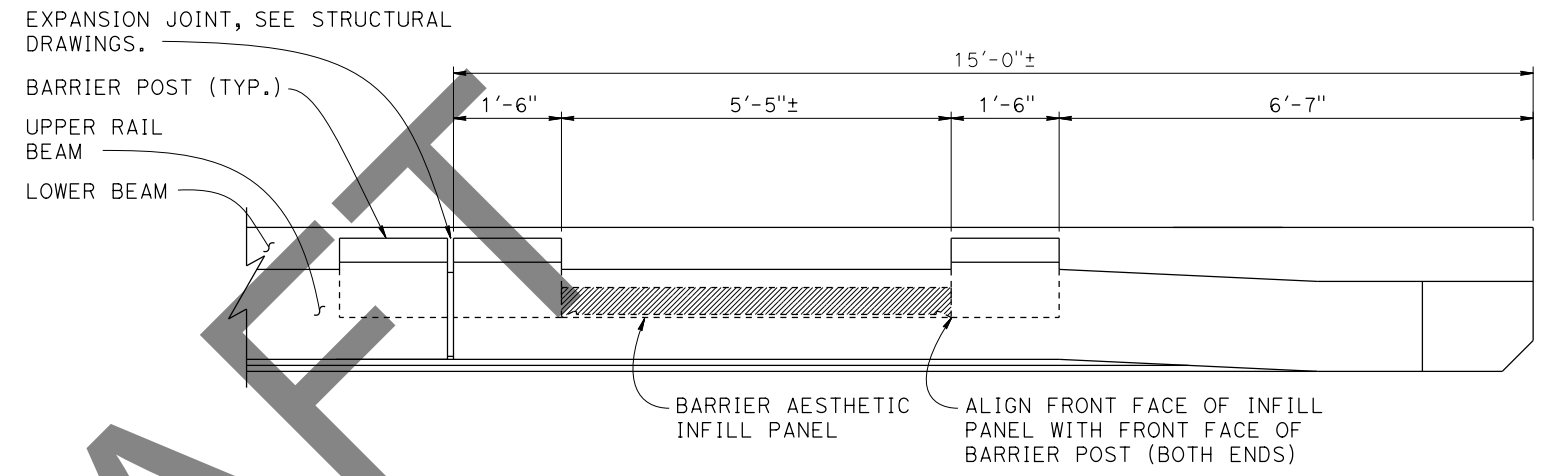
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
Abraham Almam REGISTERED CIVIL ENGINEER DATE 11/21/22			LICENSED ARCHITECT ABRAHAM L. ALMAM C33312 9/30/2023 Renewal Date		
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

NOTES:

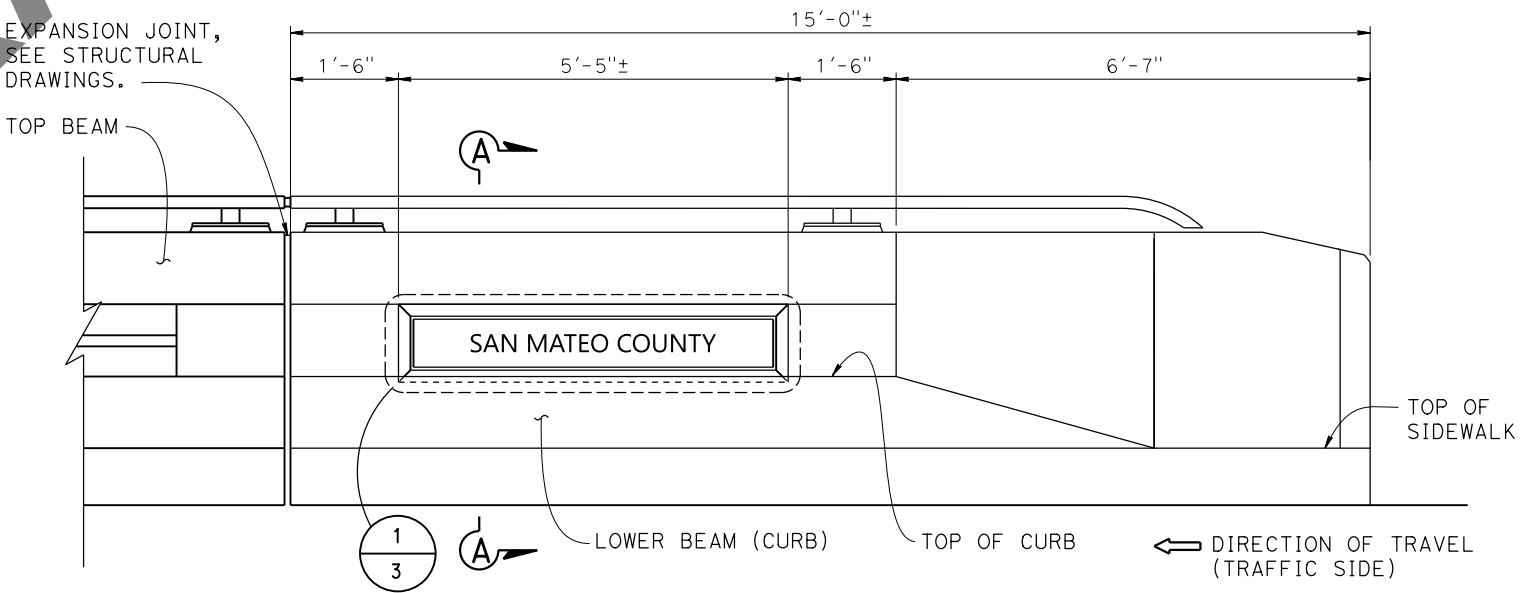
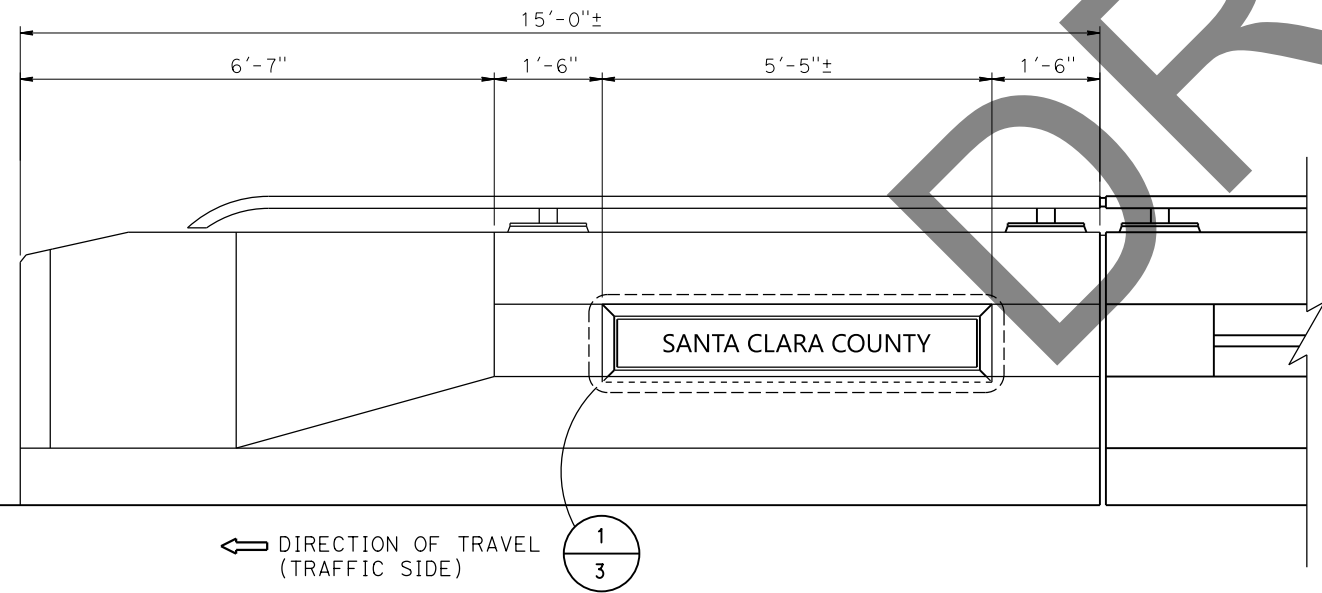
1. The contractor must verify all controlling dimensions prior to ordering or fabricating any materials or assemblies for construction.
2. For dimensions and details not shown, see structural plans.
3. Clean and paint all metal components.
4. See ARCHITECTURAL DETAILS No. 1 & 3 for additional details.



**SECTION A-A**  
NO SCALE



**TOP PLAN** (OTHER BARRIER END SIM.)  
NO SCALE



**TYPE 85SW Mod. BARRIER (SOUTH SIDE ELEVATION)**  
NO SCALE

DESIGN	BY S. HEATH	CHECKED A. ALMAM
DETAILS	BY S. HEATH	CHECKED A. ALMAM
QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
STRUCTURES & ENGINEERING SERVICES  
**BRIDGE ARCHITECTURE & AESTHETICS**

BRIDGE No.	37-0018
POST MILE	26.36

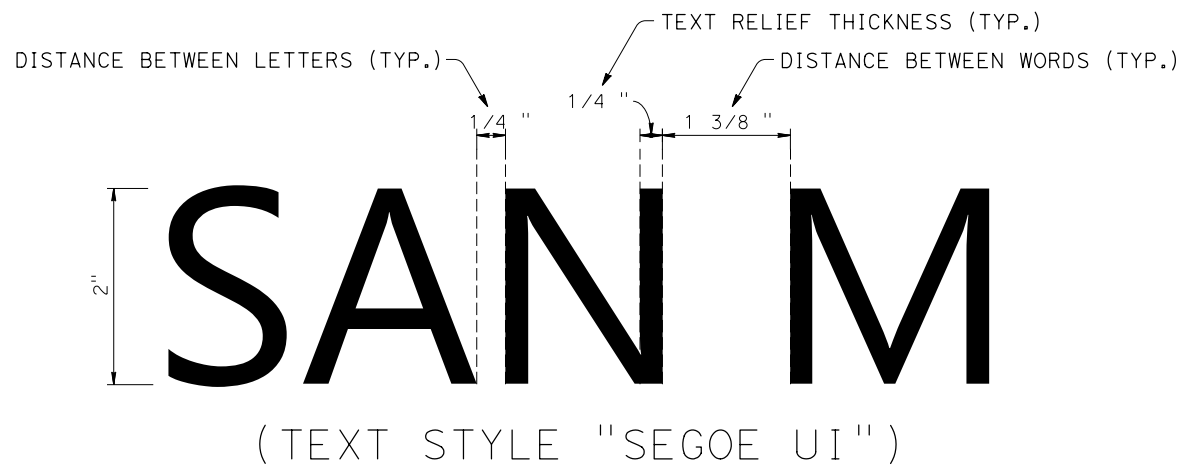
**SAN FRANCISQUITO CREEK BR (WIDEN)**  
**ARCHITECTURAL DETAILS No. 2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Abraham Almam 11/21/22  
 REGISTERED CIVIL ENGINEER DATE  
 LICENSED ARCHITECT  
 ABRAHAM L. ALMAM  
 C33312  
 9/30/2023  
 Renewal Date  
 STATE OF CALIFORNIA

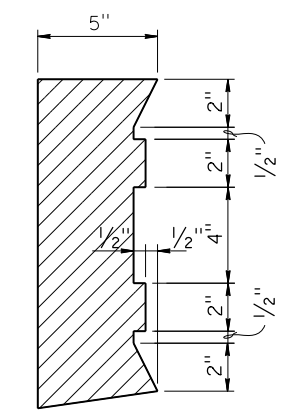
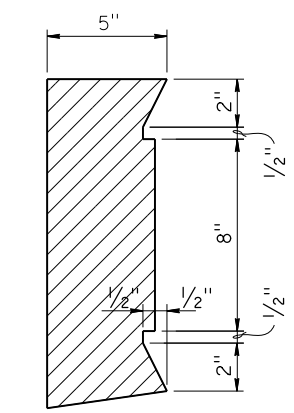
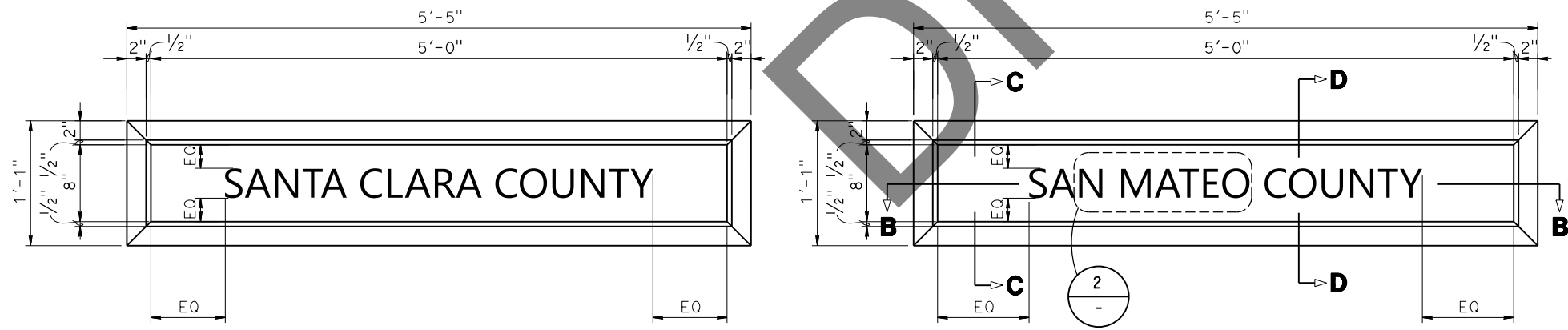
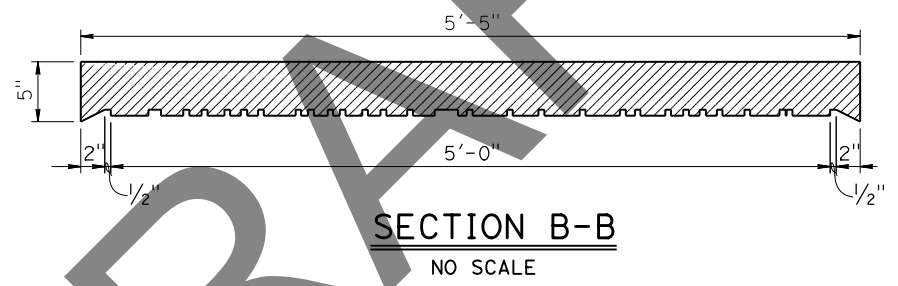
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



- NOTES:
1. The contractor must verify all controlling dimensions prior to ordering or fabricating any materials or assemblies for construction.
  2. For dimensions and details not shown, see structural plans.
  3. Clean and paint all metal components.
  4. See ARCHITECTURAL DETAILS No. 1 & 2 for additional details.

