

**STATE OF CALIFORNIA**  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY AND CITY STREETS**  
**IN SAN MATEO COUNTY**  
**IN EAST PALO ALTO**  
**FROM 0.2 MILE NORTH TO 0.1 MILE SOUTH**  
**OF UNIVERSITY AVENUE OVERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2018

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	1	136

LOCATION MAP

**INDEX OF PLANS**  
SHEET No.      DESCRIPTION

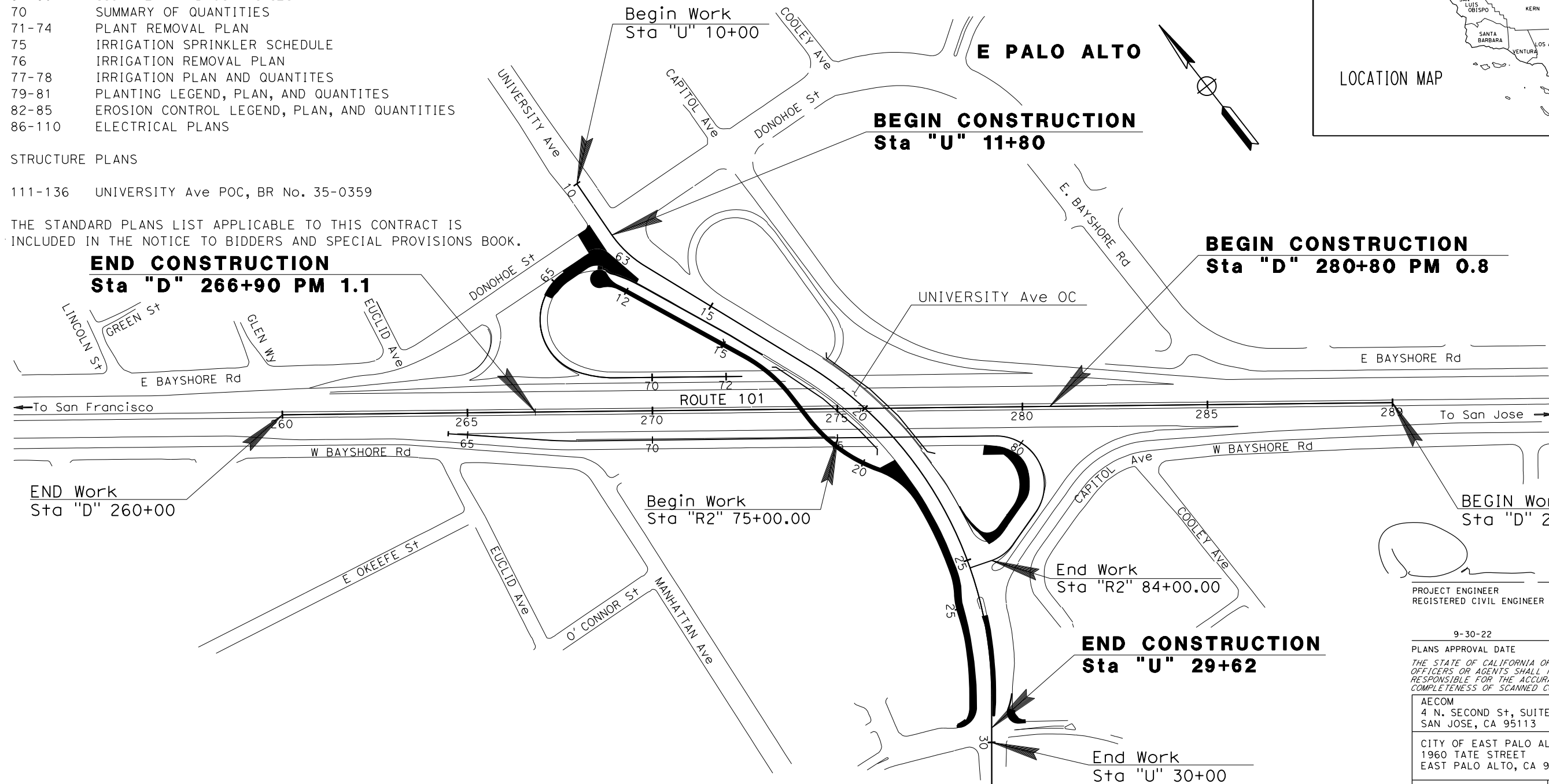
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- 2      TYPICAL CROSS SECTIONS
- 3      KEY MAP AND LINE INDEX
- 4      PROJECT CONTROL
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**STRUCTURE PLANS**

111-136    UNIVERSITY Ave POC, BR No. 35-0359

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

**END CONSTRUCTION**  
**Sta "D" 266+90 PM 1.1**



8-9-22  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA

DANIEL HO

No. 50914  
Exp. 9-30-23  
CIVIL

9-30-22  
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.

AECOM 4 N. SECOND St, SUITE 675 SAN JOSE, CA 95113	
CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303	
CONTRACT No.	04-272821
PROJECT ID	04000007591

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
*Caltrans*  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: JOSE CORONEL  
 CHECKED BY: DANIEL HO  
 REVISED BY: JOSE CORONEL  
 DATE REVISED: 9-15-22  
 JC  
 9-15-22

**NOTES:**

- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATIONS ARE SHOWN ON THE SUPERELEVATION DIGRAM.

**ROUTE 101/UNIVERSITY Ave PEDESTRIAN OVER CROSSING DESIGN DESIGNATION**

AADT (2020)	36,770	D	0.67%
AADT (2040)	38,820	T	4.23%
DHV	3890	V	25 mph
ESAL <sub>20</sub>	5,411,429		
	TI <sub>20</sub> (RAMPS)	10.0	

- LEGEND:**
- PROPOSED PAVEMENT
  - STRUCTURAL SECTION NUMBER

**TYPICAL PAVEMENT STRUCTURE SECTIONS:**

- 1 1.15' HMA (TYPE A)  
0.35' CI 2 AB
- 2 0.5' HMA (TYPE A)  
0.5' CI 2 AB

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	2	136

REGISTERED CIVIL ENGINEER: DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

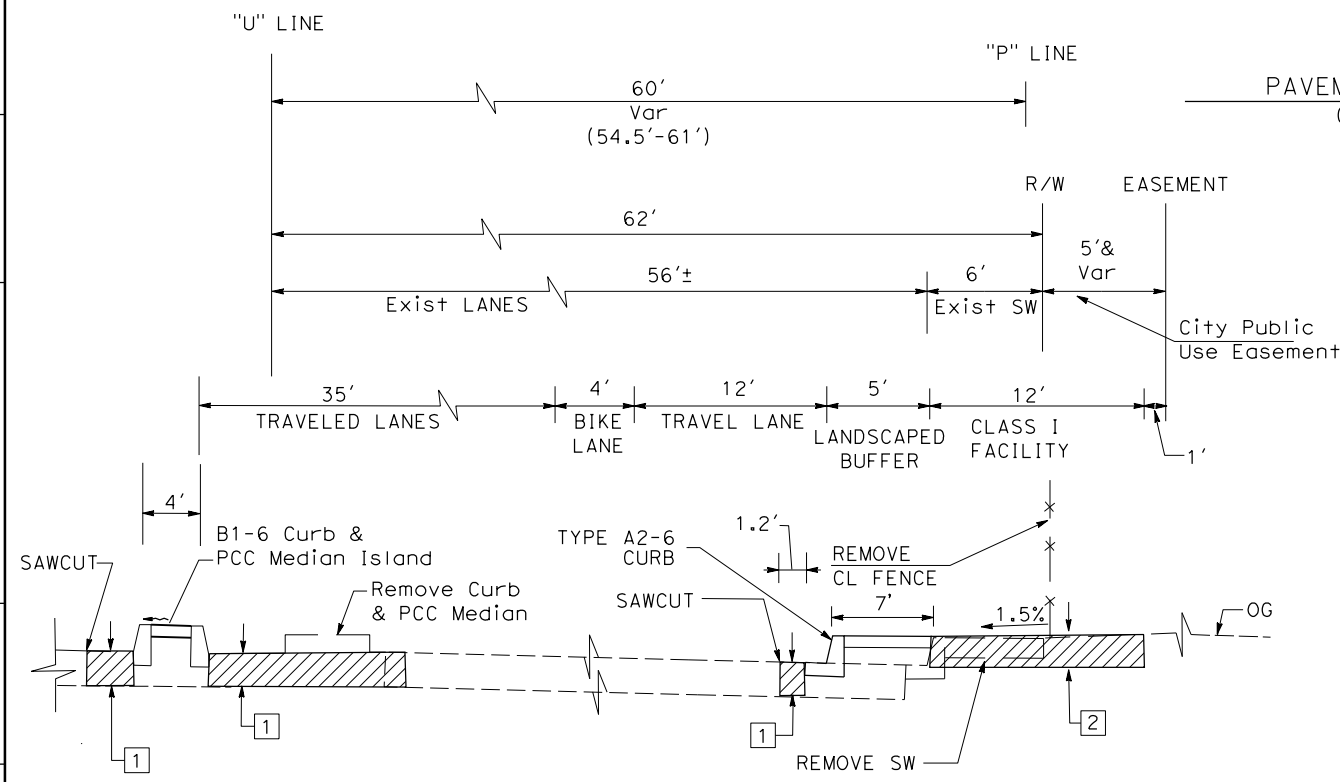
9-15-22  
 DATE

9-30-22  
 PLANS APPROVAL DATE

AECOM  
 4 N. SECOND St  
 SUITE 675  
 SAN JOSE, CA 95113

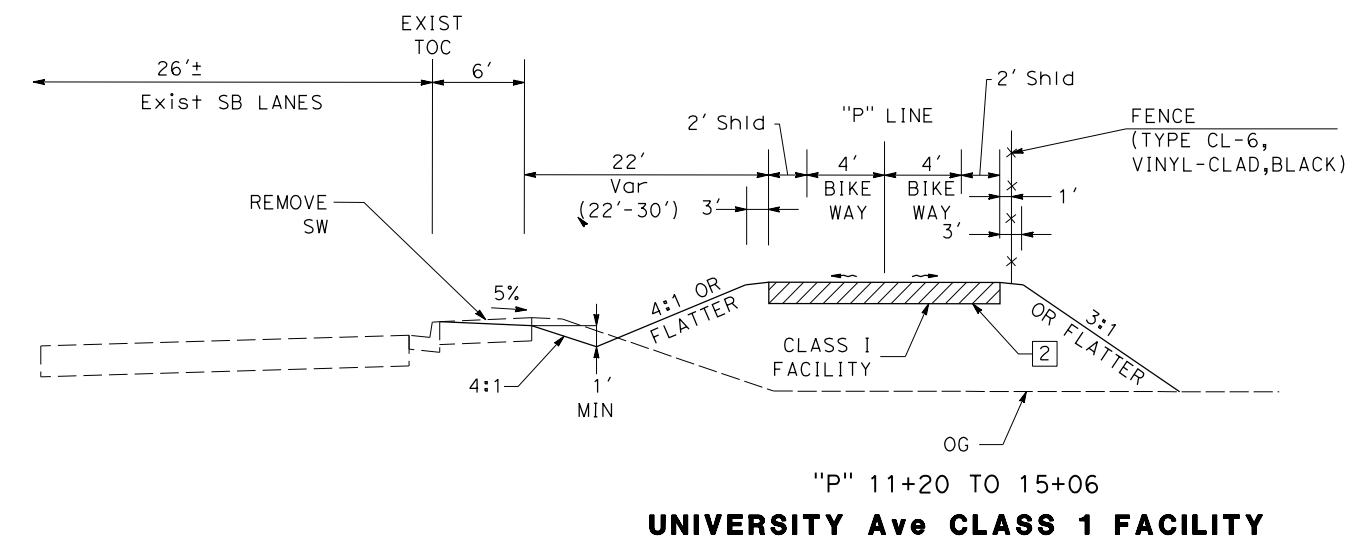
CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

PAVEMENT CLIMATE REGION  
 CENTRAL COAST

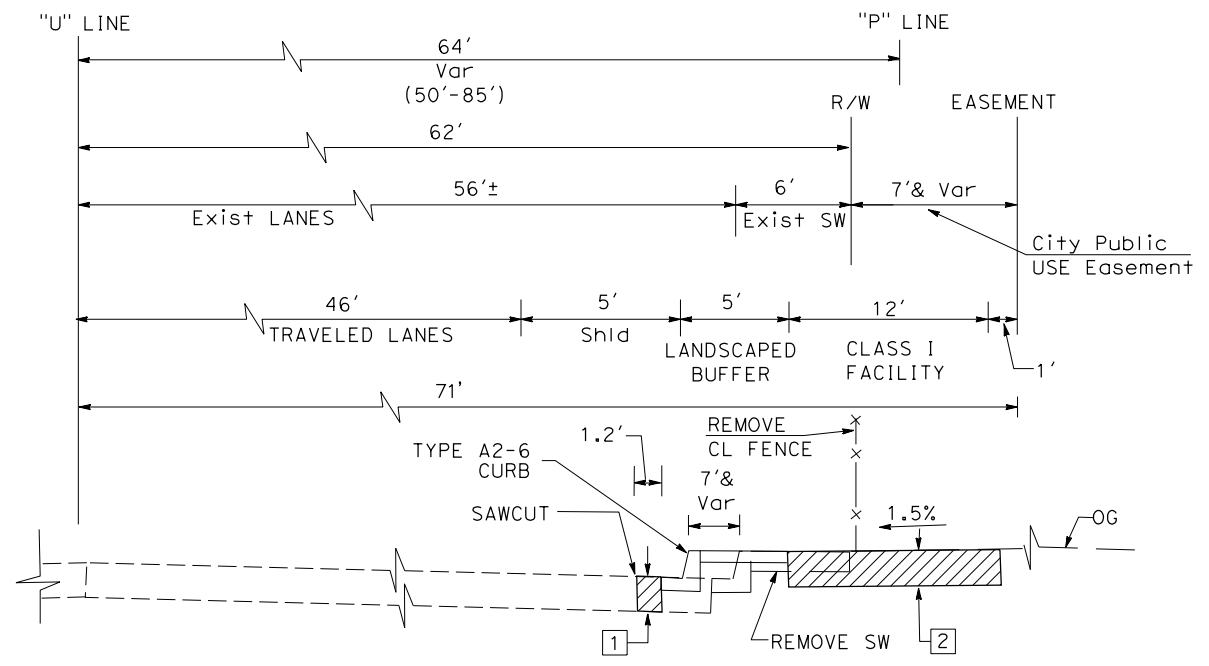


"U" 26+90 TO 29+20  
**UNIVERSITY Ave**

"P" 24+50 TO 27+90

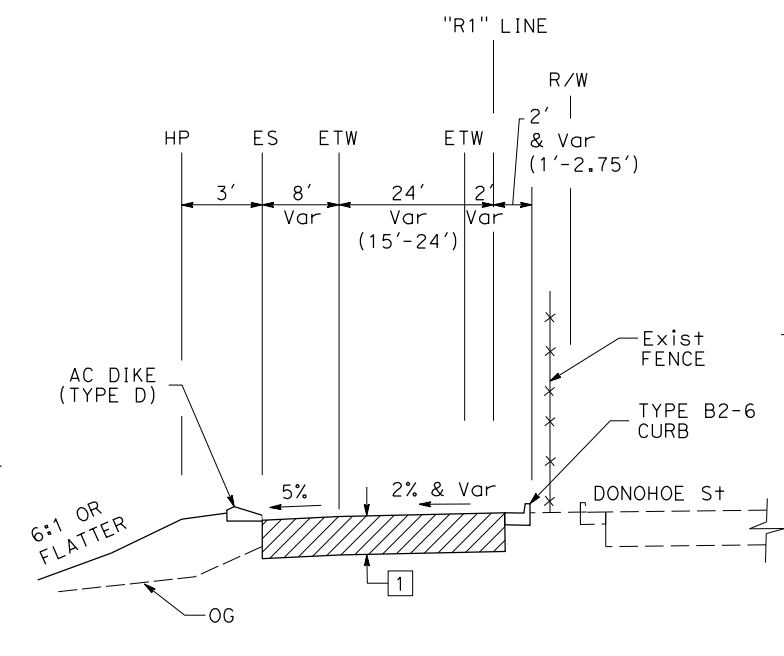


"P" 11+20 TO 15+06  
**UNIVERSITY Ave CLASS 1 FACILITY**

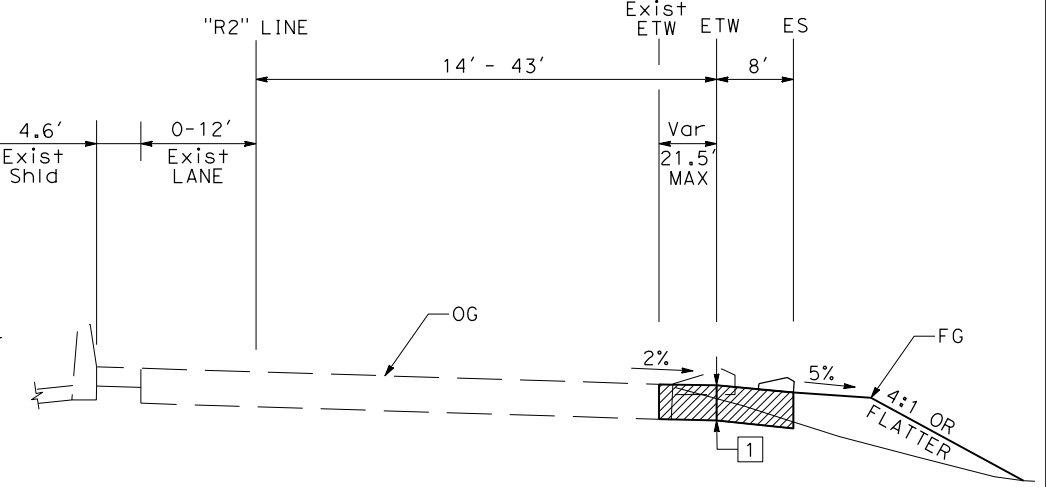


"U" 21+80 to 26+90  
**UNIVERSITY Ave**

"P" 20+51 TO 24+50



"R1" 62+43.56 TO 65+45  
**NB ROUTE 101 UNIVERSITY Ave LOOP OFF-RAMP**



"R2" 79+64.16 TO 83+93.91  
**ROUTE 101/UNIVERSITY Ave LOOP OFF RAMP**

**TYPICAL CROSS SECTIONS**

X-1



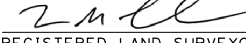
**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR COMPLETE PROJECT CONTROL DATA, SEE THE SURVEY ON FILE IN THE SURVEYS DEPARTMENT AT THE DISTRICT OFFICE.
- HORIZONTAL DATUM IS THE NORTH AMERICAN DATUM OF 1983 (2011), CALIFORNIA COORDINATE SYSTEM ZONE 3, EPOCH 2010.00. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCES TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.0000730.

**LEGEND:**

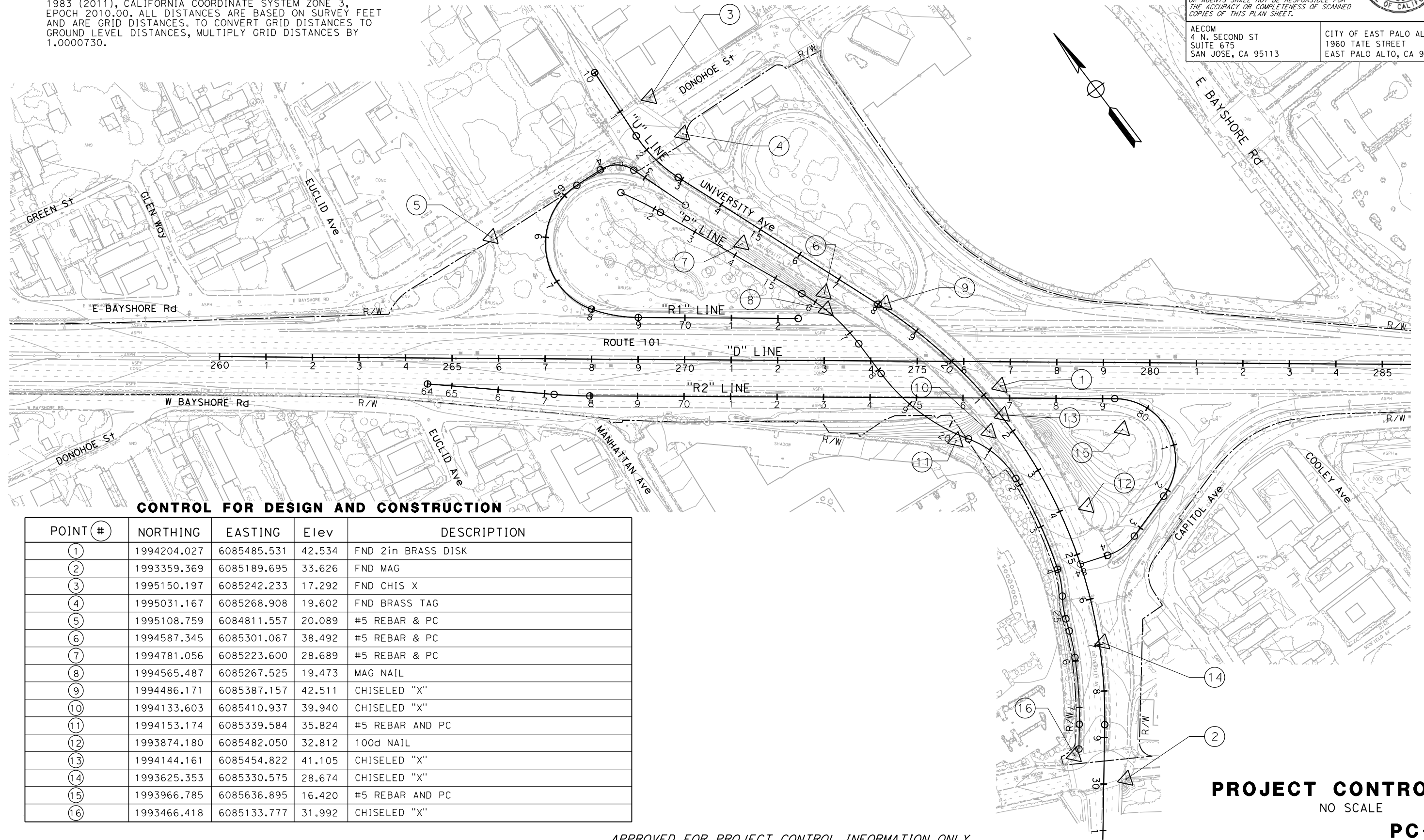
△ INDICATES A NATIONAL GEODETIC SURVEY HORIZONTAL AND VERTICAL CONTROL STATION USED FOR THIS SURVEY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	4	136

 8-9-22  
 REGISTERED LAND SURVEYOR DATE  
 9-30-22  
 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.



AECOM  
 4 N. SECOND ST  
 SUITE 675  
 SAN JOSE, CA 95113  
 CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303



**CONTROL FOR DESIGN AND CONSTRUCTION**

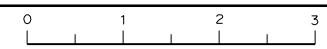
POINT #	NORTHING	EASTING	Elev	DESCRIPTION
①	1994204.027	6085485.531	42.534	FND 2in BRASS DISK
②	1993359.369	6085189.695	33.626	FND MAG
③	1995150.197	6085242.233	17.292	FND CHIS X
④	1995031.167	6085268.908	19.602	FND BRASS TAG
⑤	1995108.759	6084811.557	20.089	#5 REBAR & PC
⑥	1994587.345	6085301.067	38.492	#5 REBAR & PC
⑦	1994781.056	6085223.600	28.689	#5 REBAR & PC
⑧	1994565.487	6085267.525	19.473	MAG NAIL
⑨	1994486.171	6085387.157	42.511	CHISELED "X"
⑩	1994133.603	6085410.937	39.940	CHISELED "X"
⑪	1994153.174	6085339.584	35.824	#5 REBAR AND PC
⑫	1993874.180	6085482.050	32.812	100d NAIL
⑬	1994144.161	6085454.822	41.105	CHISELED "X"
⑭	1993625.353	6085330.575	28.674	CHISELED "X"
⑮	1993966.785	6085636.895	16.420	#5 REBAR AND PC
⑯	1993466.418	6085133.777	31.992	CHISELED "X"

APPROVED FOR PROJECT CONTROL INFORMATION ONLY

**PROJECT CONTROL**  
NO SCALE

**PC-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Et Caltrans®  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: [blank]  
 CHECKED BY: [blank]  
 BRIAN COLESON  
 DANIEL HO  
 REVISED BY: [blank]  
 DATE REVISED: 8-9-22  
 JC  
 8-9-22











**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- COORDINATES, DISTANCES AND BEARINGS SHOWN ARE BASED ON CALIFORNIA COORDINATE SYSTEM ZONE 3. THE HORIZONTAL DATUM IS NAD 1983. THE VERTICAL DATUM IS NGVD 1929.

**LEGEND:**

-  AC PLANING
-  REMOVE BASE AND SURFACE
-  ROADWAY EXCAVATION (TYPE Z-2, ADL)
-  IRRIGATION CONDUIT
-  ABUTMENT
-  COLUMN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	5	136

9-15-22  
REGISTERED CIVIL ENGINEER DATE

9-30-22  
PLANS APPROVAL DATE

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

AECOM  
4 N. SECOND St  
SUITE 675  
SAN JOSE, CA 95113

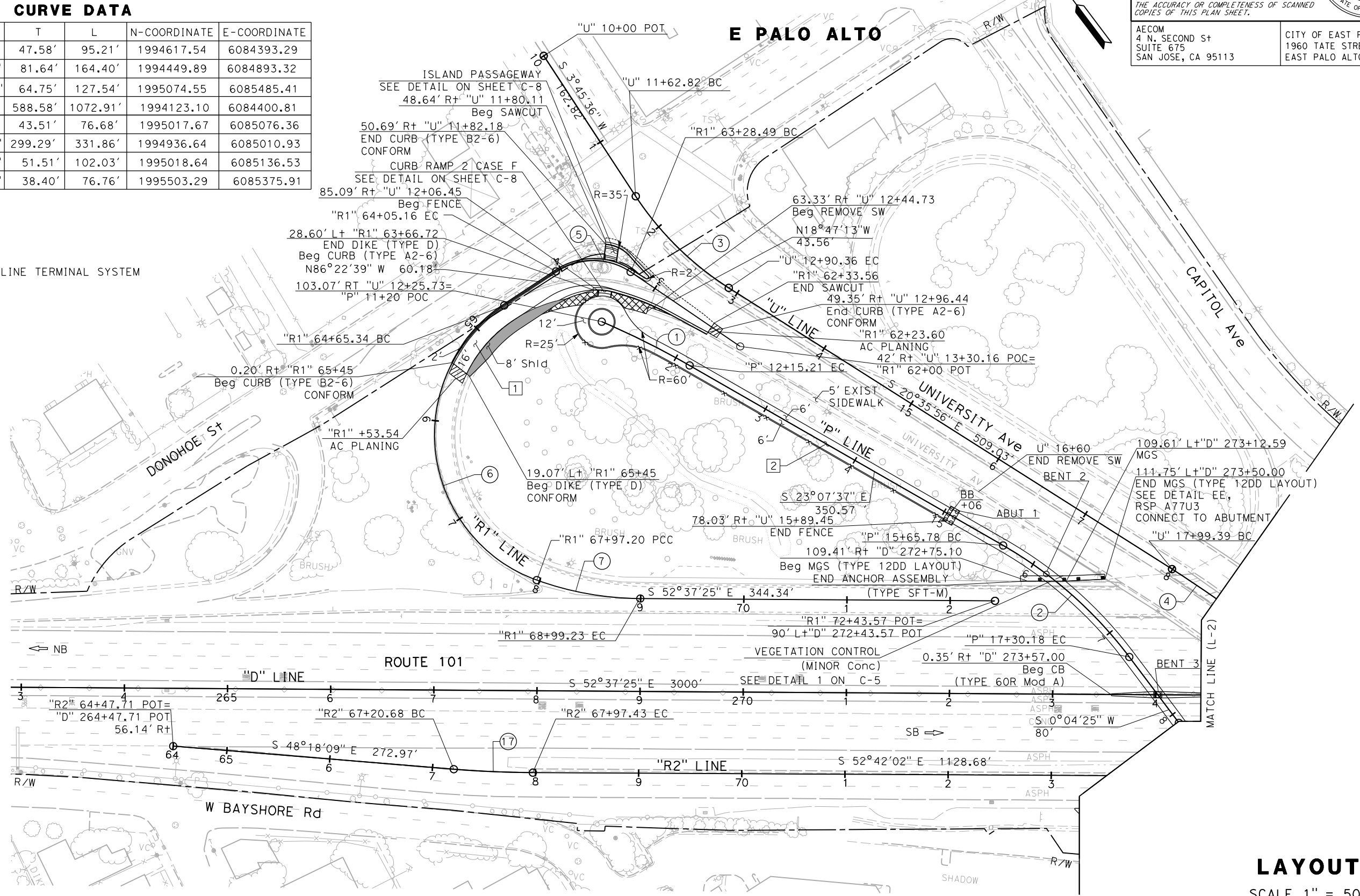
CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303

**CURVE DATA**

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	800'	6°49'09"	47.58'	95.21'	1994617.54	6084393.29
2	406'	23°12'02"	81.64'	164.40'	1994449.89	6084893.32
3	300'	24°21'31"	64.75'	127.54'	1995074.55	6085485.41
4	1050'	58°32'45"	588.58'	1072.91'	1994123.10	6084400.81
5	65'	67°35'26"	43.51'	76.68'	1995017.67	6085076.36
6	150'	126°45'38"	299.29'	331.86'	1994936.64	6085010.93
7	300'	19°29'07"	51.51'	102.03'	1995018.64	6085136.53
17	1000'	4°23'52"	38.40'	76.76'	1995503.29	6085375.91

**ABBREVIATIONS:**

AITs ALTERNATIVE IN-LINE TERMINAL SYSTEM



**LAYOUT**  
SCALE 1" = 50'

**L-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Jose Coronel  
 Daniel Ho  
 Howard Michael



**NOTE:**

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

**CURVE DATA**

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
14	1050'	58°32'45"	588.58'	1072.91'	1994123.10	6084400.81
15	449'	07°26'31"	29.20'	58.32'	1993845.93	6084870.39
16	880'	09°22'21"	72.14'	143.95'	1994052.08	6084491.89

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	7	136

REGISTERED CIVIL ENGINEER DATE 9-15-22

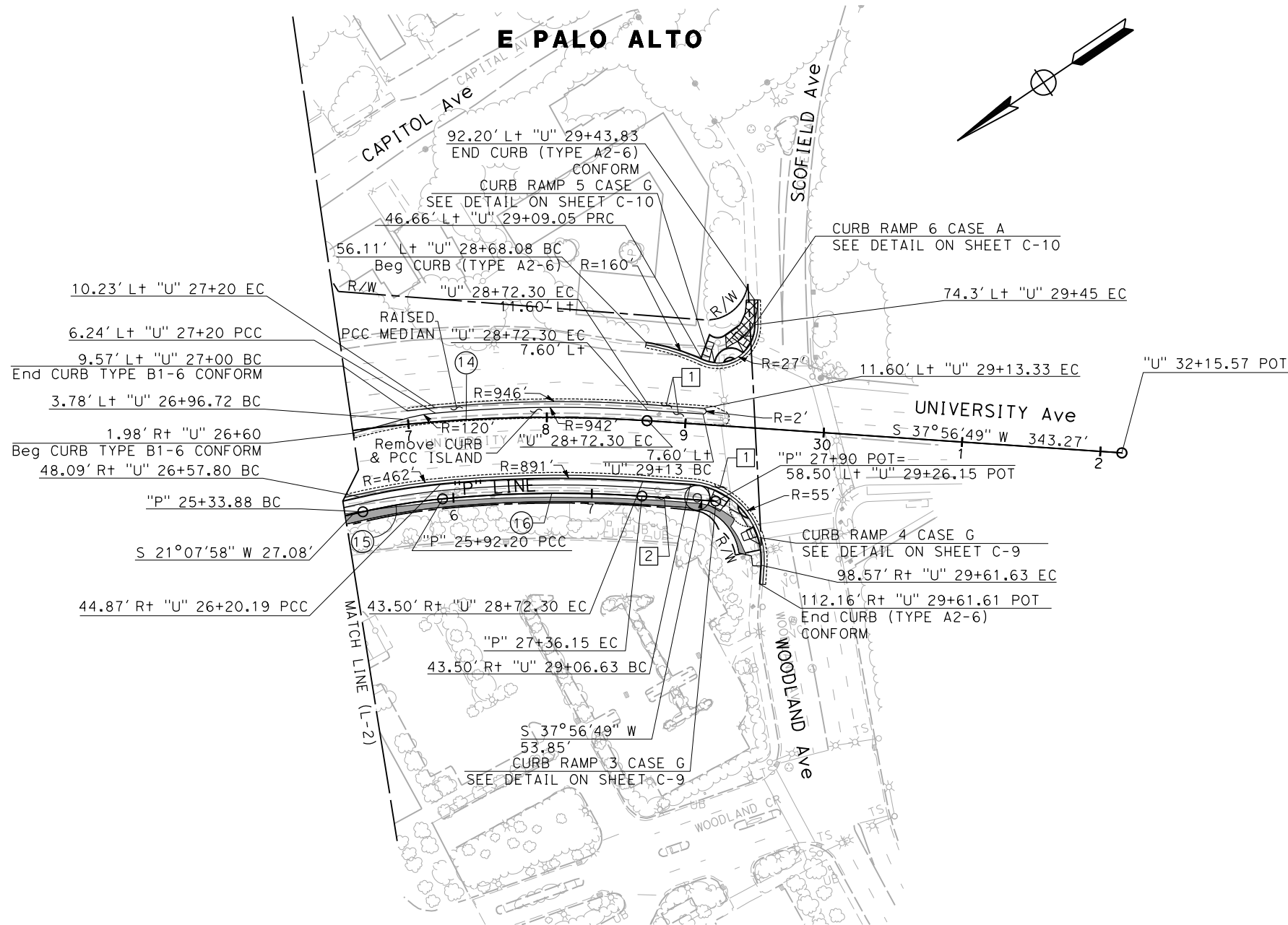
9-30-22  
PLANS APPROVAL DATE

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

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AECOM  
4 N. SECOND St  
SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



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

**LAYOUT**  
SCALE 1" = 50'

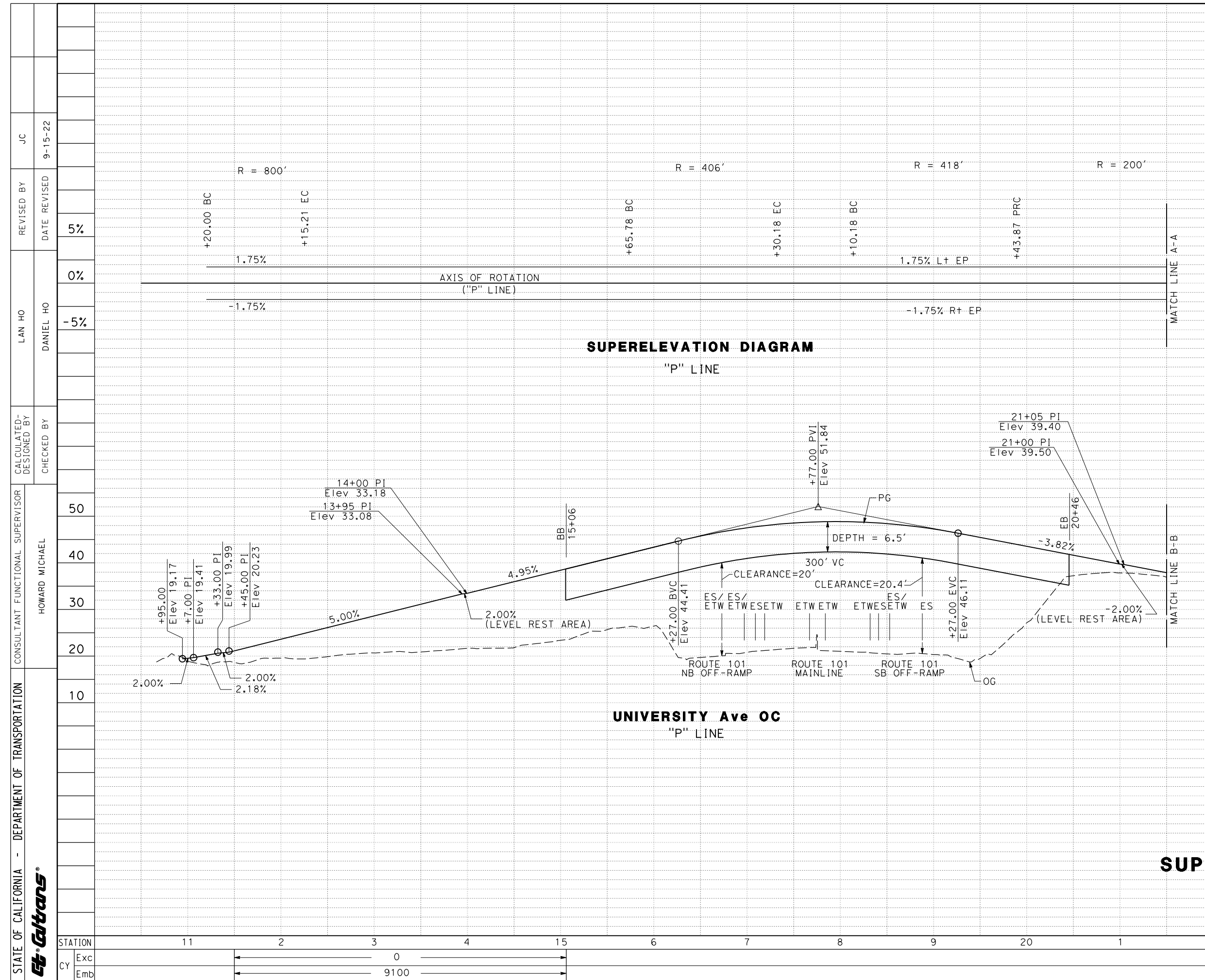
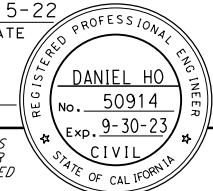
**L-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

JOSE CORONEL  
DANIEL HO  
HOWARD MICHAEL

DATE PLOTTED => 10/26/2022  
TIME PLOTTED => 1:26:35 PM  
LAST REVISION 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	8	136
			9-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	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.					
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



# PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 50'  
Vert 1" = 10'

**P-1**

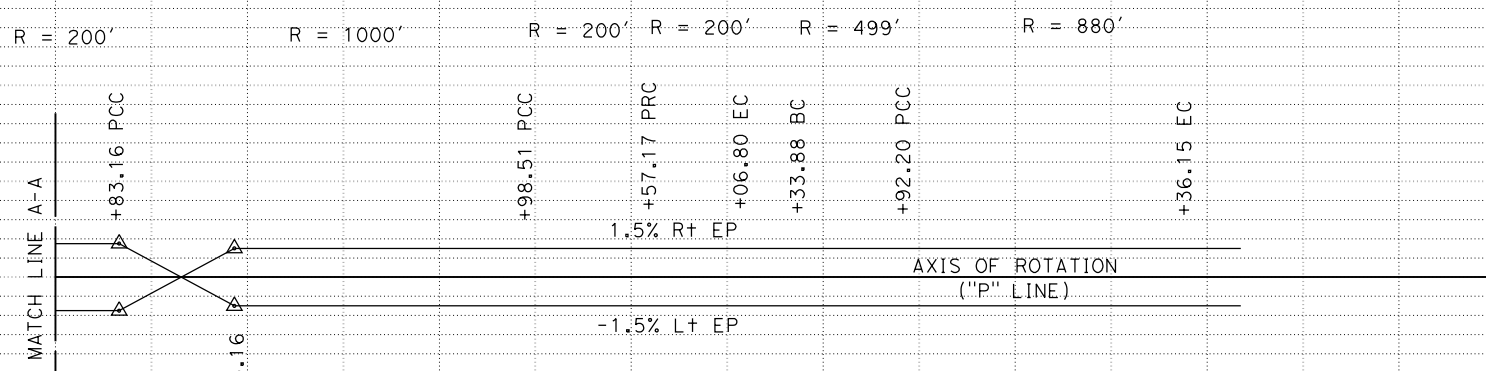
REVISOR	DATE	REVISION
JC	9-15-22	5%
LAN HO	DANIEL HO	0%
CALCULATED/DESIGNED BY	CHECKED BY	
HOWARD MICHAEL		
CONSULTANT FUNCTIONAL SUPERVISOR		
50		
40		
30		
20		
10		

5%	
0%	
-5%	
50	
40	
30	
20	
10	
TOTAL	9100

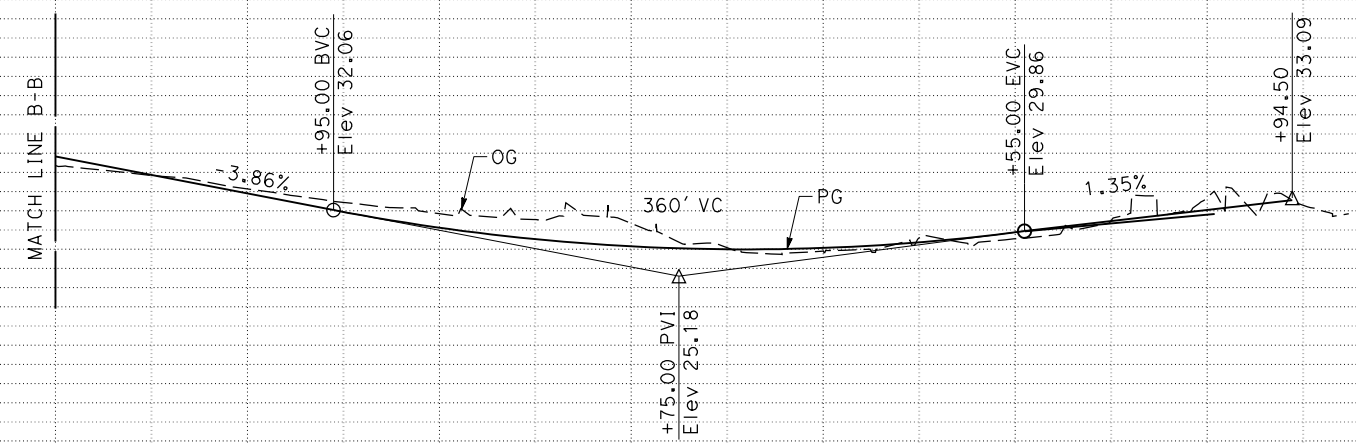
DATE PLOTTED => 10/26/2022  
TIME PLOTTED => 1:32:05 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT SUPERVISOR	HOWARD MICHAEL
	FUNCTIONAL SUPERVISOR	HOWARD MICHAEL
CALCULATED-DESIGNED BY	CHECKED BY	
	CHECKED BY	
LAN HO	DANIEL HO	
REVISED BY	DATE REVISED	
JC	9-15-22	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	9	136
REGISTERED CIVIL ENGINEER			9-15-22	DATE	
PLANS APPROVAL DATE			9-30-22		
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AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



**SUPERELEVATION DIAGRAM**  
"P" LINE



**UNIVERSITY Ave OC**  
"P" LINE

**PROFILE AND SUPERELEVATION DIAGRAM**

SCALE: Horiz 1" = 50'  
Vert 1" = 10'

**P-2**

STATION	21	2	3	4	25	6	7	8	TOTAL
Exc					620				620
Emb					0				0

DATE PLOTTED => 10/26/2022  
TIME PLOTTED => 1:33:33 PM

**NOTE:**

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

**FLOWLINE ELEVATIONS**

No.	LOCATION	ELEVATION
1	41.34' Rt "U" 21+80 BC	38.64
2	44.24' Rt "U" 22+00	37.90
3	44.72' Rt "U" 22+20	37.48
4	42.82' Rt "U" 22+40	37.13
5	40.18' Rt "U" 22+60	36.56
6	39.05' Rt "U" 22+80	36.00
7	39.00' Rt "U" 23+00	35.87
8	39.00' Rt "U" 23+20	35.50
9	39.00' Rt "U" 23+40	34.73
10	39.00' Rt "U" 23+60	34.08
11	39.00' Rt "U" 23+80	33.48
12	39.00' Rt "U" 24+00	32.80
13	39.00' Rt "U" 24+20	32.17
14	39.00' Rt "U" 24+40	31.56
15	39.00' Rt "U" 24+60	30.95
16	39.00' Rt "U" 24+80	30.38
17	39.00' Rt "U" 25+00	29.88
18	39.00' Rt "U" 25+20	29.74
19	39.94' Rt "U" 25+40	29.60
20	42.26' Rt "U" 25+60	28.50
21	46.02' Rt "U" 25+80	28.00
22	49.39' Rt "U" 26+00	27.60
23	42.76' Rt "U" 22+40.32 PRC	37.11
24	39.00' Rt "U" 22+85.18 PCC	37.88
25	39.00' Rt "U" 25+16.76 PCC	29.80
26	46.16' Rt "U" 25+80.61 PRC	27.98

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9-15-22  
REGISTERED CIVIL ENGINEER DATE

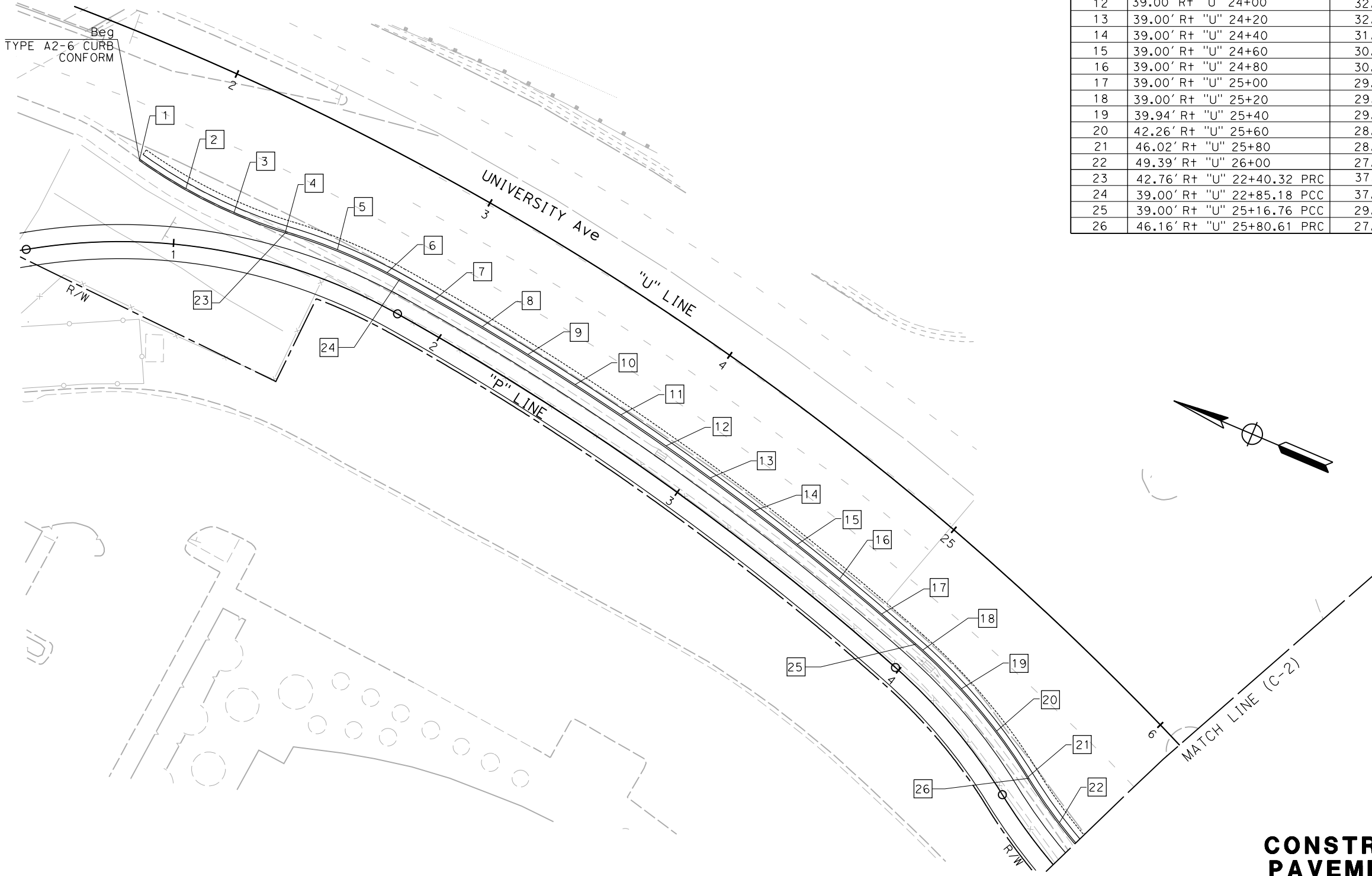
9-30-22  
PLANS APPROVAL DATE

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

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AECOM  
4 N. SECOND St  
SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



**CONSTRUCTION DETAILS AND PAVEMENT ELEVATION PLAN**  
SCALE 1" = 20'

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

**C-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
CALCULATED/DESIGNED BY: JC  
CHECKED BY: DANIEL HO  
REVISED BY: JC  
DATE REVISED: 9-15-22

USERNAME => jose.coronel  
DGN FILE => 04000007591ga001.dgn

RELATIVE BORDER SCALE IS IN INCHES  
0 1 2 3

UNIT 0703

PROJECT NUMBER & PHASE

04000007591

LAST REVISION: 9-15-22  
DATE PLOTTED => 10/26/2022  
TIME PLOTTED => 1:40:08 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CHECKED BY: DANIEL HO  
 REVISOR: NELSON HOM  
 DATE REVISED: 9-15-22  
 DESIGNED BY: JC  
 DATE: 9-15-22

**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	SM	101	0.8/1.1	11	136

REGISTERED CIVIL ENGINEER DATE: 9-15-22  
 PLANS APPROVAL DATE: 9-30-22  
 AECOM  
 4 N. SECOND ST  
 SUITE 675  
 SAN JOSE, CA 95113  
 CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

**FLOWLINE ELEVATIONS**

No.	LOCATION	ELEVATION
27	50.44' R+ "U" 26+20	27.28
28	50.14' R+ "U" 26+29.47 EC	27.18
29	49.46' R+ "U" 26+40	27.12
30	48.09' R+ "U" 26+57.80 BC	27.05
31	47.90' R+ "U" 26+60	27.01
32	46.46' R+ "U" 26+80	26.81
33	45.45' R+ "U" 27+00	26.96
34	44.87' R+ "U" 27+20	26.77
35	44.87' R+ "U" 27+20.19 PCC	26.77
36	44.54' R+ "U" 27+40	26.93
37	44.25' R+ "U" 27+60	27.11
38	44.00' R+ "U" 27+80	27.44
39	43.81' R+ "U" 28+00	27.79
40	43.66' R+ "U" 28+20	28.29
41	43.56' R+ "U" 28+40	28.71
42	43.50' R+ "U" 28+60	29.08
43	43.50' R+ "U" 28+72.30 EC	29.38
44	43.50' R+ "U" 28+80	29.60

**FLOWLINE ELEVATIONS**

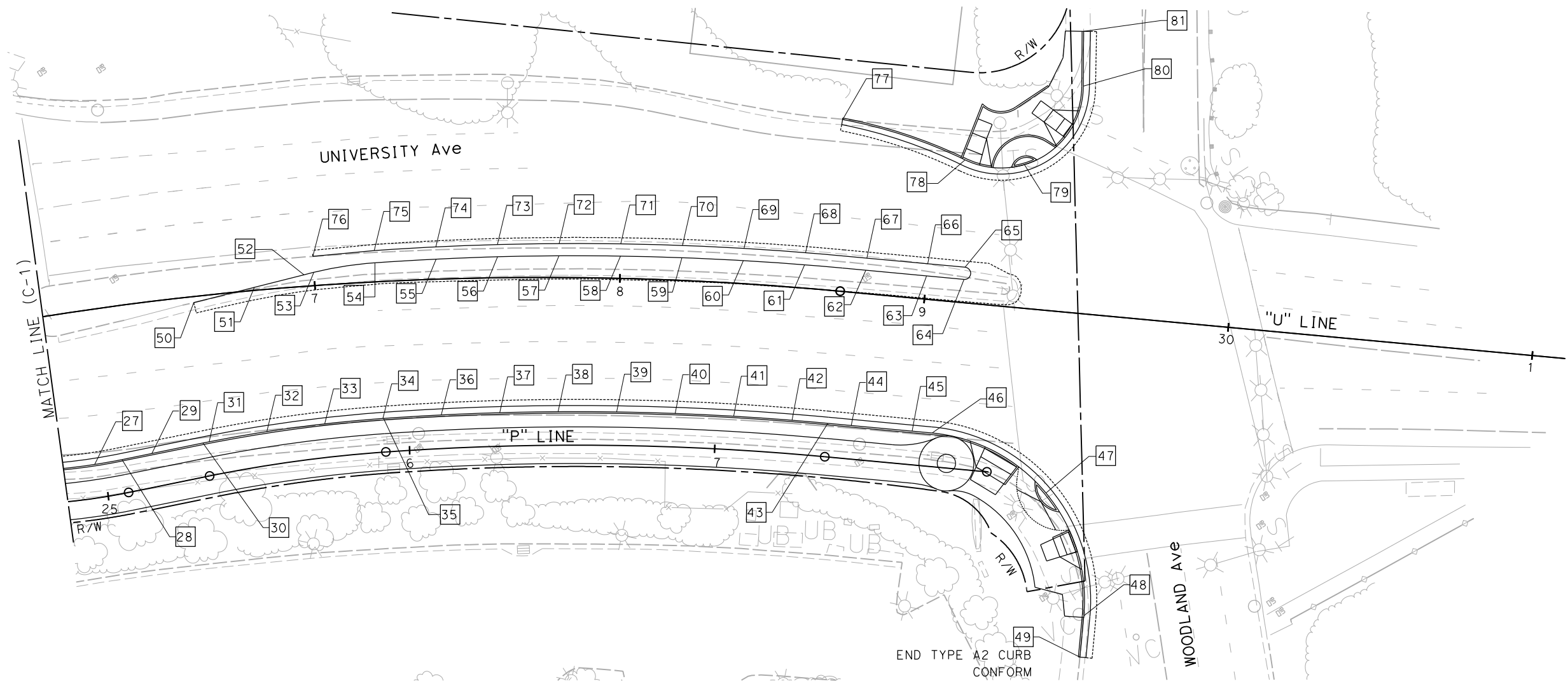
No.	LOCATION	ELEVATION
45	43.50' R+ "U" 29+00	30.15
46	43.50' R+ "U" 29+06.63 BC	30.41
47	59.63' R+ "U" 29+45.54 MP	31.33
48	98.57' R+ "U" 29+61.63 EC	32.18
49	112.16' R+ "U" 29+61.61	31.97

**FLOWLINE ELEVATIONS**

No.	LOCATION	ELEVATION
50	1.98' R+ "U" 26+60	28.35
51	1.02' L+ "U" 26+80	28.32
52	3.78' L+ "U" 26+96.72 BC	28.35
53	4.37' L+ "U" 27+00	28.38
54	6.24' L+ "U" 27+20	28.39
55	6.57' L+ "U" 27+40	28.50
56	6.86' L+ "U" 27+60	28.54
57	7.10' L+ "U" 27+80	28.79
58	7.30' L+ "U" 28+00	29.16
59	7.44' L+ "U" 28+20	29.45
60	7.54' L+ "U" 28+40	29.82
61	7.59' L+ "U" 28+60	30.15
62	7.60' L+ "U" 28+80	30.65
63	7.60' L+ "U" 29+00	31.17
64	7.60' L+ "U" 29+20	31.60
65	11.60' L+ "U" 29+20	31.47
66	11.60' L+ "U" 29+00	31.05
67	11.60' L+ "U" 28+80	30.48

**FLOWLINE ELEVATIONS**

No.	LOCATION	ELEVATION
68	11.60' L+ "U" 28+60	29.93
69	11.54' L+ "U" 28+40	29.49
70	11.44' L+ "U" 28+20	29.14
71	11.29' L+ "U" 28+00	28.90
72	11.10' L+ "U" 27+80	28.68
73	10.86' L+ "U" 27+60	28.30
74	10.57' L+ "U" 27+40	28.10
75	10.24' L+ "U" 27+20	28.02
76	9.57' L+ "U" 27+00	28.09
77	56.11' L+ "U" 27+68.08 BC	29.50
78	46.66' L+ "U" 29+09 PRC	31.12
79	46.84' R+ "U" 29+28 HP	31.35
80	74.30' L+ "U" 29+45.39 EC	31.13
81	92.20' L+ "U" 29+44	31.05



**CONSTRUCTION DETAILS AND PAVEMENT ELEVATION PLAN**  
 SCALE 1" = 20'

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

LAST REVISION DATE PLOTTED => 10/26/2022 9-15-22 TIME PLOTTED => 1:41:10 PM



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CHECKED BY: DANIEL HO  
 REVISOR: JOSE CORONEL  
 DATE: 9-15-22  
 DESIGNED BY: JOSE CORONEL  
 CHECKED BY: DANIEL HO

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

FLOWLINE/ PAVEMENT ELEVATIONS		
No.	LOCATION	ELEVATION
1	2.83' Rt "R1" 62+75	19.95
2	2.36' Rt "R1" 62+81	19.65
3	1.34' Rt "R1" 63+01	19.35
4	0.38' Rt "R1" 63+21	19.10
5	1.86' Rt "R1" 63+41	18.85
6	1.60' Rt "R1" 63+59	18.60
7	1.36' Rt "R1" 63+79	18.50
8	1.18' Rt "R1" 64+00	18.40
9	1.05' Rt "R1" 64+20	18.50
10	1.05' Rt "R1" 64+40	18.60
11	1.05' Rt "R1" 64+60	18.70
12	1.00' Rt "R1" 64+80	18.80
13	0.95' Rt "R1" 65+00	18.90
14	0.67' Rt "R1" 65+20	19.00
15	14.90' Rt "R1" 63+41	19.27
16	18.75' Rt "R1" 63+57	18.03

FLOWLINE/ PAVEMENT ELEVATIONS		
No.	LOCATION	ELEVATION
17	17.09' Lt "R1" 65+18	17.40
18	17.04' Lt "R1" 64+90	17.50
19	16.97' Lt "R1" 64+69	17.50
20	16.96' Lt "R1" 64+49	17.40
21	16.96' Lt "R1" 64+30	17.30
22	18.87' Lt "R1" 64+09	17.40
23	23.46' Lt "R1" 63+79	17.85
24	23.43' Lt "R1" 63+39	18.60
25	24.92' Lt "R1" 65+16	17.30
26	25.05' Lt "R1" 64+98	17.20
27	24.98' Lt "R1" 64+72	17.10
28	24.96' Lt "R1" 64+51	17.00
29	24.96' Lt "R1" 64+31	16.90
30	25.61' Lt "R1" 64+12	17.30
31	28.73' Lt "R1" 63+82	17.70
32	27.05' Lt "R1" 63+46	18.41
33	21.02' Lt "R1" 63+21	18.80
34	16.42' Lt "R1" 63+00	19.22
35	13.30' Lt "R1" 62+82	19.58
36	11.15' Lt "R1" 62+62	19.98

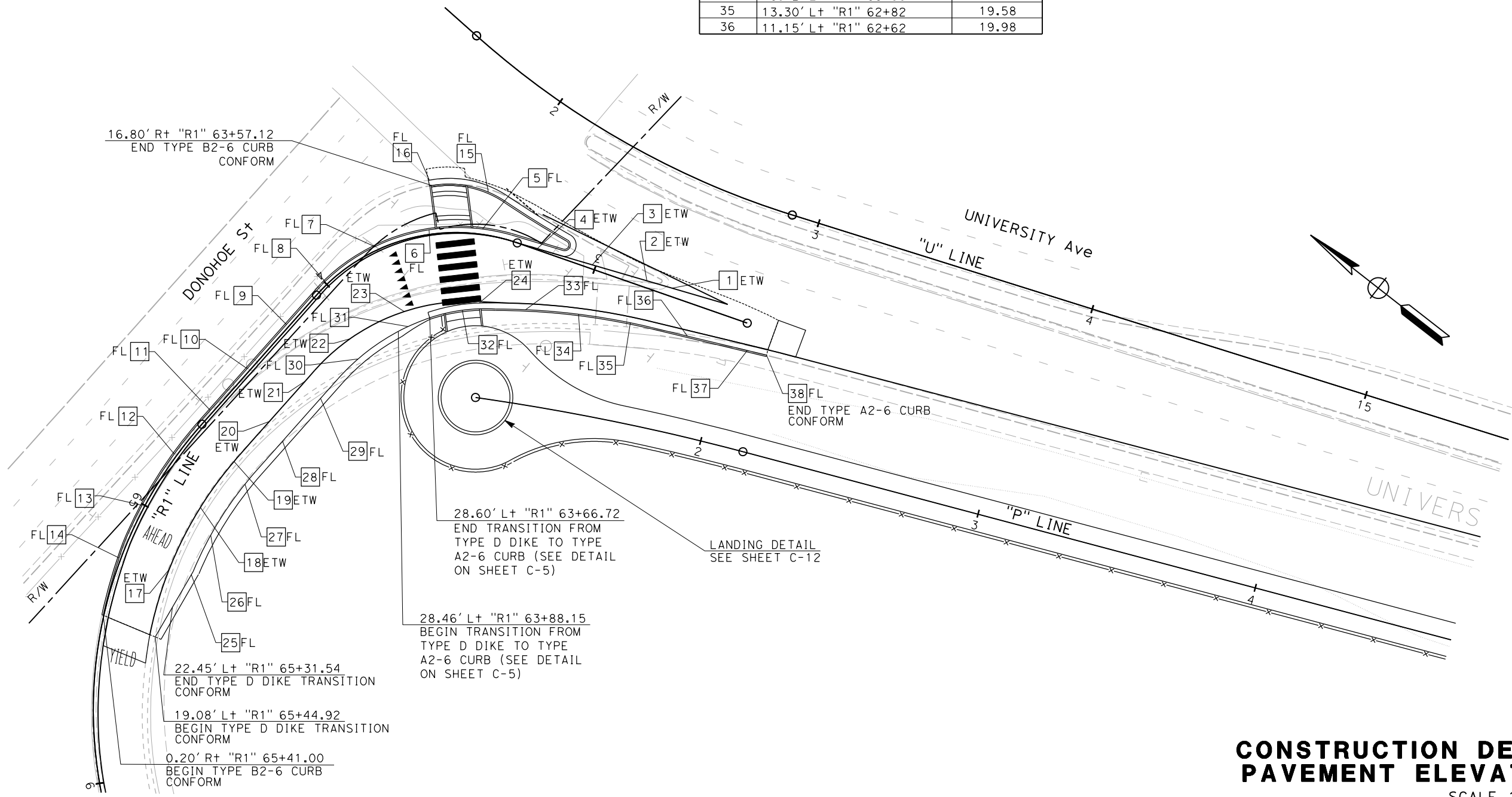
FLOWLINE/ PAVEMENT ELEVATIONS		
No.	LOCATION	ELEVATION
37	9.00' Lt "R1" 62+40	20.40
38	8.32' Lt "R1" 62+33	20.55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	12	136

REGISTERED CIVIL ENGINEER DATE: 9-15-22  
 PLANS APPROVAL DATE: 9-30-22  
 DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

ACCOM  
 4 N. SECOND ST  
 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303



**CONSTRUCTION DETAILS AND PAVEMENT ELEVATION PLAN**  
 SCALE 1" = 20'

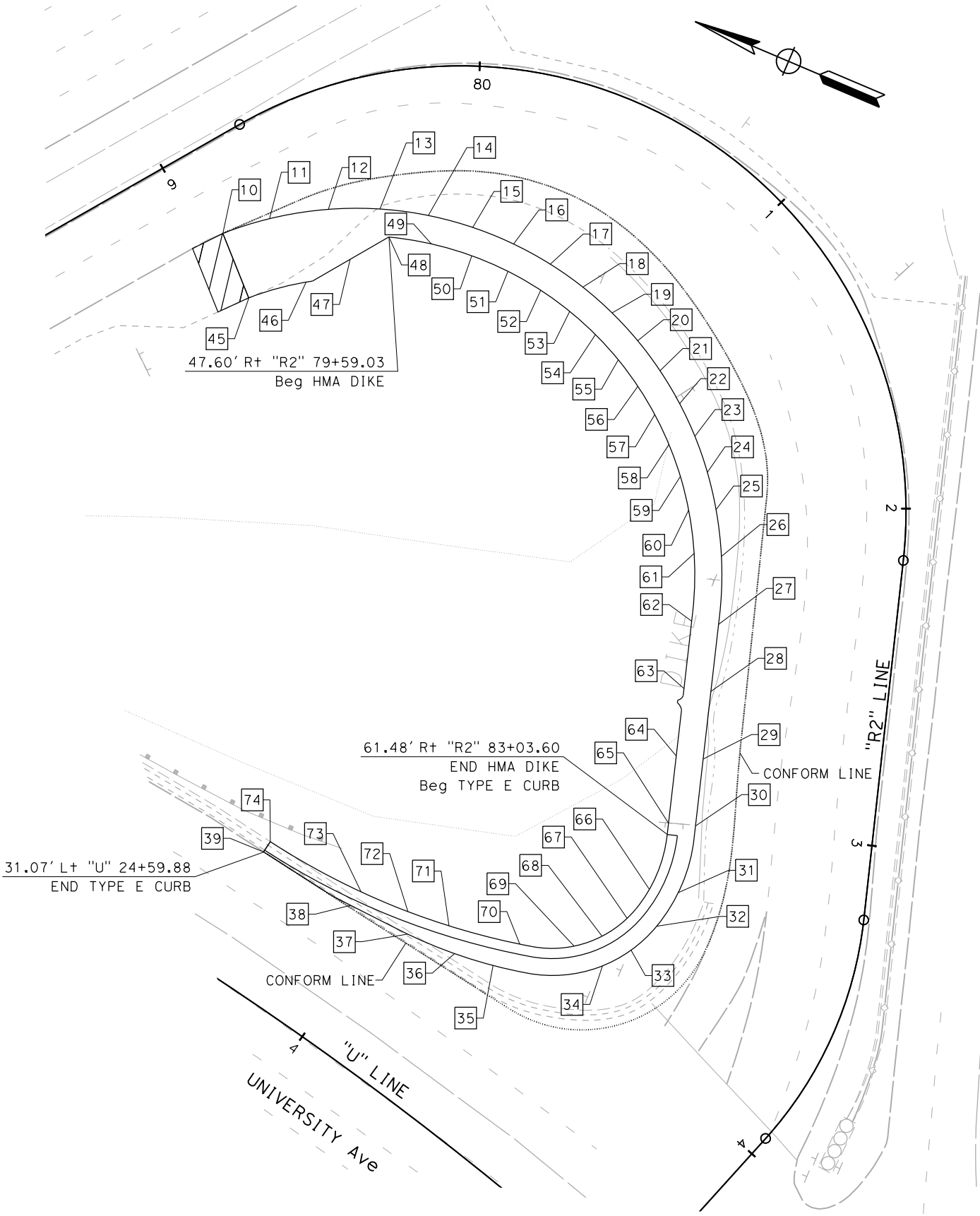
APPROVED FOR PAVEMENT ELEVATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: CHECKED BY:  
 JOSE CORONEL: DANIEL HO  
 REVISED BY: DATE REVISED:  
 JC: 9-15-22

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

**PAVEMENT ELEVATIONS**

No.	LOCATION	ELEVATION
58	66.88' R+ "R2" 81+60	16.97
59	65.80' R+ "R2" 81+80	17.73
60	64.18' R+ "R2" 82+00	18.37
61	61.62' R+ "R2" 82+20	19.18
62	60.16' R+ "R2" 82+40	20.6
63	60.23' R+ "R2" 82+60	22.39
64	60.30' R+ "R2" 82+80	23.91
65	60.38' R+ "R2" 83+00	25.32
66	63.90' R+ "R2" 83+20	26.67
67	68.92' R+ "R2" 83+40	29.81
68	74.05' R+ "R2" 83+60	28.92
69	79.70' R+ "R2" 83+80	29.81
70	92.27' R+ "R2" 84+00	32.56
71	111.42' R+ "R2" 84+10	33.58
72	123.23' R+ "R2" 84+15	34.42
73	137.39' R+ "R2" 84+20	35.08
74	167.00' R+ "R2" 84+27	35.58



**PAVEMENT ELEVATIONS**

No.	LOCATION	ELEVATION
10	25.50' R+ "R2" 79+06	19.08
11	28.52' R+ "R2" 79+20	18.92
12	34.15' R+ "R2" 79+40	18.54
13	39.14' R+ "R2" 79+60	18.08
14	43.63' R+ "R2" 79+80	17.44
15	47.59' R+ "R2" 80+00	16.59
16	51.01' R+ "R2" 80+20	16.00
17	53.84' R+ "R2" 80+40	15.80
18	56.08' R+ "R2" 80+60	15.79
19	57.76' R+ "R2" 80+80	15.90
20	58.87' R+ "R2" 81+00	16.13
21	59.42' R+ "R2" 81+20	16.44
22	59.42' R+ "R2" 81+40	16.82
23	58.85' R+ "R2" 81+60	17.85
24	57.72' R+ "R2" 81+80	18.61
25	56.06' R+ "R2" 82+00	19.28
26	53.51' R+ "R2" 82+20	20.11
27	52.16' R+ "R2" 82+40	21.46
28	52.23' R+ "R2" 82+60	23.08
29	52.30' R+ "R2" 82+80	24.48
30	52.37' R+ "R2" 83+00	25.75
31	55.31' R+ "R2" 83+20	26.96
32	59.88' R+ "R2" 83+40	27.79
33	64.53' R+ "R2" 83+60	28.95
34	69.55' R+ "R2" 83+80	29.81
35	93.90' R+ "R2" 84+10	32.67
36	104.67' R+ "R2" 84+15	33.59
37	118.84' R+ "R2" 84+20	34.38
38	137.00' R+ "R2" 84+25	35.02
39	166.60' R+ "R2" 84+30	35.62
45	45.81' R+ "R2" 79+03	17.53
46	50.13' R+ "R2" 79+20	16.94
47	50.29' R+ "R2" 79+40	17.17
48	47.88' R+ "R2" 79+60	17.33
49	52.07' R+ "R2" 79+80	16.63
50	55.97' R+ "R2" 80+00	15.66
51	59.27' R+ "R2" 80+20	15.03
52	62.04' R+ "R2" 80+40	14.81
53	64.21' R+ "R2" 80+60	14.8
54	65.82' R+ "R2" 80+80	14.94
55	66.70' R+ "R2" 81+00	15.17
56	67.42' R+ "R2" 81+20	15.49
57	67.42' R+ "R2" 81+40	15.86

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	13	136

REGISTERED CIVIL ENGINEER: DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

9-15-22  
 DATE

9-30-22  
 PLANS APPROVAL DATE

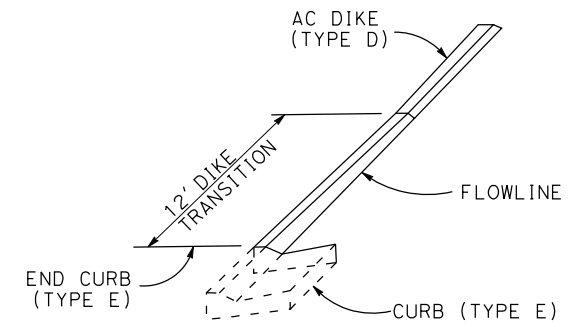
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 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

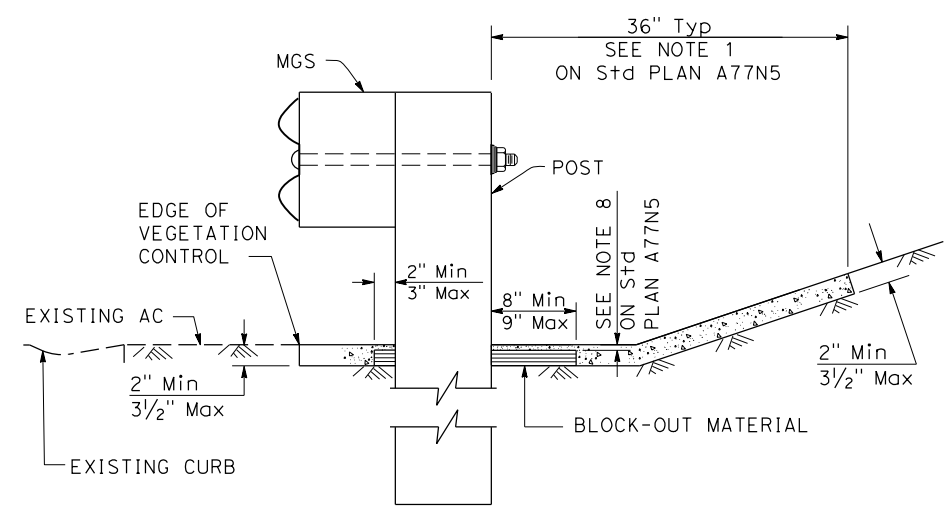
**CONSTRUCTION DETAILS AND PAVEMENT ELEVATIONS**  
 SCALE 1" = 20'

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

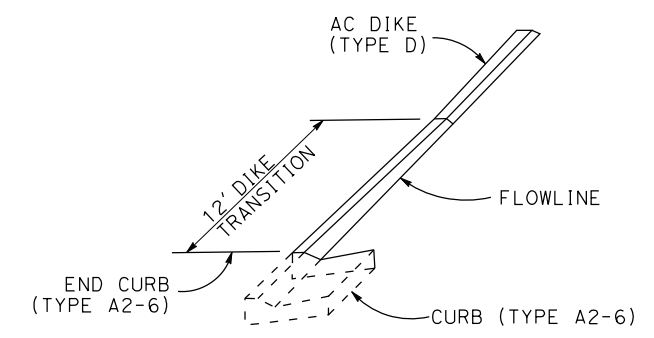
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	14	136
			9-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	PLANS APPROVAL DATE	
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



**TRANSITION FROM CURB (TYPE E) TO AC DIKE (TYPE D)**



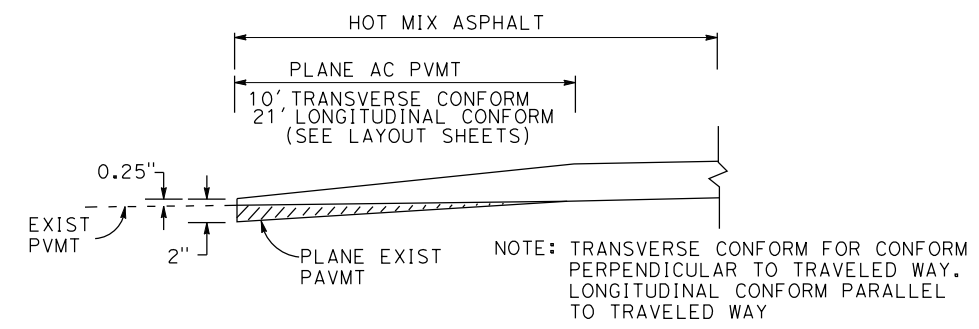
**DETAIL 1**



**TRANSITION FROM CURB (TYPE A2-6) TO AC DIKE (TYPE D)**

**NOTES:**

- COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24 INCHES OF THE CURB RAMP SHALL NOT BE STEEPER THAN 1V:20H (5.0%). GUTTER PAN SLOPE SHALL NOT EXCEED 1" OF DEPTH FOR EACH 2'-0" OF WIDTH.
- THE DETECTABLE WARNING SURFACE WILL BE A RECTANGLE AS SHOWN AT BACK OF CURB, UNLESS MODIFIED IN THE PROJECT PLANS. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP. DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP EXCEPT A MAXIMUM GAP OF 1 INCH IS ALLOWED ON EACH SIDE OF THE RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS. FOR DETAILS OF DETECTABLE WARNING SURFACES, SEE REVISED STANDARD PLAN RSP A88A.
- WHERE AN ISLAND PASSAGEWAY LENGTH IS GREATER THAN OR EQUAL TO 6'-0", BUT LESS THAN 8'-0", EACH DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH AND 2'-0" DEPTH OF THE PASSAGEWAY LENGTH. WHERE AN ISLAND PASSAGEWAY LENGTH IS GREATER THAN OR EQUAL TO 8'-0", EACH DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH AND 3'-0" DEPTH OF THE PASSAGEWAY LENGTH. DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE ISLAND PASSAGEWAY EXCEPT A MAXIMUM GAP OF 1 INCH IS ALLOWED ON EACH SIDE OF THE PASSAGEWAY.



**AC PLANING DETAIL**

**CONSTRUCTION DETAILS**

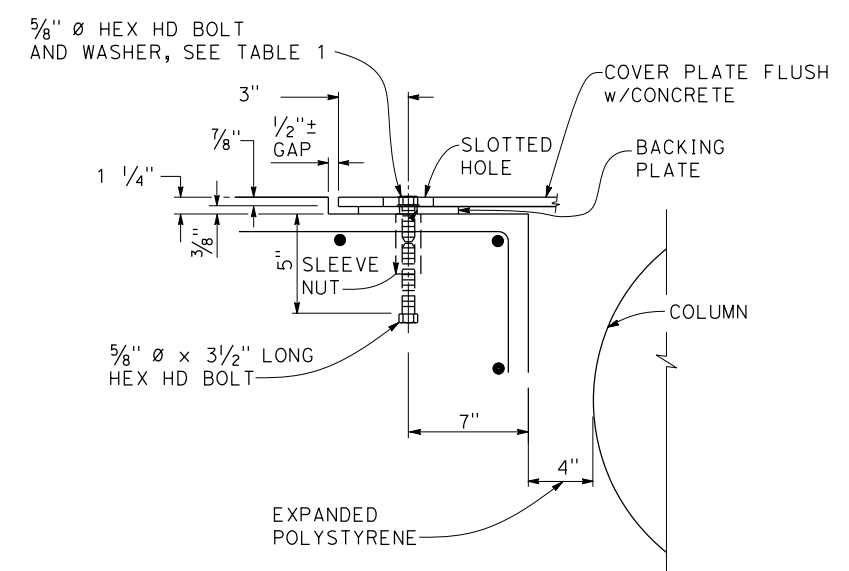
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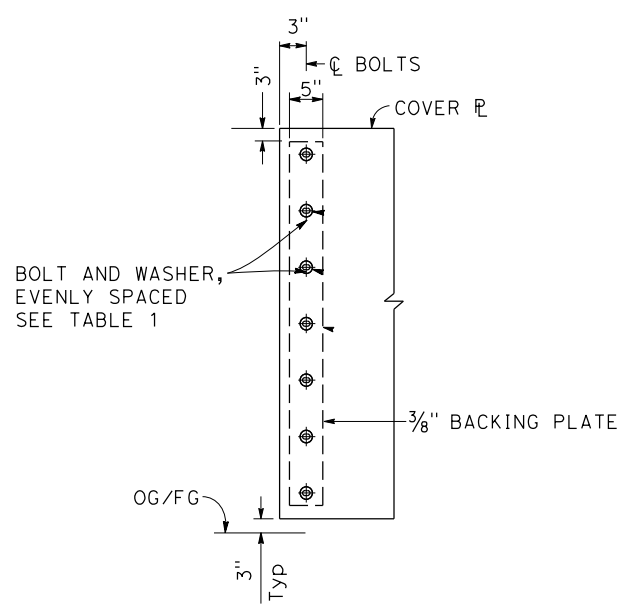
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
	HOWARD MICHAEL	JOSÉ CORONEL	JC	9-15-22
		CHECKED BY	DATE REVISED	
		DANIEL HO	9-15-22	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	15	136

REGISTERED CIVIL ENGINEER DATE 9-15-22  
 PLANS APPROVAL DATE 9-30-22  
 DANIEL HO No. 50914 Exp. 9-30-23 CIVIL  
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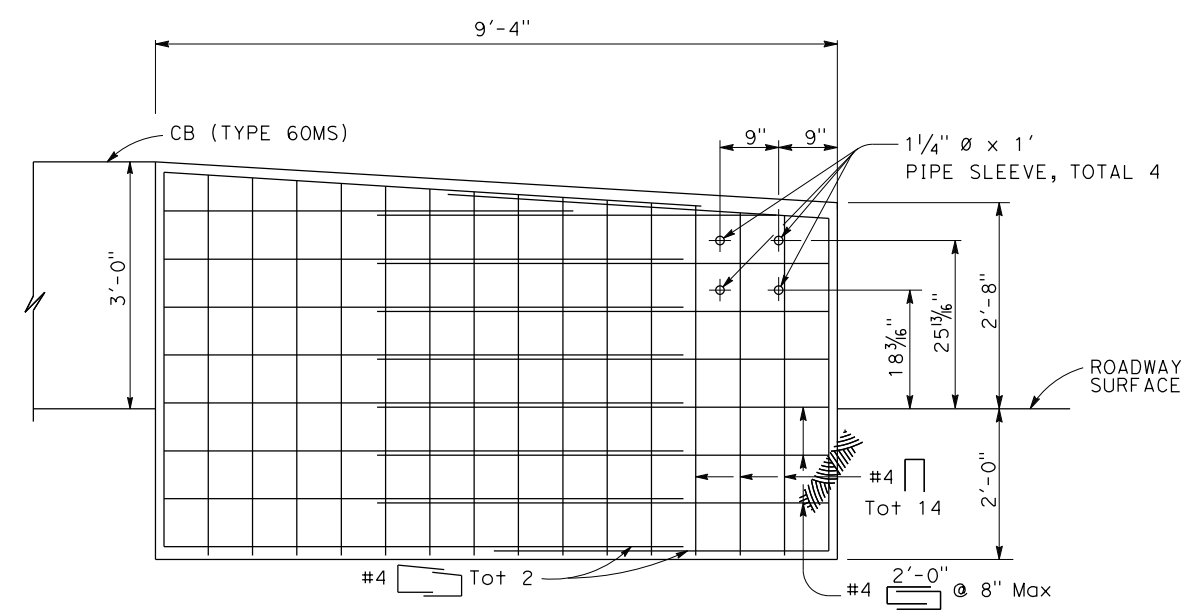
PLAN DETAIL 1



ELEVATION DETAIL 2

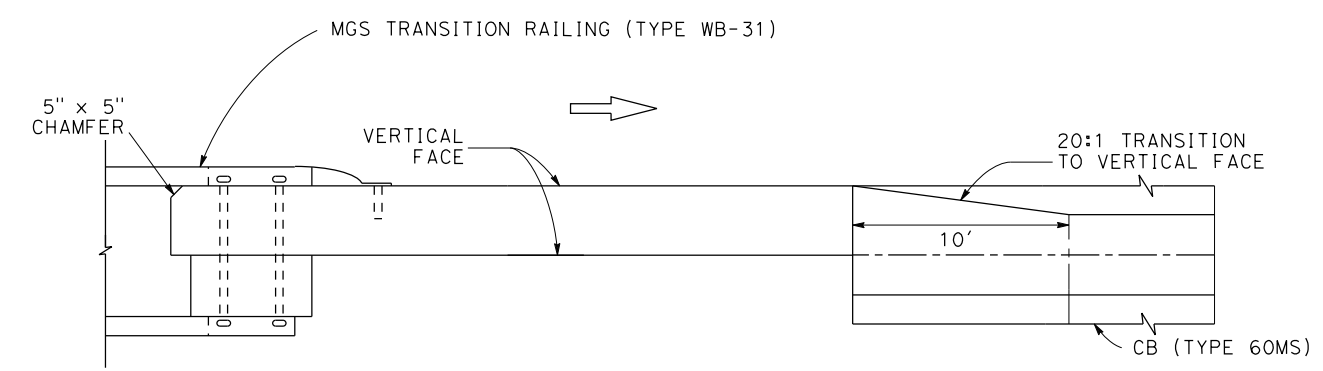
L (ft)	PLATE * THICKNESS (in)	TOTAL NO. OF BOLTS
8'-6" Max	3/8	10

\* PLATE STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 UNLESS OTHERWISE NOTED.



ELEVATION  
CB (ANCHOR BLOCK) FOR TRANSITION RAILING CONNECTION

DETAIL A



PLAN VIEW

**NOTE:**

- FOR ADDITIONAL DETAILS OF A TYPICAL CONNECTION TO ANCHOR BLOCK SEE CONNECTION DETAIL DD ON REVISED STD PLAN RSP A77U3.
- FOR ADDITIONAL DETAILS OF MGS TRANSITION RAILING (TYPE WB-31) SEE REVISED STD PLAN RSP A77U4.