**DETAIL 2**  
NO SCALE



STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 3/10/2021)	DESIGN	BY S. HEATH	CHECKED A. ALMAM	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURES & ENGINEERING SERVICES BRIDGE ARCHITECTURE & AESTHETICS	BRIDGE No.	SAN FRANCISQUITO CREEK BR (WIDEN) ARCHITECTURAL DETAILS No. 3		
	DETAILS	BY S. HEATH	CHECKED A. ALMAM			37-0018			
	QUANTITIES	BY Justin Woody	CHECKED Alexis Guerrero			26.36			
DATE PLOTTED => 16-FEB-2023	TIME PLOTTED => 13:22	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3583	COUNTY/ROUTE: SCL/82	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 19	OF 19



# **WELCOME**

## **Upgrade Bridge Rail and Abandon Pedestrian Undercrossing**

**EA 04- 0P980**

**SCI-82- PM 11.38/26.36**

### **Palo Alto Pedestrian and Bicycle Advisory Committee Meeting**



# AGENDA

- 1. Introduction**
- 2. Project Overview**
- 3. Questions/Comments**

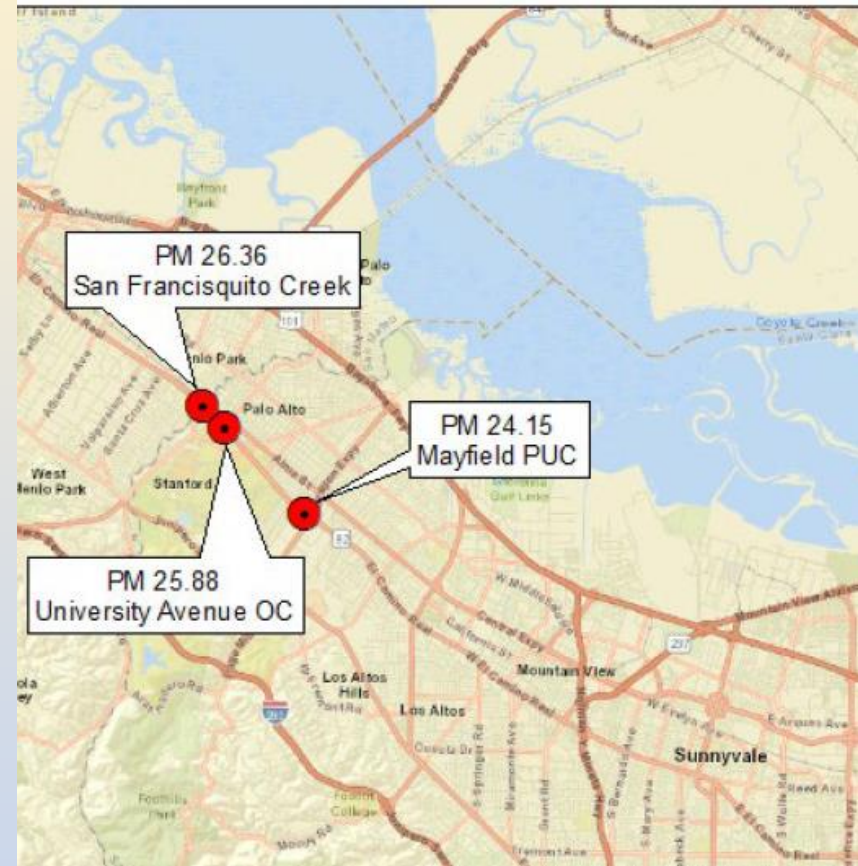
# 1. INTRODUCTION

- SRILATHA RAAVI– PROJECT MANAGER
- NICK SALEH – PRINCIPAL, PROJECT MANAGEMENT-SANTA CLARA
- MUSTAQUR RAHMAN– DESIGN SENIOR
- GREG CURREY- BIKE/PED COORDINATOR
- SCOTT BOTTARI-LANDSCAPE ARCHITECT

# 2. PROJECT OVERVIEW

## A. PROJECT LOCATION:

1. Mayfield Undercrossing
2. University Ave Overcrossing
3. San Francisquito Creek Overcrossing



# TITLE SHEET

## INDEX OF PLANS

- 1 TITLE SHEET AND LOCATION MAP
- XX - XX LAYOUT
- XX - XX CONSTRUCTION DETAILS
- XX - XX TEMPORARY WATER POLLUTION CONTROL PLAN AND QUANTITIES
- XX - XX DRAINAGE PLAN, PROFILES, DETAILS AND QUANTITIES
- XX - XX UTILITY PLAN
- XX - XX CONSTRUCTION AREA SIGNS
- XX - XX MOTORIST INFORMATION PLANS
- XX - XX TRAFFIC HANDLING PLANS AND QUANTITIES
- XX - XX PAVEMENT DELINEATION PLAN AND QUANTITIES
- XX - XX SIGN PLAN, DETAILS AND QUANTITIES
- XX - XX SUMMARY OF QUANTITIES
- XX - XX EROSION CONTROL LEGEND, PLANS AND QUANTITIES
- XX - XX ELECTRICAL PLANS
- XX - XX REVISED STANDARD PLANS
  
- STRUCTURE PLANS
- XX - XX DE LA CRUZ Blvd OC (WIDEN), Br No. 37-0214
- XX - XX MAYFIELD Ped UC (REMOVAL), Br No. 37-0091
- XX - XX UNIVERSITY Ave OC (WIDEN), Br No. 37-0092
- XX - XX SAN FRANCISQUITO Cr Br (WIDEN), Br No. 37-0018

## STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

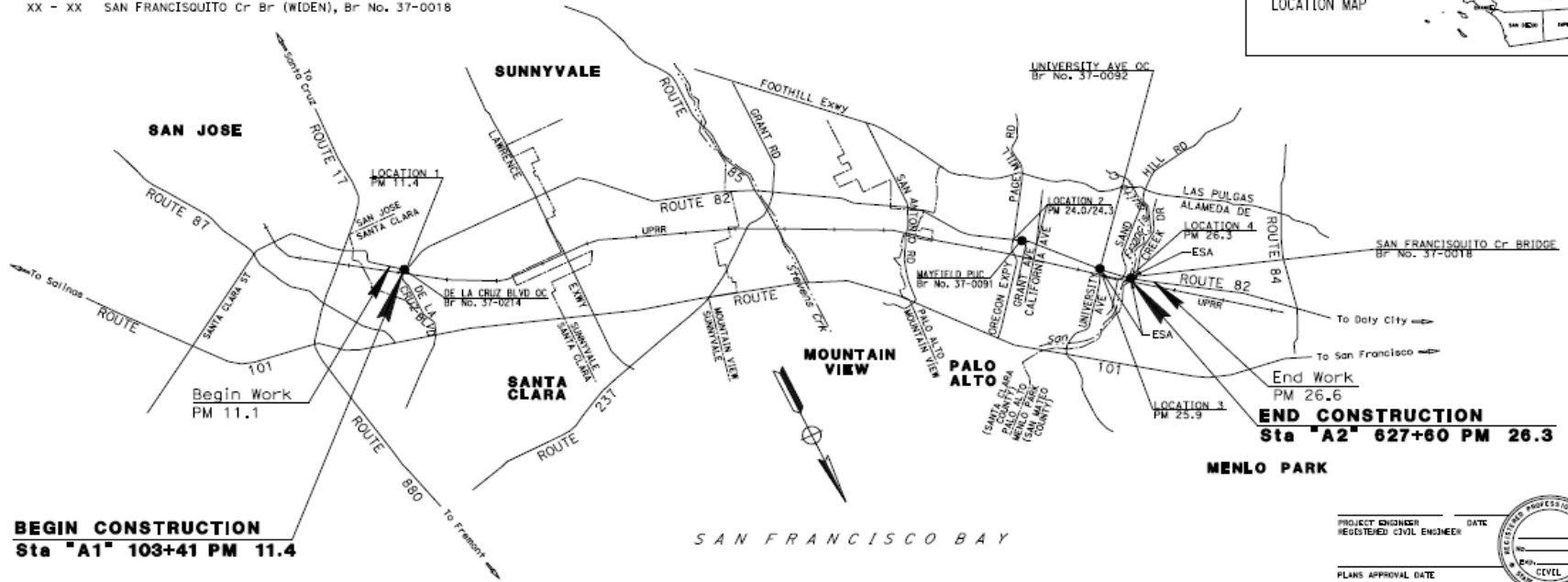
### PROJECT PLANS FOR CONSTRUCTION ON AND ADJACENT TO STATE HIGHWAY IN SANTA CLARA COUNTY AT VARIOUS LOCATIONS FROM DE LA CRUZ BOULEVARD OVERCROSSING TO SAN FRANCISQUITO CREEK BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2022

Dist	COUNTY	ROUTE	PROJECT MILES TOTAL	SHEET No.	TOTAL SHEETS
04	SCI	82	11.4/26.3	X	A

LOCATION MAP



**BEGIN CONSTRUCTION**  
Sta "A1" 103+41 PM 11.4

**END CONSTRUCTION**  
Sta "A2" 627+60 PM 26.3

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE \*NOTICE TO BIDDERS.\*

NO SCALE

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
REGISTERED CIVIL ENGINEER



PLANS APPROVAL DATE \_\_\_\_\_  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	<b>04-0P9804</b>
PROJECT ID	<b>041800032</b>

100-00-00  
 DATE PLOTTED: 02/26/2023  
 TIME PLOTTED: 11:20:11



## **B. PURPOSE AND NEED**

### **PURPOSE:**

**The purpose of this project is to upgrade existing vehicular and pedestrian bridge railings to standard and close an underutilized non-ADA compliant pedestrian tunnel.**

### **NEED:**

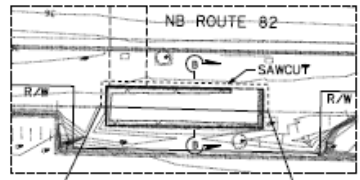
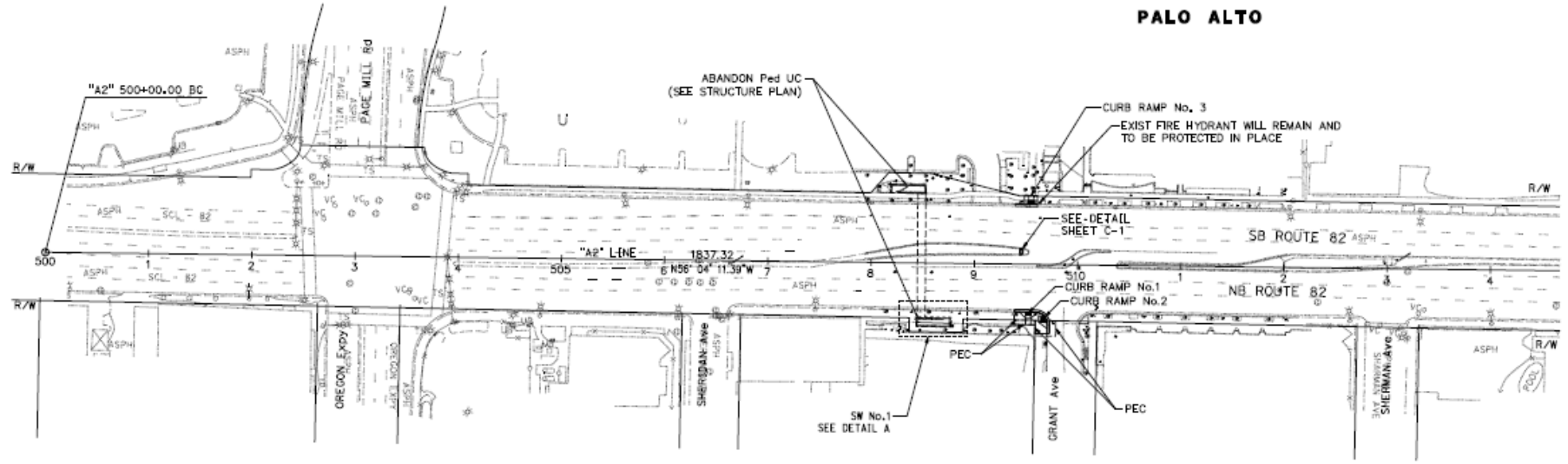
**The need is safety mandate per federal standards to upgrade bridge rail.**

## C. SCOPE OF WORK

### Mayfield Undercrossing:

- **Close the Pedestrian Undercrossing**
- **Install high-visibility crosswalk striping**
- **Install a new ADA curb ramp in the SB direction and upgrade existing ADA ramps in the NB direction.**
- **Install Pedestrian Hybrid Beacon system**