**CONSTRUCTION DETAILS**

NO SCALE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Caltrans  
 CONSULTANT FUNCTIONAL SUPERVISOR HOWARD MICHAEL  
 CHECKED BY DANIEL HO  
 REVISOR BY JOSE CORONEL  
 DATE REVISED 9-15-22  
 DESIGNED BY JC  
 DATE 9-15-22

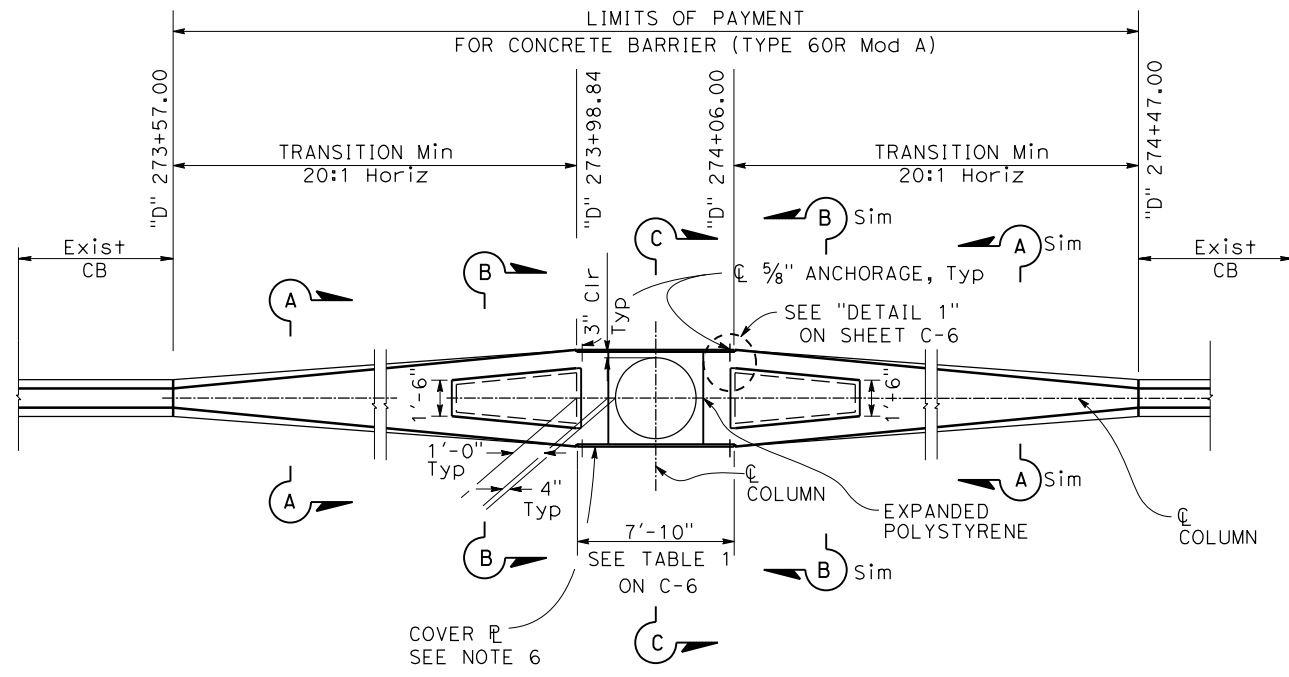
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT - FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED-DESIGNED BY: CHECKED BY:  
 JOSE CORONEL: DANIEL HO  
 REVISED BY: DATE REVISED: 9-15-22  
 JC: 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	16	136

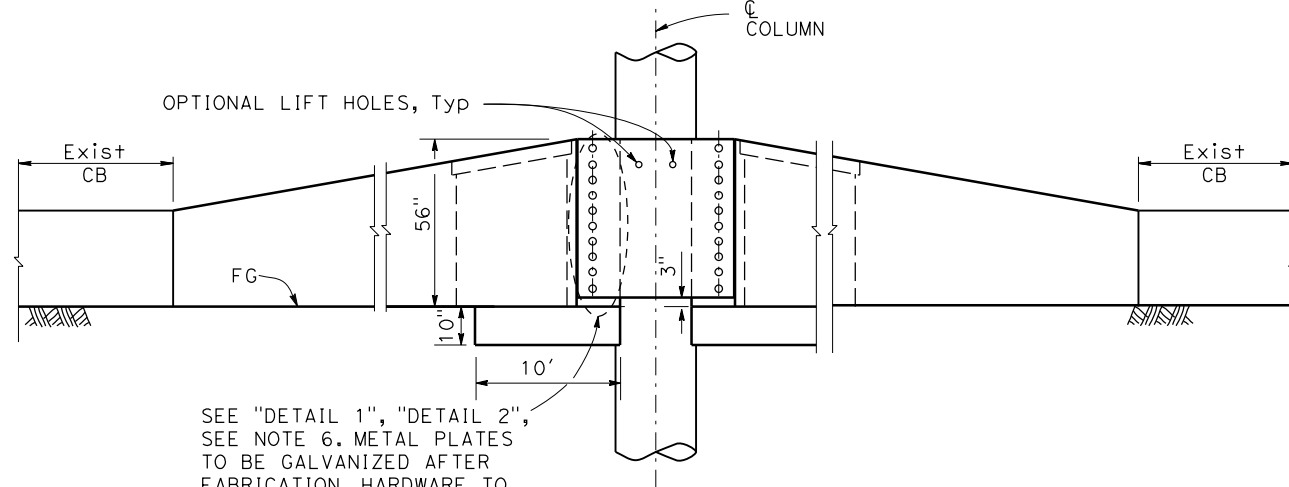
REGISTERED CIVIL ENGINEER DATE: 9-15-22  
 PLANS APPROVAL DATE: 9-30-22  
**DANIEL HO**  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

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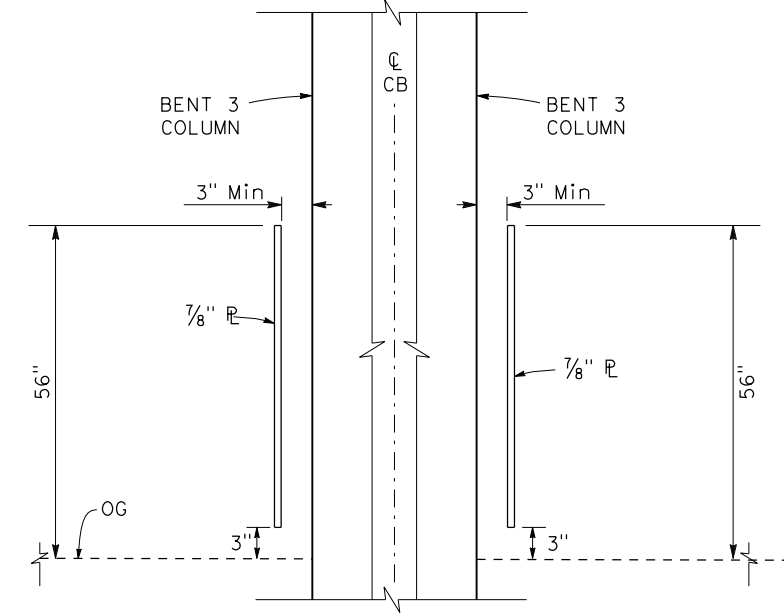
CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303



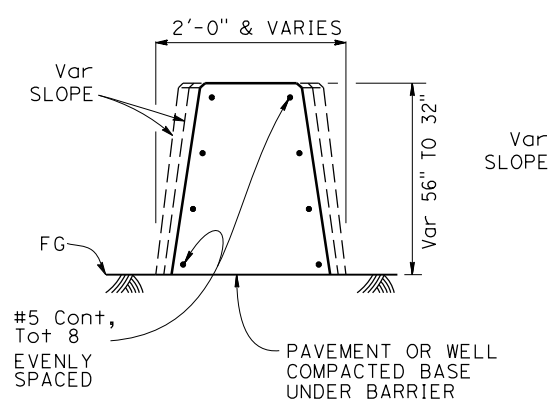
PLAN  
 CB (TYPE 60R Mod A)  
 ("D" 274+01.93)



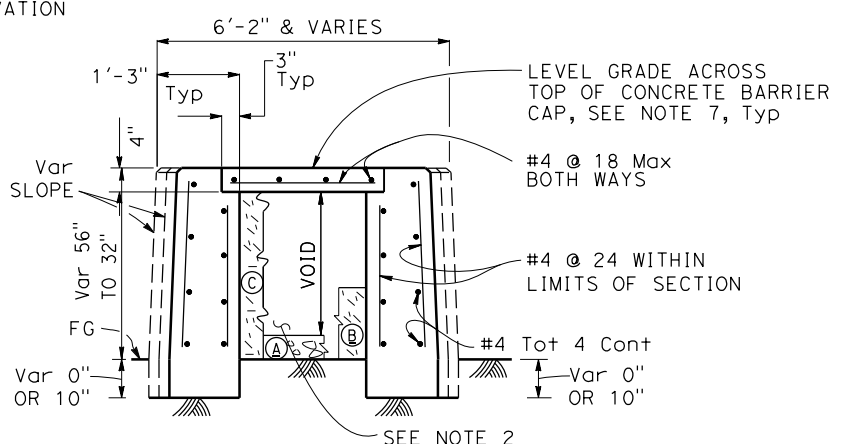
ELEVATION  
 CB (TYPE 60R Mod A)



SECTION C-C



SECTION A-A



SECTION B-B

NOTES:

- REINFORCING STEEL SHALL EXTEND CONTINUOUS THROUGH CONSTRUCTION JOINTS.
- CONTRACTOR OPTIONS FOR FILL BETWEEN CONCRETE BARRIER WALLS:  
 A. PLACE 4" PCC AT BASE BETWEEN CONCRETE BARRIER WALLS.  
 B. PLACE 1'-0" OF GRANULAR MATERIAL AT BASE BETWEEN WALLS.  
 C. PLACE GRANULAR MATERIAL FROM BASE TO BOTTOM OF 4" CAP.  
 D. MONOLITHIC CONCRETE WITH FOAM BLOCKOUTS IS NOT PERMITTED.
- SEE STANDARD PLAN A76E, CONCRETE BARRIER TYPE 60MG END ANCHORAGE DETAIL FOR REINFORCING STEEL.
- FOR DETAIL 1, DETAIL 2 AND TABLE 1 SEE SHEET C-6.

**CONSTRUCTION DETAILS**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	17	136

REGISTERED CIVIL ENGINEER	DATE
DANIEL HO	9-15-22
PLANS APPROVAL DATE	
9-30-22	

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--	--

**NOTE:**


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

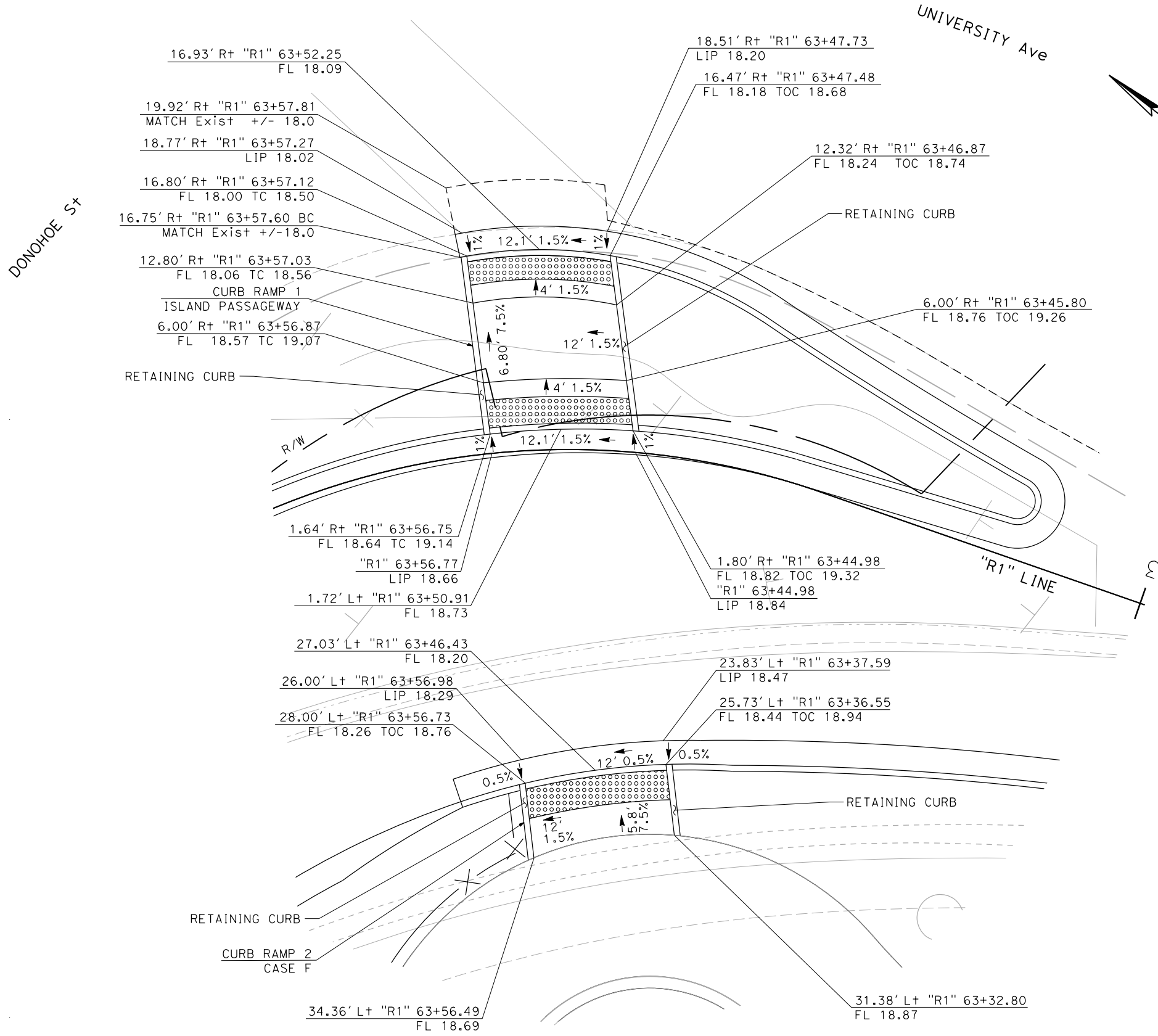
**LEGEND:**

 DETECTABLE WARNING SURFACE

**ABBREVIATIONS:**

BKSW BACK OF SIDEWALK  
TOC TOP OF CURB

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
	HOWARD MICHAEL	CHECKED BY	JOSE CORONEL	9-15-22
			DANIEL HO	



**CONSTRUCTION DETAILS AND PAVEMENT ELEVATIONS**  
SCALE 1" = 10'

**C-8**

LAST REVISION DATE PLOTTED => 10/26/2022 9-15-22 TIME PLOTTED => 1:49:02 PM

**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	SM	101	0.8/1.1	18	136

9-15-22  
REGISTERED CIVIL ENGINEER DATE

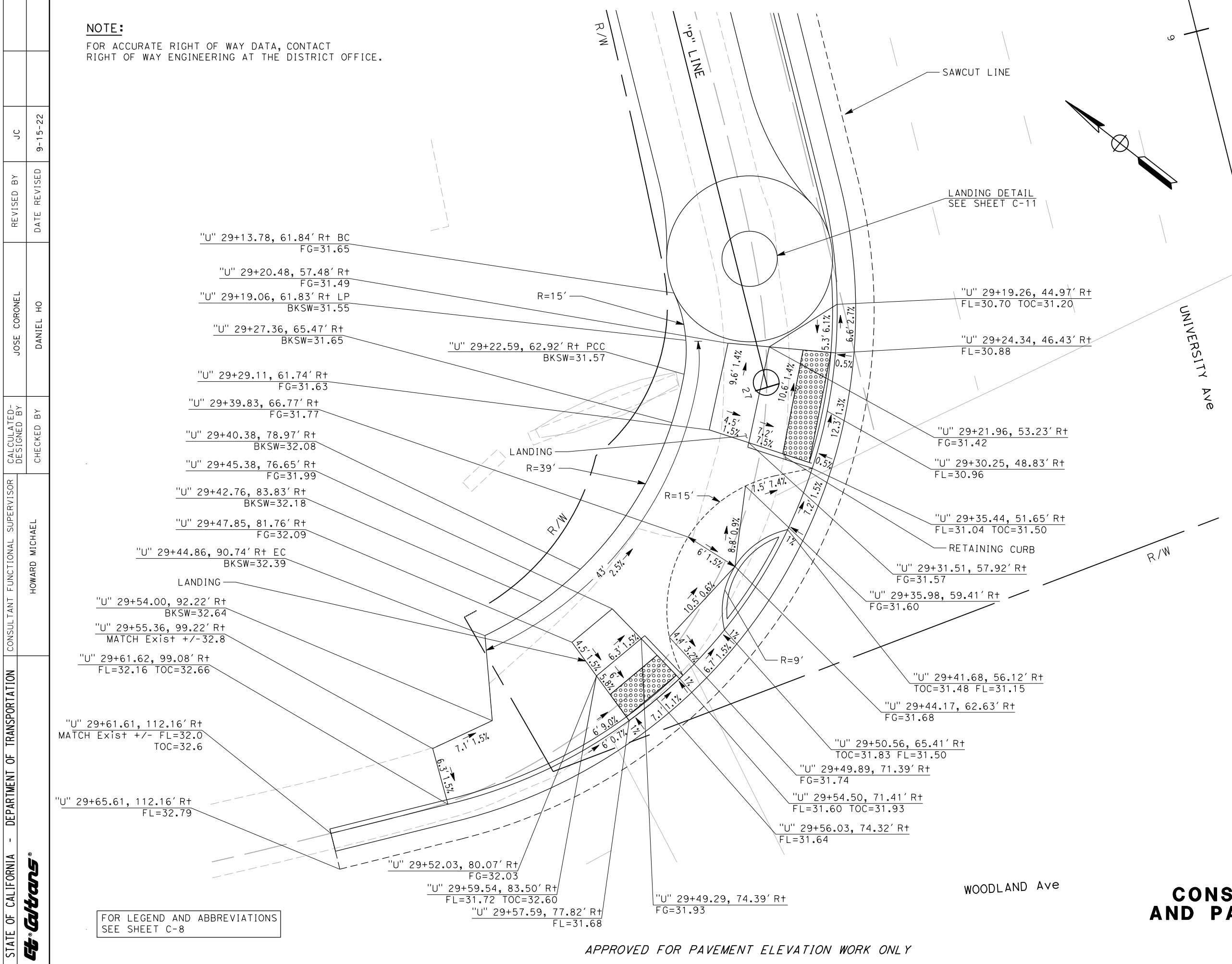
9-30-22  
PLANS APPROVAL DATE

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

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CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
Howard Michael	Howard Michael	Daniel Ho	Jose Coronel	9-15-22

FOR LEGEND AND ABBREVIATIONS SEE SHEET C-8

**CONSTRUCTION DETAILS AND PAVEMENT ELEVATIONS**  
SCALE 1" = 10'

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY	JC
Howard Michael	Howard Michael	Jose Coronel	Jose Coronel	9-15-22
Ettrans	Checked By	Checked By	Checked By	Checked By
	Daniel Ho	Daniel Ho	Daniel Ho	Daniel Ho

**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	SM	101	0.8/1.1	19	136

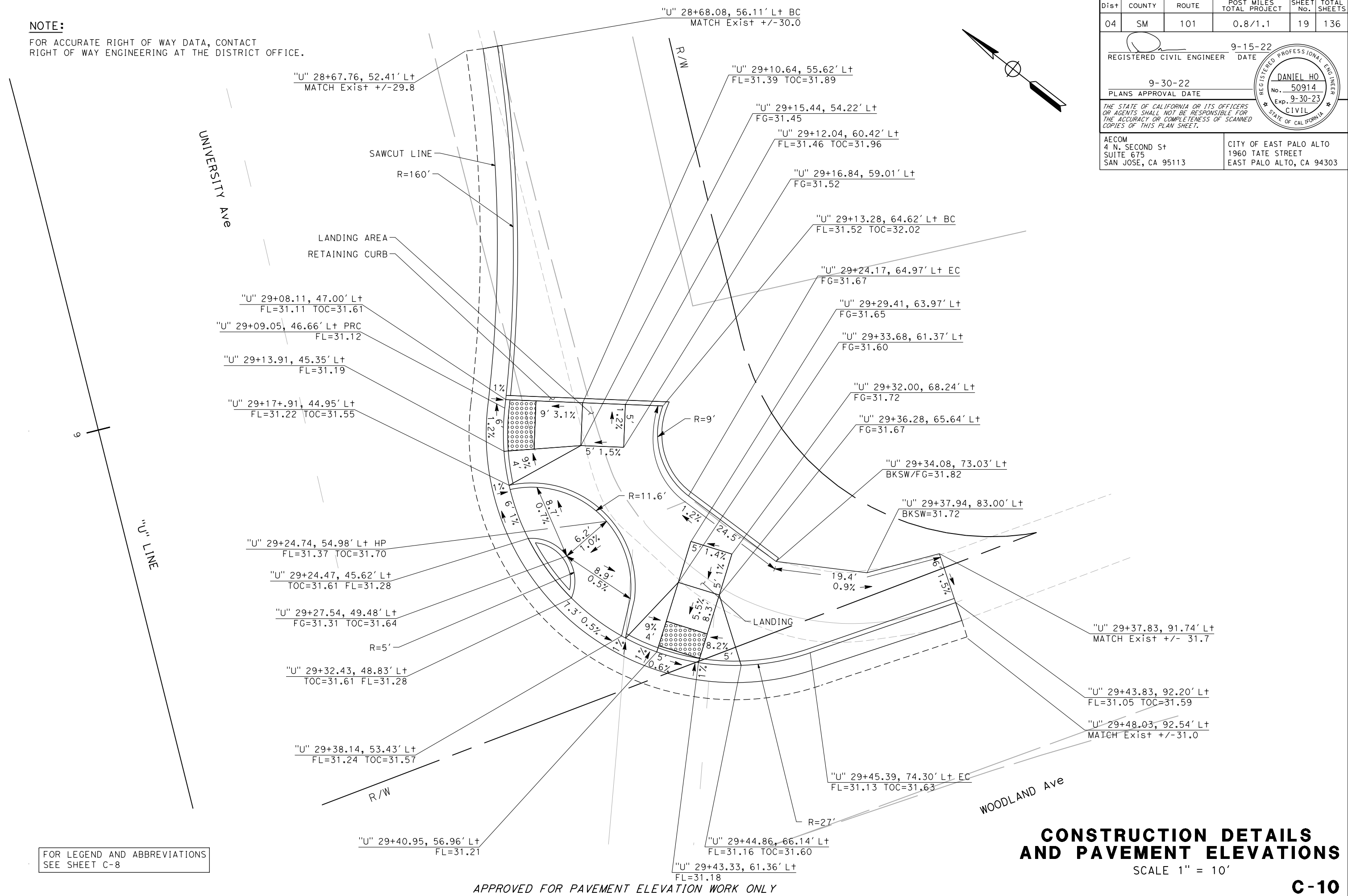
REGISTERED CIVIL ENGINEER DATE 9-15-22

PLANS APPROVAL DATE 9-30-22

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

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SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



**CONSTRUCTION DETAILS  
AND PAVEMENT ELEVATIONS**  
SCALE 1" = 10'

**C-10**

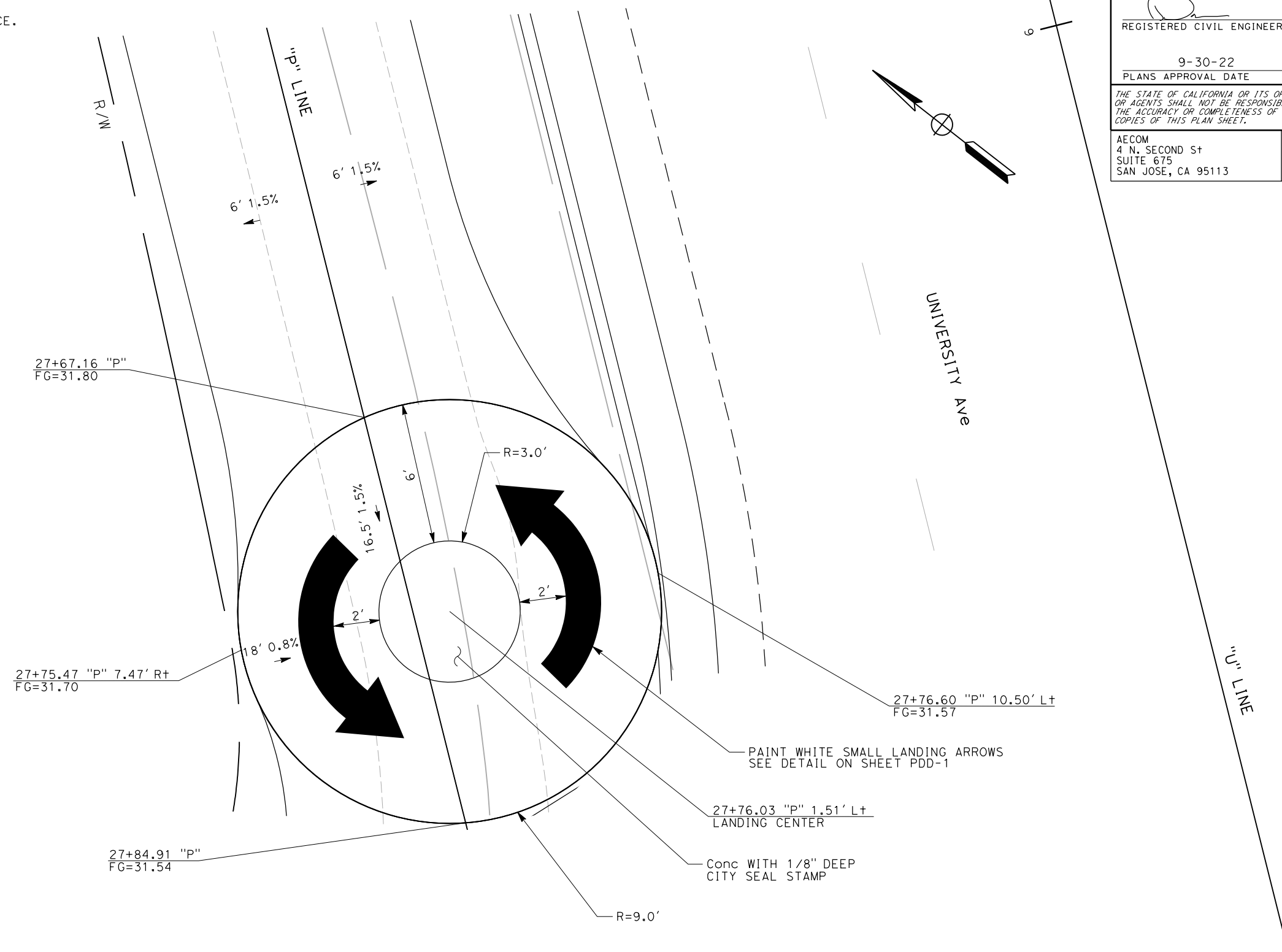
FOR LEGEND AND ABBREVIATIONS  
SEE SHEET C-8

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

DATE PLOTTED => 10/26/2022  
TIME PLOTTED => 1:51:12 PM  
LAST REVISION 9-15-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY	JC
<b>Caltrans</b>	HOWARD MICHAEL	CHECKED BY	DATE REVISED	9-15-22
			JOSE CORONEL	
			DANIEL HO	

**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	SM	101	0.8/1.1	20	136
			9-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	PLANS APPROVAL DATE	
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

FOR LEGEND AND ABBREVIATIONS  
SEE SHEET C-8

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

**CONSTRUCTION DETAILS  
AND PAVEMENT ELEVATIONS**  
SCALE 1" = 5'

**C-11**

LAST REVISION: DATE PLOTTED => 10/26/2022 9-15-22 TIME PLOTTED => 1:52:34 PM

**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	SM	101	0.8/1.1	21	136

REGISTERED CIVIL ENGINEER DATE 9-15-22

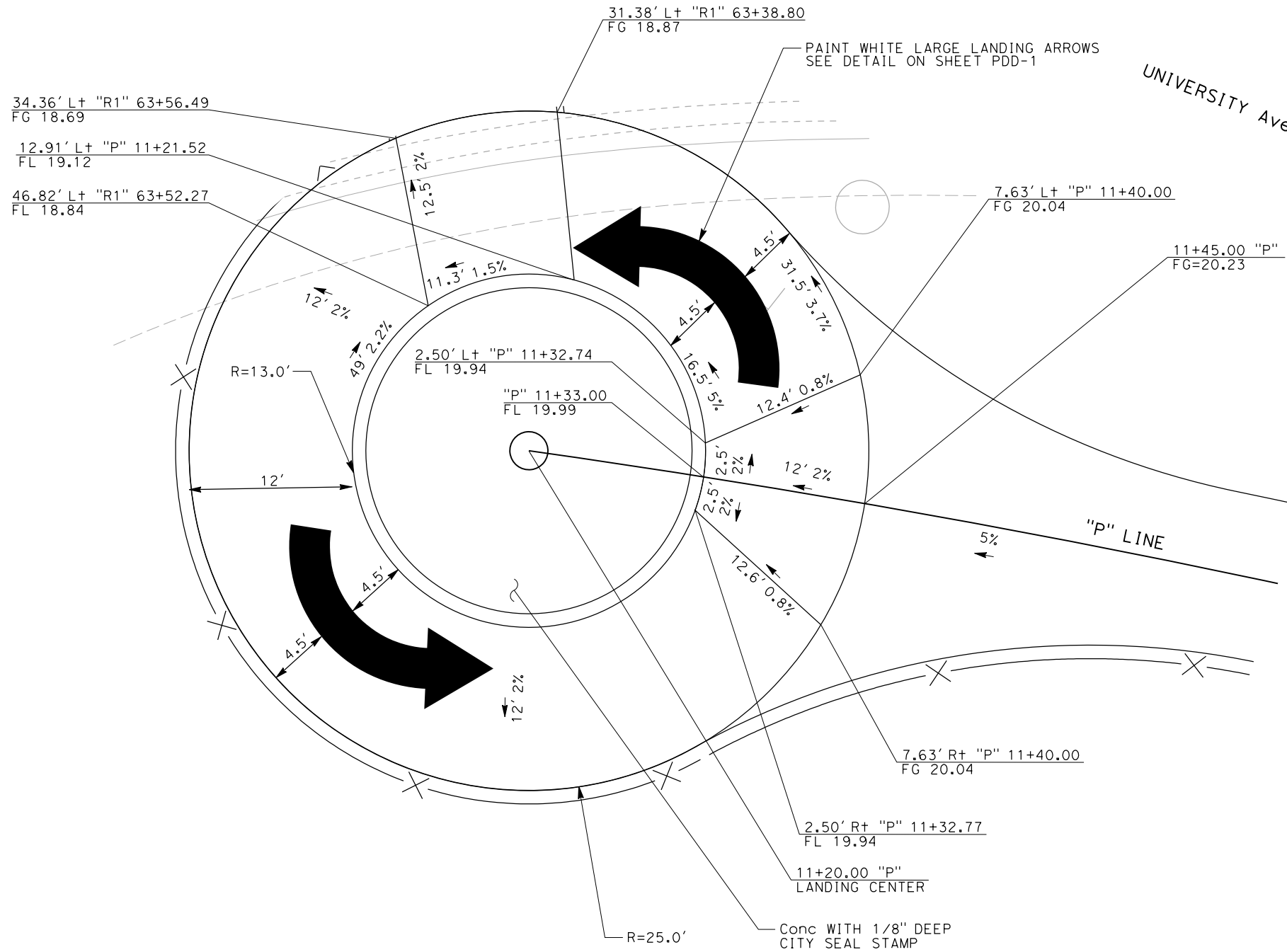
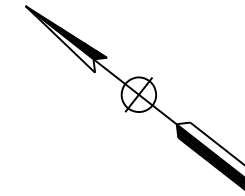
PLANS APPROVAL DATE 9-30-22

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

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CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



**CONSTRUCTION DETAILS AND PAVEMENT ELEVATIONS**  
SCALE 1" = 5'

**C-12**

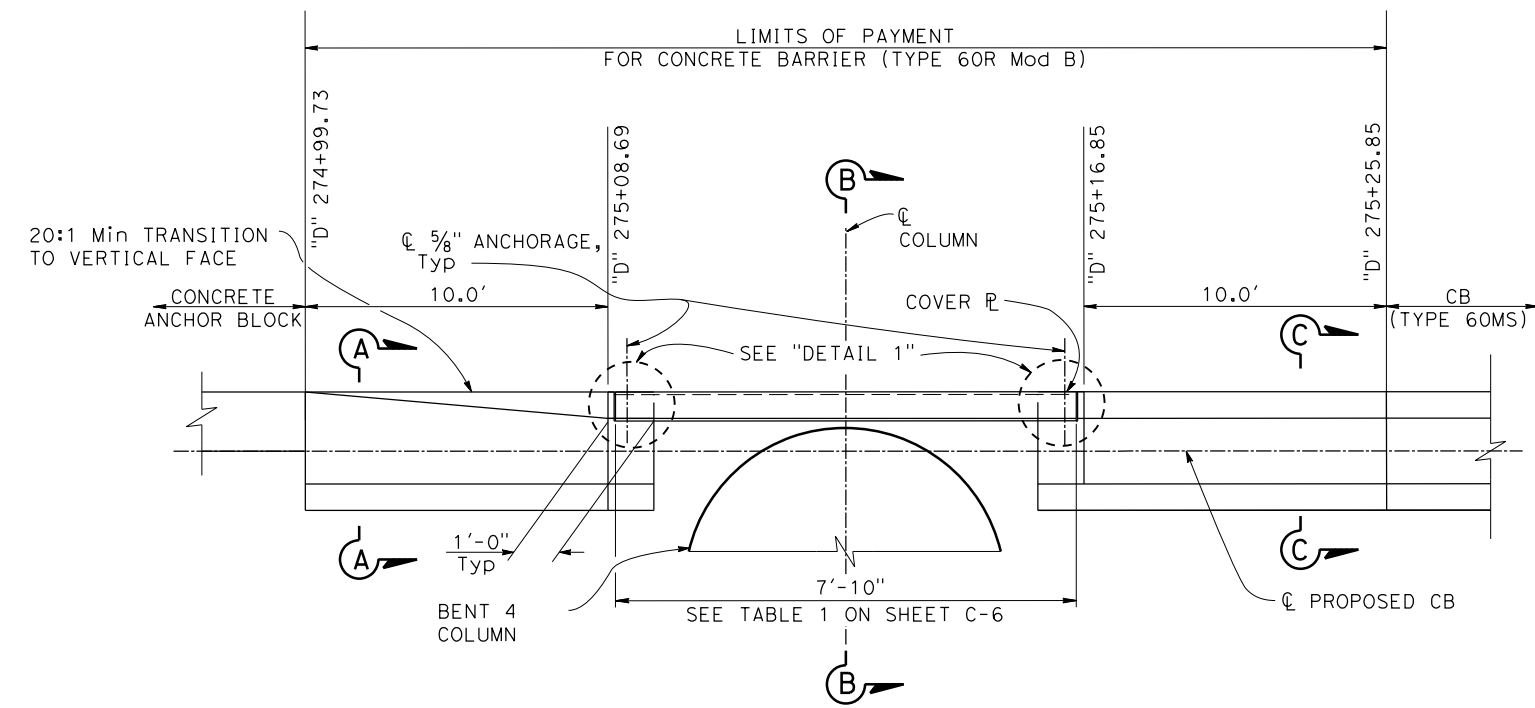
FOR LEGEND AND ABBREVIATIONS SEE SHEET C-8

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HOWARD MICHAEL	CONSULTANT FUNCTIONAL SUPERVISOR	HOWARD MICHAEL	DESIGNED BY	JOSE CORONEL	REVISOR	JOSE CORONEL	DATE	9-15-22	BY	JC
Caltrans				CHECKED BY	DANIEL HO	DATE REVISOR	DANIEL HO				

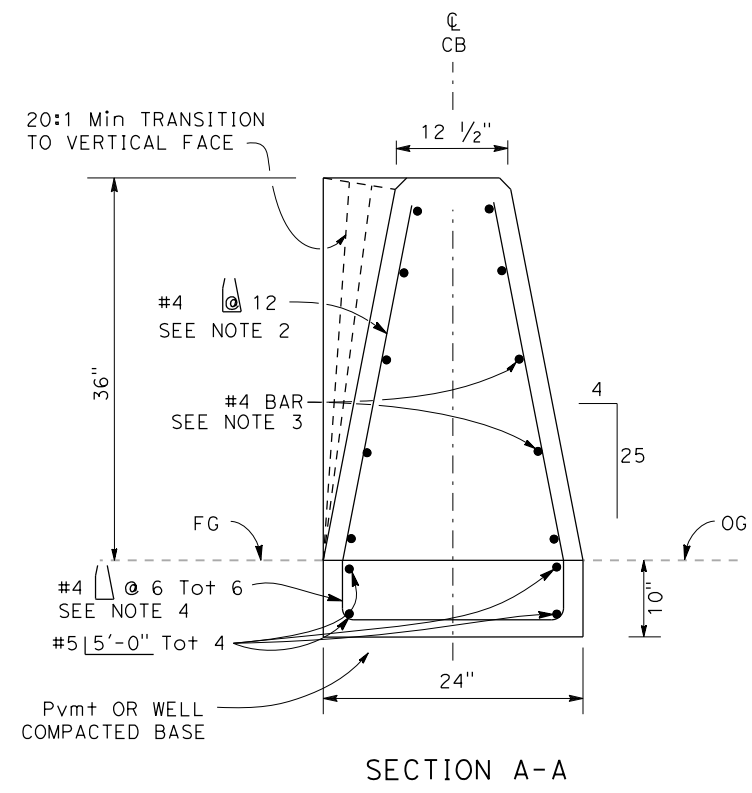
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TIME PLOTTED => 1:53:15 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	22	136
			9-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	PLANS APPROVAL DATE	
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

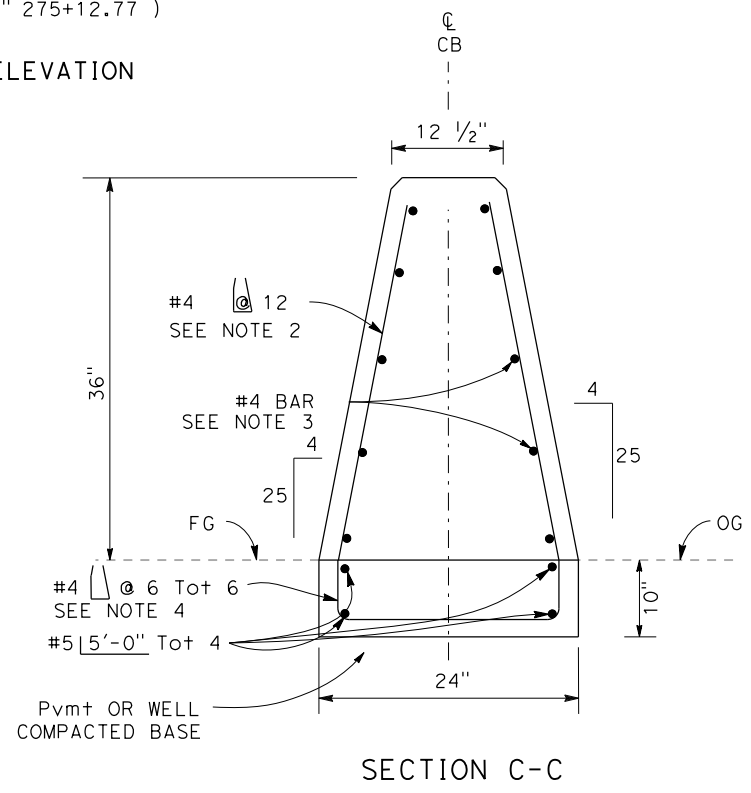


PLAN  
 CB (TYPE 60R Mod B)  
 ("D" 275+12.77)

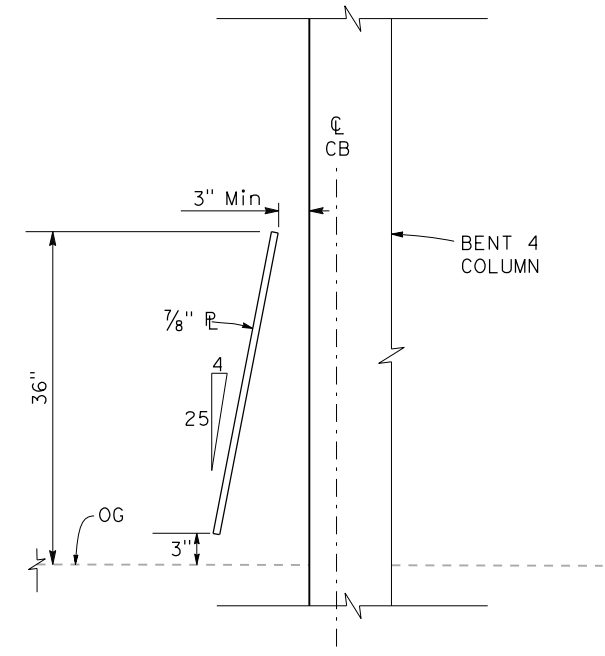
ELEVATION



SECTION A-A



SECTION C-C



SECTION B-B

**NOTES:**

- FOR DETAILS NOT SHOWN SEE S+D PLAN A76G.
- REINFORCING STEEL SHALL EXTEND CONTINUOUS THROUGH CONSTRUCTION JOINTS.
- SEE REVISED S+D PLAN RSP A76H, CONCRETE BARRIER TYPE 60MS END ANCHORAGE DETAIL FOR REINFORCING STEEL.
- FOR DETAIL 1, DETAIL 2, AND TABLE 1 SEE SHEET C-6.
- FOR CONCRETE ANCHOR BLOCK, SEE DETAIL A ON SHEET C-6.

**CONSTRUCTION DETAILS**




STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
Howard Michael	Jose Coronel	JC	9-15-22
Checked by	Designed by	Revised by	Checked by
	Howard Michael	Daniel Ho	Daniel Ho

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
Howard Michael	Howard Michael	Jose Coronel	9-15-22
Caltrans	Checked By	Revised By	Date Revised
	Daniel Ho	Daniel Ho	9-15-22

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- DRAINAGE INLET PROTECTION (SEE STD PLANS T61, T62, T63, T64) LOCATION AND TYPE TO BE DETERMINED BY CONTRACTOR AND VERIFIED BY THE ENGINEER
- TEMPORARY CONCRETE WASHOUT AND TEMPORARY CONSTRUCTION ENTRANCE LOCATION TO BE DETERMINED BY CONTRACTOR AND VERIFIED BY THE ENGINEER

**LEGEND:**

-  TEMPORARY DRAINAGE INLET PROTECTION, SEE NOTE 2
-  TEMPORARY FIBER ROLL
-  TEMPORARY REINFORCED SILT FENCE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	23	136

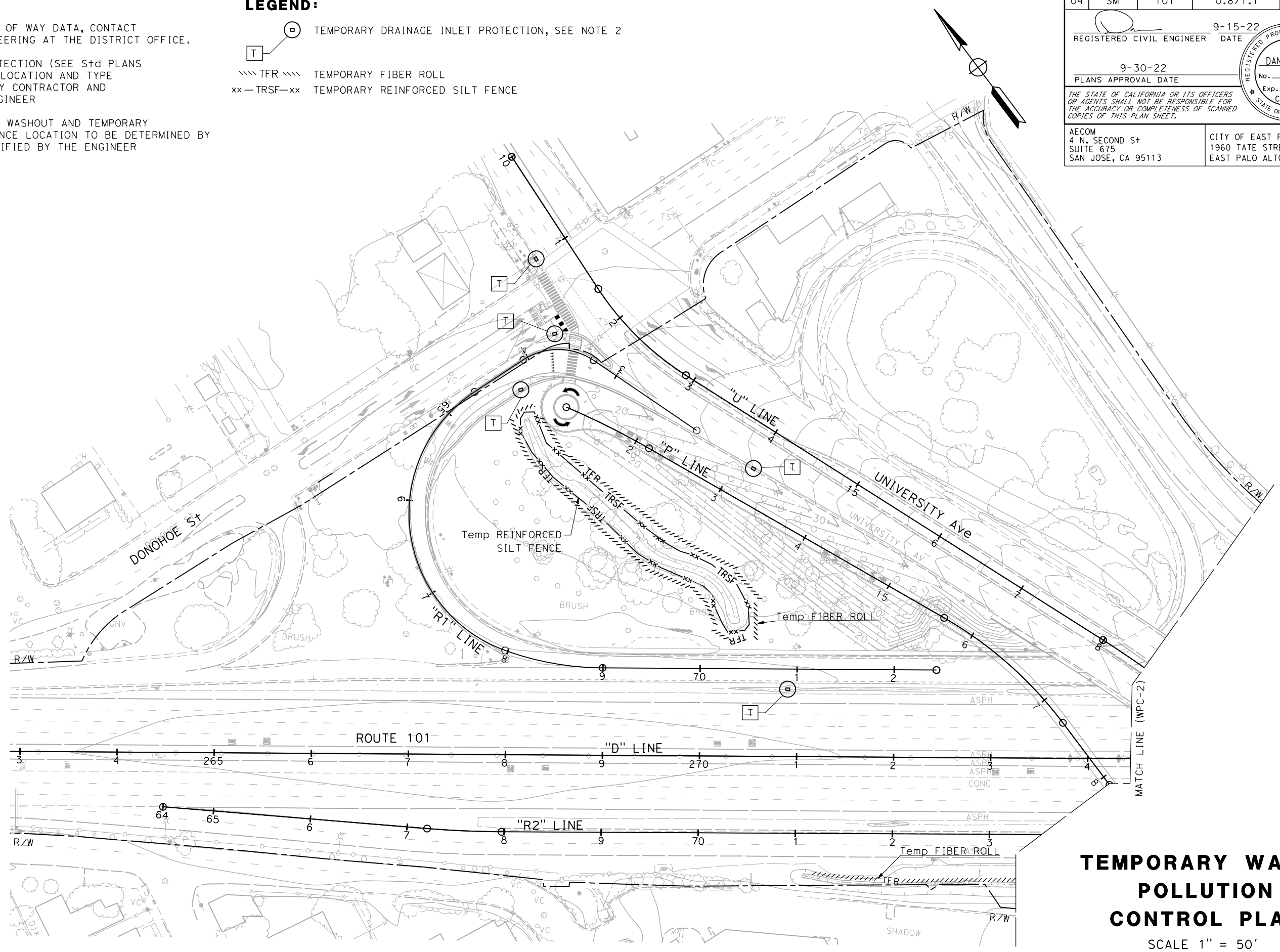
9-15-22  
REGISTERED CIVIL ENGINEER DATE

9-30-22  
PLANS APPROVAL DATE

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

AECOM  
4 N. SECOND ST  
SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



**TEMPORARY WATER POLLUTION CONTROL PLAN**

SCALE 1" = 50'

**WPC-1**

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

LAST REVISION DATE PLOTTED => 10/26/2022 TIME PLOTTED => 1:57:38 PM 9-15-22

**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	SM	101	0.8/1.1	24	136

REGISTERED CIVIL ENGINEER DATE 9-15-22

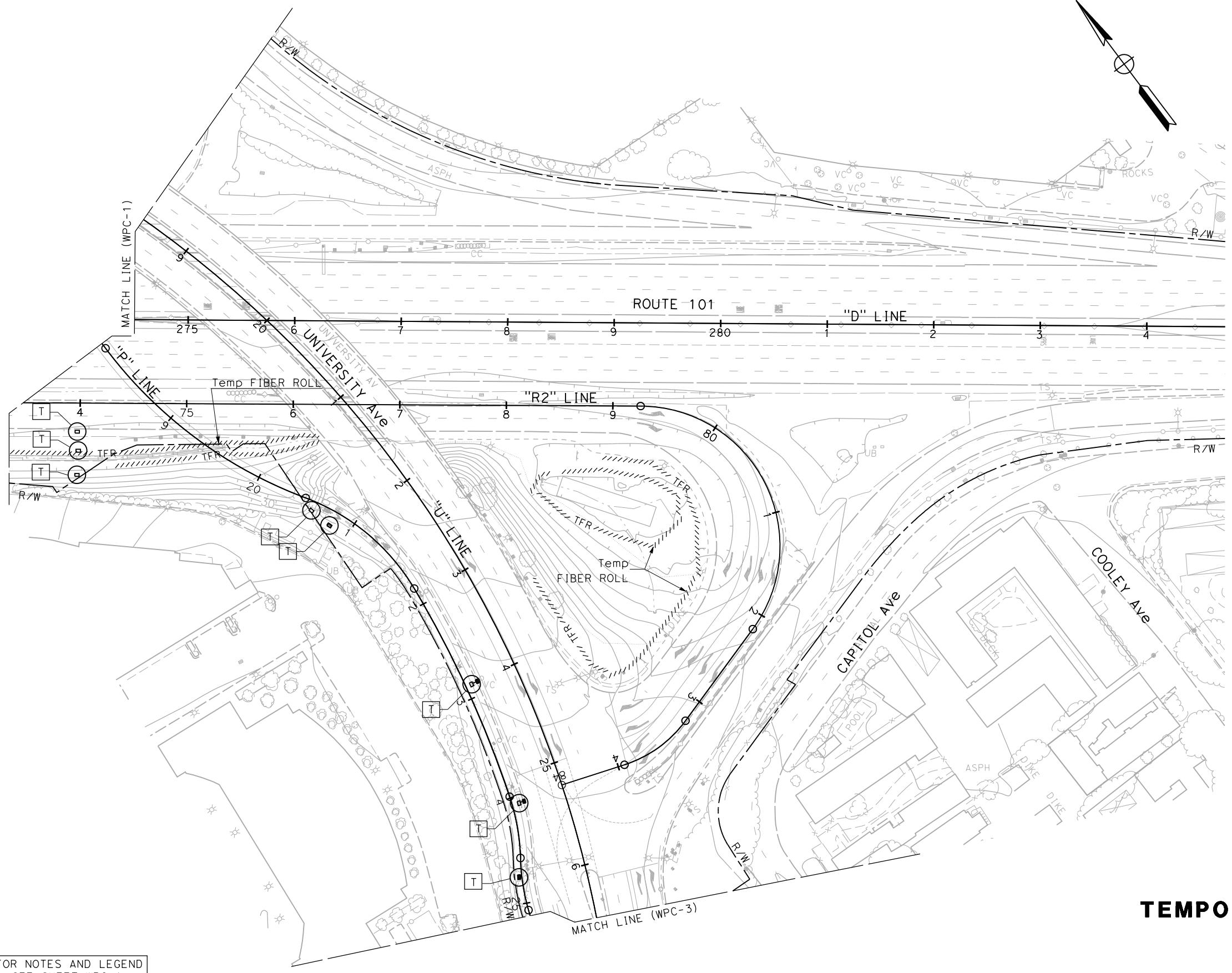
PLANS APPROVAL DATE 9-30-22

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

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1960 TATE STREET  
EAST PALO ALTO, CA 94303



**TEMPORARY WATER POLLUTION CONTROL PLAN**  
SCALE 1" = 50'

FOR NOTES AND LEGEND  
SEE SHEET WPC-1

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

REVISOR: JC  
DATE: 9-15-22

REVISOR: JOSE CORONEL  
DATE: 9-15-22

DESIGNER: JOSE CORONEL  
CHECKER: DANIEL HO

DESIGNED BY: JOSE CORONEL  
CHECKED BY: DANIEL HO

SUPERVISOR: HOWARD MICHAEL

PROJECT NUMBER & PHASE: 04000007591

USERNAME => jose.coronel  
DGN FILE => 04000007591gb002.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0703

PROJECT NUMBER & PHASE

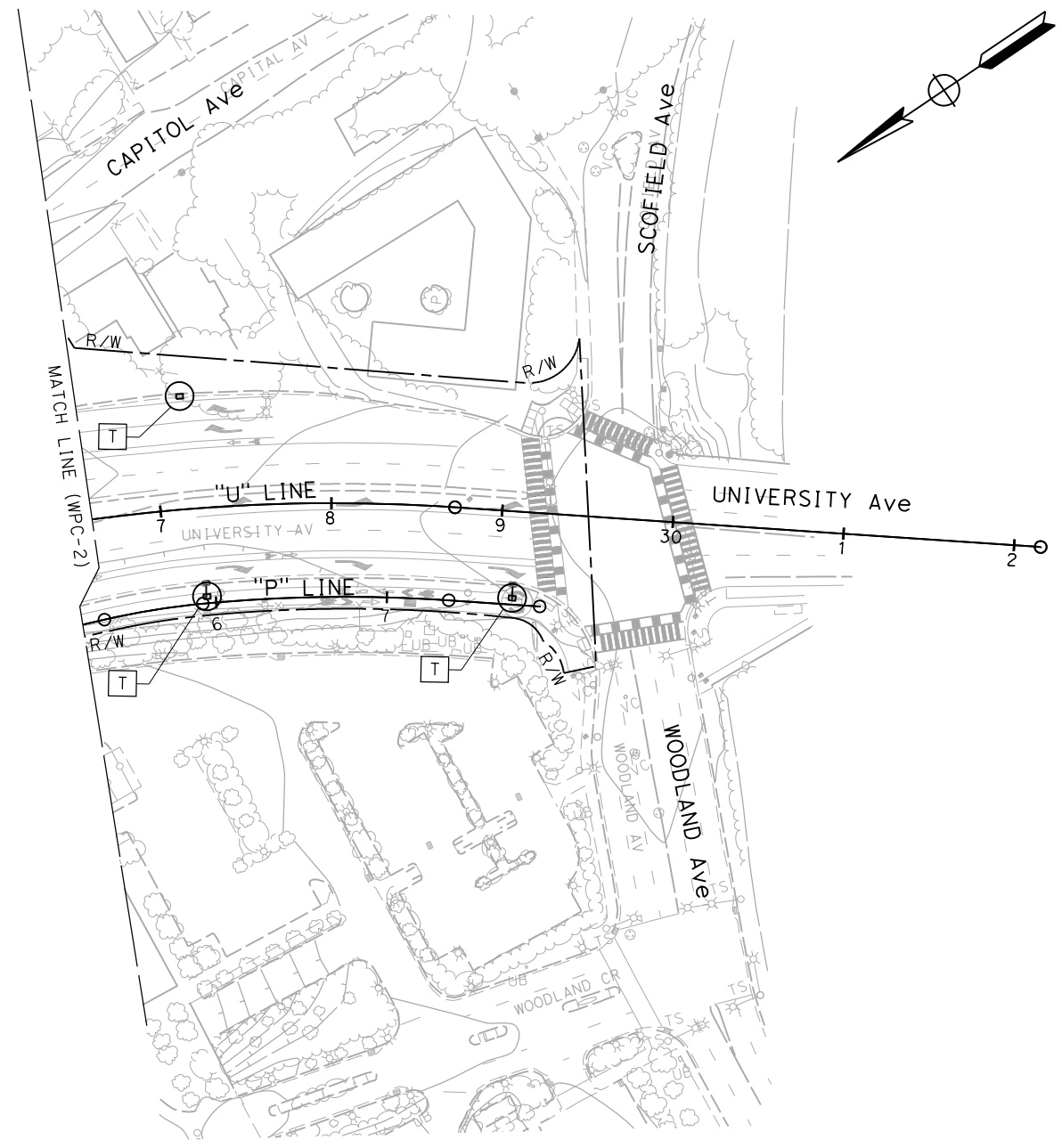
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LAST REVISION: 9-15-22  
DATE PLOTTED => 10/26/2022  
TIME PLOTTED => 1:58:49 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	JOSE CORONEL	REVISED BY	JC
<b>Caltrans</b>	HOWARD MICHAEL	CHECKED BY	DANIEL HO	DATE REVISED	9-15-22

**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	SM	101	0.8/1.1	25	136
			REGISTERED CIVIL ENGINEER	DATE	9-15-22
			PLANS APPROVAL DATE	DATE	9-30-22
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



FOR NOTES AND LEGEND  
SEE SHEET WPC-1

# TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE 1" = 50'

**WPC-3**

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

LAST REVISION  
9-15-22  
DATE PLOTTED => 10/26/2022  
TIME PLOTTED => 2:00:22 PM



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: JOSE CORONEL  
 CHECKED BY: DANIEL HO  
 REVISED BY: JC  
 DATE REVISED: 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	26	136

9-15-22  
 REGISTERED CIVIL ENGINEER DATE  
 9-30-22  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

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CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

### TEMPORARY WATER POLLUTION CONTROL QUANTITIES

SHEET No.	TEMPORARY FIBER ROLL	TEMPORARY REINFORCED SILT FENCE	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY CONCRETE WASHOUT
	LF	LF	EA	EA	EA
WPC-1	730	705	1	5	2
WPC-2	1242		1	8	2
WPC-3			1	3	1
<b>TOTAL</b>	1972	705	3	16	5

### TEMPORARY WATER POLLUTION CONTROL QUANTITIES

**WPCQ-1**

LAST REVISION | DATE PLOTTED => 10/26/2022 | TIME PLOTTED => 2:00:52 PM  
 9-15-22

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

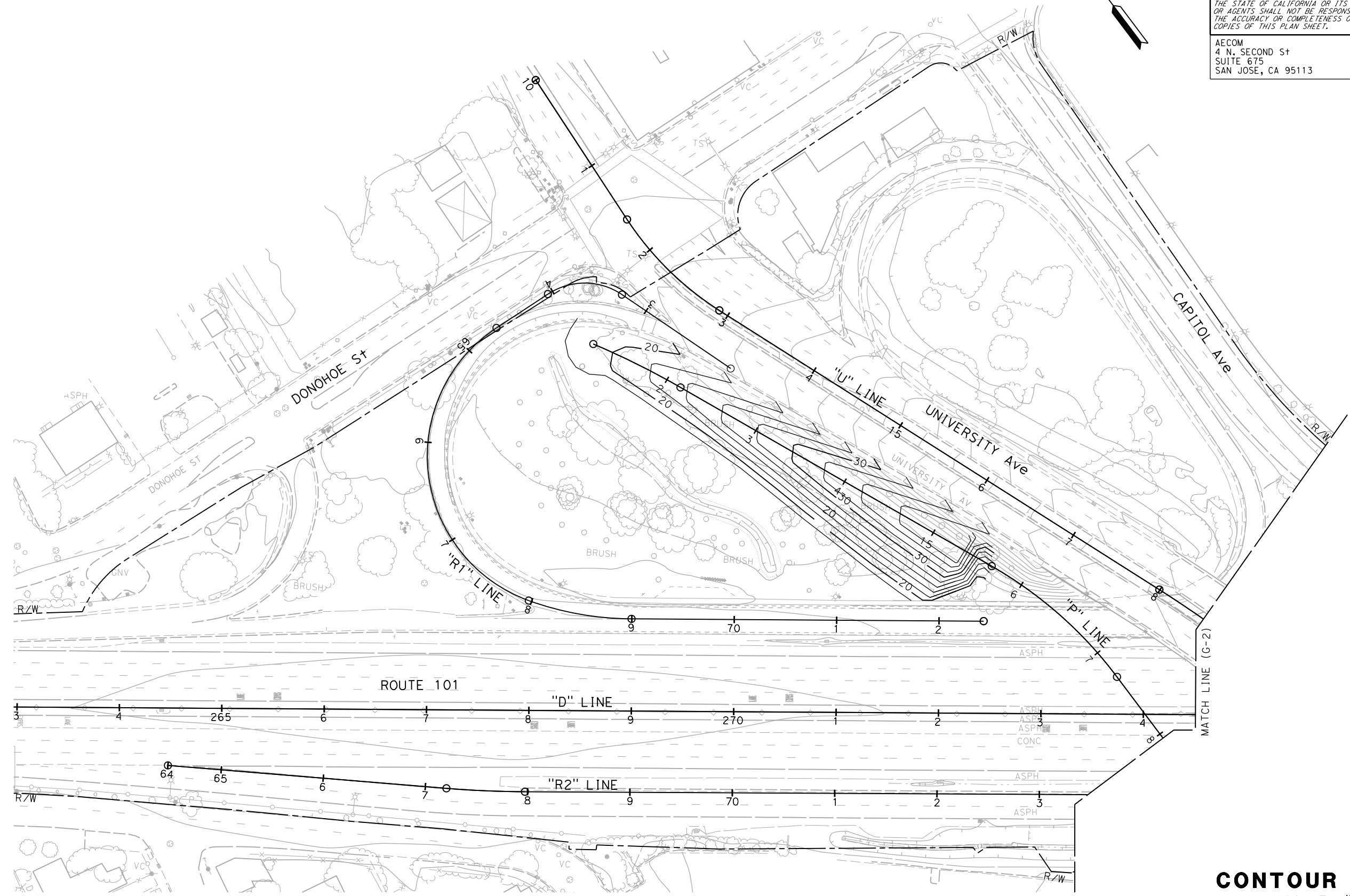
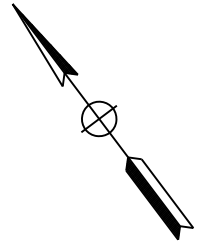
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	27	136

REGISTERED CIVIL ENGINEER	DATE
DANIEL HO	9-15-22
No. 50914	
Exp. 9-30-23	
CIVIL	
STATE OF CALIFORNIA	

PLANS APPROVAL DATE	9-30-22
AECOM 4 N. SECOND St SUITE 675 SAN JOSE, CA 95113	
CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303	



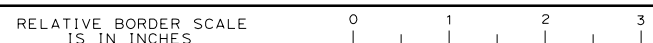
**CONTOUR GRADING**  
 SCALE 1" = 50'

APPROVED FOR CONTOUR GRADING WORK ONLY

**G-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HOWARD MICHAEL	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	JOSE CORONEL	REVISOR	JC
Caltrans			DESIGNED BY	DANIEL HO	DATE	9-15-22

USERNAME => jose.coronel  
 DGN FILE => 04000007591ha001.dgn



UNIT 0703

PROJECT NUMBER & PHASE

04000007591

BORDER LAST REVISED 8/1/2016

DATE PLOTTED => 10/26/2022  
 TIME PLOTTED => 2:58:10 PM

**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	SM	101	0.8/1.1	28	136

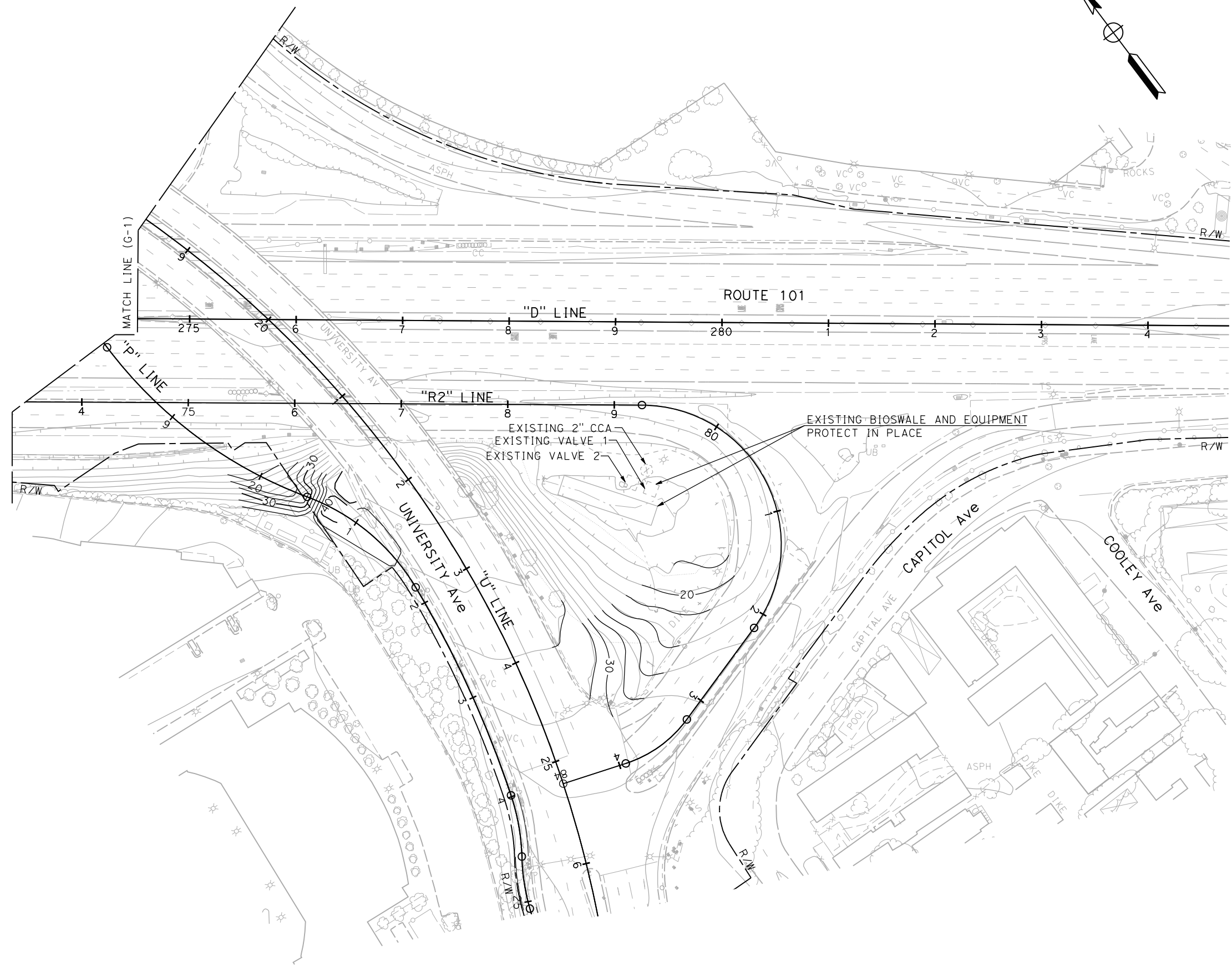
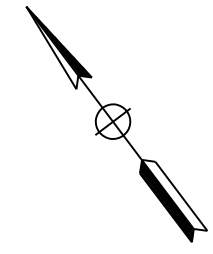
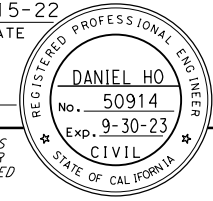
REGISTERED CIVIL ENGINEER DATE 9-15-22

PLANS APPROVAL DATE 9-30-22

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CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY	JC
<b>Caltrans</b>	HOWARD MICHAEL	CHECKED BY	DATE REVISED	9-15-22
			JOSE CORONEL	
			DANIEL HO	

APPROVED FOR CONTOUR GRADING WORK ONLY

**CONTOUR GRADING**  
 SCALE 1" = 50'

**G-2**

LAST REVISION DATE PLOTTED => 10/26/2022 9-15-22 TIME PLOTTED => 2:59:29 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	29	136

REGISTERED CIVIL ENGINEER	DATE	9-15-22
PLANS APPROVAL DATE		
9-30-22		

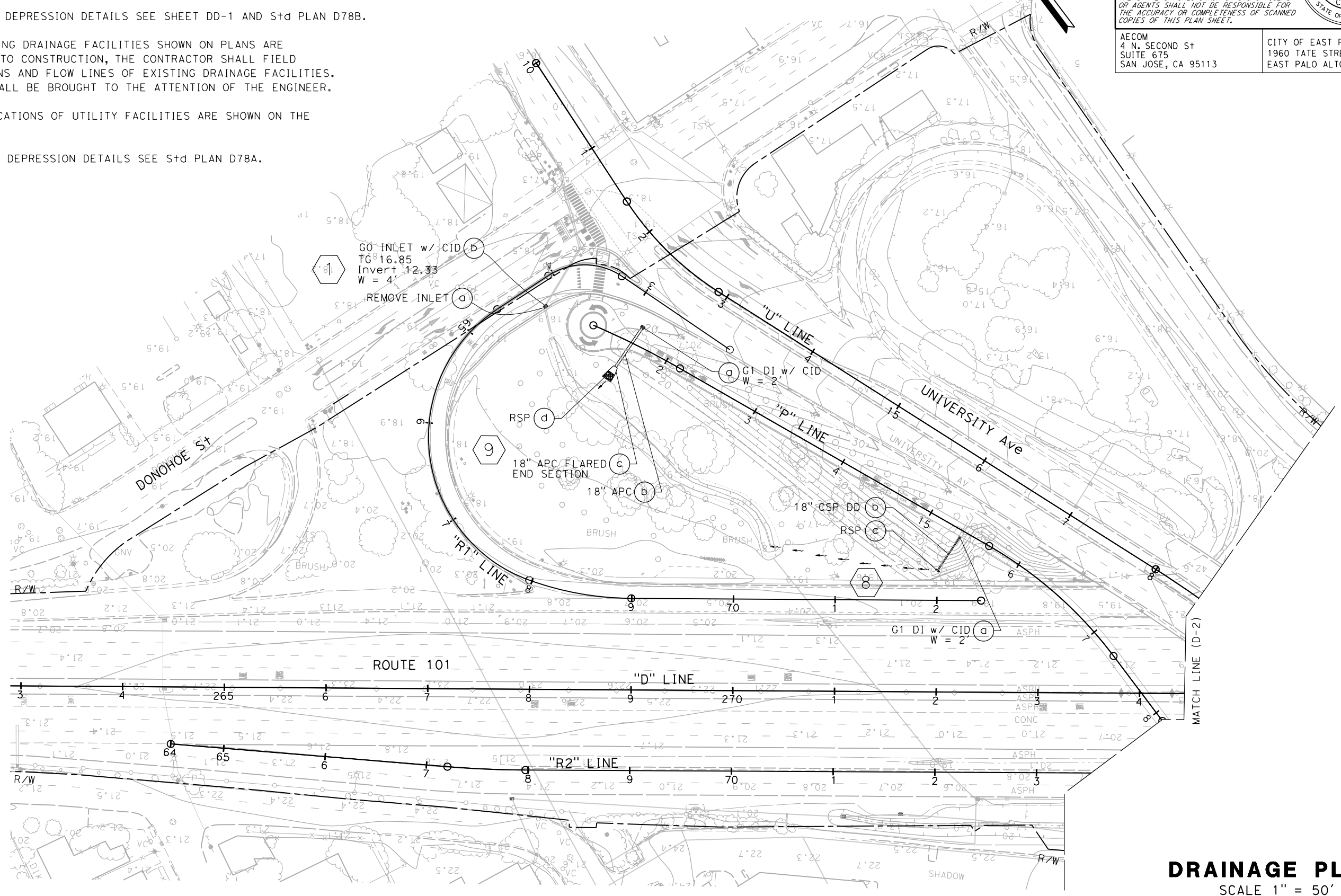
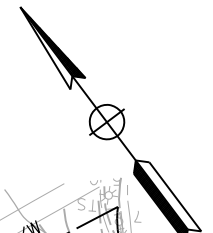
REGISTERED PROFESSIONAL ENGINEER <b>DANIEL HO</b> No. 50914 Exp. 9-30-23 CIVIL STATE OF CALIFORNIA	
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- STATION AND OFFSET REFERENCE LOCATIONS FOR DRAINAGE STRUCTURES ARE SHOWN ON DRAINAGE PROFILES.
- FOR CONCRETE INLET DEPRESSION DETAILS SEE SHEET DD-1 AND S+d PLAN D78B.
- LOCATIONS OF EXISTING DRAINAGE FACILITIES SHOWN ON PLANS ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND FLOW LINES OF EXISTING DRAINAGE FACILITIES. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- INFORMATION AND LOCATIONS OF UTILITY FACILITIES ARE SHOWN ON THE UTILITY PLANS.
- FOR STANDARD GUTTER DEPRESSION DETAILS SEE S+d PLAN D78A.

**ABBREVIATIONS:**

CID CONCRETE INLET DEPRESSION  
 SGD STANDARD GUTTER DEPRESSION



**DRAINAGE PLAN**  
 SCALE 1" = 50'

**D-1**

APPROVED FOR DRAINAGE WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>Caltrans</b>	HOWARD MICHAEL	JOSE CORONEL	9-15-22
	CHECKED BY	REVISOR	DATE
	DANIEL HO	DANIEL HO	9-15-22

LAST REVISION => 10/26/2022  
 DATE PLOTTED => 10/26/2022  
 TIME PLOTTED => 2:43:59 PM

**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	SM	101	0.8/1.1	30	136

REGISTERED CIVIL ENGINEER DATE 9-15-22

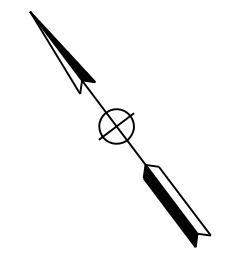
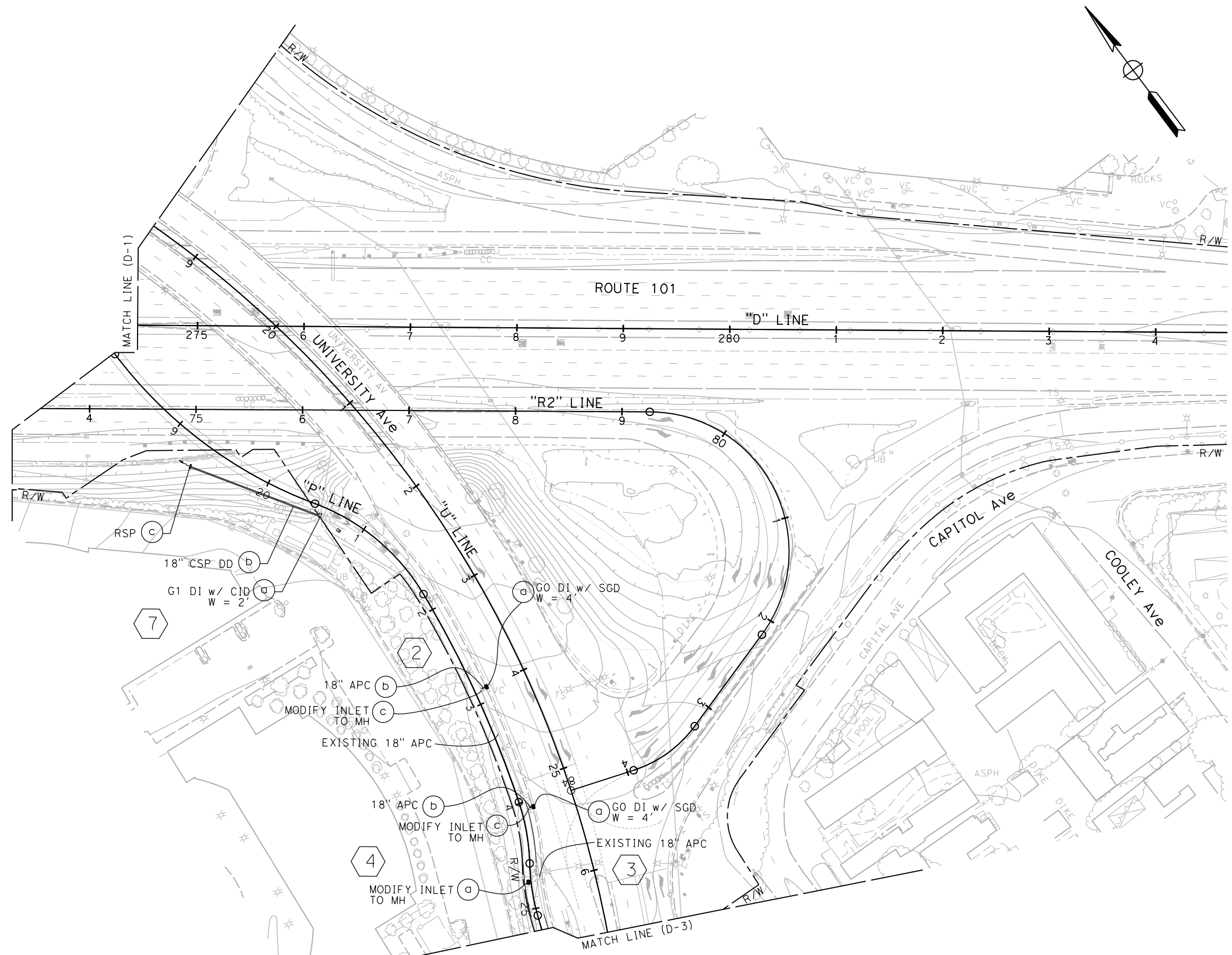
PLANS APPROVAL DATE 9-30-22

DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

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 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303



FOR NOTES AND ABBREVIATIONS  
 SEE SHEET D-1

**DRAINAGE PLAN**  
 SCALE 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

**D-2**

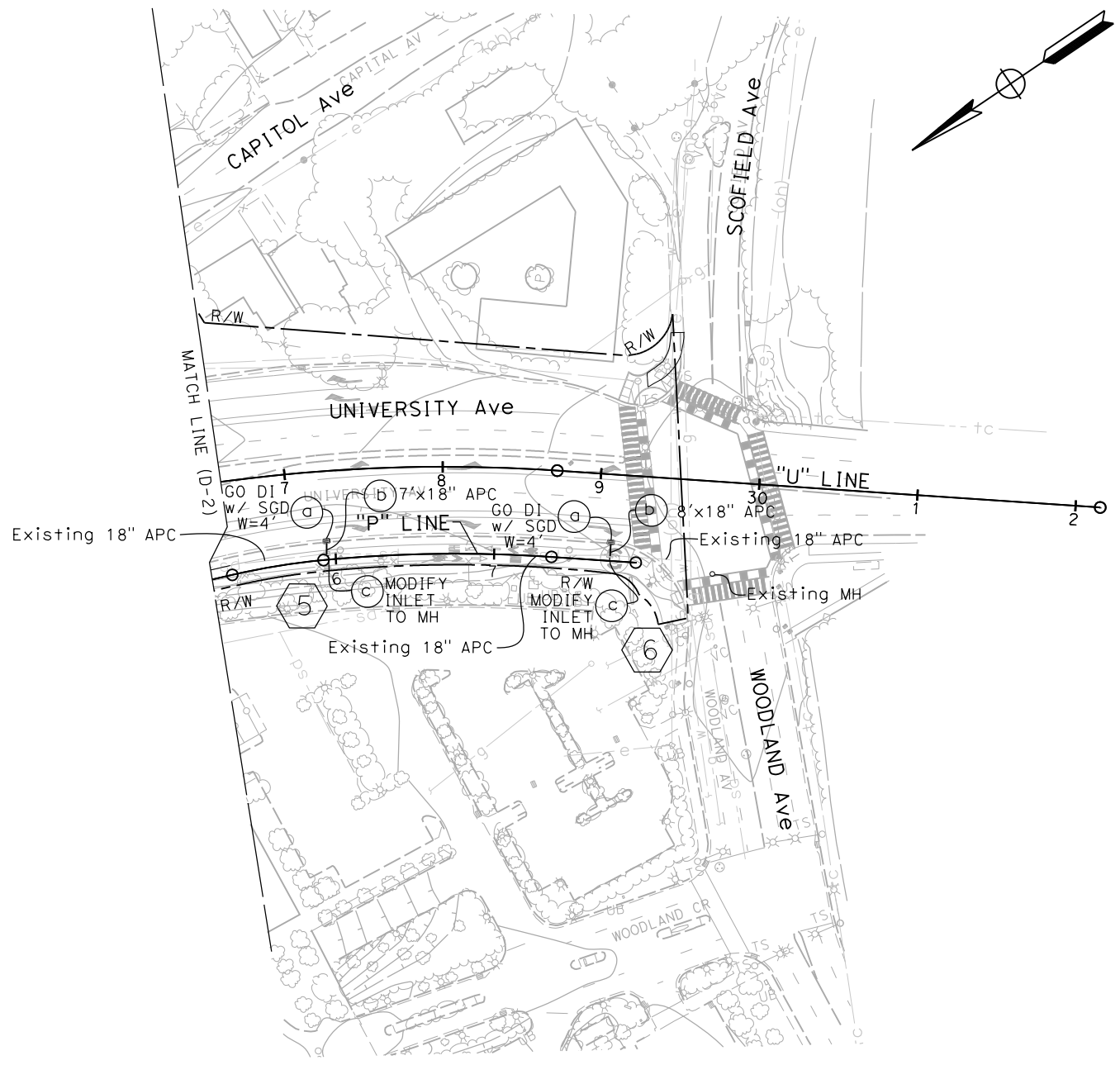
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HOWARD MICHAEL	JOSE CORONEL	JC
CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
DESIGNED BY	DANIEL HO	REVISOR	DATE
DESIGNED BY	DANIEL HO	REVISOR	DATE

DATE PLOTTED => 10/26/2022  
 TIME PLOTTED => 2:41:56 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HOWARD MICHAEL	CONSULTANT FUNCTIONAL SUPERVISOR	HOWARD MICHAEL	CALCULATED-DESIGNED BY	JOSE CORONEL	REVISOR	JOSE CORONEL	DESIGNED BY	JOSE CORONEL	DATE	9-15-22
				CHECKED BY	DANIEL HO	DATE REVISOR	DANIEL HO				

**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	SM	101	0.8/1.1	31	136
			REGISTERED CIVIL ENGINEER	DATE	9-15-22
			PLANS APPROVAL DATE	DATE	9-30-22
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



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

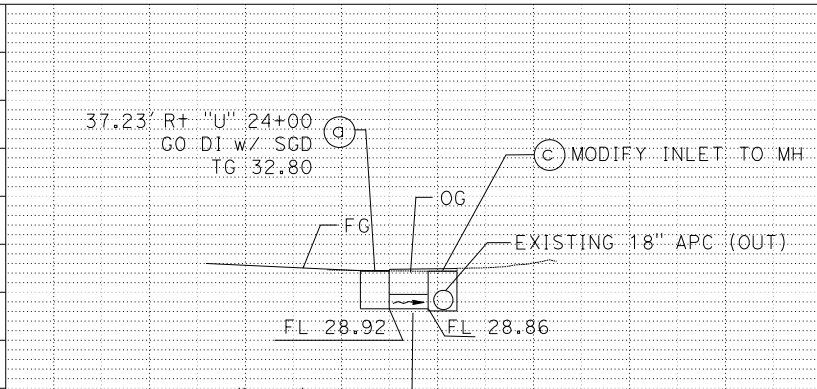
**DRAINAGE PLAN**  
SCALE 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

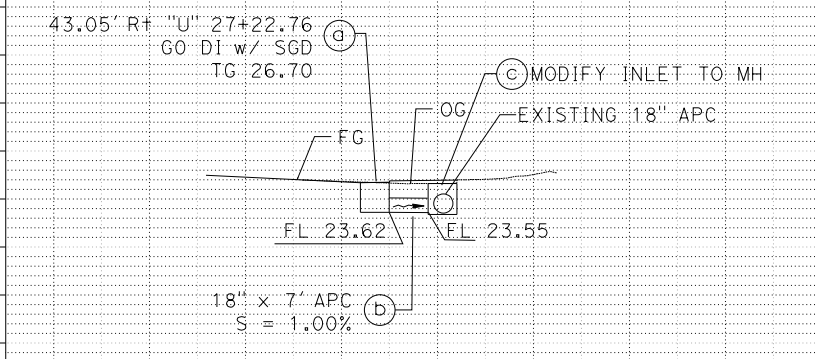
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DATE PLOTTED => 10/26/2022  
TIME PLOTTED => 2:49:13 PM

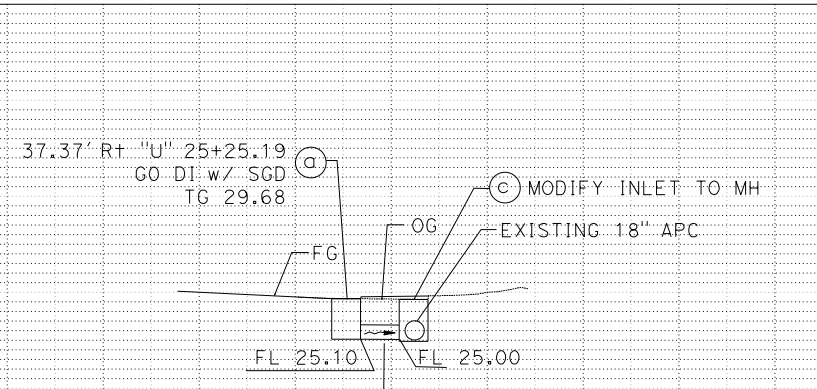
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	LAN HO	REVISED BY	JC
			HOWARD MICHAEL	DANIEL HO	8-9-22
CALIFORNIA	TRANSPORTATION	DESIGNED BY	LAN HO	REVISED BY	JC
			HOWARD MICHAEL	DANIEL HO	8-9-22



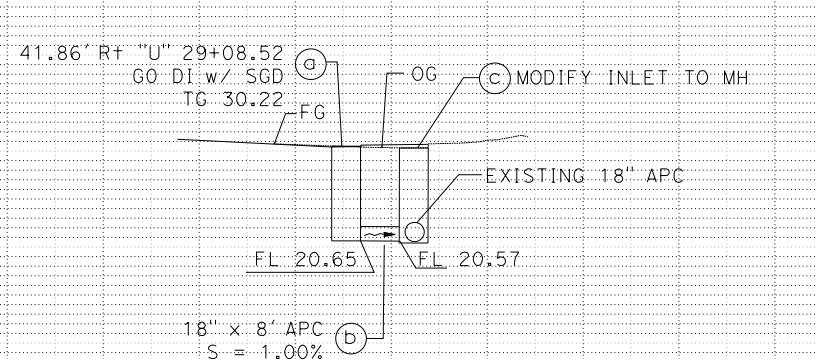
**DRAINAGE SYSTEM No. 2**



**DRAINAGE SYSTEM No. 5**

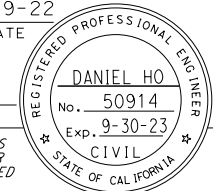


**DRAINAGE SYSTEM No. 3**



**DRAINAGE SYSTEM No. 6**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	32	136
			REGISTERED CIVIL ENGINEER	DATE	
			8-9-22		
			PLANS APPROVAL DATE		
			9-30-22		
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AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



**DRAINAGE PROFILE**

SCALE: Horiz 1" = 50'  
Vert 1" = 20'

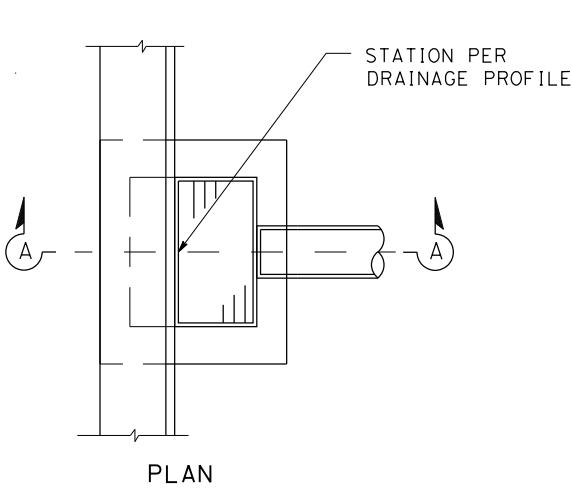
**DP-1**



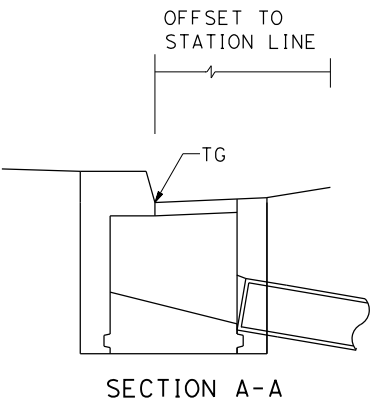




STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: JC  
 CHECKED BY: DANIEL HO  
 REVISED BY: JC  
 DATE REVISED: 9-15-22  
 USERNAME => jose.coronel  
 DGN FILE => 040000075911c001.dgn