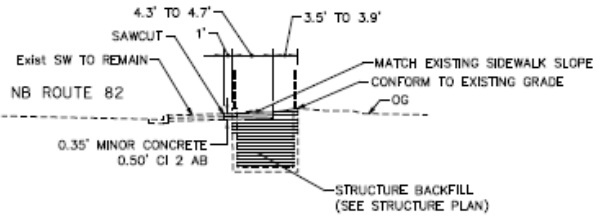
# PROPOSED IMPROVEMENTS AT GRANT AVENUE



57.38' Rt "A2" 508+43.38  
Beg SW

58.01' Rt "A2" 508+78.39  
END SW

DETAIL A



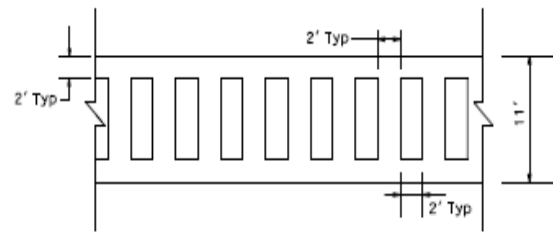
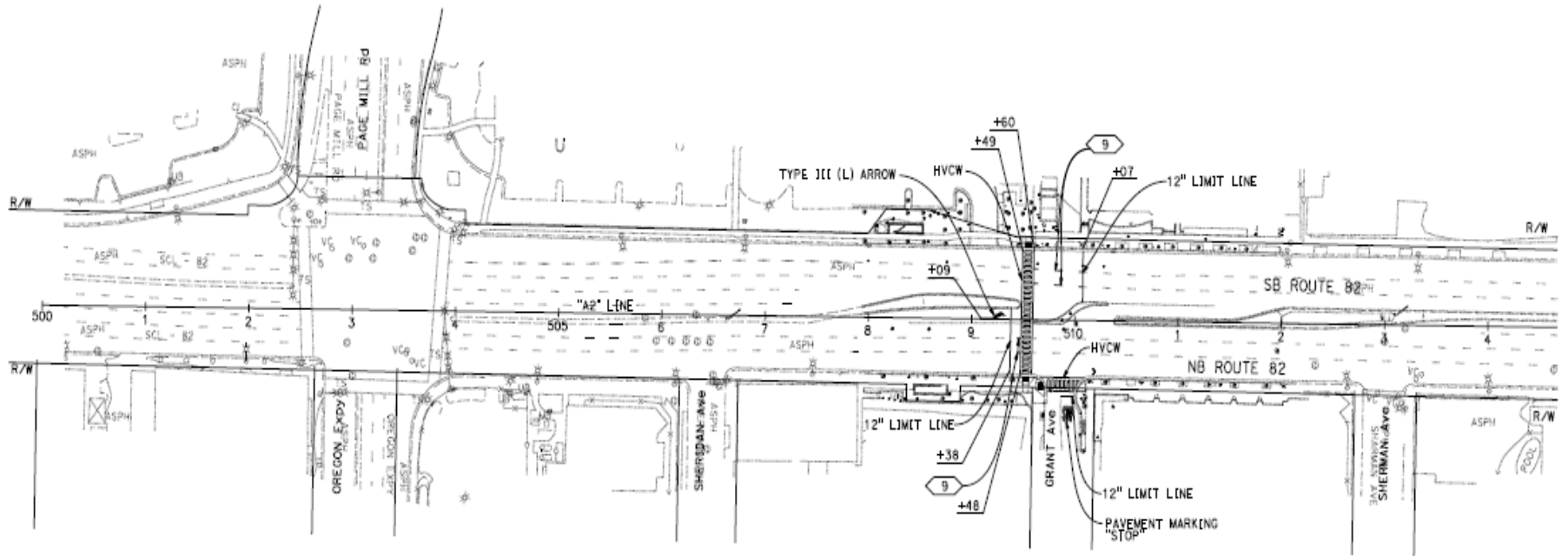
SECTION B-B

**LAYOUT  
LOCATION 2**

SCALE: 1" = 50'



# HIGH VISIBILITY CROSSWALK STRIPING AT GRANT AVE



**HIGH VISIBILITY CROSSWALK (LADDER)**  
NO SCLAE

**PAVEMENT DELINEATION  
LOCATION 2**

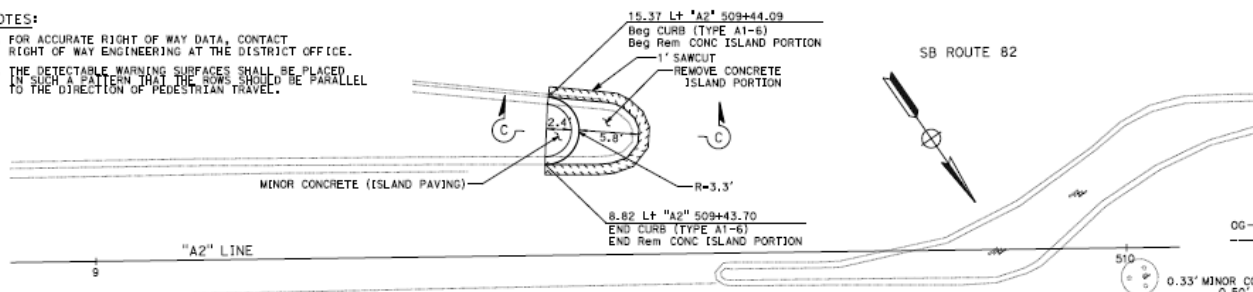
# CURB RAMP UPGRADES AT GRANT AVENUE

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- THE DETECTABLE WARNING SURFACES SHALL BE PLACED IN SUCH A PATTERN THAT THE ROWS SHOULD BE PARALLEL TO THE DIRECTION OF PEDESTRIAN TRAVEL.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	82	Var	X	X

REGISTERED CIVIL ENGINEER DATE: \_\_\_\_\_  
 PLANS APPROVAL DATE: \_\_\_\_\_  
 THE STATE OF CALIFORNIA OR ITS OFFICES OR ANY EMPLOYEE THEREOF SHALL NOT BE HELD LIABLE FOR NEGLIGENCE OR OTHERWISE CAUSED DAMAGE OF ANY KIND OR NATURE.



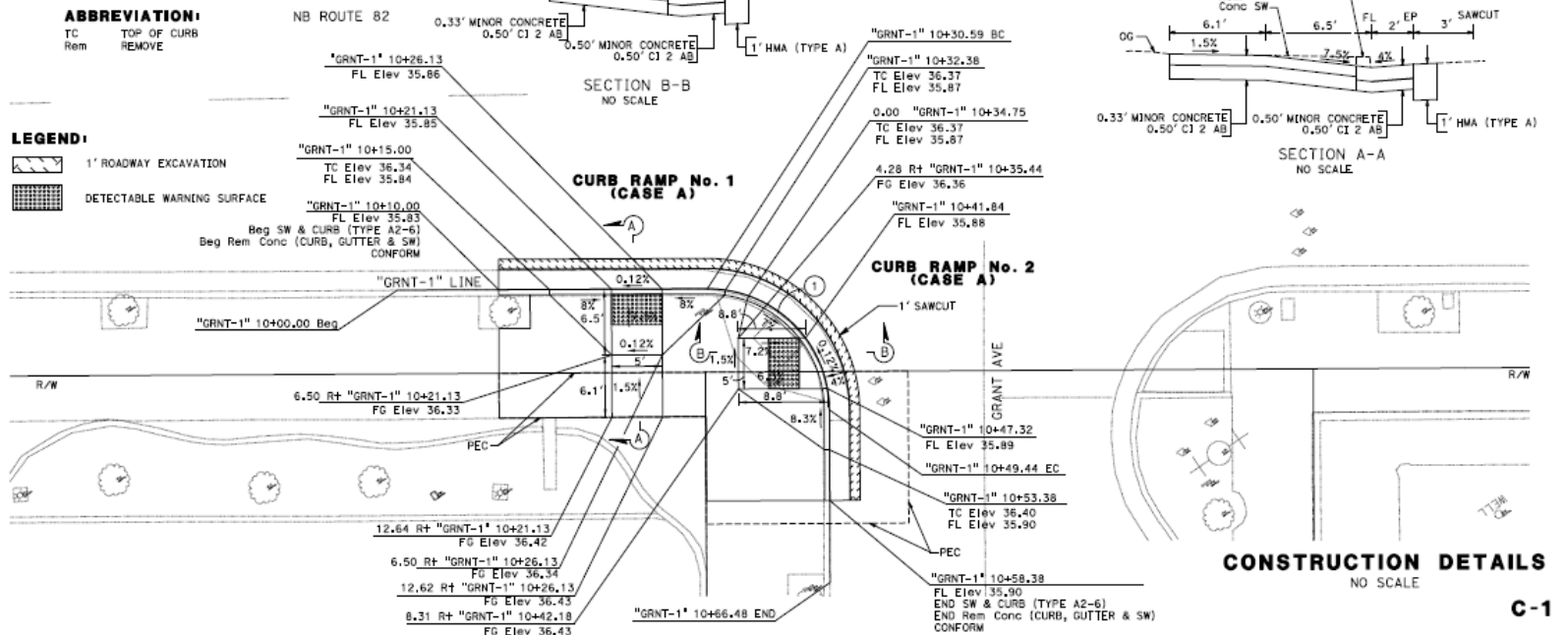
**CURVE DATA**

No.	Δ	R	Δ	A	T	L
1		12.00'	90° 00' 02"	12.00'	12.00'	18.85'

**ABBREVIATION:**  
 TC TOP OF CURB  
 Rem REMOVE

**LEGEND:**

- 1' ROADWAY EXCAVATION
- DETECTABLE WARNING SURFACE



**CONSTRUCTION DETAILS**  
 NO SCALE

**C-1**

REVISED BY: \_\_\_\_\_  
 DATE REVISED: \_\_\_\_\_

IN CHARGE: HENRY YAP  
 MUSTAFAUR RAHMAN

CHECKED BY: \_\_\_\_\_

FUNCTIONAL SUPERVISOR: MUSTAFAUR RAHMAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Caltrans

BORDER LAST REVISED 7/2/2010

USERNAME: s3146237  
 JOB FILE: s3146237\_01.dwg

RELATIVE BORDER SCALE: 0 1 2 3  
 (5 TO INCHES)