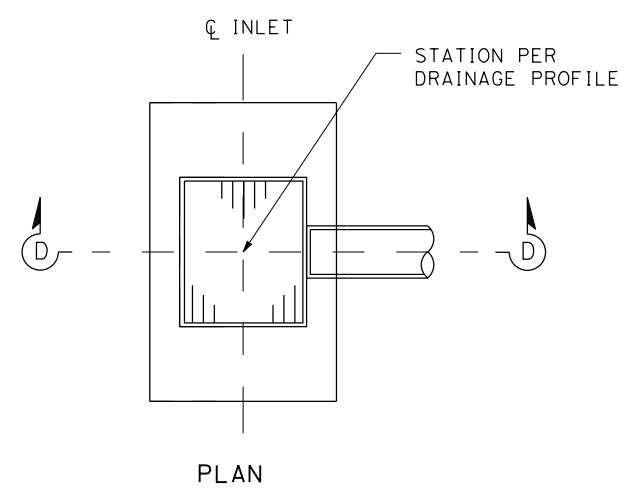


PLAN

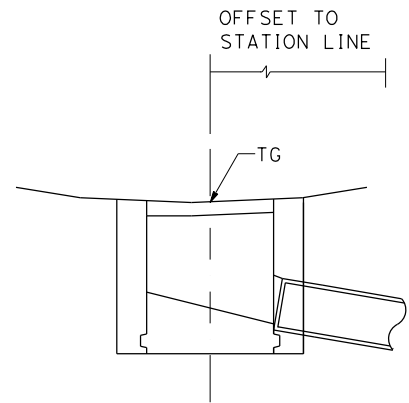


SECTION A-A

**INLET ADJACENT TO CURB**

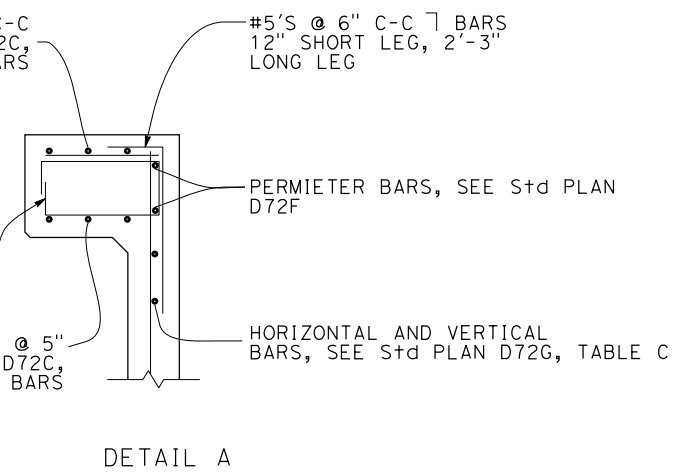
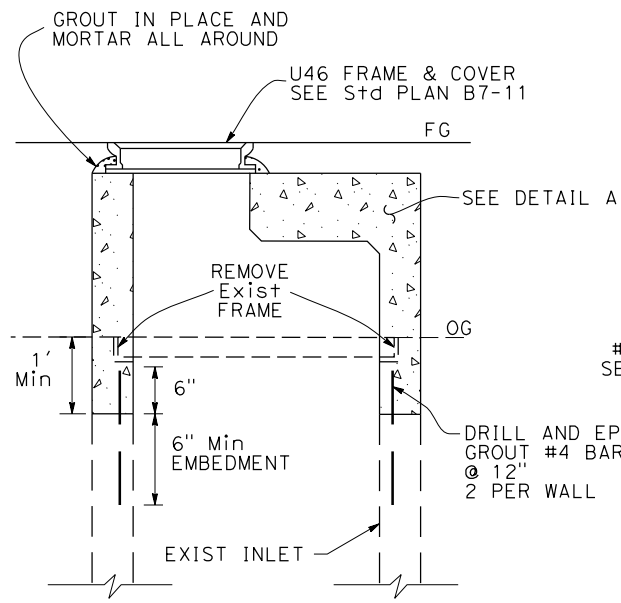


PLAN



SECTION D-D  
**FIELD INLET**

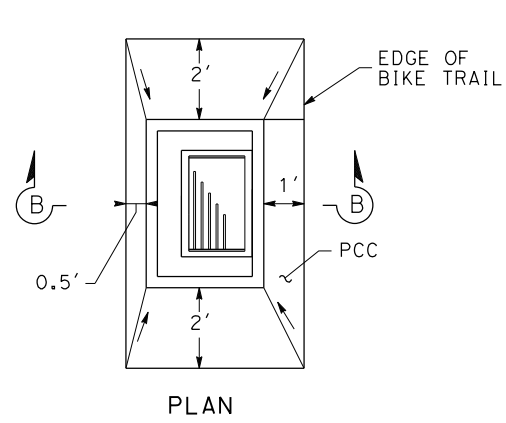
**MODIFY INLET TO MANHOLE**



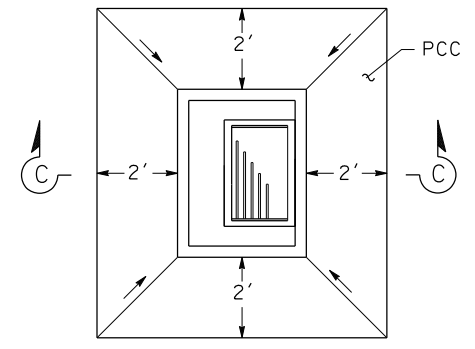
DETAIL A



APPROVED FOR DRAINAGE WORK ONLY

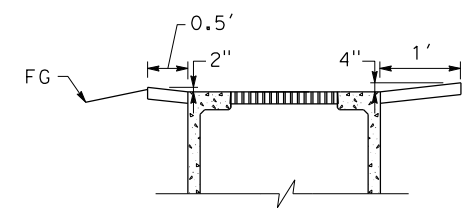


PLAN

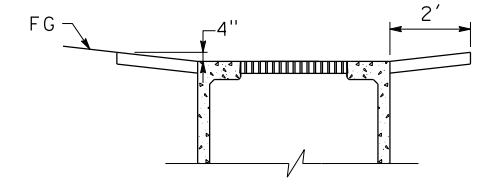


PLAN

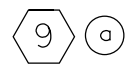
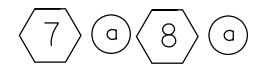
**CONCRETE INLET DEPRESSION**



SECTION B-B



SECTION C-C



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	34	136

REGISTERED CIVIL ENGINEER  
 9-15-22 DATE  
 9-30-22 PLANS APPROVAL DATE  
 DANIEL HO No. 50914 Exp. 9-30-23 CIVIL STATE OF CALIFORNIA

AECOM  
 4 N. SECOND St  
 SUITE 675  
 SAN JOSE, CA 95113

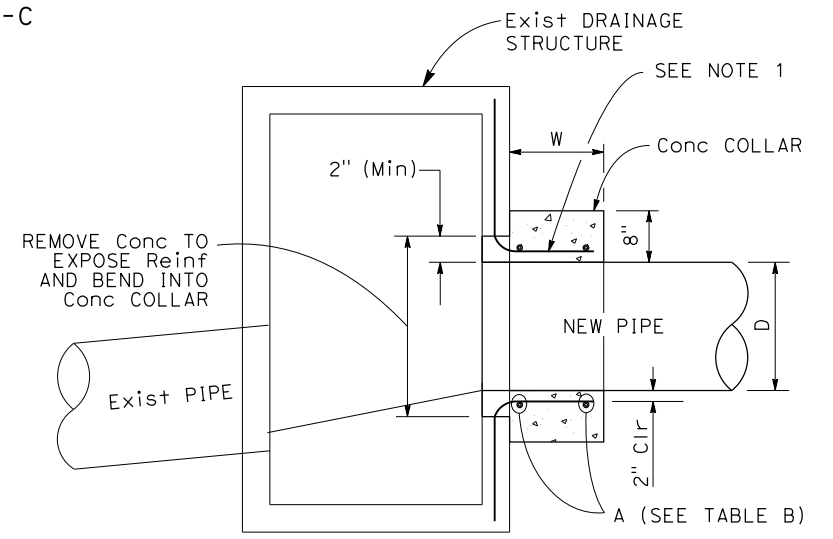
CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

**TABLE B**

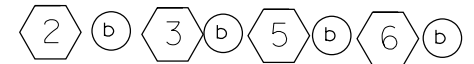
D	A	W
UP TO 24"	2-#5 HOOPS	18"
OVER 24"	3-#5 HOOPS	24"

**NOTE:**

- WHERE NO EXISTING Reinf IS PRESENT, DRILL AND GROUT #4 BARS 4 INCHES INTO EXISTING CONCRETE AND BEND INTO COLLAR. TOTAL 4 SPACED EVENLY AROUND PIPE.



**PIPE CONNECTION TO EXISTING DRAINAGE STRUCTURE**



**DRAINAGE DETAILS**

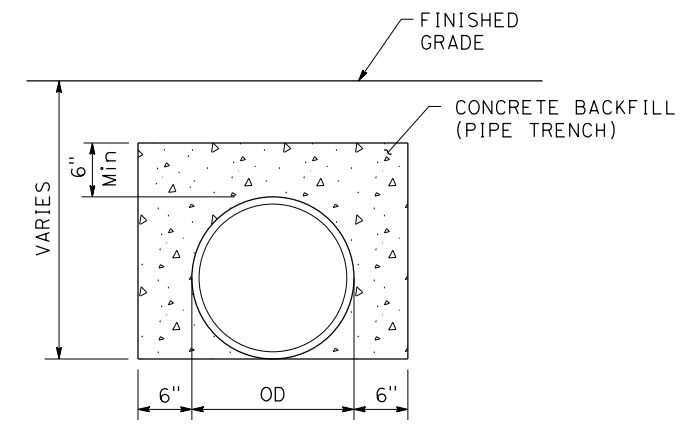
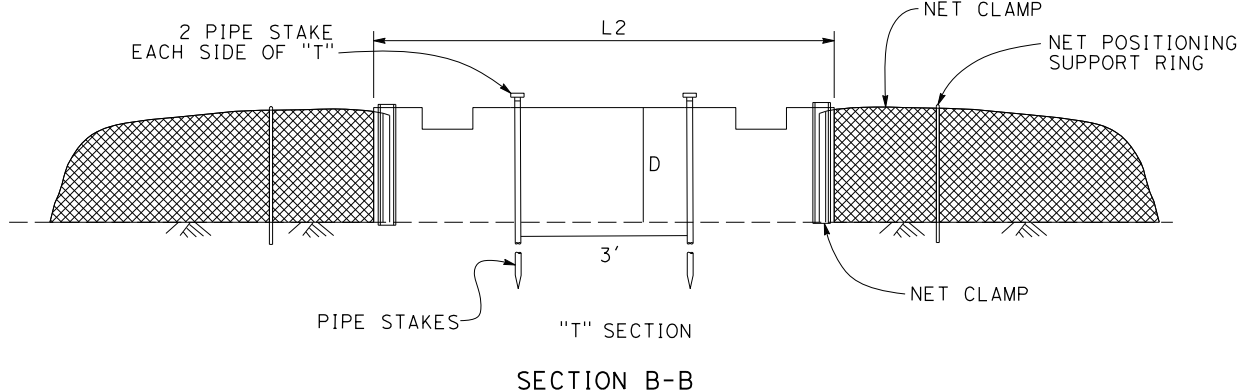
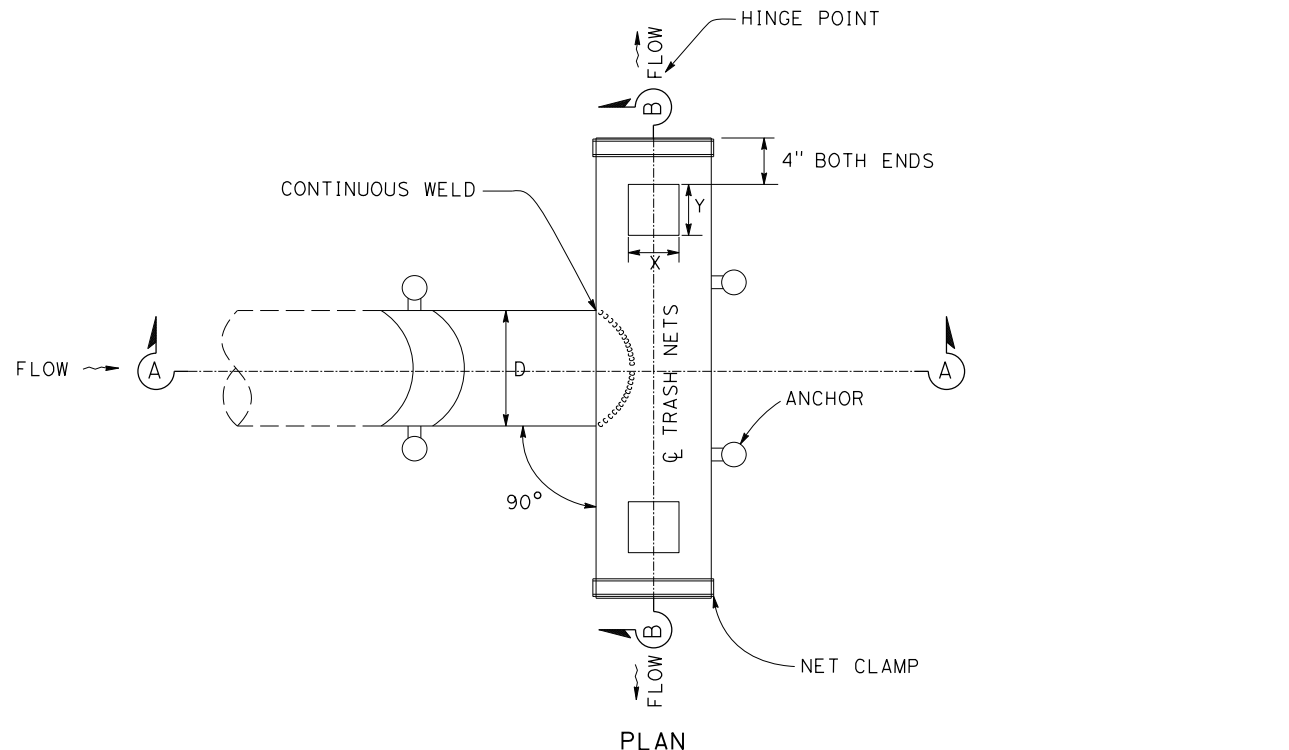
NO SCALE

**DD-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: JOSE CORONEL  
 CHECKED BY: DANIEL HO  
 REVISED BY: JC  
 DATE REVISED: 9-15-22

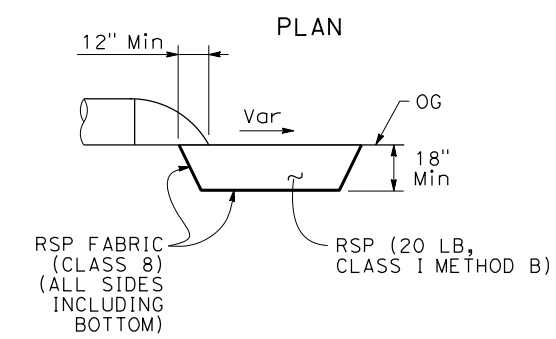
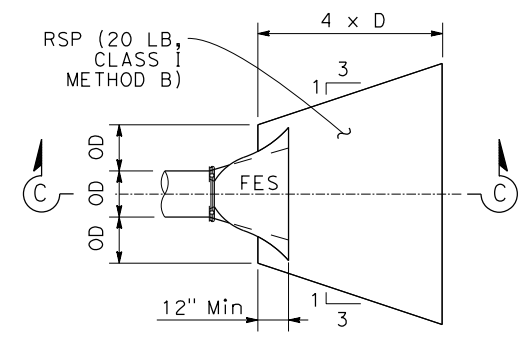
**NOTES:**

- DIAMETER OF "T" 24" MAXIMUM.
- SEE STANDARD PLAN D97A - D97J FOR COUPLING DETAILS NOT SHOWN.
- SEE STANDARD PLAN D87A & D87B FOR PIPE DOWNDRAIN ANCHOR ASSEMBLY AND RESTRAINER ASSEMBLY.



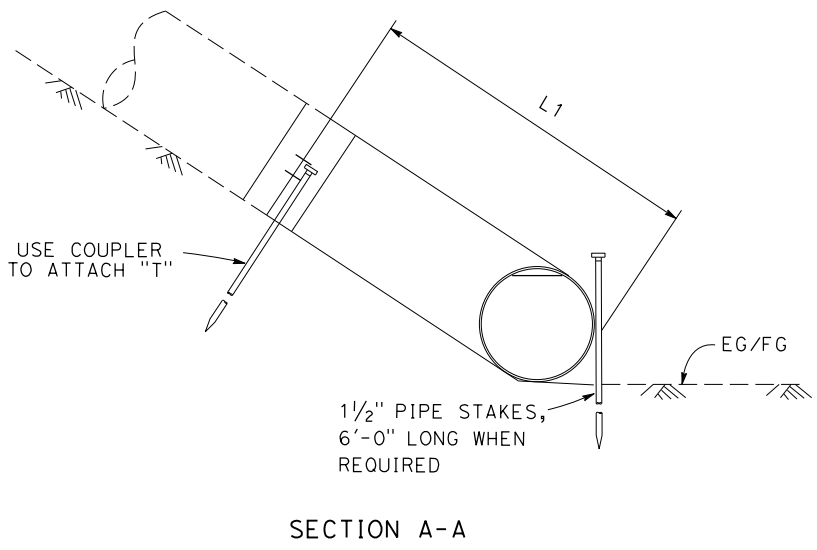
**CONCRETE BACKFILL DETAIL**

2 b 3 b 5 b



**RSP DETAIL**

7 c



**TRASH NET BMP DD "T" DETAIL**

7 c 8 c 9 c

**TRASH NET DIMENSION TABLE**

PIPE SIZE	T LENGTHS	T LENGTHS	OVERFLOWN OPENING * CUTOUT DIMENSIONS		TRASH NET LENGTH
			X	Y	
D	L1	L2	X	Y	Ln
18"	5'	6'	11.5"	11.5"	X

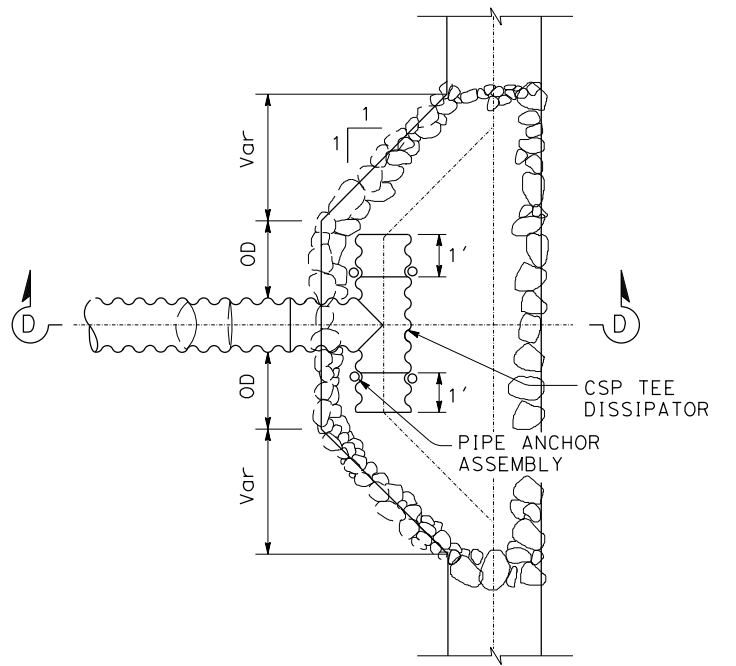
\* CUT OPENINGS BOTH SIDES

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	35	136

REGISTERED CIVIL ENGINEER DATE: 9-15-22  
 PLANS APPROVAL DATE: 9-30-22  
**DANIEL HO**  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

AECOM  
 4 N. SECOND St  
 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

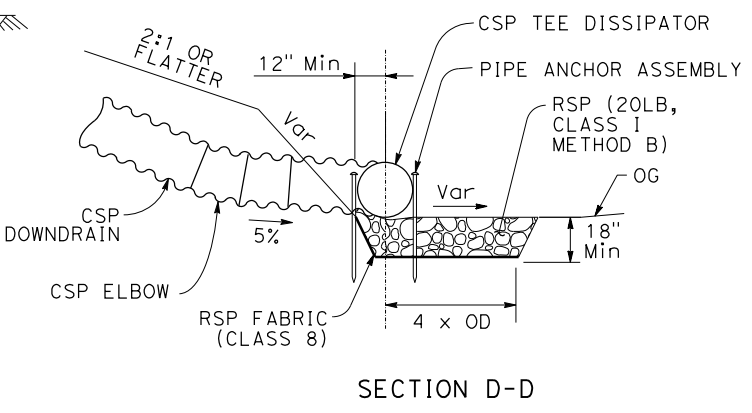


**DOWNDRAIN TEE**

8 c 9 c

**NOTE:**

- FOR DOWNDRAIN DETAILS NOT SHOWN, SEE STANDARD PLAN D87A.



**DRAINAGE DETAILS**

NO SCALE

**DD-2**

APPROVED FOR DRAINAGE WORK ONLY

### APC ALLOWABLE PIPE MATERIAL AND PROTECTION

DESIGNATION	RCP	CSP	HDPE PIPE	PVC
		(0.109" THICK) BITUMINOUS COATING AND PAVED INVERT	TYPE S	CORRUGATED w/ SMOOTH INTERIOR
18" APC	YES	YES	YES	YES

### ABBREVIATIONS:

WT WATERTIGHT JOINT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	36	136

9-15-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

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AECOM  
 4 N. SECOND St  
 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

### DRAINAGE QUANTITIES

DRAINAGE PLAN SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	DRAINAGE INLET MARKER	DRAINAGE INLET DEPRESSION	MINOR CONCRETE (GUTTER DEPRESSION)	(N)FRAME AND GRATE	MAXIMUM HEIGHT OF COVER (N)	HEIGHT OF INLET/MANHOLE (N)	ALTERNATIVE PIPE CULVERT	ALTERNATIVE FLARED END SECTION	18" CORRUGATED STEEL PIPE DOWNDRAIN	REMOVE INLET	MODIFY INLET TO MH	STRUCTURAL CONCRETE, MINOR STRUCTURE	MISCELLANEOUS IRON AND STEEL	CSP TEE DISSIPATOR	RSP (20LB, CLASS I METHOD B)	TRASH NET (N)	LENGTH OF NET (N)	WT JOINT (N)	DESCRIPTION	STATION	DRAINAGE PLAN SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT						
									18"	18"																					
EA	EA	CY	EA	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA							
D-1	1	a	1	1	1	1		4.9				1		3.14	239							REMOVE INLET	22.44' Rt "R1" LINE 64+24.93	D-1	1	a					
		b																										b			
		c	1	1	1	1	1		4.0						2.56	239							GO DI w/CID			22.44' Rt "R1" LINE 64+24.93 TG = 16.85', Invert FL = 12.33'			c		
		d									38												G1 DI w/CID			8.50' Rt "P" LINE 15+32			d		
		e						2.5															18" CSP			8.50' TO 45.5' Rt "P" LINE 15+29			e		
		f															1	0.75	1	4	1		RSP			28.65' Lt "R1" LINE 72+00			f		
		g	1	1	1	1	1								2.56	239							G1 DI w/CID			66' Rt "U" LINE 12+54			g		
		h								46													18" APC			73.2' Rt "U" LINE 12+54 TO 119' Rt "U" LINE 12+57			h		
		i									1												FLARED END SECTION			119' "U" LINE 12+57			i		
D-2	2	a	1	1	1	1		4.0						2.56	239							GO DI w/SGD	37.23' Rt "U" LINE 24+00	D-2	2	a					
		b					2.5		4																			b			
		c												1									MODIFY INLET TO MH			41.23' Rt "U" LINE 24+00			c		
		d	1	1	1	1	1		4.2						2.69	239							GO DI w/SGD			37.37' Rt "U" LINE 25+25.19			d		
		e						2.7		3													18" APC			37.37' to 40.37' Rt "U" LINE 25+25.19			e		
		f													1											MODIFY INLET TO MH	40.37' Rt "U" LINE 25+25.19			f	
		g	1	1	1	1	1		4.0						2.56	239										MODIFY INLET TO MH	61.50' Rt "U" LINE 25+95.58			g	
		h										129														G1 DI w/CID	8.50' Rt "P" LINE 20+56			h	
		i															1	0.75	1	4	1		18" CSP			8.50' TO 25.28' Rt "P" LINE 20+56			i		
D-3	5	a	1	1	1	1		3.2						2.05	239							GO DI w/SGD	43.05' Rt "U" LINE 27+22.76	D-3	5	a					
		b					1.7		7																			b			
		c												1												MODIFY INLET TO MH	50.05' Rt "U" LINE 27+22.76			c	
		d	1	1	1	1	1		9.9						6.35	239							GO DI w/SGD			41.86' Rt "U" LINE 29+08.52			d		
		e																											e		
		f						8.4		8																18" APC	41.86' to 48.86' Rt "U" LINE 29+08.52			f	
		g													1												MODIFY INLET TO MH	48.86' Rt "U" LINE 29+08.52			g
		TOTAL		8	8	8	9				68		1	167	1	5	25.4	1912	3	3											

(N) - NOT A SEPARATE BID ITEM.

APPROVED FOR DRAINAGE WORK ONLY

### DRAINAGE QUANTITIES

DQ-1

DATE PLOTTED => 10/26/2022 TIME PLOTTED => 2:57:38 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	37	136

REGISTERED CIVIL ENGINEER	DATE
DANIEL HO	9-15-22
PLANS APPROVAL DATE	
9-30-22	

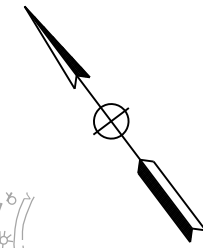
AECOM 4 N. SECOND St SUITE 675 SAN JOSE, CA 95113	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
--	--

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- UTILITY OWNERSHIP ON THIS PROJECT:  
 GAS - PACIFIC GAS & ELECTRIC  
 WATER - CITY OF EAST PALO ALTO  
 ELECTRIC - PACIFIC GAS & ELECTRIC  
 SEWER - CITY OF EAST PALO ALTO  
 CABLE TELEVISION - COMCAST  
 FIBER OPTICS - SPRINT/LEVEL 3 COMM/VERIZON  
 Tel - AT&T

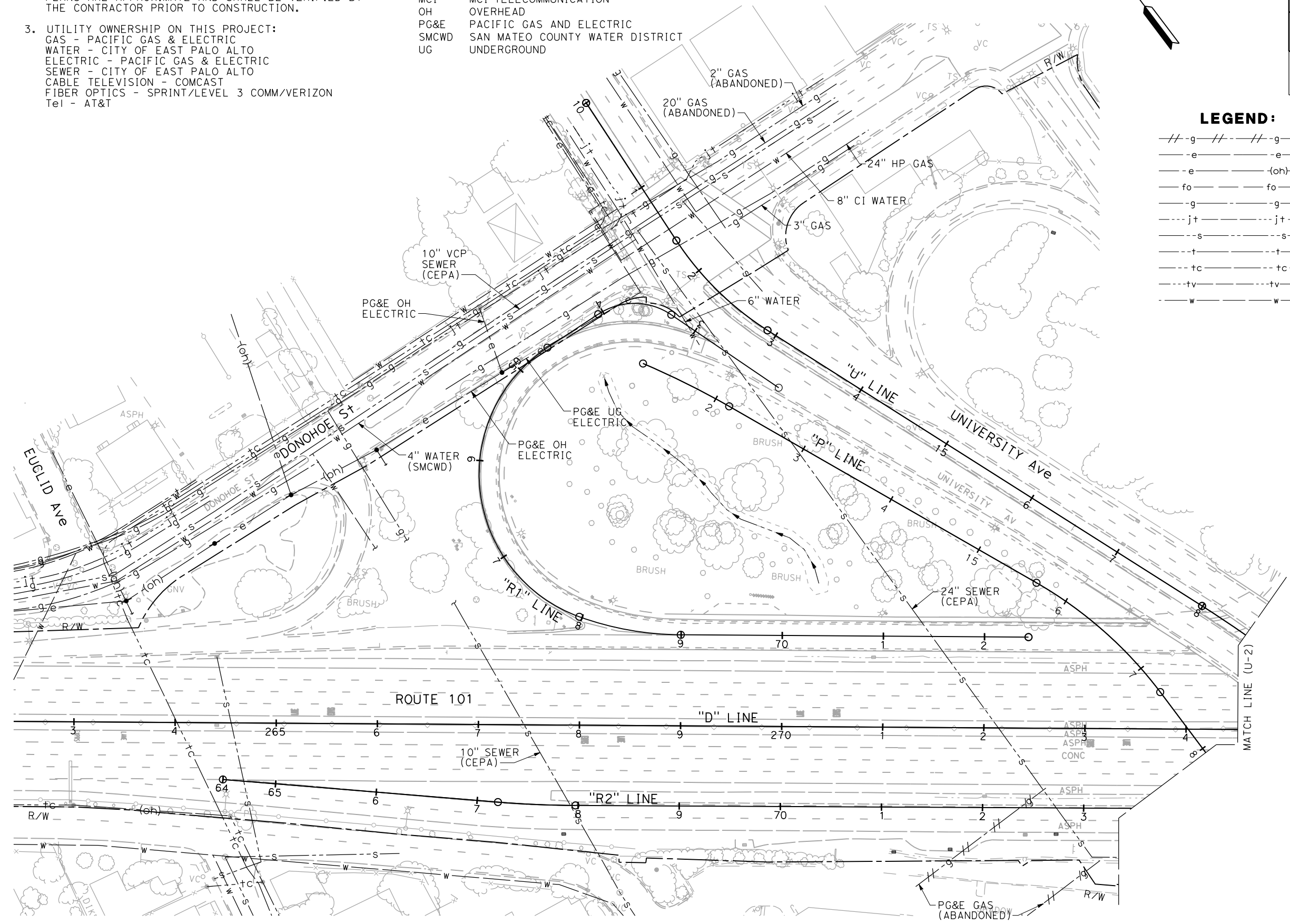
**ABBREVIATIONS:**

CEPA CITY OF EAST PALO ALTO  
 EPAWD EAST PALO ALTO WATER DISTRICT  
 KV KILOVOLT  
 MCI MCI TELECOMMUNICATION  
 OH OVERHEAD  
 PG&E PACIFIC GAS AND ELECTRIC  
 SMCWD SAN MATEO COUNTY WATER DISTRICT  
 UG UNDERGROUND



**LEGEND:**

---g---	ABANDONED
---e---	Exist ELECTRIC LINE
---e---(oh)	Exist ELECTRIC OVERHEAD LINE
---fo---	Exist FIBER OPTIC
---g---	Exist GAS LINE
---jt---	Exist JOINT TRENCH
---s---	Exist SANITARY SEWER
---t---	Exist TELEPHONE LINE
---tc---	Exist TELECOMMUNICATION
---tv---	Exist TELEVISION CABLE
---w---	Exist WATER LINE

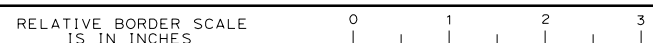


THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

**UTILITY PLAN**  
 SCALE 1" = 50'  
**U-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
Howard Michael	Jose Coronel	JC	9-15-22
Checked By	Designed By	Revised By	Date Revised
Daniel Ho	Jose Coronel	JC	9-15-22

USERNAME => jose.coronel  
 DGN FILE => 04000007591ka001.dgn



DATE PLOTTED => 10/26/2022  
 TIME PLOTTED => 2:58:56 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED-DESIGNED BY: CHECKED BY:  
 JOSE CORONEL DANIEL HO  
 REVISED BY: DATE REVISED:  
 JC 9-15-22

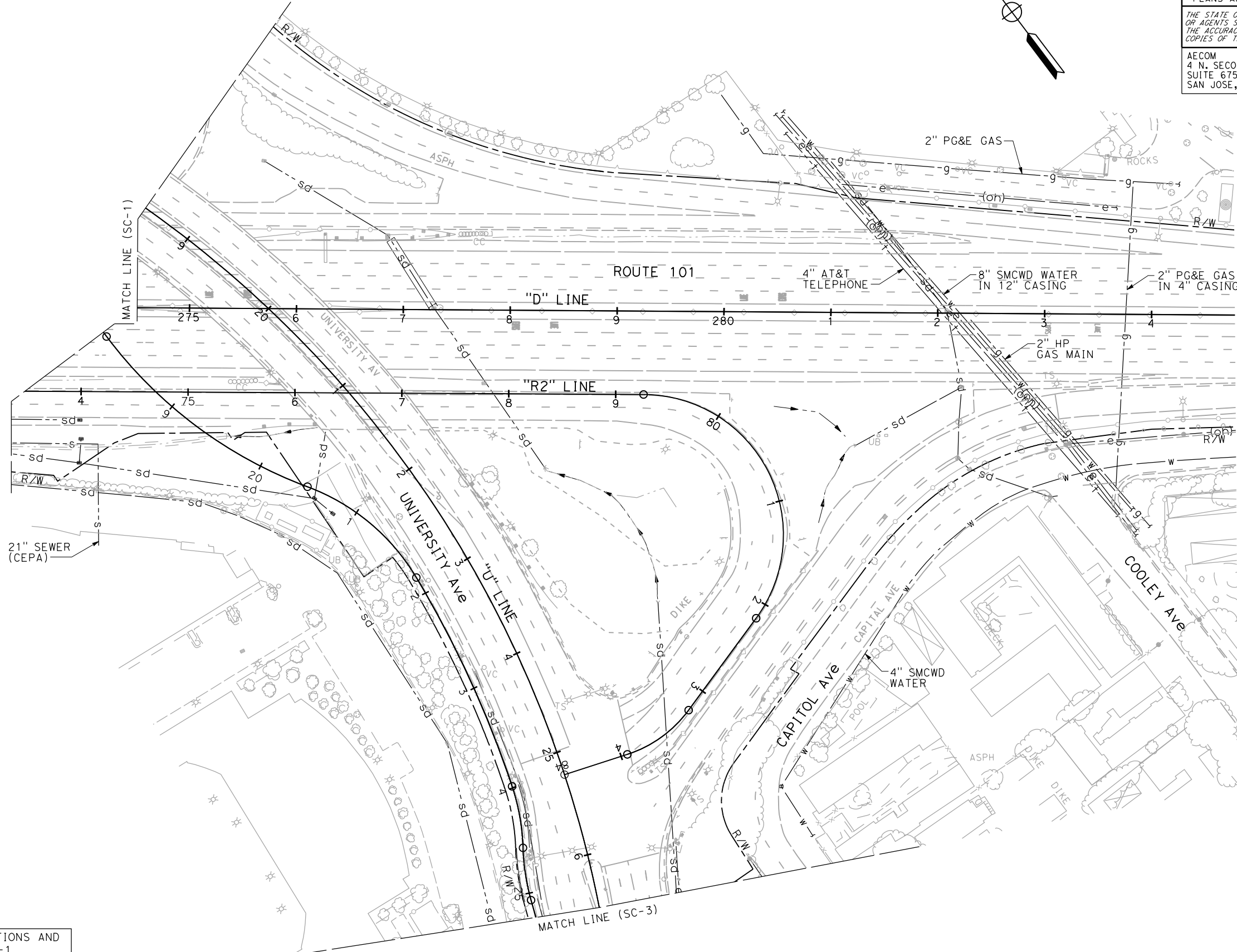
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	38	136

REGISTERED CIVIL ENGINEER DATE: 9-15-22  
 PLANS APPROVAL DATE: 9-30-22  
 DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

AECOM  
 4 N. SECOND St  
 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303



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

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

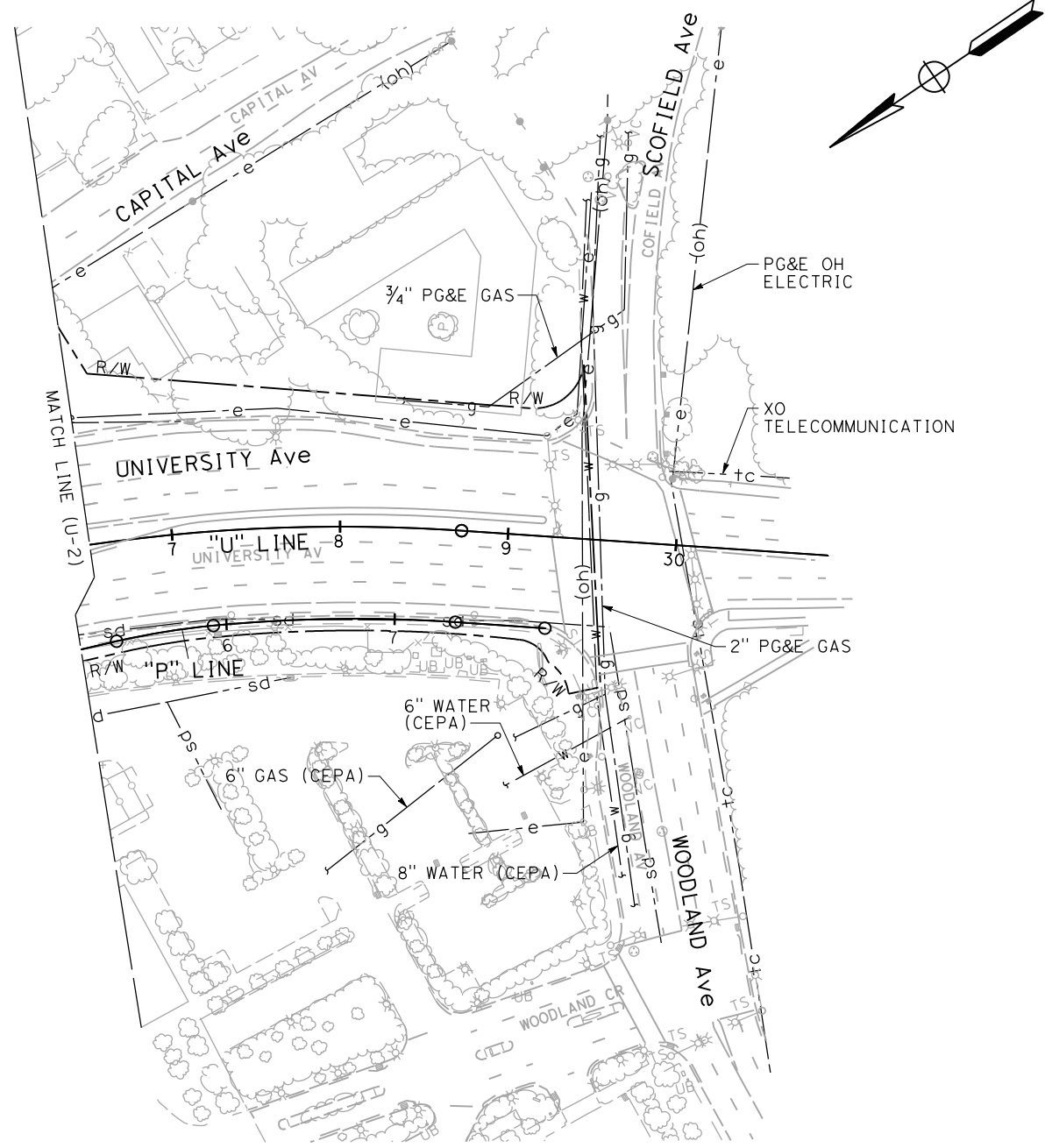
**UTILITY PLAN**  
 SCALE 1" = 50'  
**U-2**

LAST REVISION: 9-15-22  
 DATE PLOTTED => 10/26/2022  
 TIME PLOTTED => 3:08:34 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY	JC
<b>Caltrans</b>	HOWARD MICHAEL	CHECKED BY	DATE REVISED	9-15-22
			JOSE CORONEL	
			DANIEL HO	

**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	SM	101	0.8/1.1	39	136
			REGISTERED CIVIL ENGINEER	DATE	9-15-22
			PLANS APPROVAL DATE	9-30-22	
AECOM 4 N. SECOND St SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



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

**UTILITY PLAN**  
 SCALE 1" = 50'  
**U-3**

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

LAST REVISION      DATE PLOTTED => 10/26/2022      TIME PLOTTED => 3:01:58 PM

**NOTES:**

1. SEE STANDARD PLAN T10 FOR FREEWAY CLOSURE. SEE STANDARD PLAN T14 FOR RAMP CLOSURE.
2. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. CONFLICTING SIGNS SHALL BE COVERED WHEN NOT IN USE.
4. DETOUR SIGNS TO BE COVERED OR REMOVED WHEN NOT IN USE.
5. INFORMATION SIGNS SHALL BE INSTALLED A MINIMUM OF 72 HOURS PRIOR TO FREEWAY/RAMP CLOSURE.
6. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS AT ALL TIMES.

**LEGEND:**

- [No.] CONSTRUCTION AREA SIGN DESIGNATION
- ↑ ONE POST CONSTRUCTION AREA SIGN
- ↑ TWO POST CONSTRUCTION AREA SIGN
- DIRECTION OF DETOUR
- (No.) DETOURS SIGN NUMBER
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- █ CONSTRUCTION AREA CLOSED TO TRAFFIC

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	40	136

REGISTERED CIVIL ENGINEER DATE 9-15-22

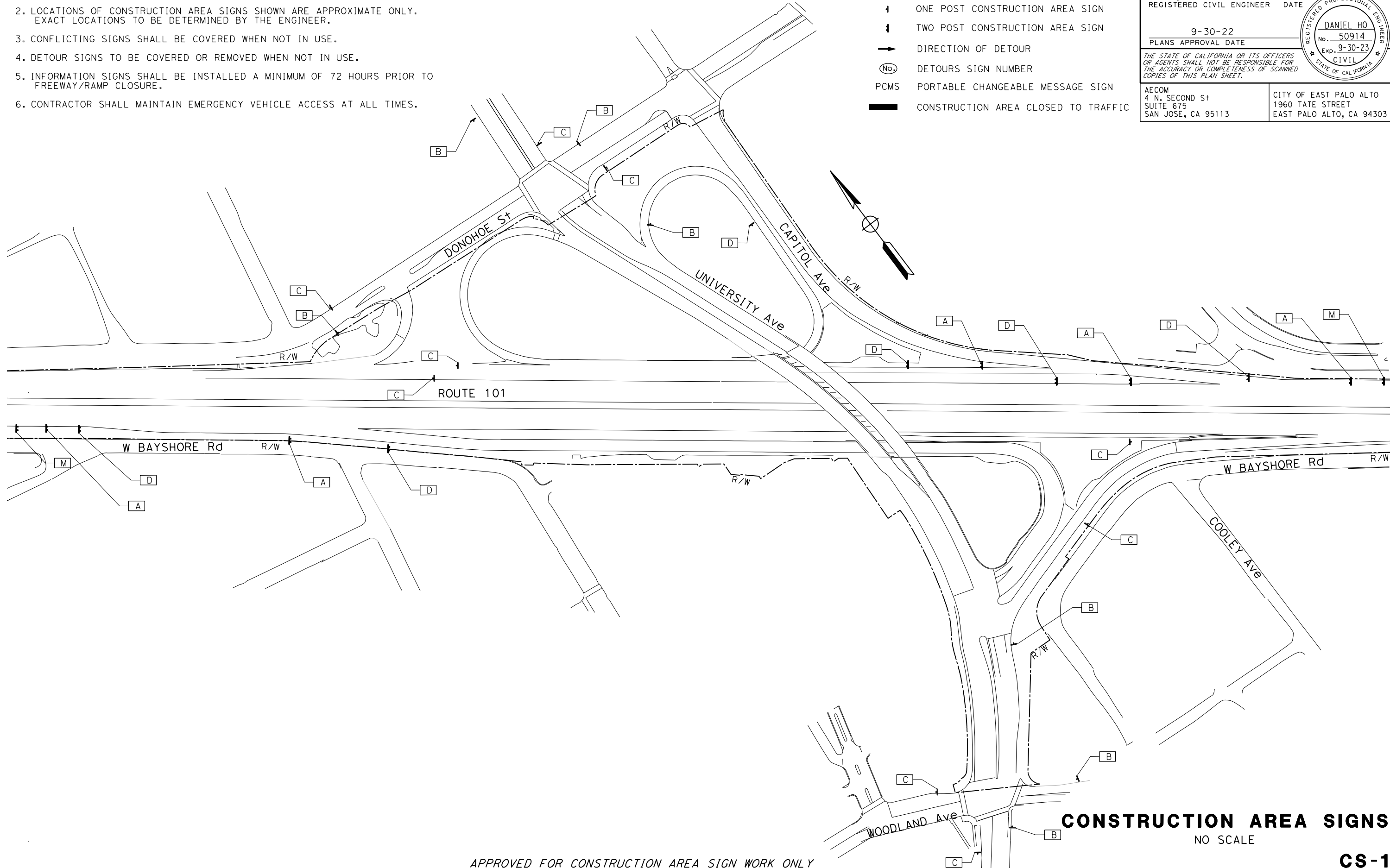
PLANS APPROVAL DATE 9-30-22

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

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AECOM  
4 N. SECOND ST  
SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL

CALCULATED/DESIGNED BY: DANIEL HO

REVISOR: NELSON HOM

REVISOR: DANIEL HO

REVISOR: JC

REVISOR: 9-15-22

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

**CONSTRUCTION AREA SIGNS**  
NO SCALE

**CS-1**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR HOWARD MICHAEL  
 CALCULATED-DESIGNED BY CHECKED BY  
 NELSON HOM DANIEL HO  
 REVISED BY DATE REVISED  
 JC 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	41	136

9-15-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

DANIEL HO  
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CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

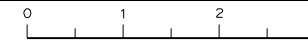
SHEET No.	SIGN No. □	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS (N)
			in x in			(EA)
CS-1	A	W20-1	60 x 60	ROAD WORK AHEAD	2 - 4" x 6"	5
CS-1	B	W20-1	48 x 48	ROAD WORK AHEAD	1 - 4" x 6"	6
CS-1	C	G20-2	36 x 18	END ROAD WORK	1 - 4" x 4"	7
CS-1	D	C40 (CA)	72 x 36	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 4" x 6"	5
CS-1	M	SPECIAL	90 x 60	CONSTRUCTION PROJECT FUNDING SIGNS	2 - 6" x 6"	2
<b>TOTAL</b>						<b>25</b>

(N): NOT A SEPARATE BID ITEM.