UNIT 0716

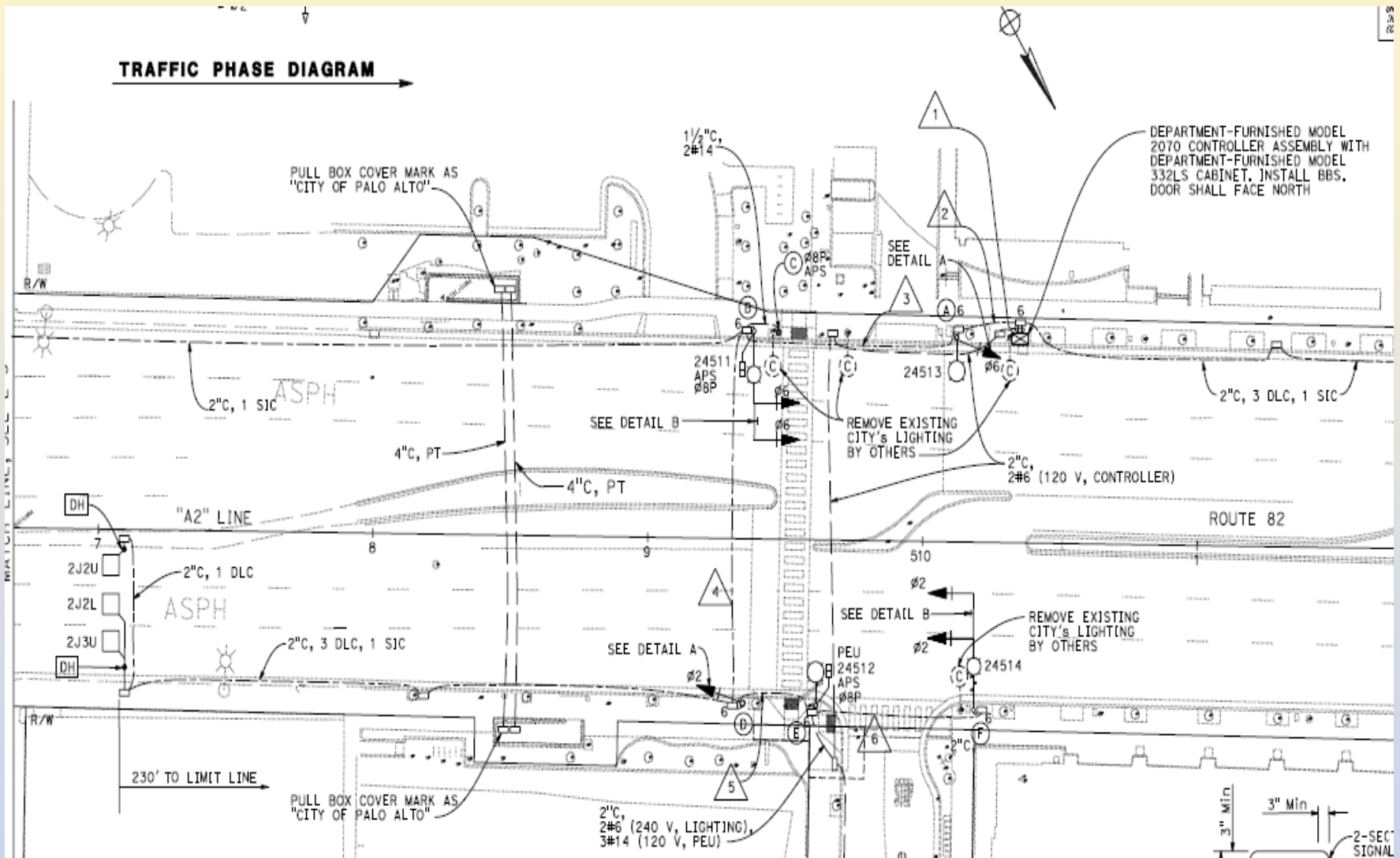
PROJECT NUMBER & PHASE

0418000032



CONSTRUCTION DATE: 10/21/21  
 DATE PLOTTED: 10/21/21

# PEDESTRIAN HYBRID BEACON AT GRANT AVENUE

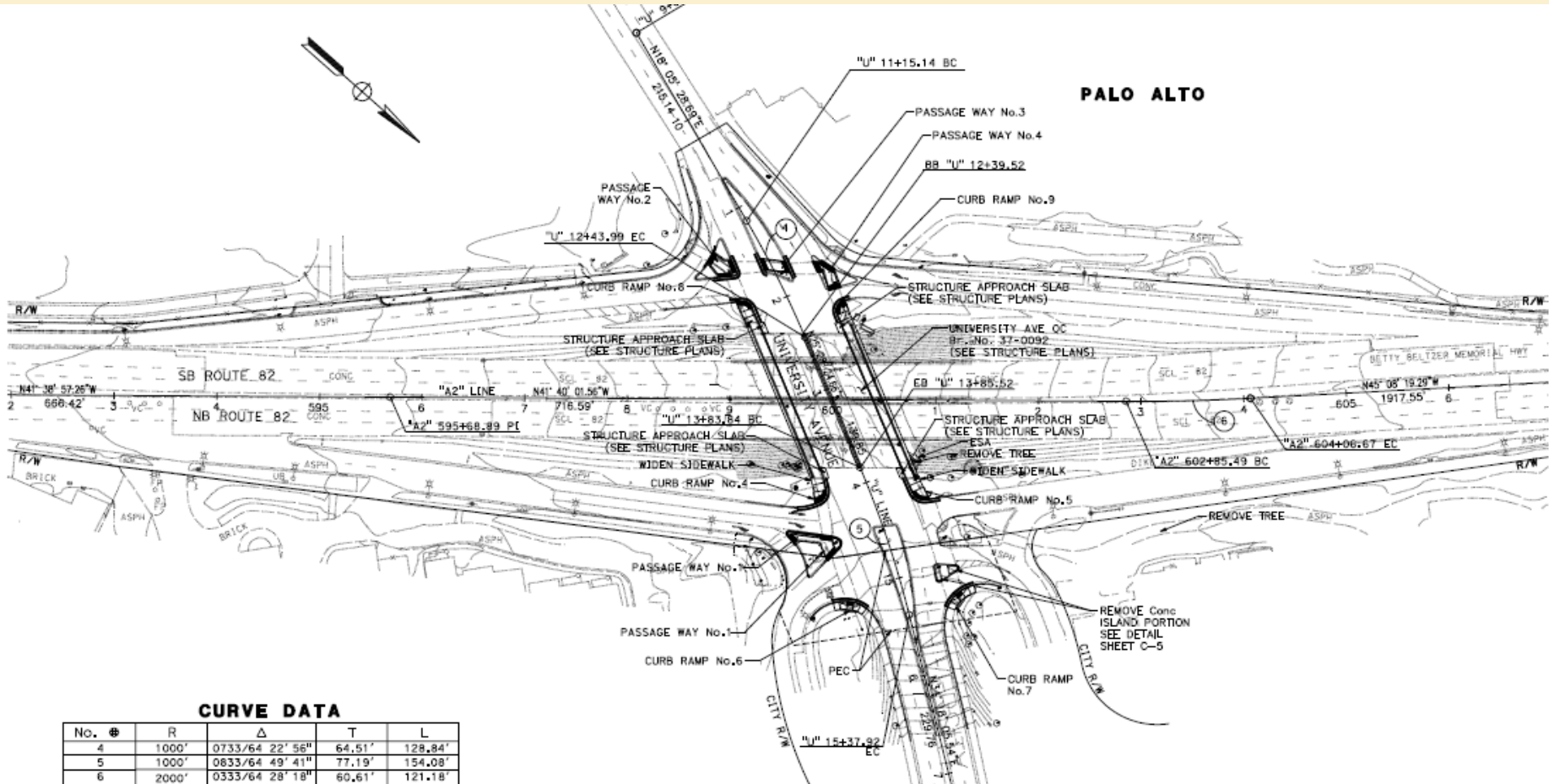


## **C. SCOPE OF WORK (Contd.)**

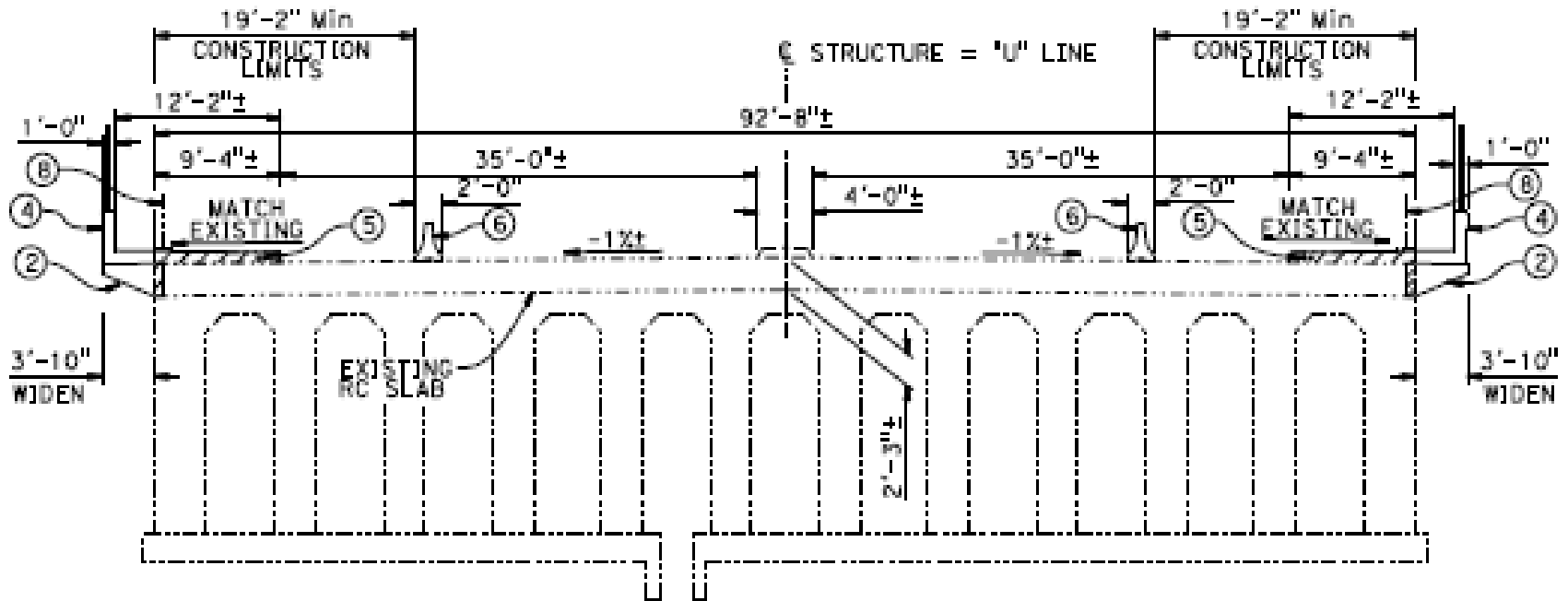
### **University Avenue Overcrossing:**

- **Upgrade Bridge rail to standard concrete barrier Type 732 SW and Type 6 chain-link fence**
- **Architectural treatment on the barrier**
- **Widen sidewalk in both directions to 12 ft 2in to accommodate bicycle and pedestrians**
- **Upgrade ADA curb ramps**
- **Widen passageways to accommodate bike/ped movements through intersections**
- **Install high-visibility crosswalk striping**
- **Upgrade existing traffic signal system on either side of the bridge**

# PROPOSED IMPROVEMENTS AT UNIVERSITY AVENUE OC



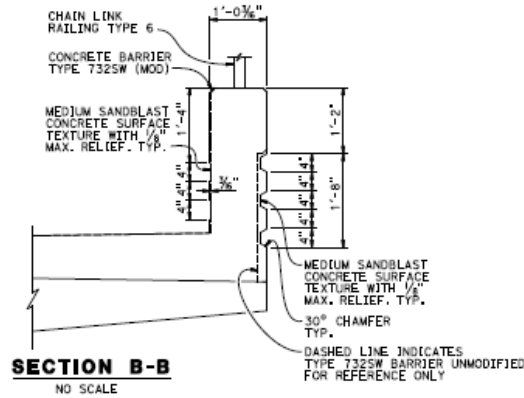
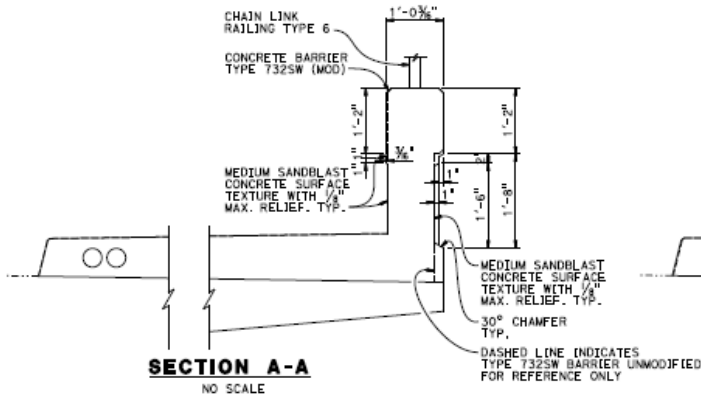
# UNIVERSITY AVENUE OVERCROSSING STRUCTURE TYPICAL SECTION



TYPICAL SECTION

NO SCALE

# BRIDGE RAIL ARCHITECTURAL DETAILS



DATE	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
1/16/22					

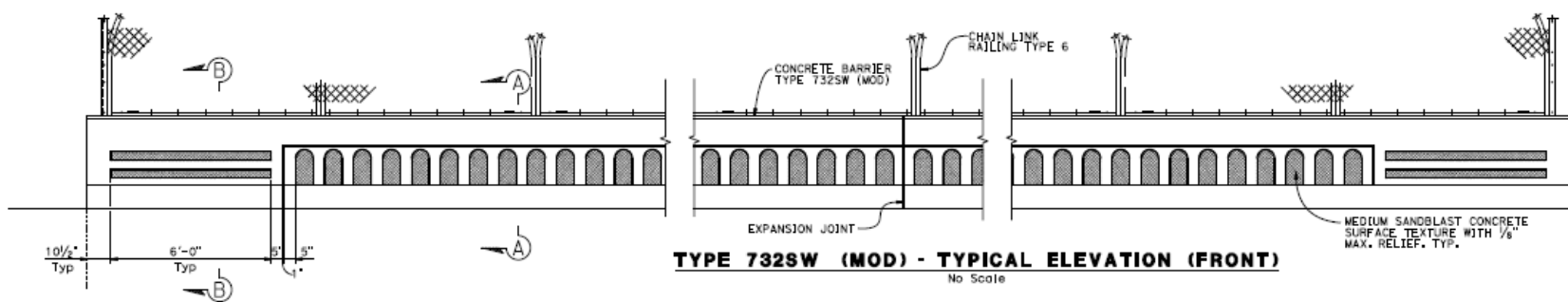
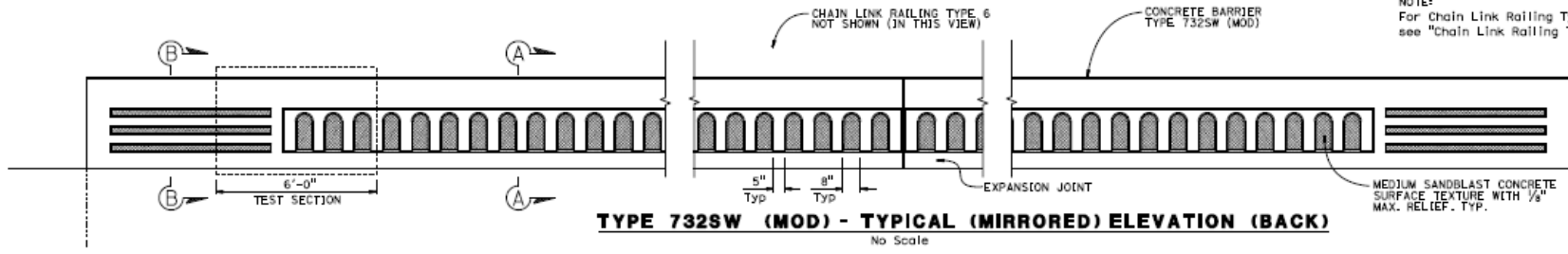
REGISTERED CIVIL ENGINEER DATE 1/16/22  
 ARCHITECT  
 ABRAHAM L. ALMAN  
 C.13192  
 9/30/2014  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:  
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

- LEGEND:
- Indicates existing structure
  - Indicates new structure
  - Indicates MEDIUM SANDBLAST CONCRETE SURFACE TEXTURE WITH 1/8" max. relief.

NOTE:  
For Chain Link Railing Type 6 Details, see "Chain Link Railing Type 6" sheet



DESIGN BY: S. HEATH CHECKED BY: A. ALMAN DATE PLOTTED: 10/10/2022 TIME PLOTTED: 11:07 PLOT: 04_37-0092_01.dwg	DRAWN BY: A. ALMAN CHECKED BY: A. ALMAN DATE PLOTTED: 10/10/2022 TIME PLOTTED: 11:07 PLOT: 04_37-0092_01.dwg	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURES & ENGINEERING SERVICES BRIDGE ARCHITECTURE & AESTHETICS	SHEET NO.: 37-0092 POST SIZE: 25.88	UNIVERSITY AVENUE OC (WIDEN) ARCHITECTURAL DETAILS
PROJECT NUMBER & PHASE: 04180000321 CONTRACT NO.: 04-CP9804	SHEET NO.: 9 TOTAL SHEETS: 11	1 2 3			



# EXISTING CONDITION AT UNIVERSITY OVERCROSSING





# UNIVERSITY AVENUE OVERCROSSING PROPOSED ARCHITECTURAL TREATMENT



# UNIVERSITY AVENUE OVERCROSSING PROPOSED ARCHITECTURAL TREATMENT

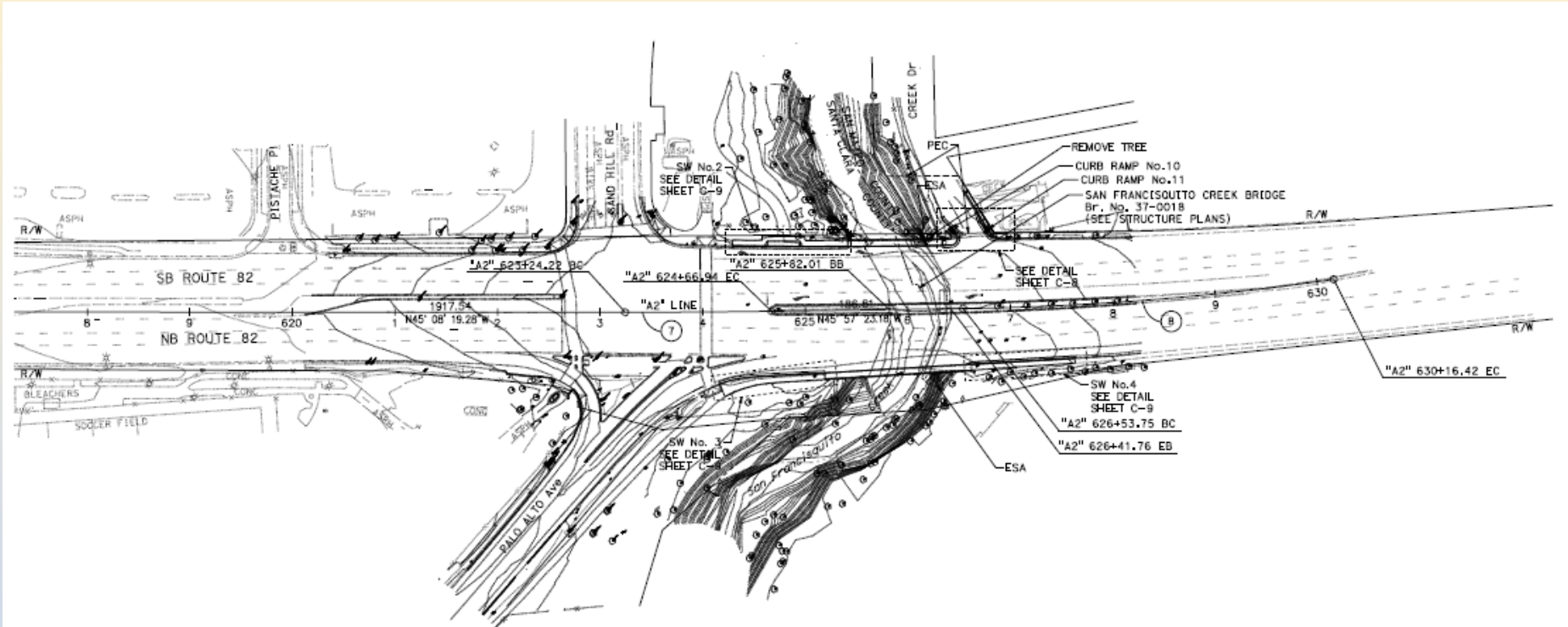


## **C. SCOPE OF WORK(Contd.)**

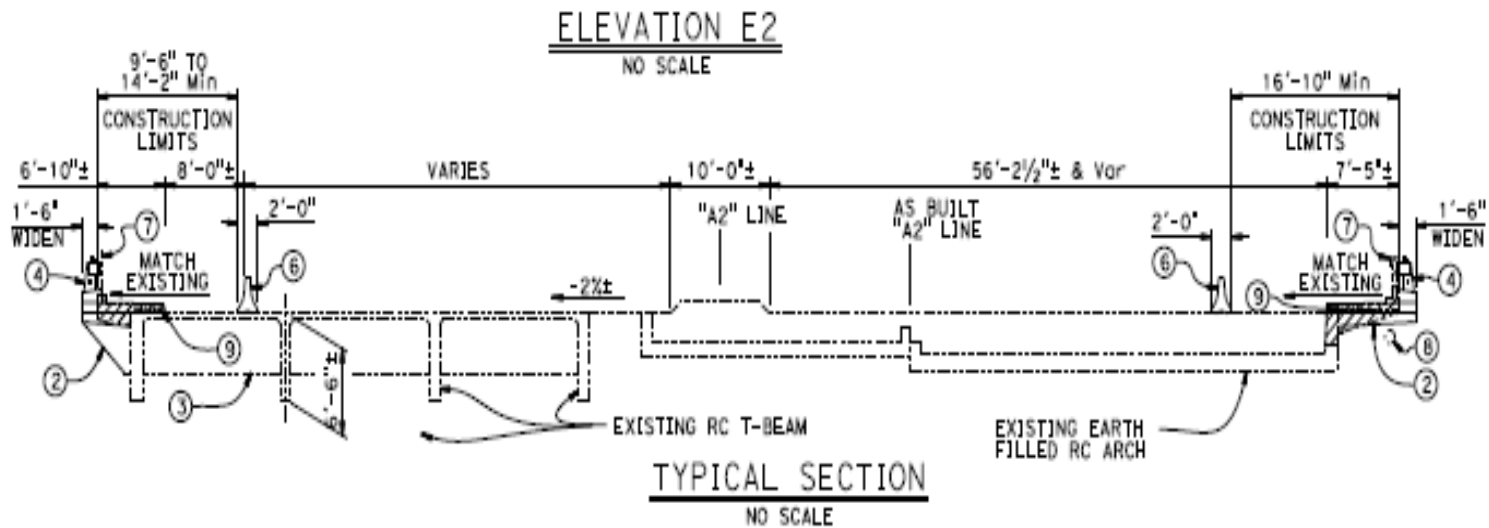
### **San Francisquito Creek Overcrossing:**

- **Upgrade Bridge rail to standard concrete barrier Type 85SW**
- **Widen sidewalk on both sides to standard 6 ft 2in**
- **Upgrade streetlight on the bridge**
- **Upgrade ADA curb ramp at SR-82/Creek Dr. Intersection and install crosswalk.**
- **Remove existing streetlight and install a new safety lighting near the crosswalk.**

# PROPOSED IMPROVEMENTS AT SAN FRANCISQUITO CREEK BRIDGE OVERCROSSING



# SAN FRANCISQUITO CREEK OVERCROSSING TYPICAL SECTION



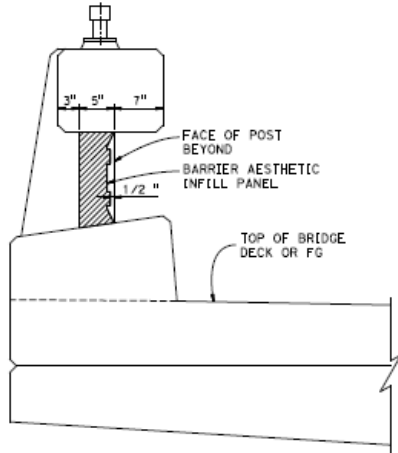
# SAN FRANCISQUITO BRIDGE RAIL DETAILS

DIST	COUNTY	ROUTE	POST NOLES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

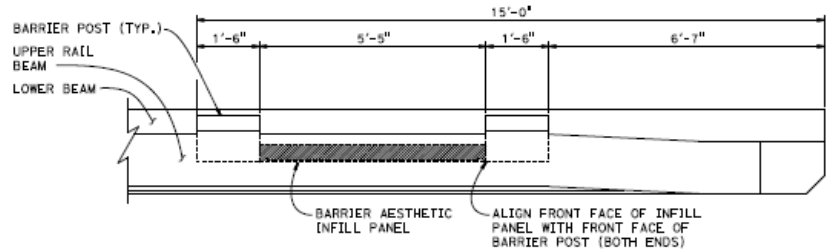
*Abraham Alman* 1/21/22  
 REGISTERED CIVIL ENGINEER DATE  
 APPROVED MONUMENT  
**ABRAHAM L. ALMAN**  
 C33392  
 9/22/2021  
 CIVIL  
 STATE OF CALIFORNIA  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

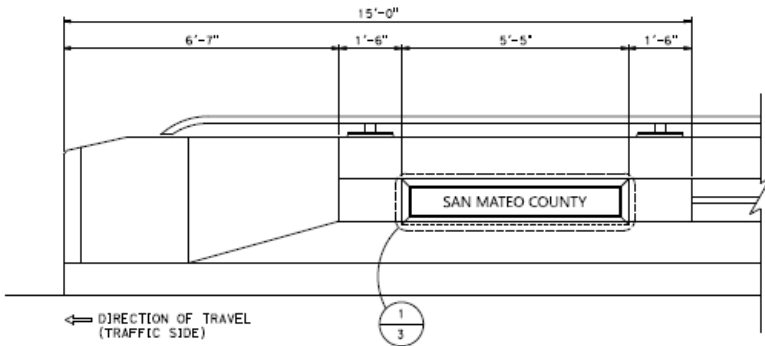
1. The contractor must verify all controlling dimensions prior to ordering or fabricating any materials or assemblies for construction.
2. For dimensions and details not shown, see structural plans.
3. Clean and paint all metal components.
4. See ARCHITECTURAL DETAILS No. 2 & 3 for additional details.



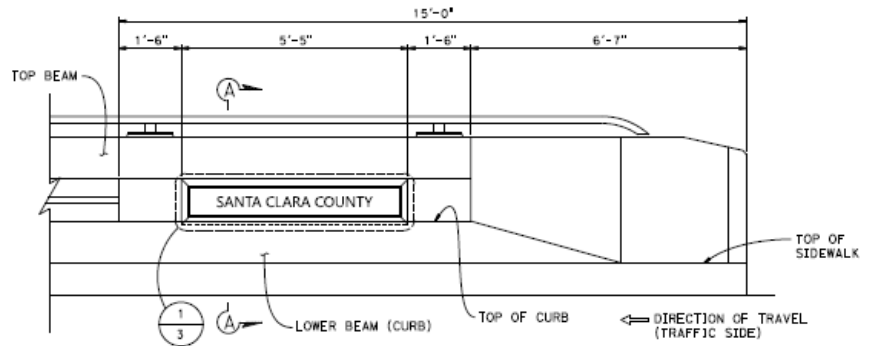
**SECTION A-A**  
NO SCALE



**TOP PLAN** (OTHER BARRIER END SIM.)  
NO SCALE



**TYPE 85SW Mod. BARRIER (NORTH SIDE ELEVATION)**  
NO SCALE



REGION BY: S. HEATH DETAILS BY: S. HEATH QUANTITIES BY: Justin Woods	CHECKED BY: A. ALMAN CHECKED BY: A. ALMAN CHECKED BY: Alexis Guerrero	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES <b>BRIDGE ARCHITECTURE &amp; AESTHETICS</b>	SHEET NO.: 37-0018 POST NOLES: 26.36	<b>SAN FRANCISQUITO CREEK BR (WIDEN)</b> <b>ARCHITECTURAL DETAILS No. 1</b>
DATE PLOTTED: 18-FEB-2023 TIME PLOTTED: 11:29 AM PLOT NO.: 04_17-0018_ARCHITECTURALDETAILS.DWG	ORIGINAL SCALE: 1/8"=1'-0" 1/8"=1'-0"	SHEET NO.: 1 OF 3	PROJECT NUMBER & PHASE: 04180000321	COUNTY/ROUTE: SCL/82 CONTRACT NO.: 04-09SR04	SHEET OF: 17 OF 19



# EXISTING CONDITION AT SAN FRANCISQUITO CREEK BRIDGE OVERCROSSING



# PROPOSED BRIDGE RAILING AT SAN FRANCISQUITO CREEK BRIDGE OVERCROSSING

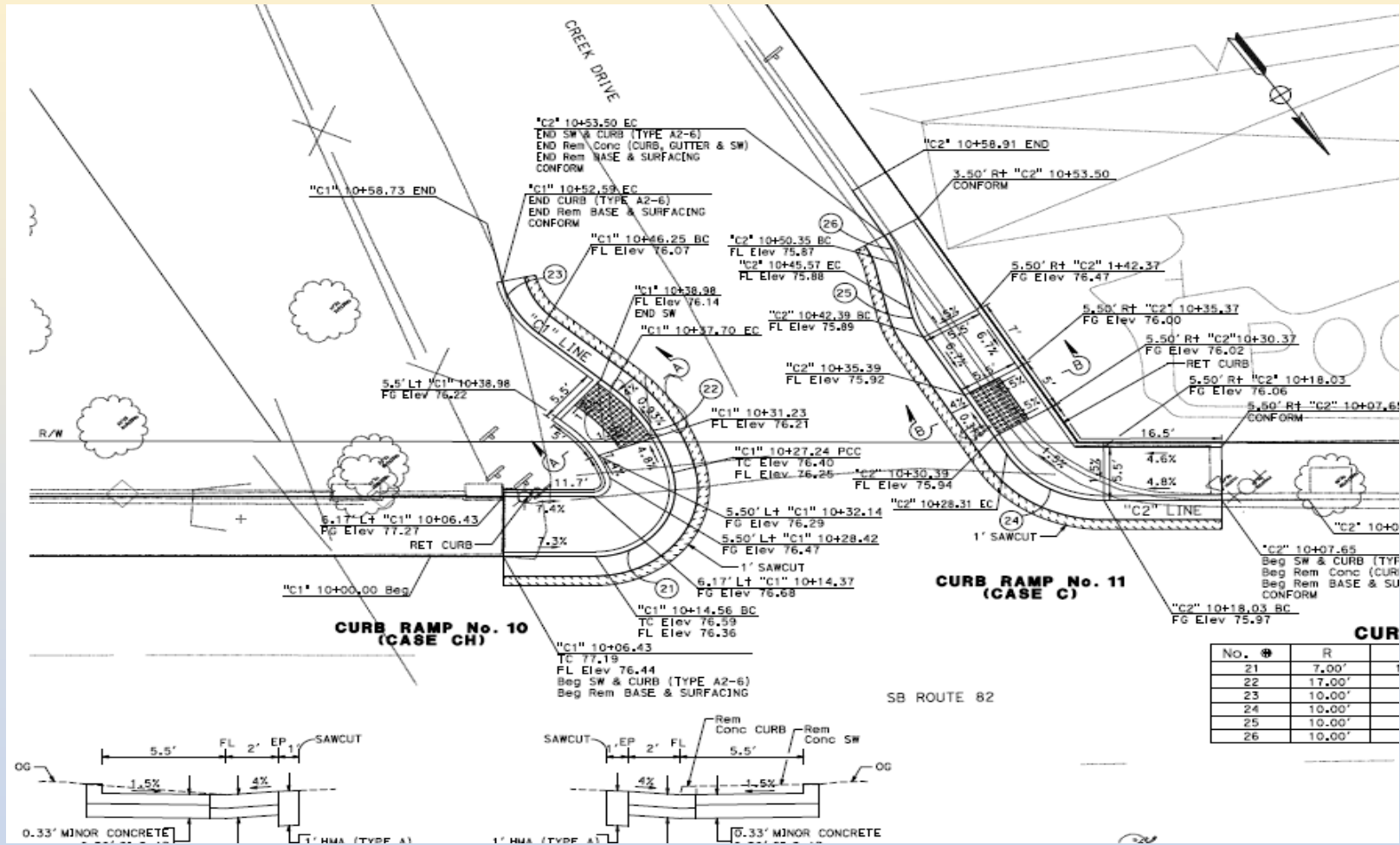




# EXISTING CURB RAMP AT SAN FRANCISQUITO CREEK BRIDGE OVERCROSSING



# CURB RAMP UPGRADE AT FRANCISQUITO CREEK BRIDGE OVERCROSSING



## **D. PROGRAM COST**

- **Total Project Cost: \$9.8M**
- **Number of working days – 250 WDs**

## **E. PROJECT SCHEDULE**

- **PS&E Completion- Summer 2023**
- **Begin Construction- Spring 2024**
- **End Construction- Summer 2025**
- **Duration of work at each location- 2 to 3 months**

# 5. Questions/ Comments?

PABAC March 7, 2023 Meeting  
Attachment 3: Palo Alto Architectural Review Board Staff Report



**ARCHITECTURAL REVIEW BOARD**  
**Regular Meeting**  
**Thursday, February 16, 2023**  
**Council Chambers & Hybrid**  
**8:30 AM**

Pursuant to [AB 361](#) Palo Alto City Council meetings will be held as “hybrid” meetings with the option to attend by teleconference/video conference or in person. To maximize public safety while still maintaining transparency and public access, members of the public can choose to participate from home or attend in person. Information on how the public may observe and participate in the meeting is located at the end of the agenda. Masks are strongly encouraged if attending in person. The meeting will be broadcast on Cable TV Channel 26, live on YouTube <https://www.youtube.com/c/cityofpaloalto>, and streamed to Midpen Media Center <https://midpenmedia.org>. Visit <https://bit.ly/PAPendingprojects> to view project plans and details. Commissioner names, biographies, and archived agendas and reports are available at <https://bit.ly/paloaltoARB>.