**CONSTRUCTION AREA SIGNS QUANTITIES**

**CS-2**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: JOSE CORONEL  
 CHECKED BY: DANIEL HO  
 REVISED BY: JC  
 DATE REVISED: 9-15-22

**NOTES:**

1. SEE STANDARD PLAN T10 FOR FREEWAY CLOSURE. SEE STANDARD PLAN T14 FOR RAMP CLOSURE.
2. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. CONFLICTING SIGNS SHALL BE COVERED WHEN NOT IN USE.
4. DETOUR SIGNS TO BE COVERED OR REMOVED WHEN NOT IN USE
5. INFORMATION SIGNS SHALL BE INSTALLED A MINIMUM OF 72 HOURS PRIOR TO FREEWAY/RAMP CLOSURE.
6. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS AT ALL TIMES.

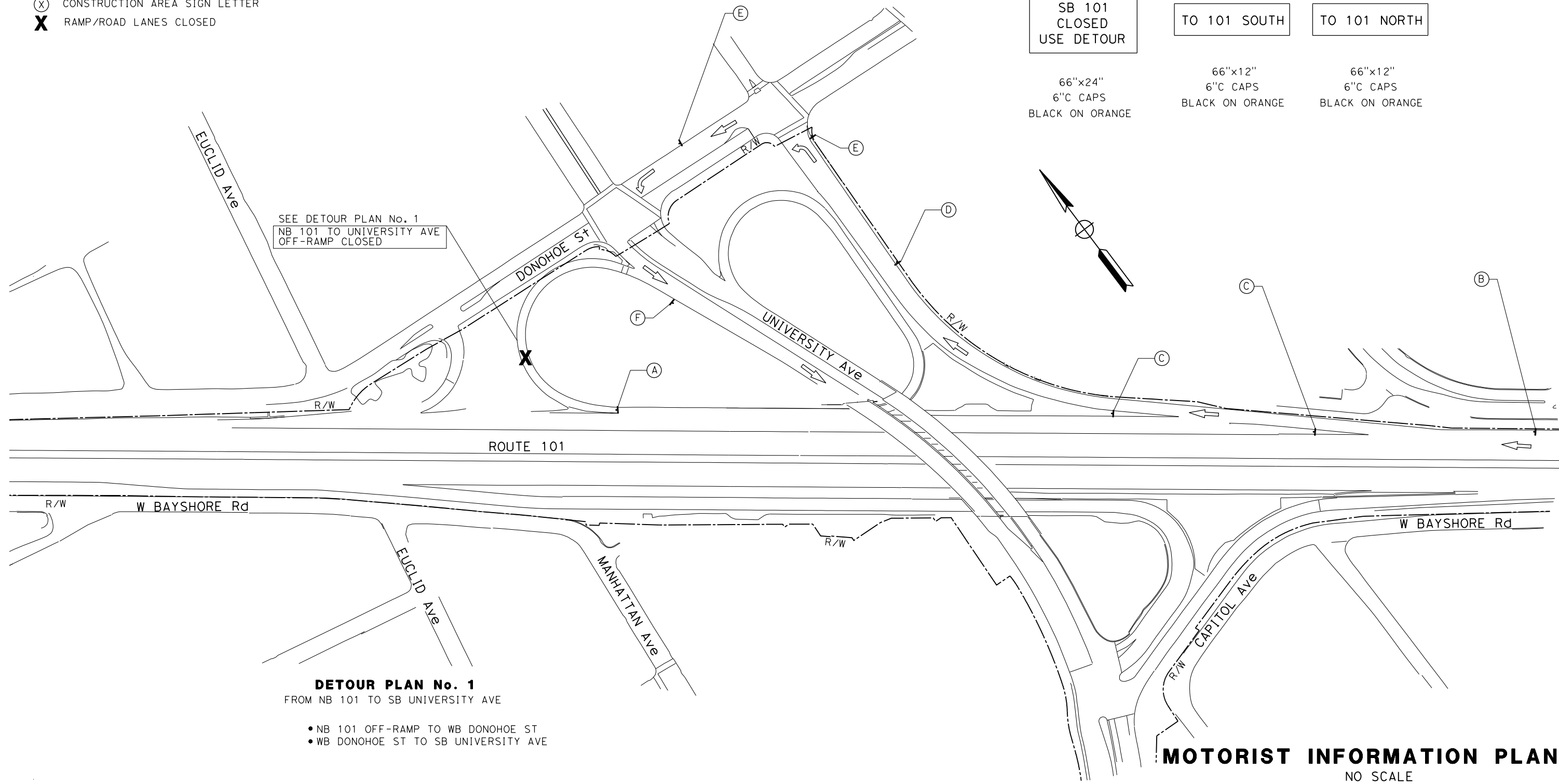
**LEGEND:**

- ↓ ONE POST CONSTRUCTION AREA SIGN LOCATION
- ↓ TWO POST CONSTRUCTION AREA SIGN LOCATION
- ↔ DIRECTION OF DETOUR
- ⊗ CONSTRUCTION AREA SIGN LETTER
- X RAMP/ROAD LANES CLOSED

**TRAFFIC SIGNS USED**

<b>SPECIAL "A"</b> RAMP TO UNIVERSITY AVE CLOSED USE DETOUR 66"x36" 6"C CAPS BLACK ON ORANGE	<b>SPECIAL "B"</b> TO PALO ALTO 66"x12" 6"C CAPS BLACK ON ORANGE	<b>SPECIAL "C"</b> NB 101 CLOSED USE DETOUR 66"x24" 6"C CAPS BLACK ON ORANGE	<b>SPECIAL "D"</b> NB 101 RAMP CLOSED USE DETOUR 66"x24" 6"C CAPS BLACK ON ORANGE
<b>SPECIAL "E"</b> SB 101 CLOSED USE DETOUR 66"x24" 6"C CAPS BLACK ON ORANGE	<b>SPECIAL "F"</b> TO 101 SOUTH 66"x12" 6"C CAPS BLACK ON ORANGE	<b>SPECIAL "G"</b> TO 101 NORTH 66"x12" 6"C CAPS BLACK ON ORANGE	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	42	136
REGISTERED CIVIL ENGINEER			DATE 9-15-22		
PLANS APPROVAL DATE 9-30-22					
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



**DETOUR PLAN No. 1**  
 FROM NB 101 TO SB UNIVERSITY AVE

- NB 101 OFF-RAMP TO WB DONOHUE ST
- WB DONOHUE ST TO SB UNIVERSITY AVE

**MOTORIST INFORMATION PLAN**  
 NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

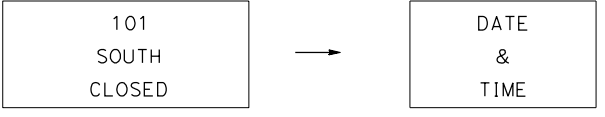
**MI-1**

LAST REVISION DATE PLOTTED => 10/27/2022 9-15-22 TIME PLOTTED => 10:09:25 AM

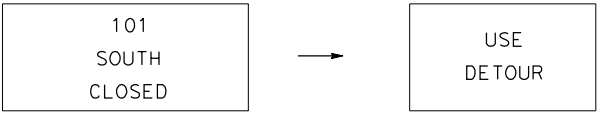
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HOWARD MICHAEL	CONSULTANT FUNCTIONAL SUPERVISOR	HOWARD MICHAEL	CALCULATED-DESIGNED BY	CHECKED BY	NELSON HOM	DANIEL HO	REVISOR	DATE	DESIGNED BY	DATE
								JC	9-15-22		

**NOTES:**

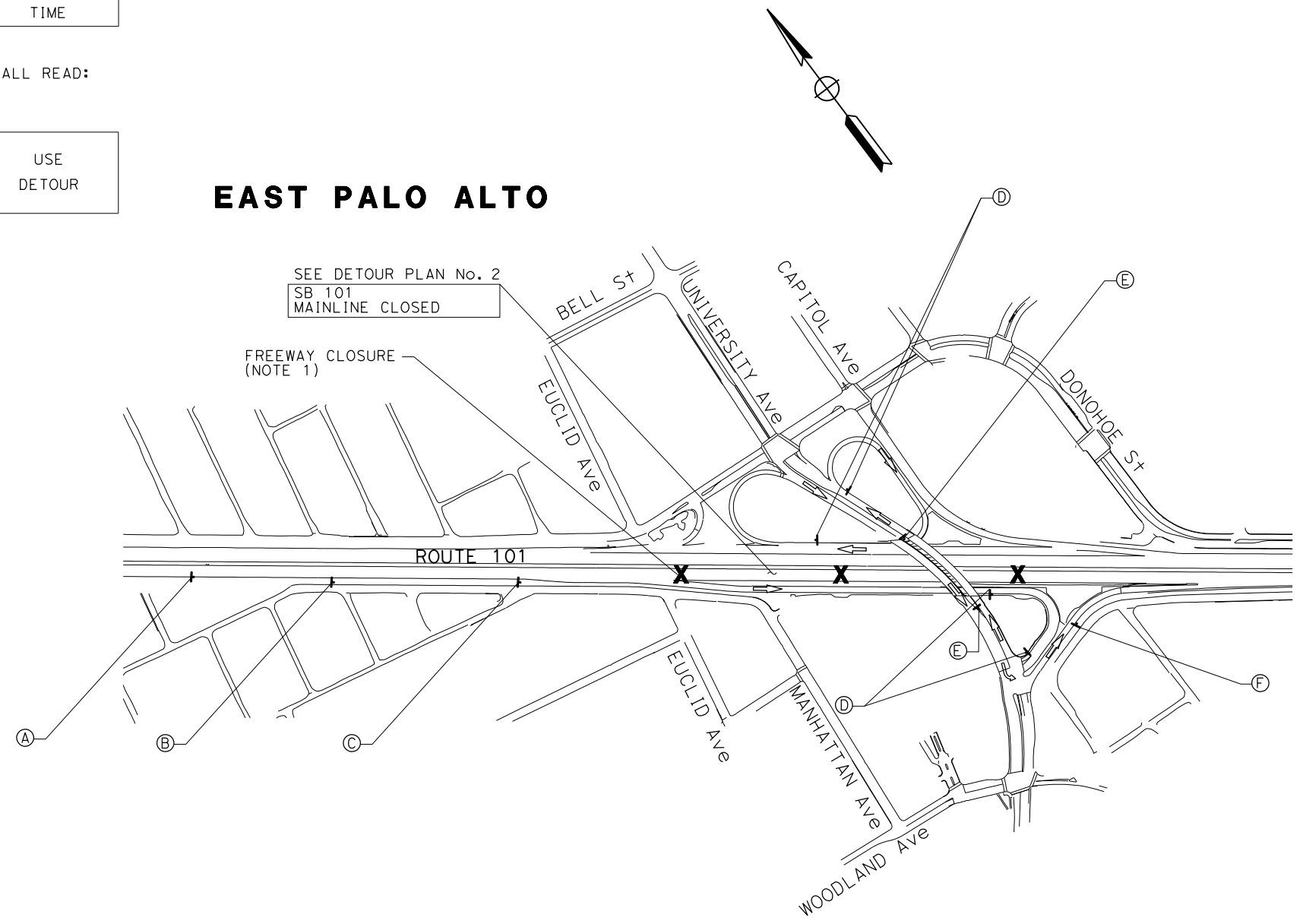
1. PCMS MUST BE INSTALLED AND TURNED ON FOURTEEN (14) DAYS PRIOR TO 101 SOUTH CLOSURE. PCMS SHALL READ:



DURING 101 SOUTH CLOSURE, PCMS SHALL READ:



**EAST PALO ALTO**



SEE DETOUR PLAN No. 2  
SB 101  
MAINLINE CLOSED

FREEWAY CLOSURE  
(NOTE 1)

**DETOUR PLAN No. 2**  
SB 101 MAINLINE

- SB 101 OFF-RAMP TO UNIVERSITY AVE
- NB UNIVERSITY AVE TO NB 101 ON-RAMP
- NB 101 TO UNIVERSITY AVE OFF-RAMP
- SB UNIVERSITY AVE TO SB 101 ON-RAMP

FOR LEGEND AND NOTES  
SEE SHEET MI-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	43	136
			9-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	PLANS APPROVAL DATE	
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

**MOTORIST INFORMATION PLAN**  
NO SCALE

**MI-2**

APPROVED FOR MOTORIST INFORMATION WORK ONLY

DATE PLOTTED => 10/27/2022 TIME PLOTTED => 10:09:42 AM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGNED BY	REVISOR	DATE
	HOWARD MICHAEL	NELSON HOM	9-15-22
	CONSULTANT FUNCTIONAL SUPERVISOR	DANIEL HO	JC
	CHECKED BY	DATE REVISED	

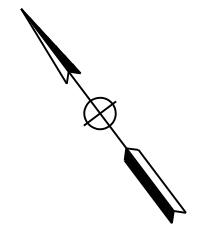
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	44	136
			9-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	PLANS APPROVAL DATE	
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

**NOTES:**  
 1. PCMS MUST BE INSTALLED AND TURNED ON FOURTEEN (14) DAYS PRIOR TO UNIVERSITY AVE RAMP CLOSURE. PCMS SHALL READ:

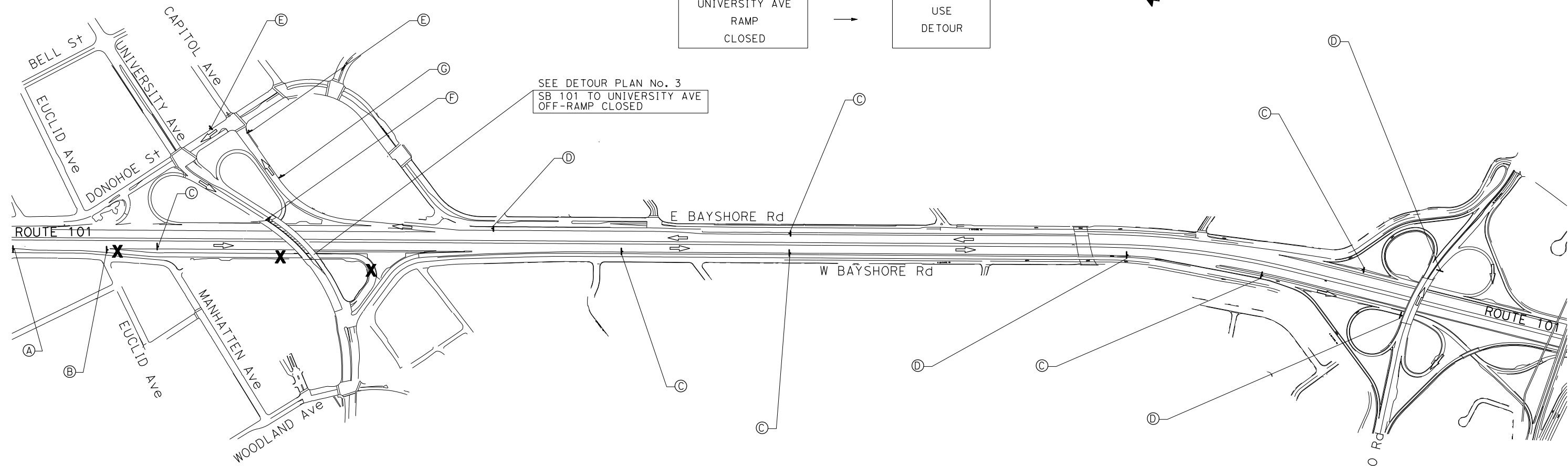
UNIVERSITY AVE RAMP CLOSED → DATE & TIME

DURING UNIVERSITY AVE RAMP CLOSURE, PCMS SHALL READ:

UNIVERSITY AVE RAMP CLOSED → USE DETOUR



**EAST PALO ALTO**



- DETOUR PLAN No.**  
 FROM SB 101 TO UNIVERSITY AVE
- SB 101 OFF-RAMP TO EMBARCADERO Rd
  - NB EMBARADERO Rd TO NB 101 ON-RAMP
  - NB 101 TO DONOHOE St OFF-RAMP
  - WB DONOHOE St TO UNIVERISTY AVE

FOR LEGEND AND NOTES SEE SHEET MI-1

**MOTORIST INFORMATION PLAN**  
 NO SCALE

APPROVED FOR MOTORIST INFORMATION WORK ONLY

LAST REVISION DATE PLOTTED => 10/27/2022 9-15-22 TIME PLOTTED => 10:12:13 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	45	136

REGISTERED CIVIL ENGINEER	DATE
DANIEL HO	9-15-22
PLANS APPROVAL DATE	
9-30-22	

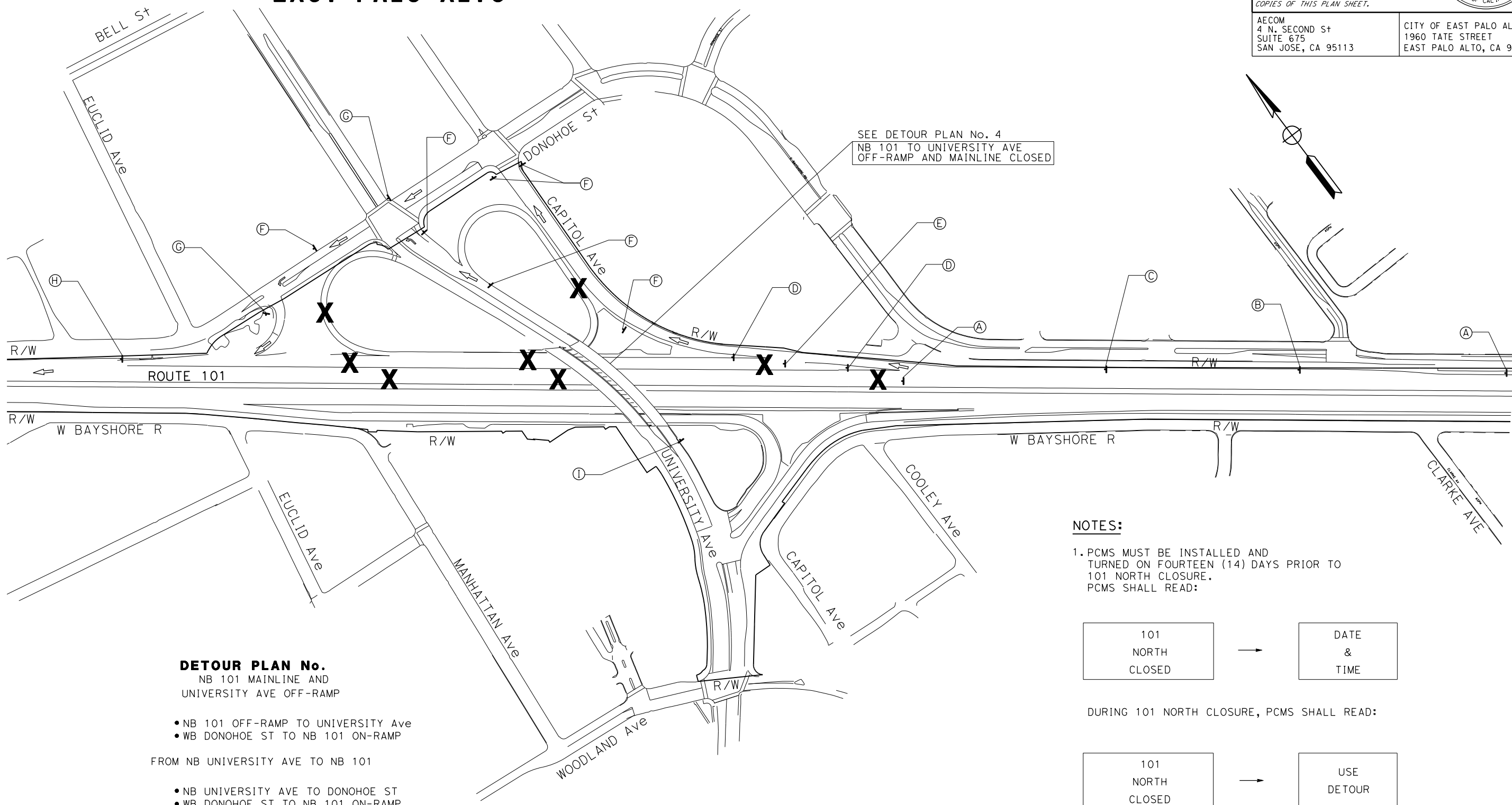
  

REGISTERED PROFESSIONAL ENGINEER	
No. 50914	
Exp. 9-30-23	
CIVIL	
STATE OF CALIFORNIA	

AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
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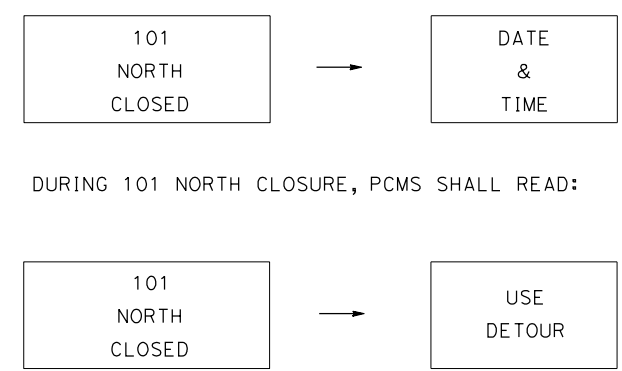
# EAST PALO ALTO



- DETOUR PLAN No.**  
NB 101 MAINLINE AND  
UNIVERSITY AVE OFF-RAMP
- NB 101 OFF-RAMP TO UNIVERSITY Ave
  - WB DONOHOE ST TO NB 101 ON-RAMP
- FROM NB UNIVERSITY AVE TO NB 101
- NB UNIVERSITY AVE TO DONOHOE ST
  - WB DONOHOE ST TO NB 101 ON-RAMP

**NOTES:**

1. PCMS MUST BE INSTALLED AND TURNED ON FOURTEEN (14) DAYS PRIOR TO 101 NORTH CLOSURE. PCMS SHALL READ:



FOR LEGEND AND NOTES  
SEE SHEET MI-1

## MOTORIST INFORMATION PLAN

NO SCALE

MI-

APPROVED FOR MOTORIST INFORMATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR	HOWARD MICHAEL
CALCULATED-DESIGNED BY	CHECKED BY
JOSE CORONEL	DANIEL HO
REVISOR	DATE
JC	9-15-22

DATE PLOTTED => 10/27/2022 TIME PLOTTED => 10:12:59 AM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: CHECKED BY:  
 NELSON HOM: DANIEL HO  
 REVISED BY: DATE REVISED: 9-15-22  
 JC: 9-15-22

### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No.	SIGN DESIGNATION	PANEL SIZE	POST SIZE	ROADSIDE SIGN WOOD (N)		No. o SIGNS (N)	No. o PCMS (N)	SIGN MESSAGE
					ONE POST				
				4" x 4"	EA		EA		
MI-1	A	SC6-4 (CA)	48" x 18"	X	X		1		"RAMP CLOSED"
	B	SPECIAL "A"	66" x 36"	X	X		1		"RAMP TO UNIVERSITY AVE CLOSED USE DETOUR"
	C	SC18(CA)	48" x 18"	X	X		2		" (↗) EXIT"
		SPECIAL "B"	66" x 12"					"TO PALO ALTO"	
	D	M4-9L	48" x 18"	X	X		1		" (↔) DETOUR"
		M4-9L	48" x 18"					" (↔) DETOUR"	
E	SPECIAL "B"	66" x 12"	X	X		2		"TO PALO ALTO"	
	M4-8g	48" x 18"					"END DETOUR"		
MI-2	A	PCMS					1	"SB 101 CLOSED..."	
	B	SPECIAL "E"	66" x 24"	X	X		1		"SB 101 CLOSED USE DETOUR"
	C	SC18(CA)	48" x 18"	X	X		1		" (↗) EXIT"
		SPECIAL "F"	66" x 12"					"TO 101 SOUTH"	
	D	M4-9R	48" x 18"	X	X		2		" (↔) DETOUR"
		SPECIAL "B"	66" x 12"					"TO 101 SOUTH"	
E	M4-9L	48" x 18"	X	X		2		" (↔) DETOUR"	
	SPECIAL "B"	66" x 12"					"TO 101 SOUTH"		
F	M4-8g	24" x 18"	X	X		1		"END DETOUR"	
MI-3	A	PCMS					1	"UNIVERSITY AVE RAMP CLOSED"	
	B	SPECIAL "A"	66" x 36"	X	X		1		"RAMP TO UNIVERSITY AVE CLOSED USE DETOUR"
	C	SC3 (CA)	48" x 18"	X	X		6		" (↑) DETOUR"
		SPECIAL "B"	66" x 12"					"TO PALO ALTO "	
	D	M4-8	24" x 18"	X	X		4		"DETOUR"
		SPECIAL "B"	66" x 12"					"TO PALO ALTO"	
	E	M6-2	21" x 15"	X	X		2		"(↗)" ARROW
M4-9L		48" x 18"	" (↔) DETOUR"						
F	SPECIAL "B"	66" x 12"	X	X		1		"TO PALO ALTO"	
	M4-8g	24" x 18"					"END DETOUR"		
G	M4-9L	48" x 18"	X	X		1		" (↔) DETOUR"	
MI-4	A	PCMS					2	"NB 101 CLOSED..."	
	B	SPECIAL "C"	66" x 24"	X	X		1		"NB 101 CLOSED USE DETOUR"
	C	SC18(CA)	48" x 18"	X	X		1		" (↗) EXIT"
		SPECIAL "G"	66" x 12"					"TO 101 NORTH"	
	D	M4-9R	48" x 18"	X	X		2		" (↔) DETOUR"
		SPECIAL "G"	66" x 12"					"TO 101 NORTH"	
	E	SC6-4 (CA)	48" x 18"	X	X		1		"RAMP CLOSED"
	F	M4-9L	48" x 18"	X	X		6		" (↔) DETOUR"
		SPECIAL "G"	66" x 12"					"TO 101 NORTH"	
G	SC3 (CA)	48" x 18"	X	X		2		" (↑) DETOUR"	
	SPECIAL "B"	66" x 12"					"TO 101 NORTH"		
H	M4-8g	48" x 18"	X	X		1		"END DETOUR"	
I	SPECIAL "D"	66" x 24"	X	X		1		"NB 101 RAMP CLOSED USE DETOUR"	

N - NOT A SEPARATE BID ITEM.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	46	136

9-15-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 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.

AECOM  
 4 N. SECOND St  
 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

## MOTORIST INFORMATION QUANTITIES

MIQ-1

DATE PLOTTED => 10/27/2022  
 TIME PLOTTED => 10:14:31 AM  
 LAST REVISION 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	47	136

REGISTERED CIVIL ENGINEER	DATE
9-15-22	9-15-22
PLANS APPROVAL DATE	
9-30-22	

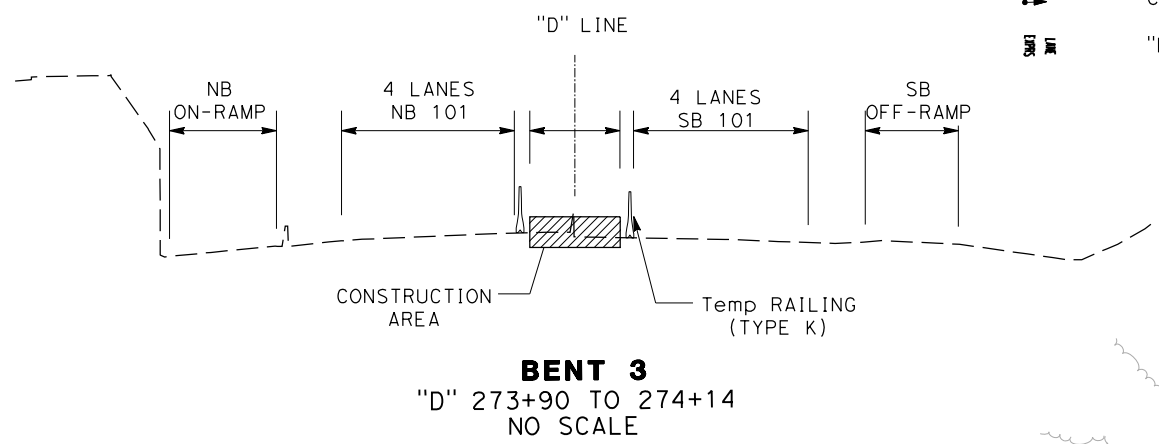
  

AECOM 4 N. SECOND St SUITE 675 SAN JOSE, CA 95113	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
--	--

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

**LEGEND:**

- PAVEMENT DELINEATION DETAIL
- TYPE III (L OR R) ARROW
- TEMPORARY RAILING (TYPE K)
- TEMPORARY CRASH CUSHION MODULE (ARRAY 'TS14')
- CHANNELIZER (SURFACE MOUNTED)
- "EXPRESS LANE" PAVEMENT MARKINGS
- TEMPORARY SIDEWALK
- CONSTRUCTION THIS STAGE
- CONSTRUCTION THIS STAGE WITH RAMP CLOSURE

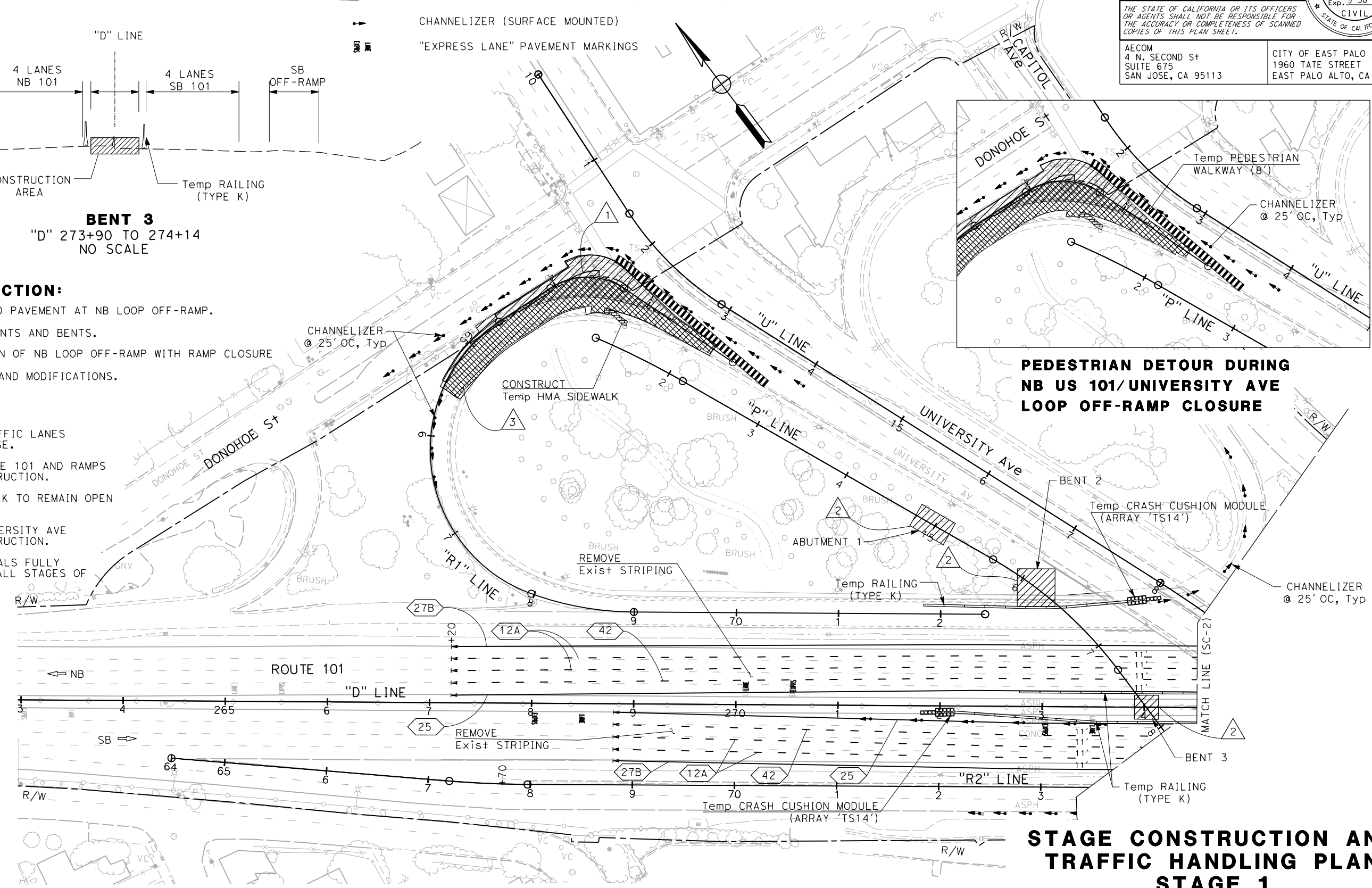


**STAGE 1 CONSTRUCTION:**

- 1 MODIFY PCC ISLAND AND PAVEMENT AT NB LOOP OFF-RAMP.
- 2 CONSTRUCT POC ABUTMENTS AND BENTS.
- 3 COMPLETE CONSTRUCTION OF NB LOOP OFF-RAMP WITH RAMP CLOSURE
- 4 CONSTRUCT MEDIAN ISLAND MODIFICATIONS.

**STAGE 1 TRAFFIC:**

- 1 MAINTAIN EXISTING TRAFFIC LANES UNLESS SHOWN OTHERWISE.
- 2 SHIFT TRAFFIC ON ROUTE 101 AND RAMPS TO ACCOMMODATE CONSTRUCTION.
- 3 SIDEWALK AND CROSSWALK TO REMAIN OPEN AT ALL TIMES.
- 4 SHIFT TRAFFIC ON UNIVERSITY AVE TO ACCOMMODATE CONSTRUCTION.
- 5 MAINTAIN TRAFFIC SIGNALS FULLY OPERATIONAL THROUGH ALL STAGES OF CONSTRUCTION.



**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**  
**STAGE 1**  
SCALE 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

REVISOR: JC 9-15-22  
DESIGNER: JOSE CORONEL  
CHECKER: DANIEL HO  
SUPERVISOR: HOWARD MICHAEL

**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	SM	101	0.8/1.1	48	136

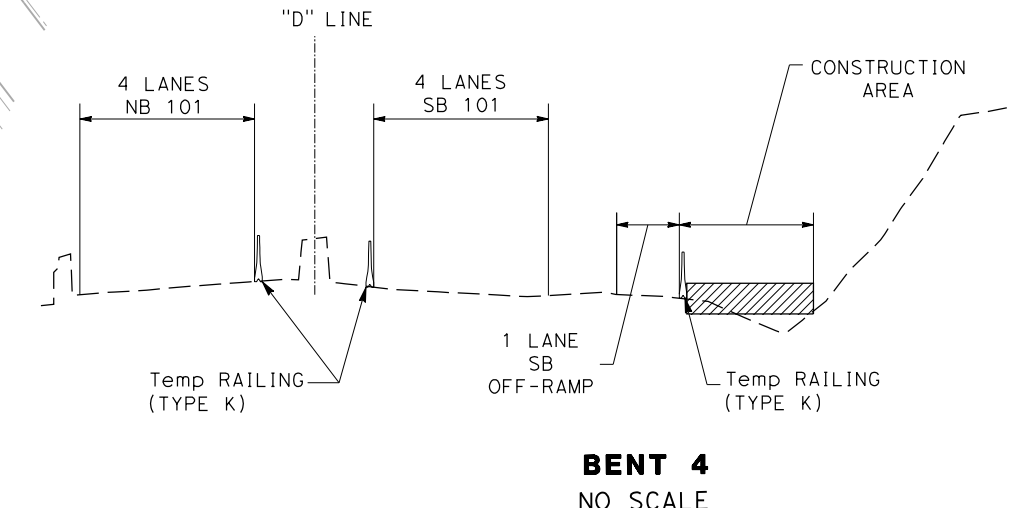
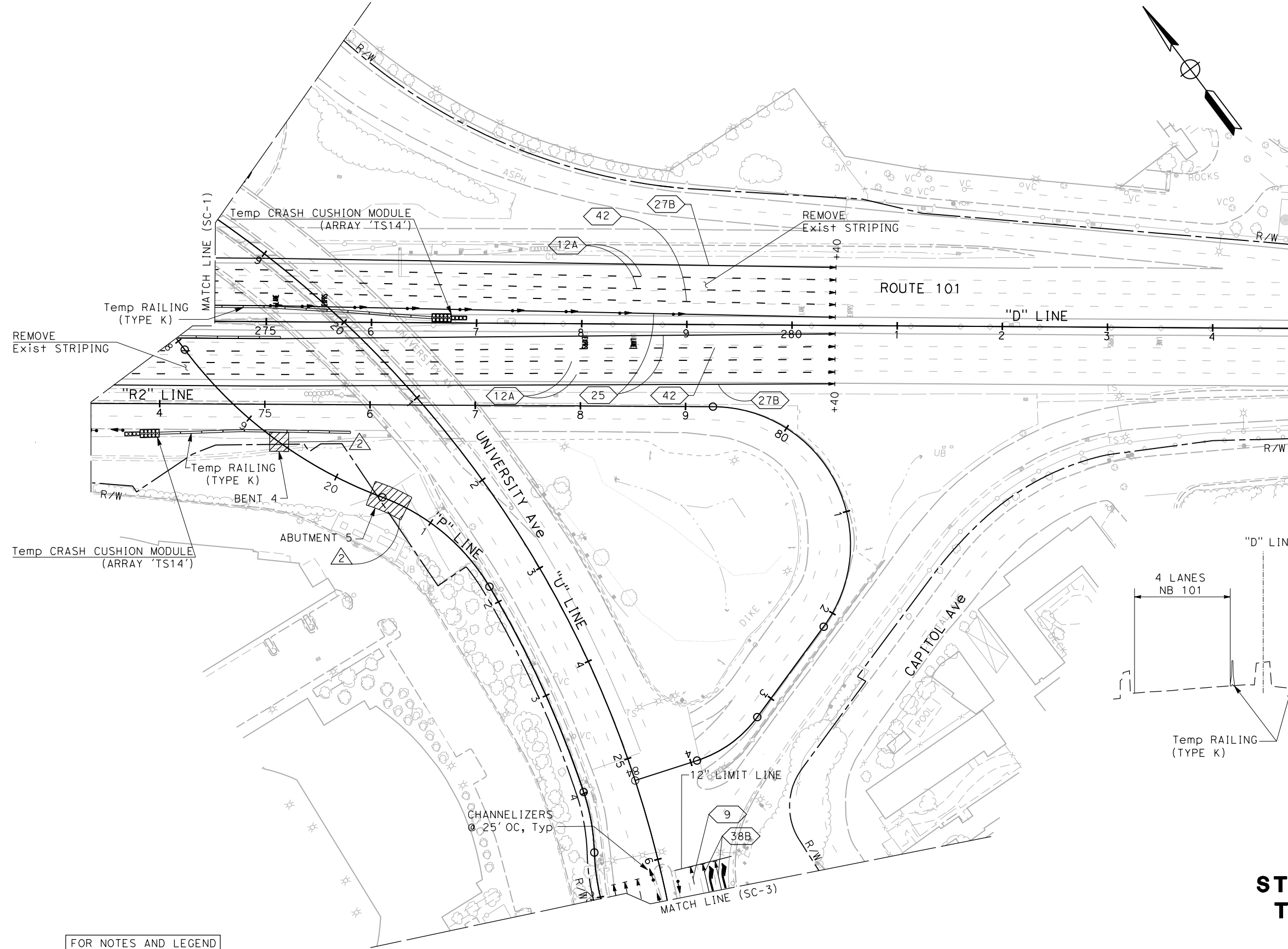
REGISTERED CIVIL ENGINEER DATE 9-15-22

PLANS APPROVAL DATE 9-30-22

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

AECOM  
4 N. SECOND St  
SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**  
**STAGE 1**  
SCALE 1" = 50'

**SC-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

REVISOR: JC, 9-15-22  
REVISOR: JOSE CORONEL, DANIEL HO  
DESIGNER: HOWARD MICHAEL  
CHECKER: DANIEL HO

FOR NOTES AND LEGEND  
SEE SHEET SC-1

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

LAST REVISION DATE PLOTTED => 10/27/2022  
TIME PLOTTED => 10:26:02 AM  
9-15-22





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	50	136
			9-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	PLANS APPROVAL DATE	
AECOM 4 N. SECOND St SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

**NOTE:**

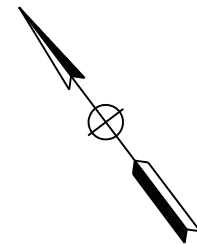
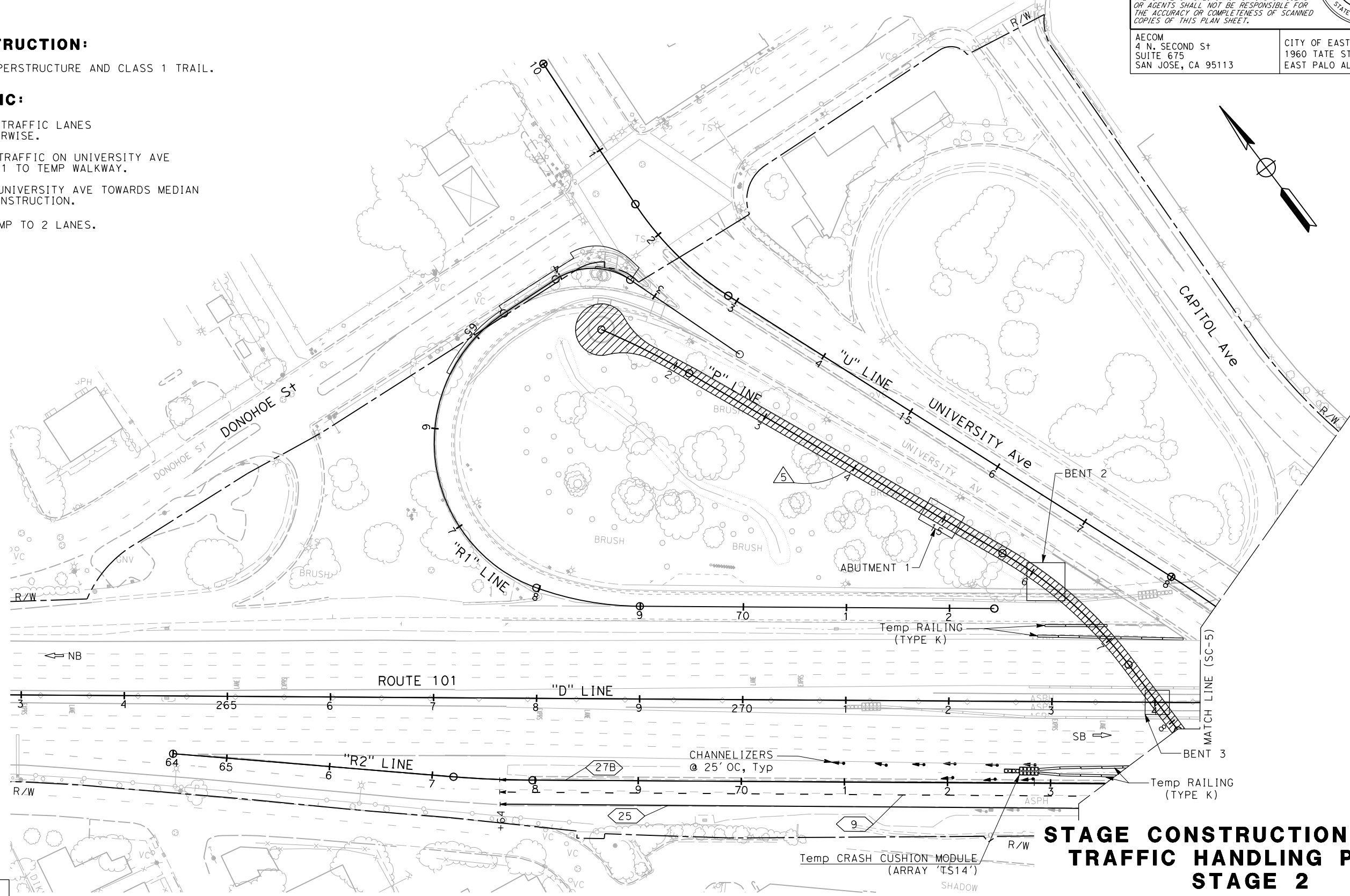
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**STAGE 2 CONSTRUCTION:**

- 5 CONSTRUCT POC SUPERSTRUCTURE AND CLASS 1 TRAIL.