**VIRTUAL PARTICIPATION [CLICK HERE TO JOIN](https://cityofpaloalto.zoom.us/j/96561891491) (https://cityofpaloalto.zoom.us/j/96561891491)**  
**Meeting ID: 965 6189 1491 Phone: 1(669)900-6833**

**PUBLIC COMMENTS**

Public comments will be accepted both in person and via Zoom for up to three minutes or an amount of time determined by the Chair. All requests to speak will be taken until 5 minutes after the staff’s presentation. Written public comments can be submitted in advance to [arb@CityofPaloAlto.org](mailto:arb@CityofPaloAlto.org) and will be provided to the Board and available for inspection on the City’s website. Please clearly indicate which agenda item you are referencing in your subject line.

Spokespersons that are representing a group of five or more people who are identified as present at the meeting at the time of the spokesperson's presentation will be allowed up to fifteen (15) minutes at the discretion of the Chair, provided that the non-speaking members agree not to speak individually. The Chair may limit Public Comments to thirty (30) minutes for all combined speakers. The Chair may reduce the allowed time to speak for Study Sessions and Action Items to two (2) minutes or less to accommodate a larger number of speakers.

PowerPoints, videos, or other media to be presented during public comment are accepted only by email to [arb@CityofPaloAlto.org](mailto:arb@CityofPaloAlto.org) at least 24 hours prior to the meeting. Once received, the Clerk will have them shared at public comment for the specified item. To uphold strong cybersecurity management practices, USB’s or other physical electronic storage devices are not accepted.



CITY OF  
**PALO  
ALTO**

## Architectural Review Board Staff Report

**From: Jonathan Lait, Planning and Development Services Director**  
**Lead Department: Planning and Development Services**

**Meeting Date: February 16, 2023**

### TITLE

Review and Adoption of the Revised Architectural Review Board By-Laws to Address Remote/Virtual Meeting Attendance

### RECOMMENDATION

Staff recommends that the Architectural Review Board (ARB) discuss, review, and adopt a revised version of the By-Laws to address allowances for remote meeting attendance.

### PROJECT DESCRIPTION

On November 17, 2022, the ARB discussed modifications to the by-laws to align with state regulations regarding remote meeting attendance. Based on those discussions and to align with recently adopted state laws, staff has drafted a modification to the ARB's By-laws as shown in underline in Attachment A and as further discussed below.

### BACKGROUND

On May 2, 2022, Council directed all commissions and boards to adopt their own remote attendance policy. The current ARB by-laws were last updated in September 2022 to better align with the Council Procedures and Protocol Handbook. The By-laws do not include rules on attendance such as how many meetings a member can miss, nor do they take into account the COVID-19 Pandemic when virtual meeting attendance became necessary.

#### ARB By-laws

The Palo Alto Municipal Code Chapter 2.21 provides content regarding the composition of the board and how often the board may meet (twice monthly). The meeting frequency is also cited in Section 6.9 of Article VI of the ARB By-laws. The ARB By-laws contain three sections in Article VI regarding meetings. The ARB may wish to discuss adding By-laws Section 6.3 to set forth an attendance policy and as reflected in the suggested edits in Attachment A.

#### Attendance Policies of Other Boards/Commissions

On May 2, 2022, Council made a motion to limit Councilmembers' remote attendance for Council Committee Meetings to three times per year. The motion also encouraged boards and commissions to meet in person and asked that they establish a remote attendance policy.

On January 30, 2023, Council adopted revisions to the Council Procedures and Protocol Handbook that allowed for a total of five remote hearings per legislative body (i.e. five for Council and five for each Council Committee). However, the Brown Act requirements, as discussed further below, would also apply. The HRB and PTC have not adopted attendance policies to date. It is not required that all boards and commissions choose to follow the Council's direction.

#### Brown Act Requirements

The Brown Act has long permitted remote attendance through teleconferencing, as long as: 1) the locations of each teleconference participant are provided in notices and agendas, 2) the agenda is posted at each teleconference location, and each location is open to the public, and 3) at least a quorum of the board members participates from locations within the boundaries of the City. The Brown Act does not limit the number of times these procedures can be used.

AB 361 allowed a local government to suspend these teleconference requirements during a statewide emergency, such as the COVID-19 pandemic, by making certain findings. However, when the statewide emergency is formally lifted in March 2023, as currently anticipated, AB 361 exceptions will no longer apply.

Effective January 1, 2023, AB 2449 provides an additional, limited exception to the typical teleconference requirements, which do not rely on the existence of a statewide emergency. A board member may participate remotely, without making their location available to the public, only when there exist a "just cause" or "emergency circumstances" approved by the board, for remote participation, and the reason is disclosed to the public. In addition, a quorum of the board must meet in a single location (i.e. the meeting must be a "hybrid" meeting). The exception under AB 2449 may not be used by a member of the board for more than three consecutive months or more than 20% of the regular meetings in a calendar year (Four (4) total meetings per year for the ARB).

As has always been the case under the Brown Act, if a member of the board wishes to attend virtually without citing one of the "just cause" or "emergency circumstances" identified under the law and follows the necessary standard remote attendance procedures set forth in Attachment A, then they may do so without a limitation on the meetings.

#### **ANALYSIS**

Staff has provided suggested edits to the ARB by-laws in underline in Attachment A. The proposed language aligns with Council's adopted policies for Council and Council committees. It allows for up to five meetings to be attended remotely (more limiting than state law). However, in accordance with the Brown Act, as amended per AB 2449, a boardmember may only attend remotely without following the standard remote attendance procedures and under "just cause" or "emergency circumstances" up to 4 times (20% of the hearings).

Staff's suggested changes to the By-laws align with Council's motion on January 30, 2023. The ARB may choose to allow for more than five meetings to be attended remotely, so long as the proper noticing is completed and the remote attendee's location is made accessible to the public. Only four hearings (20%) and for no more than 3 consecutive months may be attended

remotely without following the standard remote noticing procedures and under “just cause” or “emergency circumstances.”

**ENVIRONMENTAL REVIEW**

This is not considered a project as defined by CEQA and no review is required.

**ATTACHMENTS**

Attachment A: Redlined Copy of the ARB By-Laws

**AUTHOR/TITLE:****ARB Liaison<sup>1</sup> & Contact Information**

Claire Raybould, AICP, Senior Planner

(650) 329-2116

Claire.Raybould@cityofpaloalto.org

Report #: 2301-0905

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<sup>1</sup> Emails may be sent directly to the ARB using the following address: [arb@cityofpaloalto.org](mailto:arb@cityofpaloalto.org)



RULES AND REGULATIONS AND BY-LAWS OF THE  
PALO ALTO ARCHITECTURAL REVIEW BOARD

ARTICLE I

NAME

Section 1.0 The name of this board shall be the PALO ALTO ARCHITECTURAL REVIEW BOARD (ARB)

ARTICLE II

Section 2.0 This board shall perform any duties imposed upon it by Ordinances of the City of Palo Alto and by applicable State and Federal law, or as requested by the City Council of the City of Palo Alto.

ARTICLE III

Officers

Section 3.0 The officers of the Board Shall consist of a Chairperson, a Vice Chairperson, and a Secretary who shall be a non-voting member.

Section 3.1 The offices of Chairperson and Vice Chairperson shall be elected from among the appointed members of the Board, and the person so elected shall serve for a term of one year or until a successor is elected. Elections shall be held at the first meeting in April of each year, which coincides with the first meeting of new Board members.

Section 3.2 The Director of Planning and Development Services of the City of Palo Alto or their designated representative shall be the Secretary of the Board.

Section 3.3 The duties of the offices of the ARB shall be as follows:

Section 3.31 It shall be the duty of the Chairperson to preside over all meeting of the Board, to appoint committees and to serve as an ex-officio member of the committees so appointed, to call special meetings of the Board and to designate the time and place of such meeting, to set the date and time for the public hearing held by the Board, to sign documents and correspondence in the name of the Board, to ensure the Annual Report/Council Work Plan is completed before the end of their term (March 31<sup>st</sup>), and to represent the Board before the City Council, its commissions and committees, and such other groups and organizations as may be appropriate. The Chairperson may designate the Vice Chair, or in the Vice Chairperson's absence, another member of the Board to act in their stead.

- Section 3.32 It shall be the duty of the Vice Chairperson to assist the Chairperson and to act in their stead during their absence.
- Section 3.33 It shall be the duty of the Secretary to keep a record of all meeting of the Board, to accept in the name of the Board documents and correspondence addressed to it, to present such correspondence to the Board, to provide the Board with early notification of pending projects that will require the ARB's review, and perform other staff functions as deemed necessary by the Board. The Secretary will determine the agenda for all public meeting of the Board, based upon an assessment of the applications made to the City requiring architectural review, and based also upon the desirability of hearing such other matters as may be deemed, by the Chairperson or by the Secretary, to be of concern to the Board.

#### ARTICLE IV

##### Committees

- Section 4.0 The Chairperson shall appoint special committees as they be desired or required.

#### ARTICLE V

##### Quorums and Voting

- Section 5.0 Three members of the Board shall constitute a quorum for the purposes of conducting business.
- Section 5.1 All actions taken must be by affirmative vote of majority of those Board members present, except to adjourn or continue for lack of a quorum.

A tie vote constitutes a denial of an item, except that a member of the Board may then move that the item be reconsidered or continued to another meeting. A majority of the Board may then vote to reconsider or continue the item to another meeting

#### ARTICLE VI

##### Meetings

- Section 6.0 Regular meetings of the ARB shall be held not less than twice a month. The Chairperson shall establish the dates of the meetings. Meetings shall be held on Thursday at 8:30 A.M. in the Palo Alto City Hall. Regular meetings may be adjourned and reconvened upon a majority vote of the members present.

Section 6.1 The Chair, Vice Chair and Secretary shall meet ahead of each public hearing to go over the agenda and submit early questions to staff that will be answered at the hearing.

Section 6.2 Special meetings may be called at any time by the Chairperson, or at the request of three members, by a written or oral notice given to each member at least 48 hours before the time specified for the proposed meeting.

Section 6.3 Boardmembers are strongly encouraged to attend meetings in person. State law allows boardmembers to attend meetings remotely by following the procedures outlined in Government Code Section 54953(b) (“Standard Remote Attendance”) or the procedures outlined in Assembly Bill 2449 (2022) (“AB 2449 Remote Attendance”). For convenience, these procedures are described below and are current as of the date of this Bylaw revision. If state law is subsequently amended, the amended terms of State law will apply.

- 1) Number of Remote Appearances Permitted. A boardmember may elect to participate remotely not more than five (5) times in a calendar year, whether following Standard Remote Attendance or AB 2449 Remote Attendance procedures. Note, AB 2449 Remote Attendance may not be utilized for more than four meetings (20%) or more than three consecutive months.
- 2) General Procedures for Appearing Remotely. Boardmembers must follow mandatory procedures set forth in State law. At any meeting where a boardmember is attending remotely, the following requirements must be met:
  - i. The agenda must identify and include an opportunity for the public to attend and directly address all boardmembers through a call-in option, an internet-based service option, and in-person at the location of the meeting.
  - ii. Boardmembers may not take action if there is an unresolved disruption to the meeting broadcast, to a remote boardmember’s audio or visual feed, or to the ability to take call-in or internet-based public comment. If these above threshold requirements are met, the Boardmember attending remotely must ensure they follow the procedures associated with either Standard Remote Attendance or AB 2449 Remote Attendance.
- 3) Standard Remote Attendance Procedures. A boardmember attending remotely using these procedures must ensure that:
  - a. At least a quorum of the Board is participating from locations within the City.
  - b. The meeting agenda identifies the remote attendance location and is posted at that location in an area that is accessible and visible 24 hours a day for at least 72 hours prior to a regular meeting and 24 hours prior to a special meeting.
  - c. The remote attendance location is open and fully accessible to the public, and fully accessible under the Americans with Disabilities Act, throughout the entire meeting. These requirements apply to private residences, hotel

- rooms, and similar facilities, all of which must remain fully open and accessible throughout the meeting, without requiring identification or registration. The Boardmember must state at the beginning of the Board meeting that the posting requirement was met at the location and that the location is publicly accessible and must describe the location.
- d. The remote attendance technology used is open and fully accessible to all members of the public, including those with disabilities.
- e. Members of the public who attend the meeting at the remote attendance location have the same opportunity to address the Board from the remote location that they would if they were present in Council Chambers.
- f. The remote attendance location must not require an admission fee or any payment for attendance.
- g. Advanced written notice a minimum of 12 days ahead of the public hearing must be given by the Boardmember to the Secretary of the Board about their intent to participate remotely; the notice must include the address at which the remote attendance will occur, and the address the ARB packet should be mailed to, if a hard copy is requested.
- h. The Boardmember is responsible for posting the ARB agenda in the remote location, or having the agenda posted by somebody at the location and confirming that posting has occurred. The Secretary of the Board will assist, if necessary, by emailing, faxing or mailing the agenda to whatever address or fax number the Boardmember requests; however, it is the Boardmember's responsibility to ensure that the agenda arrives and is posted. If the Boardmember will need the assistance of the Secretary of the Board in delivery of the agenda, the fax number or address must be included in the 12 day advance written notice above.