**STAGE 2 TRAFFIC:**

- 5 MAINTAIN EXISTING TRAFFIC LANES UNLESS SHOWN OTHERWISE.
- 6 SHIFT PEDESTRIAN TRAFFIC ON UNIVERSITY AVE SOUTH OF ROUTE 101 TO TEMP WALKWAY.
- 7 SHIFT TRAFFIC ON UNIVERSITY AVE TOWARDS MEDIAN TO ACCOMMODATE CONSTRUCTION.
- 7A RESTORE SB OFF-RAMP TO 2 LANES.



**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN  
STAGE 2  
SCALE 1" = 50'**

FOR NOTES AND LEGEND  
SEE SHEET SC-1

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

**SC-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
Howard Michael	Howard Michael	Jose Coronel	9-15-22
Jose Coronel	Daniel Ho	Jose Coronel	9-15-22
Jose Coronel	Daniel Ho	Jose Coronel	9-15-22

**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	SM	101	0.8/1.1	51	136

REGISTERED CIVIL ENGINEER DATE 9-15-22

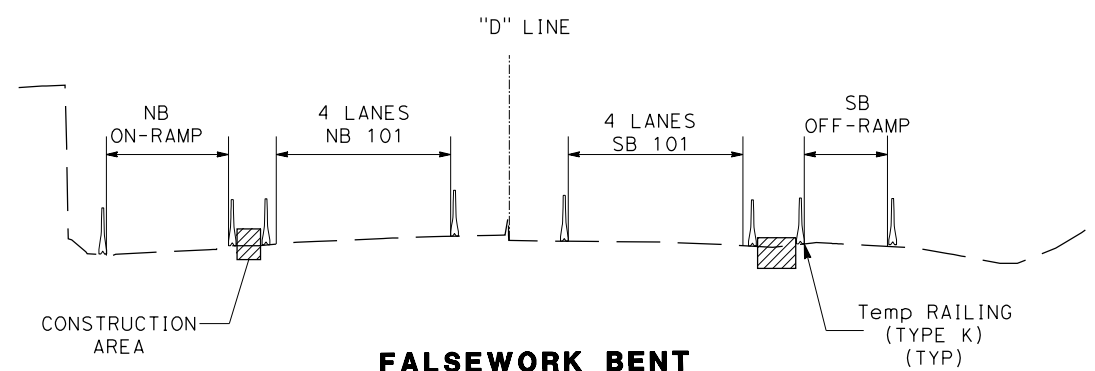
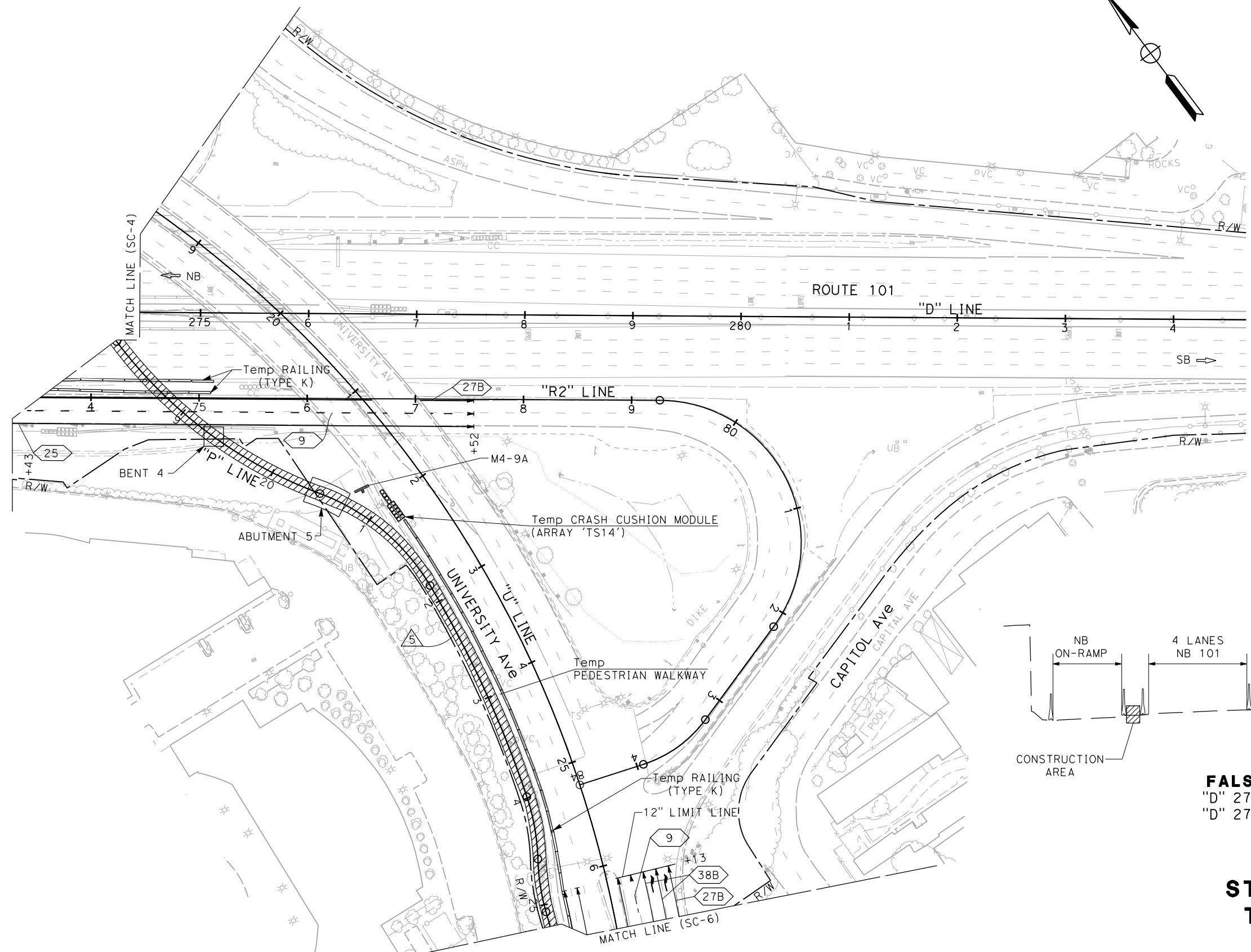
PLANS APPROVAL DATE 9-30-22

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

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AECOM  
4 N. SECOND ST  
SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



**FALSEWORK BENT**  
"D" 273+50 TO 273+70  
"D" 274+50 TO 274+70  
NO SCALE

**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**  
**STAGE 2**  
SCALE 1" = 50'

**SC-5**

FOR NOTES AND LEGEND  
SEE SHEET SC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HOWARD MICHAEL	CONSULTANT FUNCTIONAL SUPERVISOR	HOWARD MICHAEL	CHECKED BY	JOSE CORONEL	REVISOR	JOSE CORONEL	DATE	9-15-22

DATE PLOTTED => 10/27/2022  
TIME PLOTTED => 10:50:56 AM  
LAST REVISION 9-15-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY	JC
<b>Caltrans</b>	HOWARD MICHAEL	CHECKED BY	DATE REVISED	9-15-22
			JOSE CORONEL	
			DANIEL HO	

**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	SM	101	0.8/1.1	52	136

REGISTERED CIVIL ENGINEER DATE 9-15-22

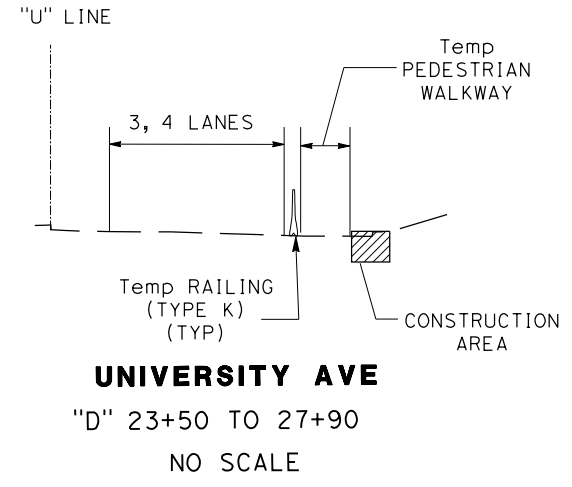
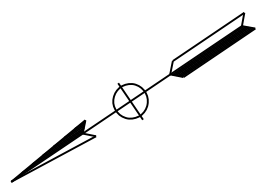
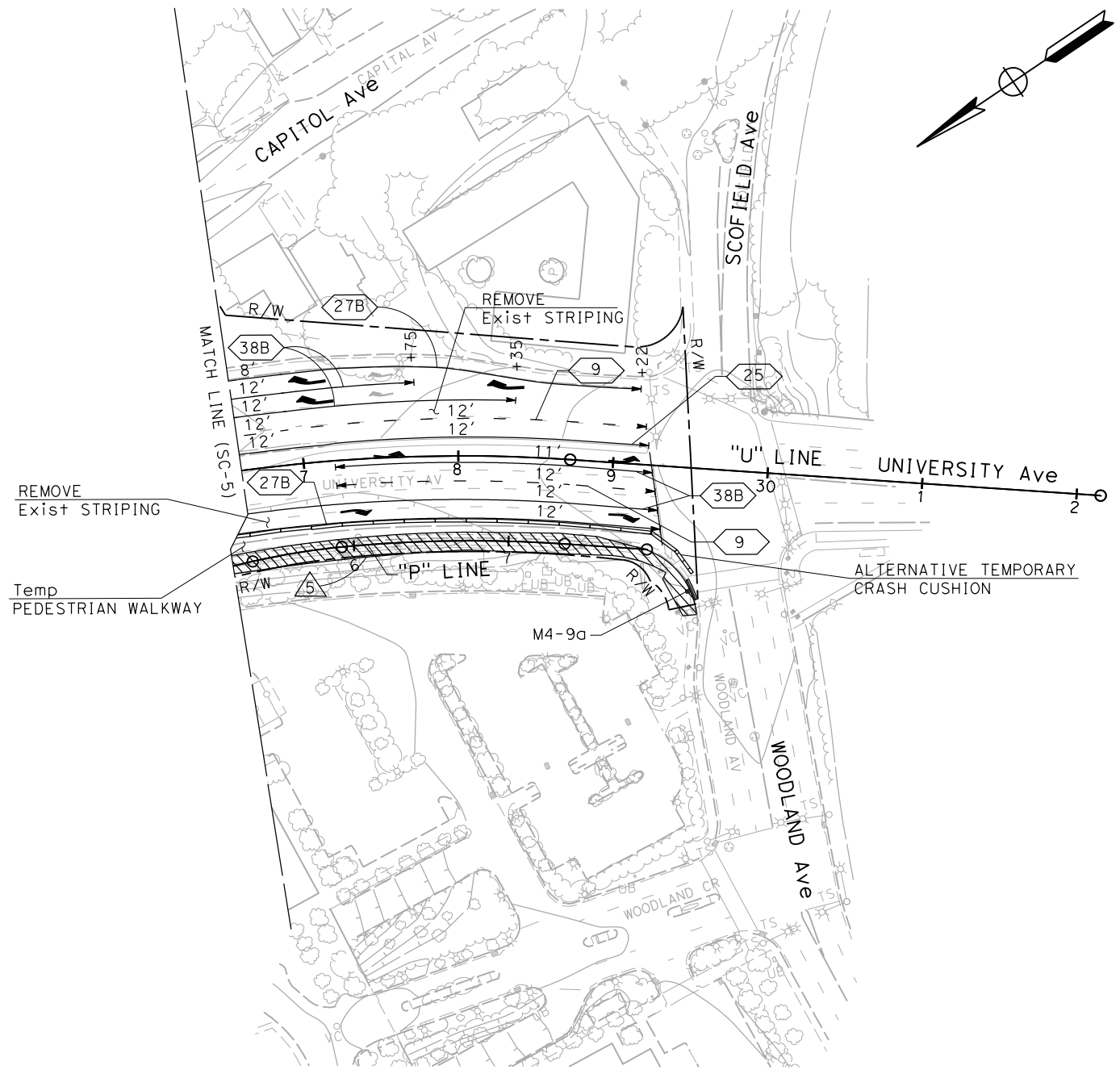
PLANS APPROVAL DATE 9-30-22

DANIEL HO  
No. 50914  
Exp. 9-30-23  
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.

AECOM  
4 N. SECOND St  
SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**  
**STAGE 2**  
SCALE 1" = 50'

**SC-6**

FOR NOTES AND LEGEND  
SEE SHEET SC-1

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

LAST REVISION DATE PLOTTED => 10/27/2022 TIME PLOTTED => 10:30:37 AM 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	53	136

REGISTERED CIVIL ENGINEER	DATE
	9-15-22
PLANS APPROVAL DATE	
9-30-22	

REGISTERED PROFESSIONAL ENGINEER DANIEL HO No. 50914 Exp. 9-30-23 CIVIL STATE OF CALIFORNIA	
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303

**NOTE:**

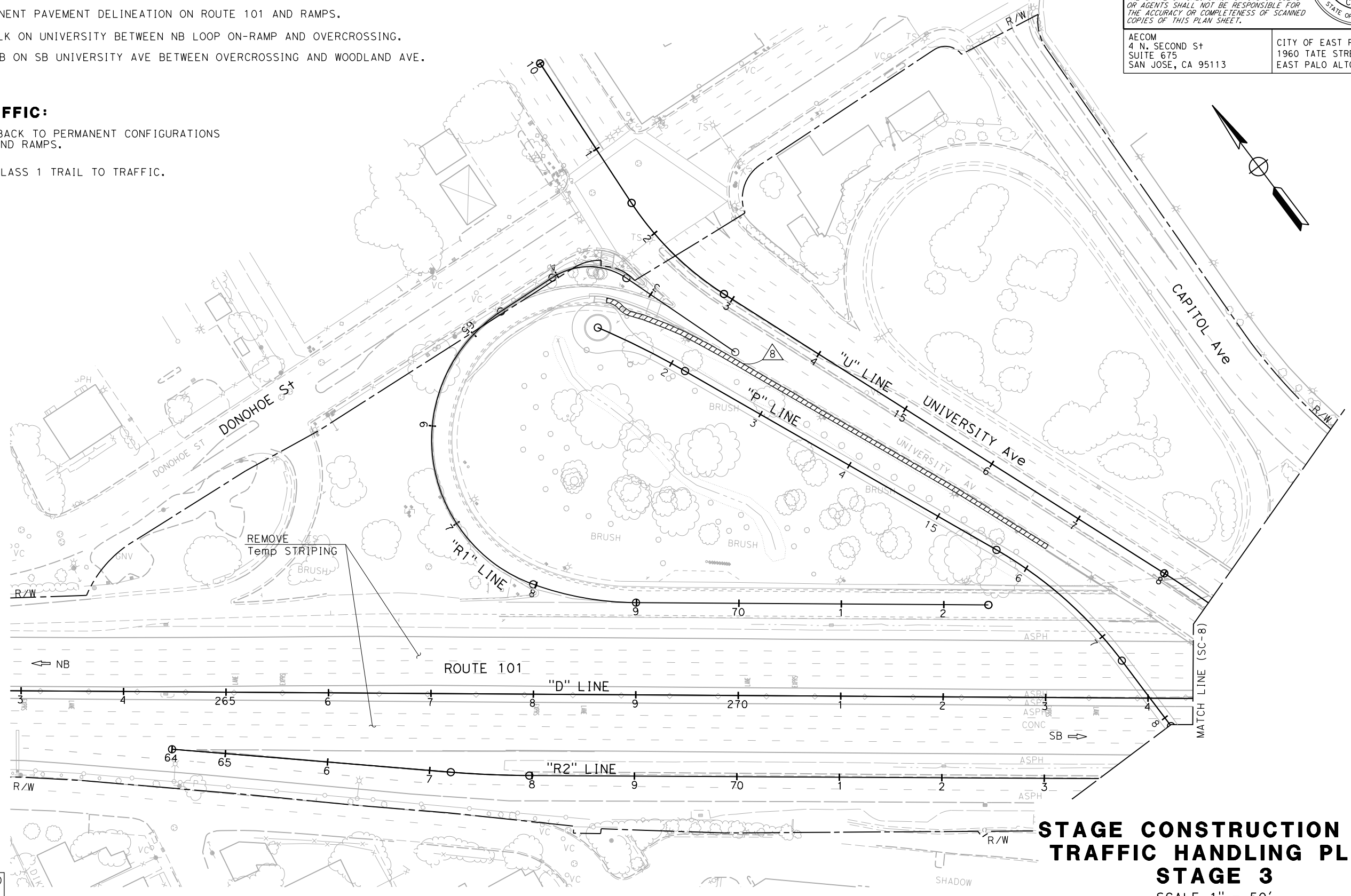
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**STAGE 3 CONSTRUCTION:**

- 7 RESTORE PERMANENT PAVEMENT DELINEATION ON ROUTE 101 AND RAMPS.
- 8 REMOVE SIDEWALK ON UNIVERSITY BETWEEN NB LOOP ON-RAMP AND OVERCROSSING.
- 9 CONSTRUCT CURB ON SB UNIVERSITY AVE BETWEEN OVERCROSSING AND WOODLAND AVE.

**STAGE 3 TRAFFIC:**

- 8 SHIFT TRAFFIC BACK TO PERMANENT CONFIGURATIONS ON ROUTE 101 AND RAMPS.
- 9 OPEN POC AND CLASS 1 TRAIL TO TRAFFIC.



FOR NOTES AND LEGEND  
SEE SHEET SC-1

**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**  
**STAGE 3**  
SCALE 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

**SC-7**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
	HOWARD MICHAEL	CHECKED BY	JOSE CORONEL	9-15-22
			DANIEL HO	

LAST REVISION DATE PLOTTED => 10/27/2022  
 TIME PLOTTED => 10:32:22 AM  
 9-15-22

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

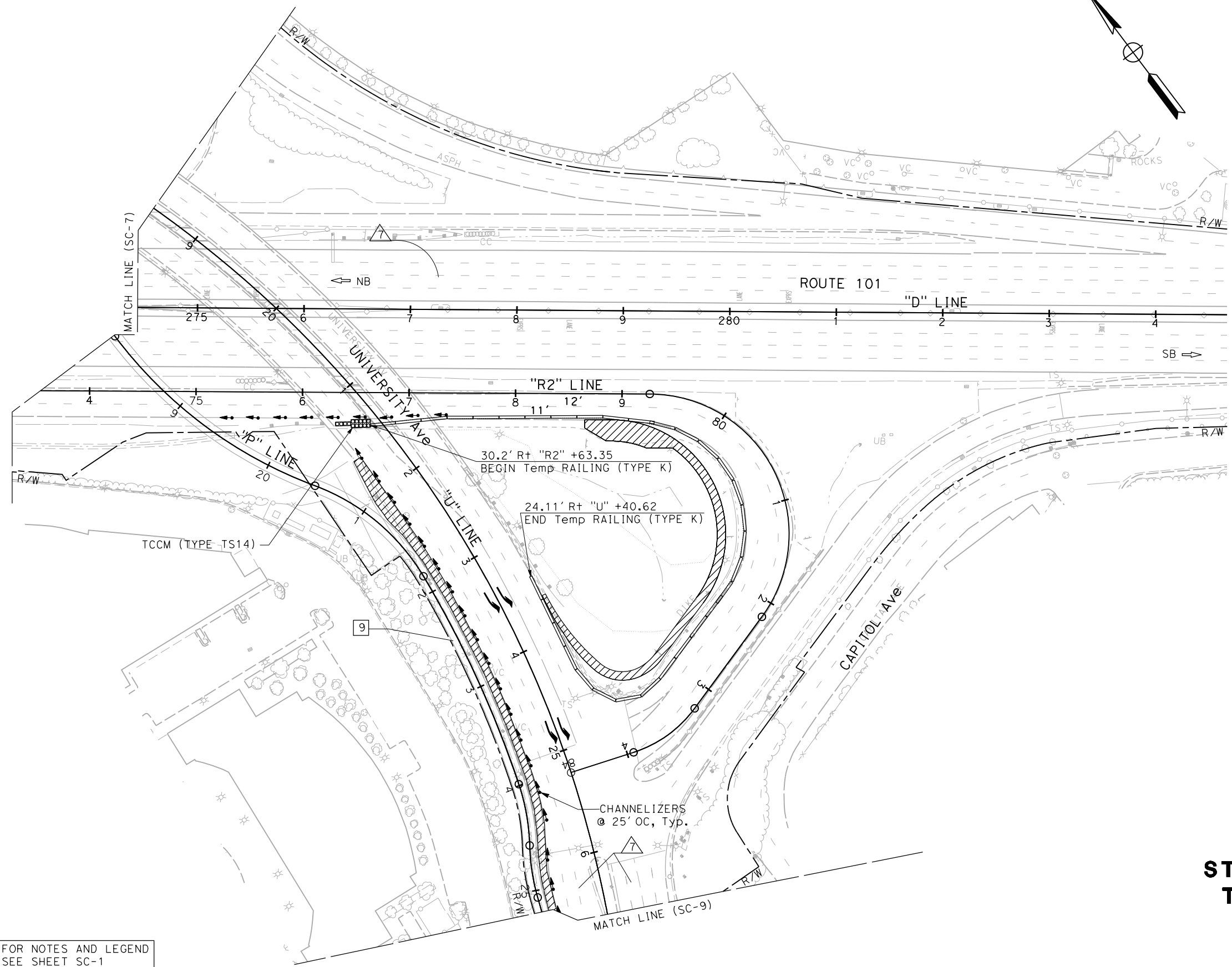
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	54	136

REGISTERED CIVIL ENGINEER	DATE	9-15-22
PLANS APPROVAL DATE		9-30-22

REGISTERED PROFESSIONAL ENGINEER <b>DANIEL HO</b> No. 50914 Exp. 9-30-23 CIVIL STATE OF CALIFORNIA	
AECOM 4 N. SECOND St SUITE 675 SAN JOSE, CA 95113	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303



**STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**  
**STAGE 3**  
 SCALE 1" = 50'

**SC-8**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HOWARD MICHAEL	JOSE CORONEL	JC
CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
DESIGNED BY	DANIEL HO	REVISOR	DATE
DESIGNED BY	DANIEL HO	REVISOR	DATE

FOR NOTES AND LEGEND  
 SEE SHEET SC-1

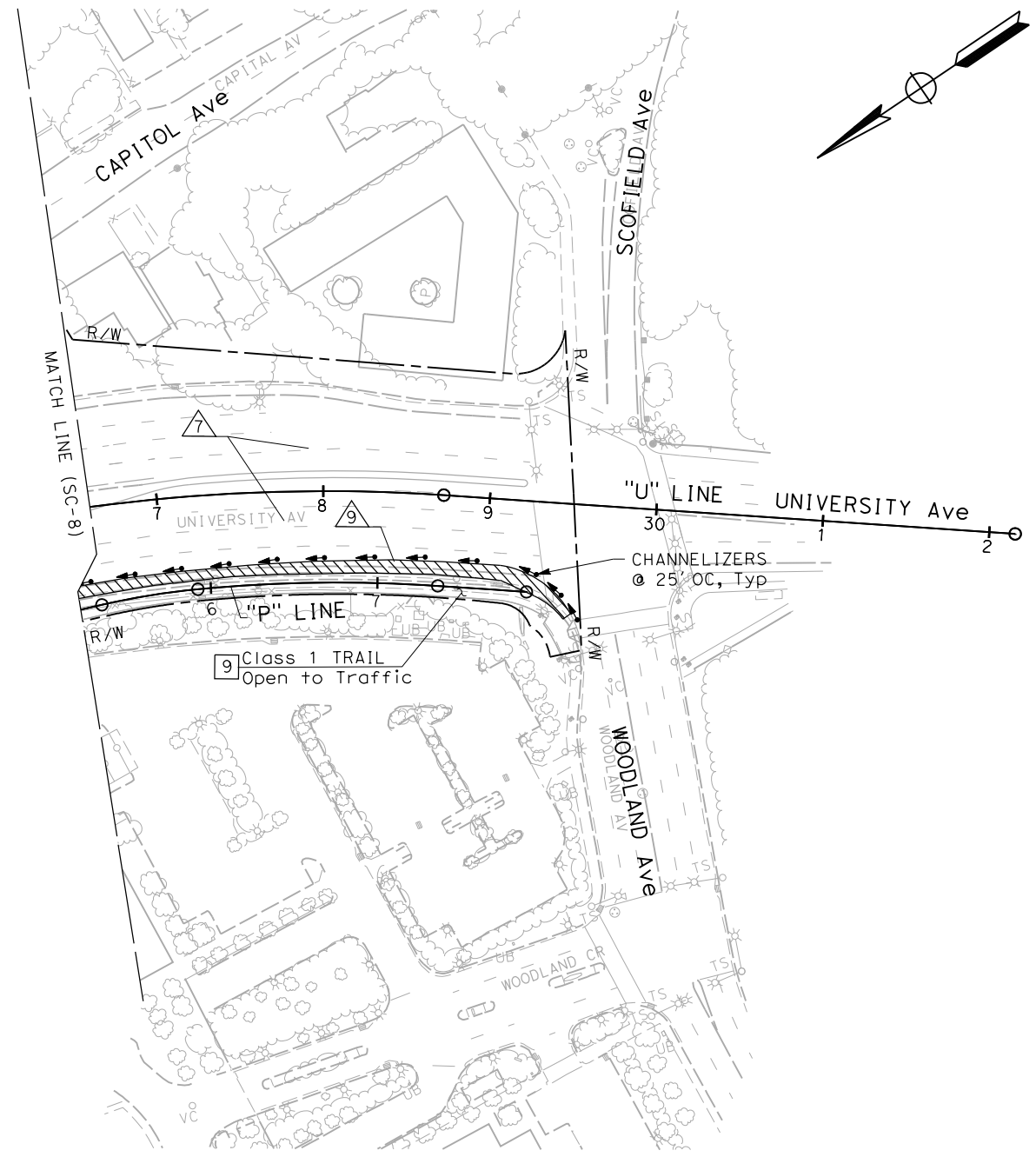
APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

DATE PLOTTED => 10/27/2022  
 TIME PLOTTED => 10:32:38 AM  
 9-15-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	JOSE CORONEL	REVISED BY	JC
	HOWARD MICHAEL	CHECKED BY	DANIEL HO	DATE REVISED	9-15-22

**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	SM	101	0.8/1.1	55	136
			REGISTERED CIVIL ENGINEER	DATE	9-15-22
			PLANS APPROVAL DATE	9-30-22	
<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>			AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113		
			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



FOR NOTES AND LEGEND  
SEE SHEET SC-1

**STAGE CONSTRUCTION AND  
TRAFFIC HANDLING PLAN  
STAGE 3**  
SCALE 1" = 50'

**SC-9**

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

LAST REVISION DATE PLOTTED => 10/27/2022  
 9-15-22 TIME PLOTTED => 10:34:26 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	56	136

REGISTERED CIVIL ENGINEER DATE 9-15-22  
 PLANS APPROVAL DATE 9-30-22

REGISTERED PROFESSIONAL ENGINEER  
 DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

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CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

### TEMPORARY PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION	DETAIL No.	PAINT TRAFFIC STRIPE (2-COAT)		PAINT PAVEMENT MARKING (2 COAT) [N]			REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE PAVEMENT MARKER
			LF	EA	DESCRIPTION	EA [N]	SQFT	SQFT	LF	LF	EA
SC-1, SC-2	NB ROUTE 101	27B	1320						1320		58
		12A	2640	58							29
		25	1320	29					1320		29
		42	1320	29							29
	SB ROUTE 101	27B	1162						1162		56
		12A	2324	56						1162	29
		25	1162	28							28
		42	1162	28							28
SC-2, SC-3	SB UNIVERSITY Ave	9	320	8					320		8
		10							320		
		27B	320						320		10
		37B							100		28
		38							420		
		38B	520	46							
	NB UNIVERSITY Ave	9	320	8							8
		10							320		
		27B							320		12
		37B		12					200		6
SC-4-SC-6	SB ROUTE 101 OFF RAMP	9	1140	26					1140		69
		25	1627	69					1588		
		27B	1588								
	SB UNIVERSITY Ave	9	206	6					320		8
		27B	310						320		46
		38B	515	46					520		
					TYPE III (R) ARROW	2	84	84			
	NB UNIVERSITY Ave				TYPE III (L) ARROW	2	84	84			
		9	312	7					320		8
		25	305	8						100	3
27B		320						320			
TOTAL			20,823	521			822	942	12,037	4209	492

[N] = NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Jose Coronel  
 Daniel Ho  
 Howard Michael  
 9-15-22



## STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES

**SCQ-1**

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

DATE PLOTTED => 10/27/2022  
 TIME PLOTTED => 10:34:07 AM



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR HOWARD MICHAEL  
 CALCULATED-DESIGNED BY JOSE CORONEL  
 CHECKED BY DANIEL HO  
 REVISED BY JC  
 DATE REVISED 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	57	136

REGISTERED CIVIL ENGINEER DATE 9-15-22  
 PLANS APPROVAL DATE 9-30-22

DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

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AECOM  
 4 N. SECOND St  
 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

**TEMPORARY RAILING (TYPE K)**

STATION	TEMPORARY RAILING (TYPE K) LF
<b>STAGE 1</b>	
"D" 271+34 R+ TO "D" 275+00 R+	400
"R1" 71+80 L+ TO "D" 274+00 L+	220
"D" 272+80 L+ TO "D" 276+60 L+	380
"R2" 74+00 R+ TO "R2" 75+82 R+	182
<b>STAGE 2</b>	
"D" 272+90 L+ TO "D" 274+40 L+	200
"D" 272+80 R+ TO "D" 275+20 R+	480
"U" 21+20 R+ TO "U" 29+20 R+	700
<b>STAGE 3</b>	
"R2" 76+63 R+ TO "U" 23+40 L+	768
<b>TOTAL</b>	<b>3330</b>

**TEMPORARY CRASH CUSHION MODULE**

SHEET No.	STATION	ARRAY	EA
SC-1	"D" 271+00 R+	TS-14	14
SC-1	"D" 274+00 L+	TS-14	14
SC-2	"D" 276+60 L+	TS-14	14
SC-2	"D" 273+70 R+	TS-14	14
SC-4	"D" 272+60 R+	TS-14	14
SC-5	"U" 21+00 R+	TS-14	14
SC-8	"R2" 76+31 R+	TS-14	14
<b>TOTAL</b>			<b>98</b>

**ALTERNATIVE TEMPORARY CRASH CUSHION**

SHEET No.	STATION	EA
SC-6	"U" 29+45 R+	1
<b>TOTAL</b>		<b>1</b>

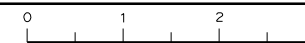
**CHANNELIZER**

SHEET No.	LOCATION	EA
SC-1	"D" 274+16 L+ TO "D" 274+80 L+	6
	"R1" 62+43.56 L+ TO 66+00 L+	20
	"R2" 72+28 R+ TO "R2" 73+66 R+	6
SC-2	"D" 275+00 L+ TO "D" 279+00 L+	16
SC-3	"U" 26+00 TO "U" 29+30	28
SC-4	"D" 271+00 R+ TO "D" 272+80 R+	9
SC-8	"R2" 75+23 R+ TO "R2" 77+34 R+	9
SC-8 & SC-9	"U" 20+40 R+ TO "U" 29+30 R+	31
<b>TOTAL</b>		<b>125</b>

**STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES**

**SCQ-2**

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	58	136

REGISTERED CIVIL ENGINEER	DATE
DANIEL HO	9-15-22
PLANS APPROVAL DATE	
9-30-22	

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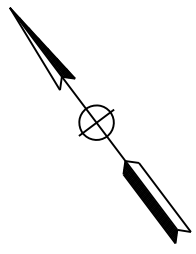
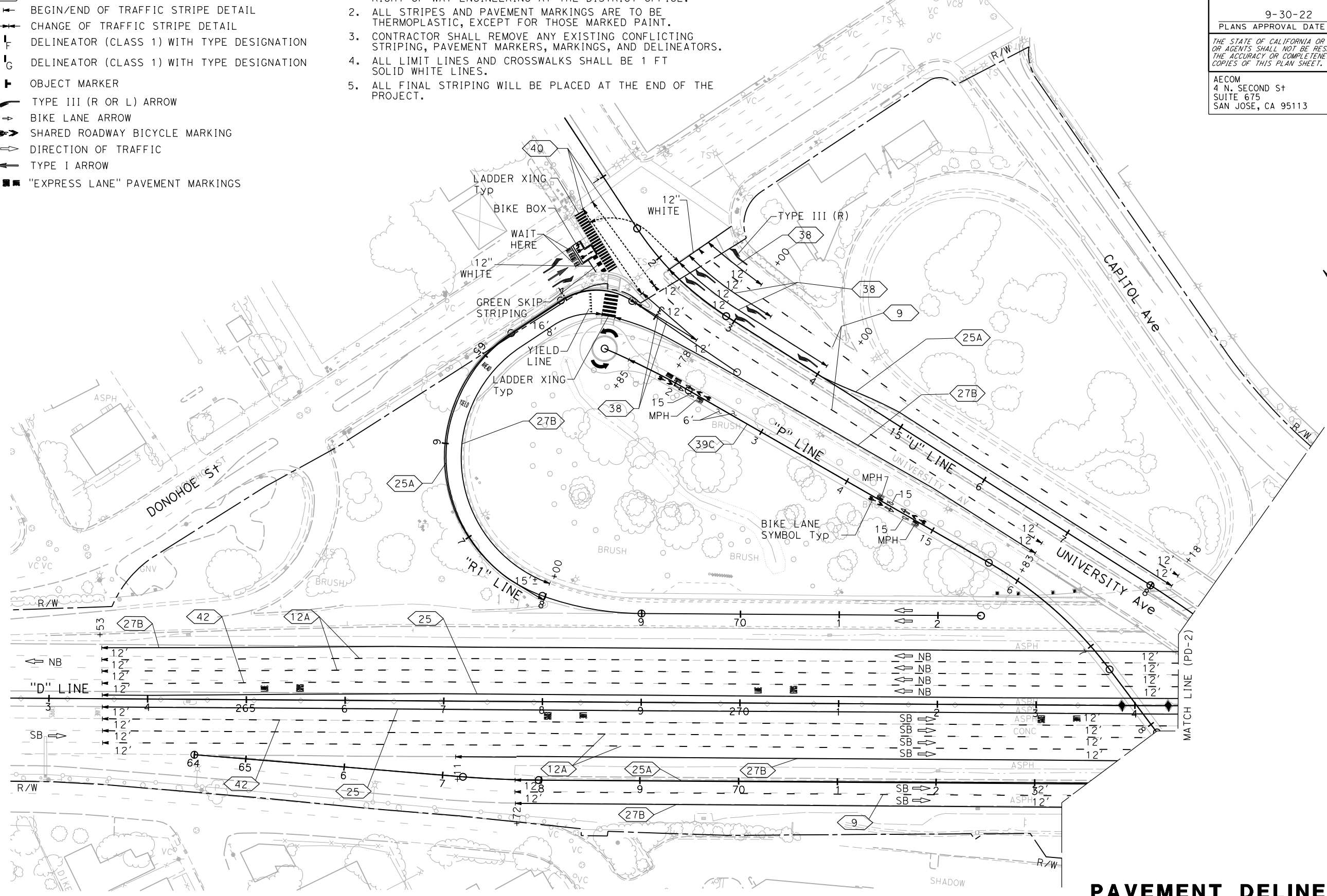
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
--	--

**LEGEND:**

- STANDARD PAVEMENT DELINEATION DETAIL No.
- BEGIN/END OF TRAFFIC STRIPE DETAIL
- CHANGE OF TRAFFIC STRIPE DETAIL
- DELINEATOR (CLASS 1) WITH TYPE DESIGNATION
- DELINEATOR (CLASS 1) WITH TYPE DESIGNATION
- OBJECT MARKER
- TYPE III (R OR L) ARROW
- BIKE LANE ARROW
- SHARED ROADWAY BICYCLE MARKING
- DIRECTION OF TRAFFIC
- TYPE I ARROW
- "EXPRESS LANE" PAVEMENT MARKINGS

**NOTES:**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ALL STRIPES AND PAVEMENT MARKINGS ARE TO BE THERMOPLASTIC, EXCEPT FOR THOSE MARKED PAINT.
3. CONTRACTOR SHALL REMOVE ANY EXISTING CONFLICTING STRIPING, PAVEMENT MARKERS, MARKINGS, AND DELINEATORS.
4. ALL LIMIT LINES AND CROSSWALKS SHALL BE 1 FT SOLID WHITE LINES.
5. ALL FINAL STRIPING WILL BE PLACED AT THE END OF THE PROJECT.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
Howard Michael	Jose Coronel	JC	9-15-22
Checked by	Checked by	Revised by	Revised by
Daniel Ho	Daniel Ho	Daniel Ho	Daniel Ho



**PAVEMENT DELINEATION PLAN**  
SCALE 1" = 50'

**PD-1**

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

LAST REVISION    DATE PLOTTED => 10/27/2022    TIME PLOTTED => 10:40:04 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	59	136

REGISTERED CIVIL ENGINEER	DATE
9-30-22	9-15-22
PLANS APPROVAL DATE	

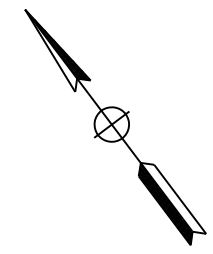
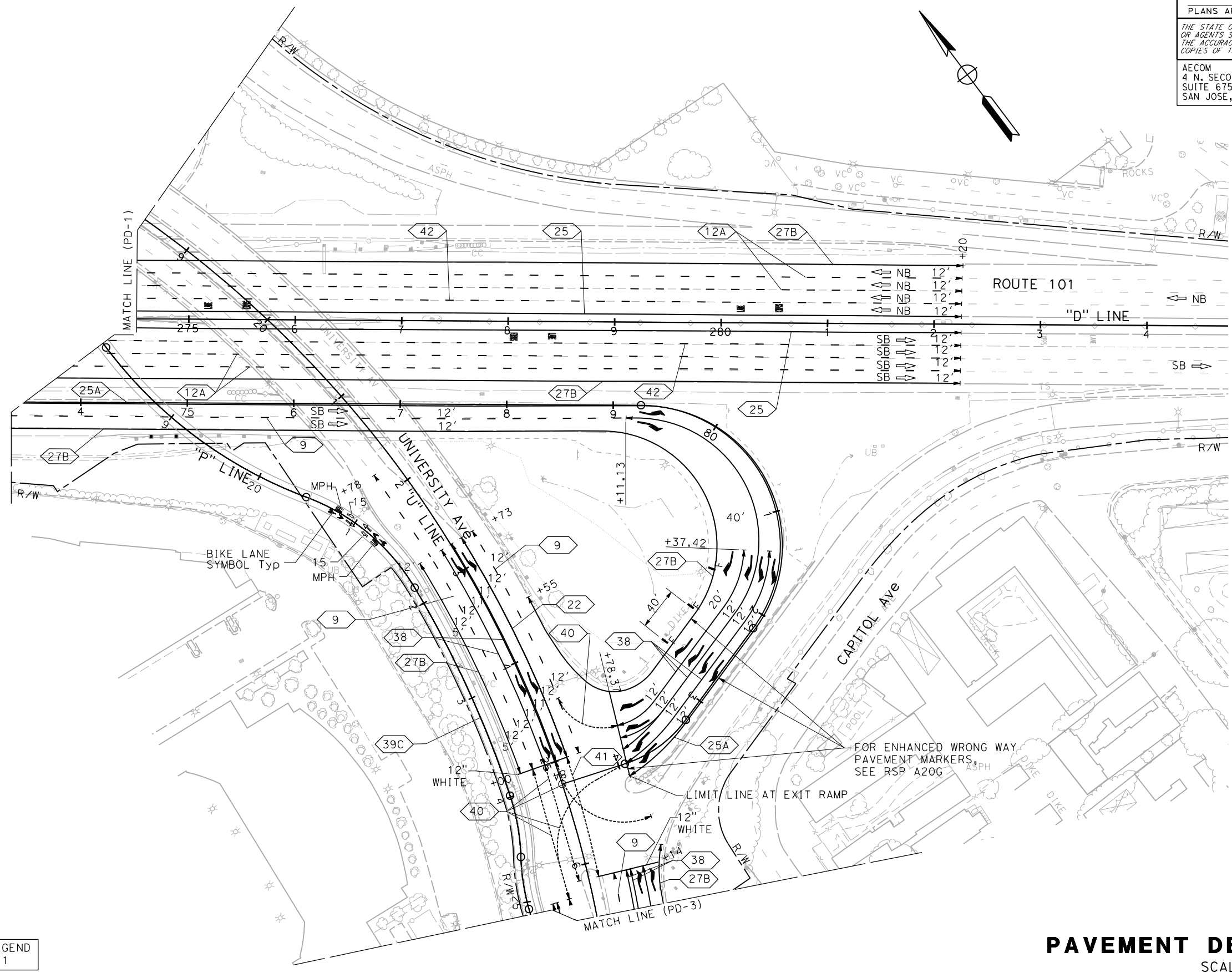
  