If the Boardmember intending to follow the procedures of Standard Remote Attendance determines that any or all of the preceding requirements cannot be met, he or she shall not participate in the meeting remotely using Standard Remote Attendance procedures.

#### 4) AB 2449 Remote Attendance Procedures.

A Boardmember attending remotely using these procedures must ensure that:

- a. At least a quorum of the Board is participating in person from a singular physical location clearly identified on the agenda and open to the public.
- b. The Boardmember has either "just cause" or "emergency circumstances" that require remote participation, as required by AB 2449.
- i. "Just cause" is defined as:
- a childcare or caregiving need of a child, parent, grandparent, grandchild, sibling, spouse, or domestic partner that requires remote attendance,
  - a contagious illness that prevents in-person attendance,
  - a need related to a physical or mental disability which cannot be resolved by a request for reason

- travel while on the business of a state or local agency.
- ii. “Emergency circumstances” is defined as:
- a physical or family medical emergency that prevents a Boardmember from attending the Architectural Review Board meeting in person.
- c. Notice. A Boardmember that is attending remotely due to “just cause” or “emergency circumstances” must notify the Chair and the Secretary of the Board at the earliest possible opportunity, including at the start of the meeting, of their need to participate remotely and provide a general description of the circumstances. The Boardmember is not required to disclose any personal medical information.
- d. Acceptance. At the earliest opportunity available to it, the Board, by a majority vote of its members, take action on the request to approve or disapprove it. If the request does not allow sufficient time to place it on the agenda for the meeting for which the request is made, the legislative body must take action on the request at the beginning of the meeting by majority vote.
- e. Disclosures. Boardmembers attending remotely must publicly disclose at the meeting before any action is taken whether any other individuals 18 years of age or older are present in the room at the remote location with the member and the general nature of the member’s relationship with the individual.
- f. Technology. All technology necessary for the Boardmember and for the public to attend remotely must function at all times, which must include two-way, live audio and visual communication.

If the Boardmember determines that any or all of these requirements cannot be met, he or she shall not participate in the meeting remotely using AB 2449 Remote Attendance procedures.

## ARTICLE VII

### Rules

Section 7.0 All meetings of the Board shall be conducted in accordance with a modified Robert’s Rules of Order.

## ARTICLE VIII

### Design Awards

Section 8.0 Design Awards for outstanding built projects may be awarded every five years beginning in 2005. Award-winning projects shall be selected from those reviewed by the ARB, and completed since the last awards were made.

- Section 8.1 Criteria and number of awards shall be determined by the awarding board.
- Section 8.2 Winning projects may be displayed in the City Hall lobby for one month following the presentation of awards. The ARB shall request that the Mayor of the City of Palo Alto issue an appropriate proclamation.

THE FOREGOING BY-LAWS WERE ADOPTED BY A MAJORITY VOTE OF THE PALO ALTO ARCHITECTURAL REVIEW BOARD THE 28TH DAY OF JUNE, 1973.

Amended: July 3, 1974  
May 19, 1977  
August 4, 2005  
February 5, 2015  
September 15, 2022  
February 16, 2023

# Options for PABAC members to participate in PABAC meetings virtually

1. Long-standing rules under the Brown Act
2. New rules as of 2023: “Just Cause” and “Emergency Circumstances”

# Long-standing rules under the Brown Act

- The Brown Act has long permitted remote attendance through teleconferencing, as long as:
  - 1) the locations of each teleconference participant are provided in notices and agendas,
  - 2) the agenda is posted at each teleconference location, and each location is open to the public, and
  - 3) at least a quorum of Committee members participates from locations within the boundaries of the City (which PABAC plans to do)
- The Brown Act does not limit the number of times these procedures can be used



# New rules as of 2023

- Starting in January 2023, additional limited exceptions to the typical teleconference requirements shown on the previous slide
  - A member may participate remotely, *without* making their location available to the public, only when there is a “just cause” or “emergency circumstance”
  - Must be approved by the Committee
  - The reason must be disclosed to the public
  - A quorum of the board must meet in a single location (which PABAC is planning on doing)
  - These exceptions do not rely on a statewide emergency ordinance
- May not be used more than 3 consecutive months or more than 20% of regular meetings in a calendar year (2 total meetings per year for PABAC)



# Virtual Attendance at Brown Act Meetings

March 2023

[www.cityofpaloalto.org](http://www.cityofpaloalto.org)

# End of the State of Emergency

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- California's State of Emergency related to COVID-19 ended on February 28, 2023
- Under the COVID State of Emergency, the Brown Act allowed remote attendance with fewer requirements than pre-COVID
- Going forward, in-person attendance is the default rule
- Use of remote attendance will be more limited compared to during the State of Emergency

# REMOTE ATTENDANCE - OVERVIEW

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- Once the COVID-19 State of Emergency ends (March 1), there will be two ways to attend a meeting remotely under the Brown Act:
  1. Standard Remote Attendance
  2. AB 2449 Remote Attendance (“Just Cause” and “Emergency Circumstances”)

# STANDARD REMOTE ATTENDANCE

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- In general, if a BCC member wishes to attend a public meeting remotely starting March 1, 2023, they must ensure that:
  - That meeting's agenda identifies the remote location,
  - The meeting agenda is posted at the remote location 24h/day for 72 hours prior to the meeting,
  - The remote location is open, free to enter without ID, and fully accessible to the public,
  - Members of the public who attend the meeting at the remote location can address the entire body,
  - And more.
- You must begin working with your Staff Liaison on this at least five days before the agenda is published for that meeting.

# STANDARD REMOTE ATTENDANCE



## City Council

**Monday, March 2, 2020**

Regular Meeting  
Council Chambers

**6:00 PM**

**REVISED**



Vice Mayor DuBois will participate from the business office of the Courtyard Secaucus Marriott 455 Harmon Meadow Blvd., Secaucus, NJ, 07094

*Agenda posted according to PAMC Section 2.04.070. Supporting materials are available in the Council Chambers on the Thursday 11 days preceding the meeting.*

**PUBLIC COMMENT**

Members of the public may speak to agendized items; up to three minutes per speaker, to be determined by the presiding officer. If you wish to address the Council on any issue that is on this agenda, please complete a speaker request card located on the table at the entrance to the Council Chambers, and deliver it to the City Clerk prior to discussion of the item. You are not required to give your name on the speaker card in order to speak to the Council, but it is very helpful. Public comment may be addressed to the full City Council via email at [City.Council@cityofpaloalto.org](mailto:City.Council@cityofpaloalto.org).

**TIME ESTIMATES**

Time estimates are provided as part of the Council's effort to manage its time at Council meetings. **Listed times are estimates only and are subject to change at any time, including while the meeting is in progress.** The Council reserves the right to use more or less time on any item, to change the order of items and/or to continue items to another meeting. Particular items may be heard before or after the time estimated on the

## AB 2449 REMOTE ATTENDANCE – NEW

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- AB 2449 only applies in the following two circumstances:
  - When a BCC member has “**just cause**” to attend remotely, which is defined as:
    - A caregiving need of a family member,
    - A contagious illness,
    - An unaccommodated disability-related need, or
    - Travel while on business of a state or local agency.
  - When a physical or family medical emergency (“**emergency circumstances**”) prevents the BCC member from attending in person.
- AB 2449 allows attendance without making the remote location open to the public
- Limits apply – only two meetings per calendar year

## AB 2449 REMOTE ATTENDANCE - Process

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- To attend remotely for “**just cause**,” a BCC member must:
  - Notify the BCC at the earliest opportunity of the need for remote participation and
  - Provide a general description of the circumstances justifying remote participation.
- No commission “action” required



## AB 2449 REMOTE ATTENDANCE - Process

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- To attend remotely due to “**emergency circumstances,**” a BCC member must:
  - Make a request to the body to allow the member to meet remotely due to an emergency circumstance as soon as possible,
  - Provide a general description of the circumstance, and
  - Receive approval via a BCC action at the start of the meeting.
- BCC approval action required
  - If time allows, this should be agendized as a proposed action item.
  - Otherwise, this must be done at the start of the meeting.

# AB 2449 REMOTE ATTENDANCE - Compared

	Just Cause	Emergency Circumstances
When	(A) A childcare or caregiving (B) A contagious illness (C) A need related to certain physical or mental disability (D) Travel while on official business of the legislative body or another state or local agency.	A physical or family medical emergency that prevents a member from attending in person
Commissioner process	Commissioner gives <i>notice</i> , up to the start of the meeting	Commissioner makes <i>request</i> , up to the start of the meeting.
Commission process	Receive notice	Commission must <u>ask</u> for general description (20 words) and take <u>action</u> (vote) to approve remote attendance
Result	Can participate. Public participation not required at remote site.	

## ADDITIONAL AB 2449 REQUIREMENTS

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- **In person quorum:** At least a quorum of BCC members must attend from a singular, in-person location.
- **Disclosures:** Before any action is taken during the meeting, the remote BCC member must disclose whether any other individuals 18 years or older are present in the room with the member, and the general nature of the member's relationship with such persons.
- **Video:** A member of the legislative body participating from a remote location *must* participate through *both* audio and visual technology. No action can be taken if not working.

## ADDITIONAL AB 2449 REQUIREMENTS

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- The BCC must indicate on the agenda how the public may access the meeting and offer comment.
- The agenda must identify and include an opportunity for all persons to attend via a call-in option, an internet-based service option, and at the in-person location of the meeting.
- The BCC cannot require public comments to be submitted in advance of the meeting; comments must be accepted in real-time.
- **If broadcasting is disrupted, no further action may be taken until access is restored.**

## AB 2449 REMOTE ATTENDANCE – LIMITS

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- A BCC member may not use AB 2449 Remote Attendance to attend more than 20% of their body's regular meetings remotely, or more than 2 meetings if the body meets less than 10 times per calendar year.
  - For bodies that have  $\leq 14$  **regular** meetings in a calendar year, AB 2449 Remote Attendance is available **only twice per calendar year**.

## AB 2449 EXAMPLE SCRIPT – Emergency

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- “Due to emergency circumstances, I request to attend this meeting remotely under AB 2449. I have not attended a meeting remotely due to just cause or emergency circumstances more than [once] this calendar year. I will participate with both audio and video turned on throughout the meeting, and specifically whenever action is taken. The [PHYSICAL OR FAMILY] medical emergency I am facing requires my remote attendance because [BRIEF DESCRIPTION: 20 words, exact diagnosis not required].”
- “In this room, I am accompanied by...
  - “...no one over the age of 18.”
  - “...one or more individuals over the age of 18. They are my [RELATION (e.g., spouse, coworker, medical provider)].”

## REMOTE ATTENDANCE – FIRST STEPS

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- Inform your staff liaison as soon as you know that you will need to attend a meeting remotely.
- Consult with your BCC's remote attendance policy and confirm with your staff liaison that you are eligible for the type of remote attendance you would like to use.
- Commission will have to keep track of remote attendance usage under AB 2449.



CITY OF  
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ALTO**

**QUESTIONS?**

[www.cityofpaloalto.org](http://www.cityofpaloalto.org)



# CITY/SCHOOL TRANSPORTATION SAFETY COMMITTEE

## Minutes

Thursday, January 26, 2023

10:00 a.m.

Zoom Virtual Meeting from Palo Alto, California

Present: Sylvia Star-Lack (staff), Rose Mesterhazy (staff), Jose Palma (staff), Claire Raybould (staff), Ben Becchetti (PAPD staff), Eric Holm (PAUSD), Rudy Esquivias (PAUSD Sustainability Program Technician-), Arnout Boelens (PTAC, Greendell TSR), Greg Brail (Paly TSR), Joslyn Leve (PTAC), Stephanie Seale (Addison TSR), Audrey Gold (Gunn TSR), Rachael Panizzo (Fairmeadow TSR), Juan Caviglia (Duvneck TSR), Tom Whitnah (Duvneck TSR), Rachel Croft (Escondido TSR), Rich Marty (Walter Hays TSR), Jessica Asay (Barron Park TSR), Disha Chopra (Fletcher TSR), Matt Oneill (Ohlone TSR), Jess McClellan (Palo Verde TSR)

Guests: Janice Soriano-Ramos (VTA), Arthur Liberman (PABAC), Jackie Campos (SRTS, City of Redwood), Rdem Ro (Guest), Rob Tersini (Guest)

The meeting was called to order at 10:02 a.m.

### 1. Welcome/Introductions/Recognitions/Oral Communications

- a. Recognition
- b. Oral Communications

Rose Mesterhazy opened the meeting and recognized volunteers for the Safe Routes to School (SRTS) table at the Lunar New Year Festival. She recognized PAUSD staff and introduced Rudy Esquivias as the new PAUSD Sustainability Coordinator. She thanked Mr. Esquivias, Audrey Gold, Joslyn Leve, and Arnout Boelens for supporting reinstating the role. She also thanked the school district and recognized parent volunteers for the Gunn Pedaling for Prizes Event.

Ms. Mesterhazy announced the open registration of the Middle School Bike Skills camp through the Enjoy! camps catalog

Mr. Boelens discussed the Safe Streets for Palo Alto initiative to get the city to adopt road safety policy ([editorial on road safety policy link](#)) for all road users. He called for staff to present signatures and letters of support for this initiative to the new City Council during public comments and to address individual Council Members. He urged staff to attend City Council meetings.

Ms. Mesterhazy announced on-demand transit beginning March 2023, which is a pilot program to replace defunct shuttle routes. Sylvia Star-Lack shared plans for the shared-ride service to have an app and a call center for scheduling rides. The program will have limited schedule availability but will run 8:00 AM to 6:00 PM from between Monday and Friday ([news article on on-demand shuttle service](#)).

### 2. Administrative

- a. New California Legislation ([2023 California New Biking and Pedestrian Laws link](#))
- b. PTAC \$300 Funding Deadline
- c. Spring Walk and Roll Event Updates/Plans
- d. Upcoming Meetings
  - i. City/School Liaison Committee (8:30 AM to 10:00 AM - March 16, 2023)
  - ii. City Council Annual Report/Update (5:00 PM to 8:00 PM - May 1, 2023)
  - iii. Post-City Council Meeting In-Person Celebration (May 1, 2023)

Ms. Mesterhazy announced several new California bike and pedestrian laws ([2023 California New Biking and Pedestrian Laws link](#)). On multi-lane roads, drivers are now required to completely change lanes before passing a bicyclist. Bicycle registration may be offered by cities but is no longer required. E-bikes and electric coasting devices are allowed on non-Open Space park trails, unless specifically indicated otherwise. Jaywalking behavior can no longer be ticketed according to the specific guidance linked to above.

Ms. Gold proposed the Palo Alto Council of PTAs (PTAC) funding be used to buy 10 logoed safety vests to promote Safe Routes to School. Ms. Mesterhazy called for PTA members to contribute additional ideas. Seeing none, Ms. Gold requested immediate approval for the safety vests. Ms. Mesterhazy asked the Traffic Safety Representatives (TSRs) to vote. Those in favor of the vests were Tom Whitnah, Jessica Asay, Greg Brail, Disha Chopra, and Arnout Boelens. The committee decided to move forward with using the PTAC funding for the vests. Mr. Boelens introduced the upcoming Spring Walk and Roll event and urged TSR members to begin planning and coordinating for the event. Ms. Mesterhazy suggested hosting a Walk and Roll parade and handing out bike lights in return for pledges to walk or ride. Mr. Boelens recommended e-news profiles of families to encourage engagement. Jose Palma suggested discussing detailed bike routes to share with parents and community members. Mr. Boelens asked TSRs to have plans prepared by the next meeting.

Mr. Boelens announced the upcoming City/School Liaison Committee and the City Council Annual Report in which Safe Routes presents their progress for the year. He urged members to attend and to thank the City and District. Ms. Mesterhazy asked him to send invites to the TSRs.

### **3. Engineering/Planning**

- a. VTA: Visionary Transit Network Presentation by VTA Staff ([Valley Transportation Plan 2050 link](#))
- b. City
  - i. 340 Portage: Bikeway Enhancement Presentation by Planning Staff
  - ii. BPTP Current Status
  - iii. South Palo Alto Bikeways (VERBS/OBAG/ATP) Grant Update
  - iv. Caltrans El Camino Real Repaving Project Response to Resident Comments ([Caltrans comment responses link](#))
  - v. Embarcadero Auto Dealership Multi-Use Path Approval
- c. PAUSD
  - i. Bike Rack Update
  - ii. Measure Z Update (JLS, Hoover/Greendell, Escondido)

#### 3.a. VTA: Visionary Transit Network

Mr. Palma encouraged committee members to learn more about Palo Alto transit ([Palo Alto Shuttle Discontinued link](#)) and to provide feedback to the Valley Transportation Authority (VTA) ([VTA Visionary Network link](#)) regarding school tripper and bus stops.

Janice Soriano-Ramos introduced the VTA and its many roles and services. She overviewed the Valley Transportation Plan for 2050 ([Valley Transportation Plan 2050 link](#)), a long-term plan that focuses on all modes of transportation. The Visionary Transit Network ([VTA Visionary Network link](#)) is part of this plan and defines the aspirational transit service for Santa Clara County, including routes, timing, bus frequency, and amenities. Ms. Soriano-Ramos discussed the timeline for developing and adopting this program. She encouraged committee members to complete the online survey by February 10, 2023 and to consider how to improve transit utilization. Mr. Boelens asked about cuts to transit schedules, reduced services, and inadequate funding. In response, Ms. Soriano-Ramos described the Visionary Transit Network as a tool to advocate for

more funding.

### 3.b.i. 340 Portage

Claire Raybould, a senior planner of Palo Alto's Planning Division, described a proposed development at 340 Portage Avenue (3200 Park Boulevard). She detailed the development agreement, which includes dedicated City parking, affordable housing, a park, demolition of the cannery building, townhome development, retail space, and research and development use. The project's environmental impact report revealed an inconsistency with an adopted plan. The project will require an enhanced bikeway connecting Park Boulevard and Portage Avenue. The North Ventura Coordinated Area Plan (NVCAP) covers this area and should soon be drafted and presented. The NVCAP will have an enhanced bikeway connection to be consistent with the other plans. The project proposes a separated two-way bike pathway, with landscaping or other separation between the road and bike path. The current project allows four feet in each direction, but it may be updated to five feet for consistency with the Bicycle and Pedestrian Transportation Plan.

Mr. Boelens asked about the safety of the bidirectional path at connection points. In response, Ms. Raybould suggested speed tables and a Class IV bicycle connection on the south side of Portage Avenue. Jessica Asay asked about students safely crossing El Camino Real. Ms. Raybould shared that safe connections are still being explored.

### 3.b.iii. South Palo Alto Bikeways (VERBS/OBAG/ATP) Grant Update

Ms. Star-Lack updated the committee on the South Palo Alto Bikeways grant applications, which were not awarded. She assured members she is still looking for funds and has requested the scoring sheets to improve future grant requests. She described changes the county, cities, and VTA made to the grants to distribute the funds beyond San Jose, which may have affected Palo Alto's selection for funding.

### 3.b.iv. Caltrans El Camino Real Repaving Project Response to Resident Comments

Ms. Star-Lack announced the coming El Camino Real repaving, which will allow them to upgrade crosswalks, stop bars, bike stencils, lanes, signage, and ADA wheelchair ramps. The committee asked Caltrans for a wider curb lane on El Camino Real. Caltrans has responded to public comments, including those by the Pedestrian and Bicycle Advisory Committee members ([link to Caltrans comments](#)), and appears to want to accommodate these recommendations.

### 3.b.ii. BPTP Current Status

The Bicycle and Pedestrian Transportation Plan (BPTP) was addressed out of order to accommodate scheduling conflicts. Mr. Palma shared updates on the BPTP status. The City received several proposals and will interview finalists in February 2023. The BPTP will identify priority bicycle and pedestrian projects based on community feedback and will form the basis for SRTS networks. Mr. Palma urged members to sign up for updates ([Palo Alto updates sign up link](#)) and to look for future outreach events.

### 3.b.v. Embarcadero Auto Dealership Multi-Use Path Approval

Mr. Palma announced the approved development of the Embarcadero auto dealership ([approved dealership article link](#)) which will allow improved connections for Voluntary Transfer Program (VTP) students from East Palo Alto. He urged members to give input on those connections once the BPTP is established.

### 3.c.i. Bike Rack Update

The bike rack update was presented after the collision report. Eric Holm shared the list of schools that requested new bike racks: Escondido, El Carmelo, Fairmeadow, Hays, Hoover, Ohlone, and Nixon. He called for other elementary sites to immediately enter their requests. Mr. Holm shared that El Carmelo is getting bike racks along with 12 new parking spots. Escondido’s project includes 100 parking spots, and the contractor is ordering bike racks at the start of the project.

3.c.ii. Measure Z Update (JLS, Hoover/Greendell, Escondido)

Mr. Holm updated the Committee on upcoming and ongoing school construction projects. JLS phase 1 construction will go from May 2023 to July 2024 and should not impact student drop off, despite the school’s changes to drop off procedures. Phase 2 will go from June 2024 to June 2025.

Mr. Holm shared that the Palo Verde students at Greendell will move back to their Palo Verde campus during the summer, and Hoover students will then move to the Greendell campus. Revised bike maps for the Hoover community to Greendell are pending. The Hoover campus rebuild will likely not begin until February or March 2024. A prefabricated off-site, component-based system should reduce the build time. He expects the construction to take 14 months. Ms. Gold offered to email Mr. Holm regarding the chain link fence that crowds the Waverly bike path. Mr. Holm asserted that he cannot make unilateral decisions regarding school bond funding nor can he accept every request. He then assured her that the construction plans include widening the bike lane, removing the fence, installing a curb, and repaving the bike path along the Hoover Elementary frontage.

Rachael Panizzo mentioned a lack of parking and space for student drop offs along East Meadow Drive and suggested the committee makes a safer recommendation for student drop offs. Mr. Holm reiterated that construction has not yet begun and that the drop off location should not yet need to be changed. Ms. Mesterhazy suggested they join in discussions with the school principal regarding student drop off.

Mr. Holm shared that construction has eliminated parking at Escondido and teachers are having to park elsewhere. He urged the committee to encourage people to bike to school. Ms. Gold mentioned dangerous crossing behaviors on Stanford Avenue and suggested increasing enforcement, to which Ms. Mesterhazy suggested e-news messaging for the school community. He theorized that reduced parking and inclement weather may be adding to the difficult and unsafe student drop off situations.

Rachael Croft called attention to a lack of communication regarding construction updates and suggested the City should address the drop off problems. Eric agreed to talk to Principal Marcella regarding the issue.

**4. Engagement**

- a. Collision Updates
- b. Crossing Guard Updates and Process

Ben Becchetti announced the status of the crossing guard contract review, which is still ongoing due to construction preventing location readings.

December had 44 total collisions, two involving adult pedestrians. One collision was a hit and run. There were four bike collisions, one of which was a hit and run during a crime. All injuries were minor except one during the hit and run.

January had 33 total collisions. Two were pedestrians versus vehicles involving adults, and there were two bicycle collisions, one of which involved a juvenile.

Mr. Becchetti announced the addition of a motorcycle sergeant dedicated to traffic. Rachel Croft asked about juvenile collisions and their causes. Mr. Becchetti replied that there was only one in January at the Mayview and Ross intersection (possibly unsafe speed) and one in December at Waverly and Loma Verde (undetermined cause). He insisted that when responding to collisions, officers immediately address contributing issues, such as trees obstructing views.

## **5. Education**

Ms. Mesterhazy decided to turn the remainder of the presentation into an e-news update.

### **Additional Questions**

Mr. Palma asked about construction and if the plans included access points for faculty bicyclists leading to a separated bike rack. Mr. Holm shared that the front parking lot will contain more bike parking for staff and community members, including a few inverted-U spaces for cargo bikes. Ms. Croft asked about the Black History Month Celebration Ride and opportunities to increase involvement and build awareness. Ms. Mesterhazy responded that Duveneck, Escondido, and El Carmelo are involved. The bike tour involves riding around Palo Alto to historically significant locations related to Black History. Ms. Mesterhazy suggested localizing the routes this year to improve accessibility to younger riders. She also suggested keeping the activity smaller and inviting schools to participate instead of creating a district-wide event. She invited Ms. Croft to join planning.

The meeting adjourned at 11:45 p.m.

## Public Comments for City of Palo Alto Bicycle/Pedestrian Plan Update

This Packet Includes:

A compilation of written comments on the City of Palo Alto Bicycle/Pedestrian Plan Update submitted by email to [Transportation@CityofPaloAlto.org](mailto:Transportation@CityofPaloAlto.org).

**NOTE: No public comments received for this meeting packet**





## Public Comment Instructions For City of Palo Alto Bicycle/Pedestrian Plan Update

Members of the Public may provide public comments on the City of Palo Alto Bicycle/Pedestrian Plan Update as follows:

1. **Written public comments** (including visuals such as presentations, photos, etc) may be submitted by email to [Transportation@CityofPaloAlto.org](mailto:Transportation@CityofPaloAlto.org). Please follow these instructions:
  - A. Please email your written comments **by 12:00 pm (noon) on the Monday the week before (eight days before)** the upcoming Palo Alto Pedestrian and Bicycle Advisory Committee (PABAC) meeting, unless otherwise indicated. Details of upcoming PABAC meetings are available on the City's [PABAC webpage](#).
    - Written public comments will be attached to the upcoming PABAC meeting agenda packet.
    - Written comments submitted after 12:00pm (noon) on the Monday before the upcoming PABAC meeting will be attached to the following PABAC meeting agenda packet.
  - B. Please **lead your email subject line with "BPTP Update"**.
  - C. When providing comments with reference to the current [City of Palo Alto Bicycle/Pedestrian Plan 2012](#), please be as specific as possible by indicating the chapter number, section heading number, and/or page number.
2. **Spoken public comments using a computer** will be accepted through the teleconference meeting. To address the Committee, click on the URL in the agenda packet for Zoom. Please follow these instructions:
  - A. You may download the Zoom client or connect to the meeting in-browser.
    - If using your browser, make sure you are using a current, up-to-date browser: Chrome 30+, Firefox 27+, Microsoft Edge 12+, Safari 7+. Certain functionality may be disabled in older browsers including Internet Explorer.
  - B. You may be asked to enter an email address and name. We request (but do not require) that you identify yourself by name as this will be visible online and will be used to notify you that it is your turn to speak.
  - C. When you wish to speak, click on "raise hand." Staff will activate and unmute speakers in turn. Speakers will be notified shortly before they are called to speak.
  - D. When called, please limit your remarks to the time limit allotted by the Chair.



3. **Spoken public comments using a smart phone app** will be accepted through the teleconference meeting. To address the Committee, download the Zoom application onto your smart phone from the Apple App Store or Google Play Store and enter the Meeting ID in the agenda. Please follow the instructions B-D above.
  
4. **Spoken public comments using a phone (cell or land line) without an app** will be accepted through the teleconference meeting. Use the telephone number listed in the agenda. When you wish to speak, press \*9 on your phone to “raise hand.” You will be asked to provide your first and last name before addressing the Committee. When called, press \*6 on your phone to unmute. Please limit your remarks to the time limit allotted by the Chair.