REGISTERED PROFESSIONAL ENGINEER No. 50914 Exp. 9-30-23 CIVIL STATE OF CALIFORNIA	DANIEL HO
---	-----------

AECOM 4 N. SECOND St SUITE 675 SAN JOSE, CA 95113	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
--	--

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR	HOWARD MICHAEL
CALCULATED-DESIGNED BY	CHECKED BY
JOSE CORONEL	DANIEL HO
REVISED BY	DATE REVISED
JC	9-15-22

FOR NOTES AND LEGEND  
 SEE SHEET PD-1

**PAVEMENT DELINEATION PLAN**  
 SCALE 1" = 50'  
**PD-2**

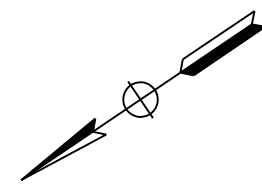
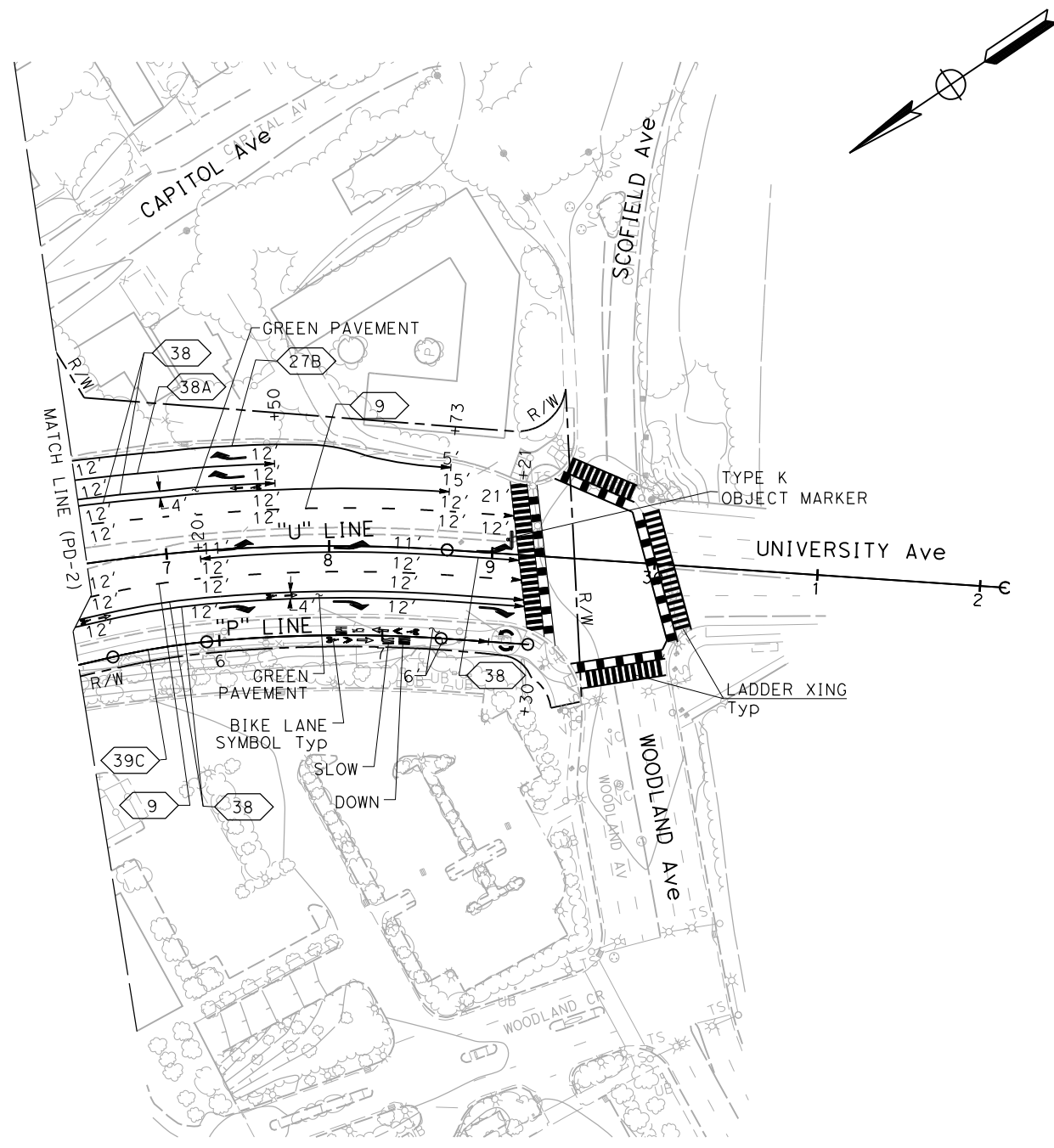
APPROVED FOR PAVEMENT DELINEATION WORK ONLY

LAST REVISION    DATE PLOTTED => 10/27/2022    TIME PLOTTED => 10:39:50 AM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HOWARD MICHAEL	JOSE CORONEL	JC
CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
DESIGNED BY	DANIEL HO	9-15-22	

**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	SM	101	0.8/1.1	60	136
			REGISTERED CIVIL ENGINEER	DATE	9-15-22
			PLANS APPROVAL DATE	9-30-22	
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



FOR NOTES AND LEGEND  
SEE SHEET PD-1

# PAVEMENT DELINEATION PLAN

SCALE 1" = 50'

**PD-3**

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

LAST REVISION: 9-15-22  
 DATE PLOTTED => 10/27/2022  
 TIME PLOTTED => 10:42:13 AM

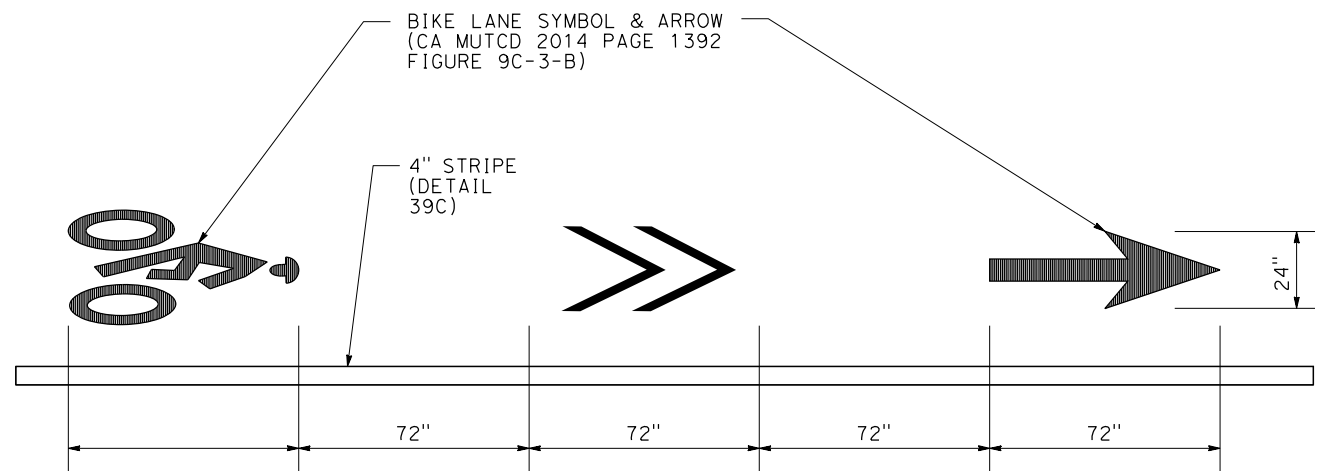
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CHECKED BY: NELSON HOM  
 REVISIONS:  
 JC 9-15-22  
 ELIE ABI-JAOUDE 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	61	136

REGISTERED CIVIL ENGINEER: DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 DATE: 9-15-22  
 PLANS APPROVAL DATE: 9-30-22

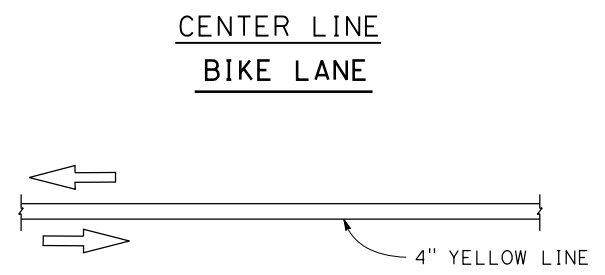
AECOM  
 4 N. SECOND St  
 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

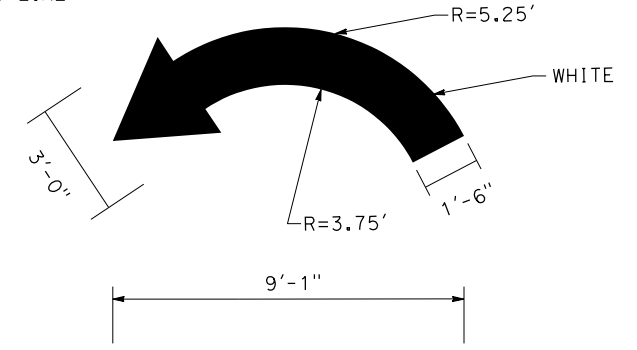


- NOTES:**
1. LONGITUDINAL SPACING MEASURED FROM THE BASE OF EACH MARKING.
  2. FOR LONG BLOCKS, LOCATE A MARKING EVERY 250'.
  3. DO NOT LOCATE MARKINGS ALONG DETAIL 39A BIKE LANE SKIP STRIPES ON INTERSECTION APPROACHS.

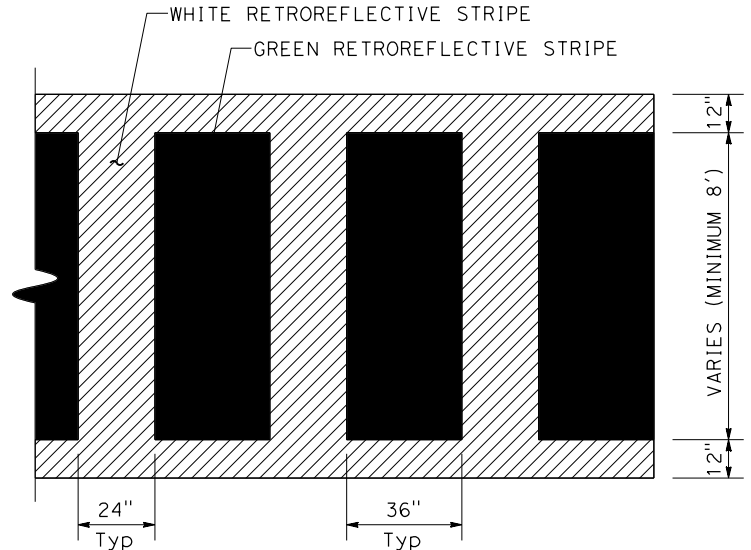
**BIKE LANE SYMBOL, ARROW, AND STRIPING FOR CLASS I PATH**



**DETAIL 39C**

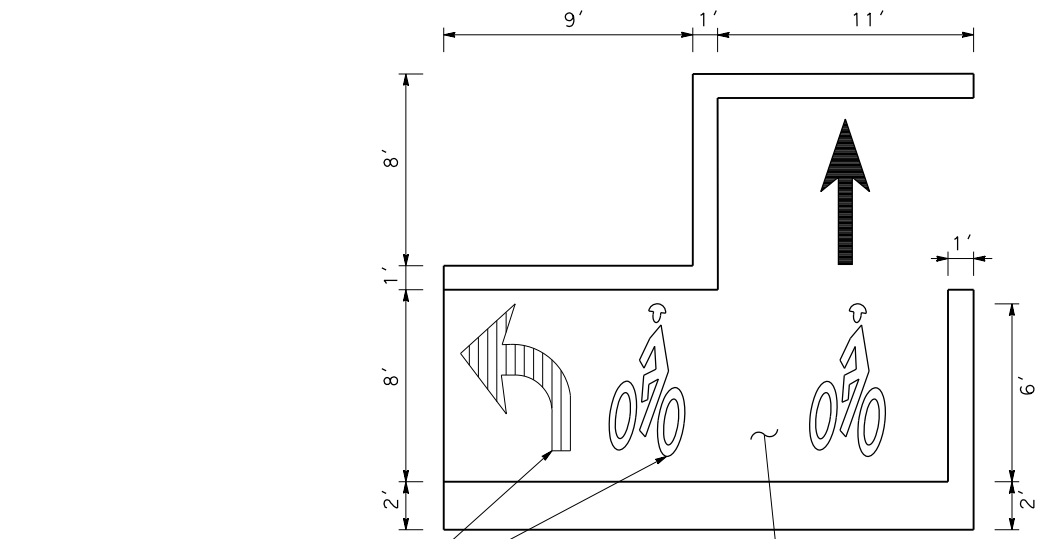


**SMALL LANDING ARROW DETAIL**



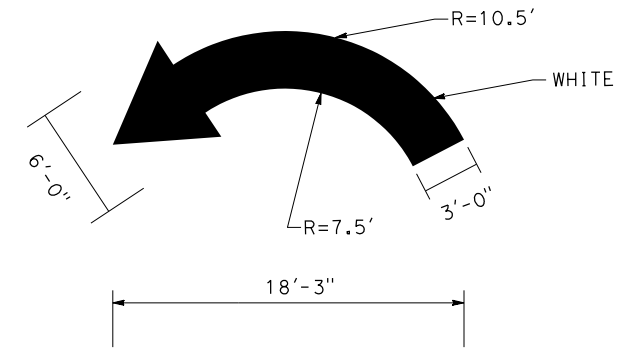
**NOTE:**  
 THIS DETAIL SHOULD BE USED AT LOCATIONS WHERE A BICYCLIST/PEDESTRIAN PATH CROSSES AN INTERSECTING STREET. THIS DETAIL MAY BE USED WHERE DRIVEWAYS CROSS A BICYCLIST/PEDESTRIAN PATH.

**LADDER CROSSWALK FOR BICYCLIST/PEDESTRIAN PATHS**

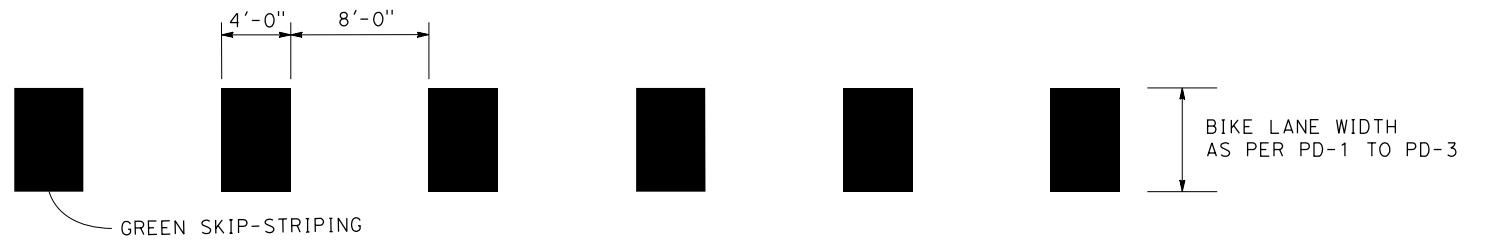


BIKE LANE SYMBOL & ARROW (CA MUTCD 2014 PAGE 1392 FIGURE 9C-3-B)

**BIKE BOX DETAIL**



**LARGE LANDING ARROW DETAIL**



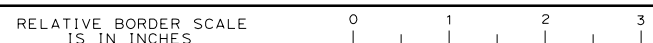
**GREEN SKIP-STRIPING DETAIL**

**PAVEMENT DELINEATION DETAILS**

NO SCALE

**PDD-1**

APPROVED FOR PAVEMENT DELINEATION WORK ONLY



DATE PLOTTED => 10/27/2022  
 TIME PLOTTED => 10:41:32 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	62	136

9-15-22  
REGISTERED CIVIL ENGINEER DATE

9-30-22  
PLANS APPROVAL DATE

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

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4 N. SECOND St  
SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303

### PAVEMENT DELINEATION QUANTITIES

SHEET No.	STATION LIMITS	SIDE	DETAIL No. OR PAVEMENT MARKING	LENGTH [N]	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)								THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)		BIKE LANE MARKING	OBJECT MARKER (TYPE K)	
					RETRO-REFLECTIVE					9	12A	22,25,25A	27B	38,38B	39C	40	41	42	EA [N]	SQFT	SQFT	EA
					TYPE C	TYPE D	TYPE G	TYPE R	TYPE RY	6" WHITE (BROKEN 17-7)	6" WHITE (BROKEN 18-12)	6" YELLOW SOLID	6" WHITE SOLID	8" WHITE SOLID	4" YELLOW (SOLID)	6" WHITE (BROKEN 6-1)	6" YELLOW (BROKEN 6-1)	8" WHITE (BROKEN 18-12)				
					LF	EA					LF	LF	LF	LF	LF	LF	LF	LF				
PD-1 PD-2	NB Route 101 "D" 263+53 TO "D" 282+20	L+	12A	3776	80					39	3776	1872										
		L+	25	1872																		
		L+	27B	1872								1872										
		L+	EXPRS LANE														4	216				
		L+	42	1872	130																	
		L+	12A	3744	80						3744											
	SB Route 101 "D" 263+53 TO "D" 282+20	R+	25	1899						80	1899											
		R+	27B	1270								1270										
		R+	EXPRS LANE														4	216				
		R+	42	1899	130																	
		R+	9	1140			25				1140											
		R+	25A	1627					96			1627										
PD-1	NB Route 101 OFF-RAMP "R1" 68+00 TO "U" 16+83	R+	27B	1588				42			1588											
		R+	25A	486					22		486											
		L+	27B	884								884										
		R+	38B	60	3								60									
		L+ / R+	CROSSWALK														1	240				
		L+	YIELD LINE															24				
	SB UNIVERSITY Ave "U" 11+15 TO "U" 16+83	L+	YIELD															24				
		L+	AHEAD															31				
		R+	9	472			11				472											
		R+	38	144			8						144									
		R+	CROSSWALK															800	60			
		R+	40	211										211								
PD-2	NB UNIVERSITY Ave "U" 12+15 TO "U" 18+18	R+	LIMIT LINE	15														15				
		R+	TYPE III (L) ARROW															42				
		R+	TYPE III (R) ARROW															42				
		R+	TYPE I ARROW															31				
		R+	WAIT MARKING															2	38			
		R+	HERE MARKING															2	52			
	SB UNIVERSITY Ave "U" 21+78 TO "U" 26+30	R+	BIKE BOX															108	250			
		L+	9	594			14				594											
		L+	25A	590					26			590										
		L+	38	355			16						355									
		L+	LIMIT LINE	80															80			
		L+	TYPE III (L) ARROW															5	210			
PD-3	SB UNIVERSITY Ave "U" 26+14 TO "U" 30+33	L+	TYPE III (R) ARROW														1	42				
		L+/R+	40	108																		
		R+	9	315			8				315											
		R+	27B	220									220									
		L+/R+	38	452			21							452								
		R+	40	491											491							
SHEET TOTAL OF PDQ-1					423	22	151	42	263	3053	7520	6934	5834	1776	0	810	116	3771	4145	1272	1	

[N] - NOT A SEPARATE BID ITEM.

### PAVEMENT DELINEATION QUANTITIES PDQ-1

DATE PLOTTED => 10/27/2022 10:42:29 AM



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	64	136
			9-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	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>			AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113		
			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

**NOTES:**

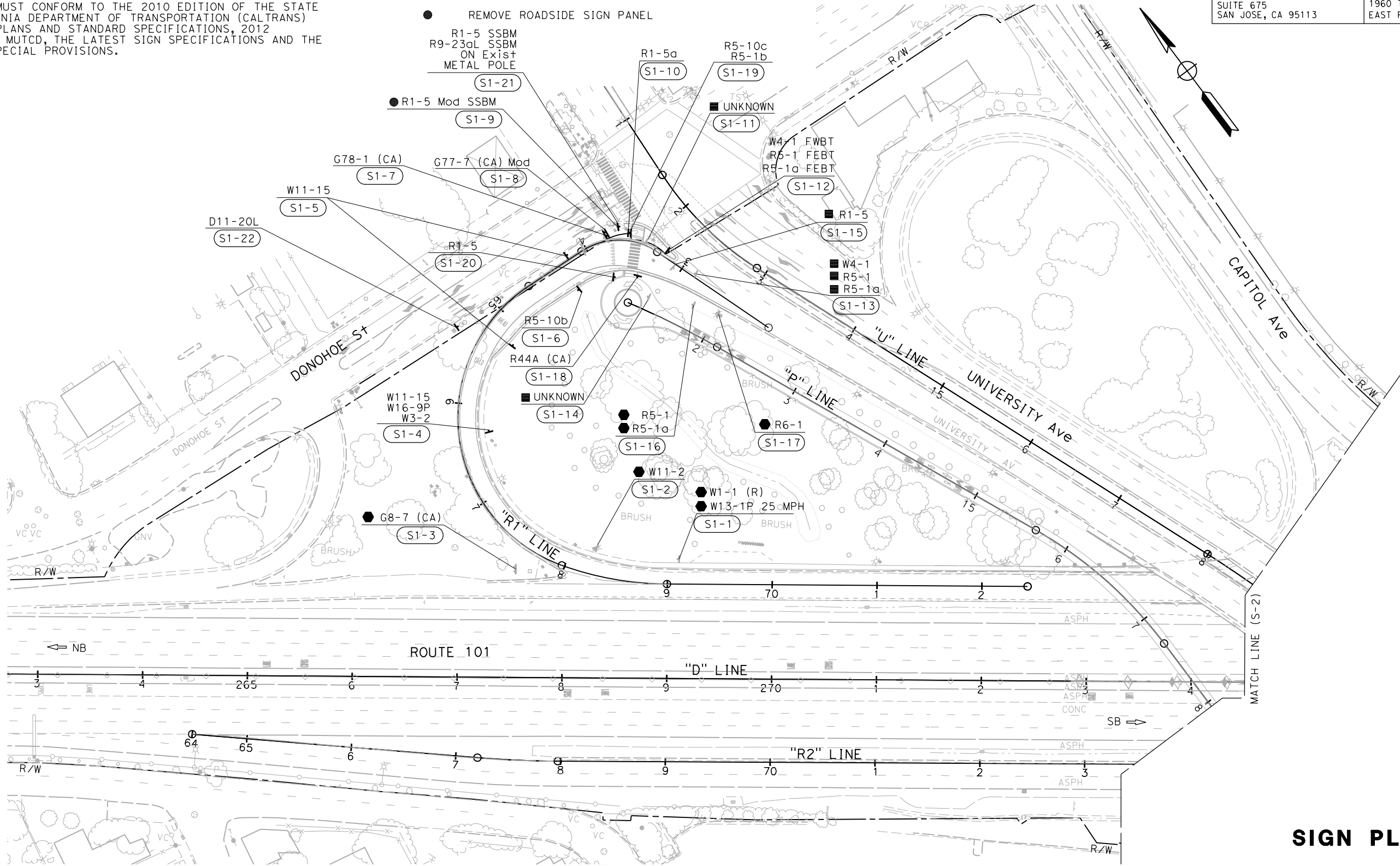
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXACT LOCATION AND POSITION OF ROADSIDE SIGNS SHALL BE DETERMINED BY THE ENGINEER.
- ALL ROADSIDE SIGNS ARE TO BE MOUNTED ON S4S WOOD POSTS, UNLESS OTHERWISE INDICATED.
- POST SIZE AND LENGTH GIVEN ARE APPROXIMATE, EXACT SIZE AND LENGTH TO BE DETERMINED BY THE ENGINEER.
- FOR POST AND SIGN DETAILS NOT SHOWN, REFER TO STANDARD PLAN SHEETS RS1 THROUGH RS4, S89 AND S93 THROUGH S95.
- ALL WORK MUST CONFORM TO THE 2010 EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND STANDARD SPECIFICATIONS, 2012 CALIFORNIA MUTCD, THE LATEST SIGN SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS.

**LEGEND:**

- OR EXISTING ROADSIDE SIGN
- OR PROPOSED ROADSIDE SIGN
- (X) ROADSIDE SIGN NUMBER
- EXISTING SIGN TO REMAIN
- ▲ RELOCATE ROADSIDE SIGN
- REMOVE ROADSIDE SIGN AND POST
- REMOVE ROADSIDE SIGN PANEL

**ABBREVIATION:**

- FEBT FACING EAST BOUND TRAFFIC
- FWBT FACING WEST BOUND TRAFFIC
- SSBM STRAP AND SADDLE BRACKET METHOD



**SIGN PLAN**

SCALE 1" = 50'

APPROVED FOR SIGN WORK ONLY

**S-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
Howard Michael	Jose Coronel	JC	9-15-22
Checked by	Checked by	Revised by	Revised by
Howard Michael	Daniel Ho	JC	9-15-22



**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	SM	101	0.8/1.1	65	136

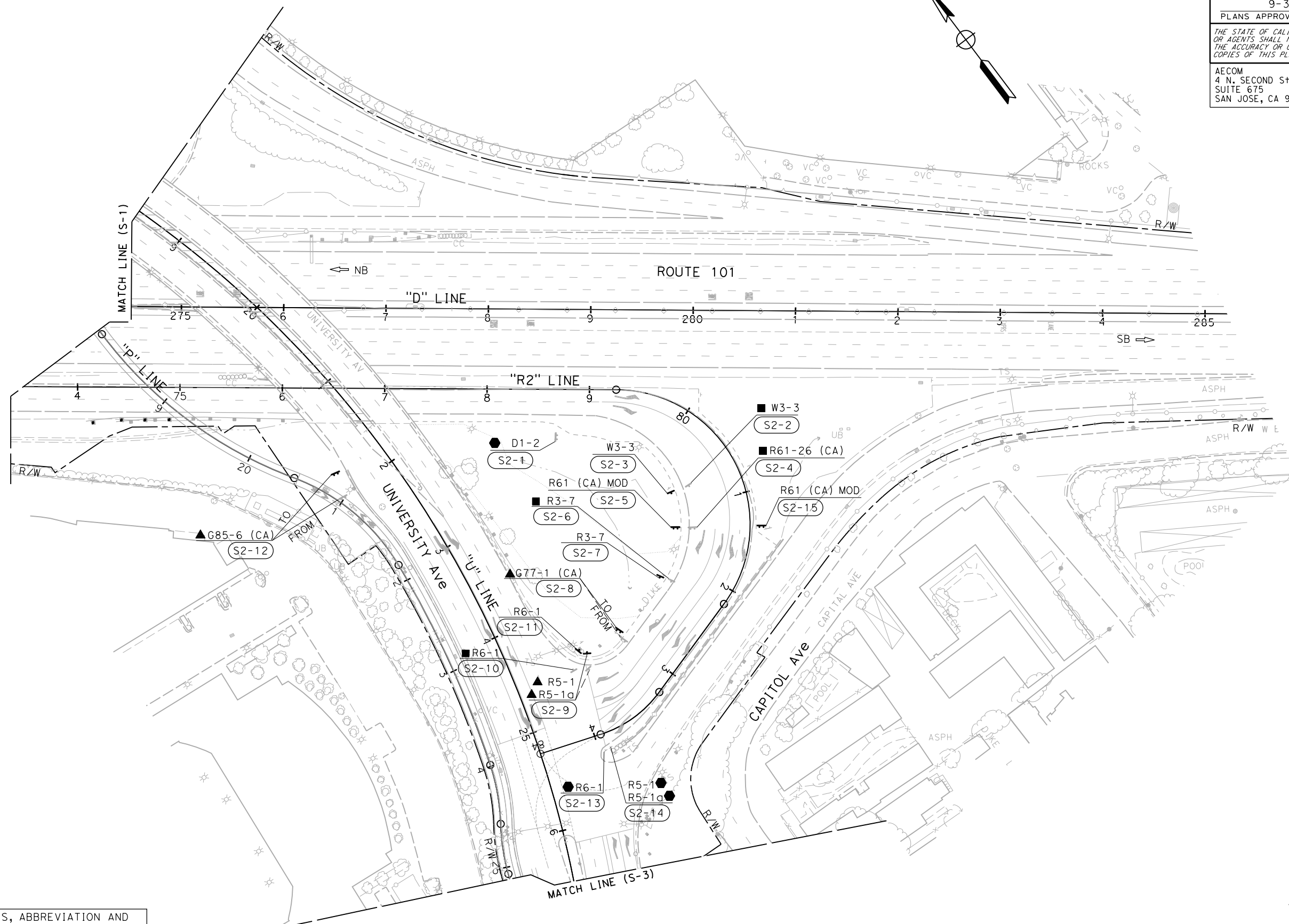
REGISTERED CIVIL ENGINEER DATE 9-15-22

PLANS APPROVAL DATE 9-30-22

DANIEL HO  
No. 50914  
Exp. 9-30-23  
CIVIL  
STATE OF CALIFORNIA

AECOM  
4 N. SECOND ST  
SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



FOR NOTES, ABBREVIATION AND  
LEGEND, SEE SHEET S-1

**SIGN PLAN**

SCALE 1" = 50'

APPROVED FOR SIGN WORK ONLY

**S-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HOWARD MICHAEL	CONSULTANT FUNCTIONAL SUPERVISOR	HOWARD MICHAEL	CHECKED BY	JOSE CORONEL	REVISOR	JOSE CORONEL	DATE	9-15-22

LAST REVISION DATE PLOTTED => 10/27/2022 TIME PLOTTED => 10:47:39 AM





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	68	136

9-15-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 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.

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 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

### ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN No. (SIGN-No.)	SIGN DESIGNATION	SIGN PANEL SIZE L x D	"C" DIM IN FEET	POST SIZE AND LENGTH			ROADSIDE SIGN		INSTALL SIGN (SSBM) EA	REMOVE ROADSIDE SIGN EA	RELOCATE ROADSIDE SIGN		TREATED WOOD WASTE LB
					4"x4"	4"x6"	6"x6"	ONE POST EA	TWO POST			ONE POST EA	TWO POST	
S-1	S1-4	W11-1	30" x 30"	7'			18.5'	1						
		W16-9p	30" x 18"											
		W3-2	30" x 30"											
	S1-5	W11-15	30" x 30"	7'	12'			2						
	S1-6	R5-10b	30" x 18"	7'	11'			1						
	S1-7	G78-1(CA)	54" x 42"	7'			15'		1					
	S1-8	G77-7(CA) Mod	66" x 60"											
	S1-9	R1-5 Mod								1			70	
	S1-10	R1-5a	36" x 48"	7'		14'		1					70	
	S1-11	UNKNOWN								1			70	
	S1-12	W4-1	36" x 36"	5'				1						
		R5-1	36" x 36"											
		R5-1a	42" x 30"											
	S1-13	W4-1									1			70
		R5-1												
R5-1a														
S1-14	UNKNOWN								1			70		
S1-15	R1-5								1			70		
S1-18	R44A (CA)	12" x 24"	7'		11.50'		1							
S1-19	R5-1b	12" x 18"	7'		12'		1							
	R5-10c	24" x 12"												
S1-20	R1-5	36" x 36"	7'			11'	1							
S1-21	R1-5	36" x 36"	7'						2					
	R9-23aL	12" x 18"												
S-2	S2-2	W3-3								1			70	
	S2-3	W3-3	48" x 48"	7'	12.50'		1						70	
	S2-4	R61-26 (CA)								1			70	
	S2-5	R61 (CA) Mod	90" x 45"	7'		13.50'		1					70	
	S2-6	R3-7								1			70	
	S2-7	R3-7	72" x 60"	7'	13.50'			1				1		
	S2-8	G77-1												
	S2-9	R5-1										1		
		R5-1a												
	S2-10	R6-1								1			70	
S2-11	R6-1	54" x 18"	7'	12'			1							
S2-12	G85-6 (CA)										1			
S2-15	R61 (CA) Mod	90" x 45"	7'		13.50'			1						
S-3	S3-1	R3-7	42" x 30"	5'		11'						1		
	S3-2	R44A (CA)	12" x 24"	7'	11.50'			1						
<b>TOTAL</b>								12	4	2	9	2	2	630

## SIGN QUANTITIES

### SQ-1

DATE PLOTTED => 10/27/2022  
 TIME PLOTTED => 10:49:31 AM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR HOWARD MICHAEL  
 CALCULATED-DESIGNED BY JOSE CORONEL  
 CHECKED BY DANIEL HO  
 REVISED BY JC  
 DATE REVISED 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	69	136

9-15-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 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.

AECOM  
 4 N. SECOND St  
 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

**SIGN PANEL MATERIAL QUANTITIES**

SHEET No.	SIGN No. (SIGN-No.)	SIGN DESIGNATION	PANEL SIZE		SINGLE FACED	DOUBLE FACED	BACKGROUND		LEGEND	PROTECTIVE FILM
			L x D	SQFT			SHEETING COLOR	RETROREFLECTIVE ASTM TYPE		
S-1	S1-4	W11-15	30" x 30"	6.25	x	FLUORESCENT YELLOW	XI	BLACK	x	
		W16-9P	30" x 18"	3.75		YELLOW	XI	BLACK	x	
		W3-2	30" x 30"	6.25		YELLOW	XI	RED,WHITE,BLACK	x	
	S1-5	W11-15	30" x 30"	6.25	x	FLUORESCENT YELLOW	XI	BLACK	x	
	S1-6	R5-10b	30" x 18"	3.75	x	WHITE	XI	BLACK	x	
	S1-7	G78-1 (CA)	54" x 42"	15.75		GREEN	XI	WHITE	x	
	S1-8	G77-7 (CA) Mod	66" x 60"	27.5		GREEN	XI	WHITE	x	
	S1-10	R1-5a	36" x 48"	12	x	WHITE	XI	R,BLACK	x	
	S1-12	W4-1	36" x 36"	9	x	YELLOW	XI	BLACK	x	
		R5-1	36" x 36"	9		WHITE,RED	XI	WHITE	x	
		R5-1a	42" x 30"	8.75		WHITE,RED	XI	WHITE	x	
	S1-18	R44A (CA)	12" x 24"	2	x	WHITE	XI	BLACK	x	
	S1-19	R5-1b	12" x 18"	1.5	x	WHITE	XI	BLACK	x	
		R5-10c	24" x 12"	2		RED	XI	WHITE	x	
S1-20	R1-5	36" x 36"	9	x	WHITE	XI	BLACK,RED	x		
S1-21	R1-5	36" x 36"	9	x	WHITE	XI	BLACK,RED	x		
	R9-23aL	12" x 18"	1.5		WHITE	XI	BLACK	x		
S1-22	D11-20L	12" x 18"	1.5	x	GREEN	XI	WHITE	x		
S-2	S2-3	W3-3	48" x 48"	16	x	YELLOW, BLACK	XI	RED, YELLOW, GREEN	x	
	S2-5	R61(CA) Mod	90" x 45"	28.1	x	WHITE	XI	BLACK	x	
	S2-7	R3-7	72" x 60"	30	x	WHITE	XI	BLACK	x	
	S2-11	R6-1	54" x 18"	6.75	x	BLACK	XI	WHITE,BLACK	x	
	S2-15	R61(CA) Mod	90" x 45"	28.1	x	WHITE	XI	BLACK	x	
S-3	S3-2	R44A (CA)	12" x 24"	2	x	WHITE	XI	BLACK	x	
TOTAL				245.7						

**SIGN QUANTITIES**  
**SQ-2**

DATE PLOTTED => 10/27/2022  
 TIME PLOTTED => 10:50:00 AM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Jose Coronel  
 Daniel Ho  
 Howard Michael

**REMOVE CONCRETE**

SHEET No.	STATION	SIDE	REMOVE CONCRETE			
			CURB	SIDEWALK & ISLAND	CONCRETE BARRIER	DIKE
			LF	SF	LF	LF
L-1	"R1" 65+45 TO "U" 11+82.18	R+	293	2136		
	"R1" 65+45 TO "U" 12+96.44	L+	267			
L-1 - L-2	"U" 12+44.73 TO "U" 16+60	R+		2080		
	"D" 273+46.92 TO "D" 274+56.92	CL			110	
L-2	"R2" 80+62.89 TO "R2" 83+22.10	R+				202
L-2 - L-3	"U" 21+80 TO "U" 29+61.61	R+	796	5220		
	"U" 26+60 TO "U" 29+13	L+	530	1864		
L-3	"U" 28+68.08 TO "U" 29+43.83	L+	100	1240		
	TOTAL		1986	12,540	110	202

**EARTHWORK QUANTITIES SUMMARY**

STATION	ROADWAY EXCAVATION TYPE (Z-2) (AERIALY DEPOSITED LEAD)	EMBANKMENT (N)	IMPORTED BORROW
	CY	CY	CY
"P" 11+20 TO 15+06			
"P" 20+46 TO 27+90	620		
"R1" 62+34 TO 65+45	415		
"R2" 79+02 TO 84+30	370		
TOTAL	1405	9100	9100

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	70	136
			9-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	PLANS APPROVAL DATE	
AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

**MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)**

SHEET No.	STATION	SIDE	ISLAND & SIDEWALK	A2-6 CURB	B1-6 CURB	B2-6 CURB	TYPE E CURB	CURB RAMP (CASE A)	CURB RAMP (CASE F)	CURB RAMP (CASE G)	ISLAND PASSAGEWAY	HMA DIKE (TYPE D)
			CY	CY	CY	CY	CY	EA	EA	EA	EA	EA
L-1	"R1" 65+45 TO "U" 11+82.18	L+/R+	7.2			16.2					1	
	"R1" 65+45 TO "U" 12+96.44	L+		7.4					1			180
L-2	"R2" 79+59.03 TO "R2" 83+03.60	R+					9.9					225
L-2 - L-3	"U" 21+80 TO "U" 29+61.61	R+	14.6	35.0						2		
	"U" 26+60 TO "U" 29+13	L+/R+		9.5	14.6							
L-3	"U" 28+68.08 TO "U" 29+43.83	L+	10.0	7.2				1		1		
	TOTAL		41.3	49.6	14.6	16.2	9.9	1	1	3	1	405

**ROADWAY QUANTITIES**

SHEET No.	STATION	HOT MIX ASPHALT (TYPE A)	CLASS 2 AB
		TON	CY
L-1	"R1" 65+45 TO "U" 13+07	535	83.1
	"P" 11+20 TO "P" 15+06	240	61
L-2	"R2" 78+92 TO "R2" 84+30	599.4	137.5
	"P" 20+46 TO "P" 27+90	320	82
L-2 - L3	"U" 21+80 TO "U" 29+62	33	6
	"U" 26+60 TO "U" 29+20	174	31
L-3	"U" 28+68 TO "U" 29+44	6	1.5
	TOTAL	1907.4	402.1

**REMOVE BASE AND SURFACING**

SHEET No.	STATION	SIDE	REMOVE ASPHALT CONCRETE PAVEMENT CY
L-1	"R1" 65+45 TO "U" 12+96.31	L+/R+	215
L-2 - L-3	"U" 21+80 TO "U" 29+61.61	R+	264
	"U" 26+60 TO "U" 29+20	R+	14
L-3	"U" 28+68.08 TO "U" 29+43.83	L+	42
	"U" 29+50 TO "U" 30+15	R+	5
TOTAL			540

**TREATED WOOD WASTE**

DESCRIPTION	LB
FROM MIDWEST GUARDRAIL SYSTEM	882
FROM ROADSIDE SIGN QUANTITIES	630
TOTAL	1512

**COLD PLANE ASPHALT CONCRETE PAVEMENT**

SHEET No.	STATION	SIDE	AREA SQYD
L-1	"R1" 65+45 TO "R1" 65+55	L+	17.5
	"R1" 62+24 TO "R1" 62+34	R+	12.5
L-2	"R2" 78+92 TO "R2" 79+05	R+	25.5
TOTAL			55.5

**CONCRETE BARRIER**

SHEET No.	STATION	SIDE	TYPE 60R (Mod A)	TYPE 60R (Mod B)	TYPE MS
			LF	LF	LF
L-1 - L-2	"D" 273+57.00 TO "D" 274+47.00	CL	90		
L-2	"R2" 74+99.73 TO "R2" 75+25.85	R+		24	
L-2	"R2" 75+25.85 TO "R2" 76+21.22	R+			95
TOTAL			90	24	95

**IRRIGATION CONDUIT**

SHEET No.	STATION	8" WELDED STEEL PIPE CONDUIT	2" PLASTIC PIPE (CLASS 315)	ELECTRICAL CONDUIT (CNC)
		LF	LF	LF
L-2	STA 81+00	112	124	124

**FENCE**

SHEET No.	STATION	SIDE	TYPE CL-6 VINYL-CLAD - BLACK	REMOVE CL FENCE
			LF	LF
L-1	"U" 12+06.45 TO "U" 15+89.45	R+	461	
L-2 - L-3	"U" 20+92.52 TO "U" 28+16.28	R+		530
	TOTAL		461	530

**MIDWEST GUARDRAIL SYSTEM**

SHEET No.	LOCATION	SIDE	GUARD RAILING LAYOUT	MIDWEST GUARDRAIL SYSTEM (STEEL POST)	TRANSITION RAILING (TYPE WB-31)	ALTERNATIVE IN-LINE TERMINAL SYSTEM	END CAP (TYPE A)	END CAP (TYPE TC)	END ANCHOR ASSEMBLY (TYPE SFT-m)	END ANCHOR BLOCK	VEGETATION CONTROL (MINOR CONCRETE)	REMOVE GUARDRAIL	TREATED WOOD WASTE
			TYPE	LF	EA	EA	EA	EA	EA	EA	EA	SOYD	LF
L-1	BENT 2	L+	12DD	75			1		1		46		
L-2	BENT 4	R+	12A	83	1	1	1	1		1	93	73	882
TOTAL				158	1	1	1	1	1	2	139	73	882

**SUMMARY OF QUANTITIES**



Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: CHECKED BY:  
 JOSE CORONEL DANIEL HO  
 REVISED BY: DATE REVISED:  
 JC 9-15-22

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- WHEN TEMPORARY HIGH VISIBILITY FENCE IS REQUIRED SINGLE EXISTING TREE TO BE PROTECTED, PLACE FENCE AT A MINIMUM OF 15' AWAY, AROUND TRUNK OF TREE.
- EXISTING LARGE TREE REMOVAL SHOWN FOR INFORMATION ONLY. SMALL TREES, SHRUBS, AND OTHER EXISTING VEGETATION TO BE REMOVED UNDER CLEARING AND GRUBBING WORK IS NOT SHOWN FOR GRAPHIC CLARITY.

**LEGEND:**

-  REMOVE TREE
-  Exist TREE TO REMAIN No.
- xx—THVF—xx TEMPORARY HIGH VISIBILITY FENCE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	71	136

REGISTERED CIVIL ENGINEER DATE 9-15-22

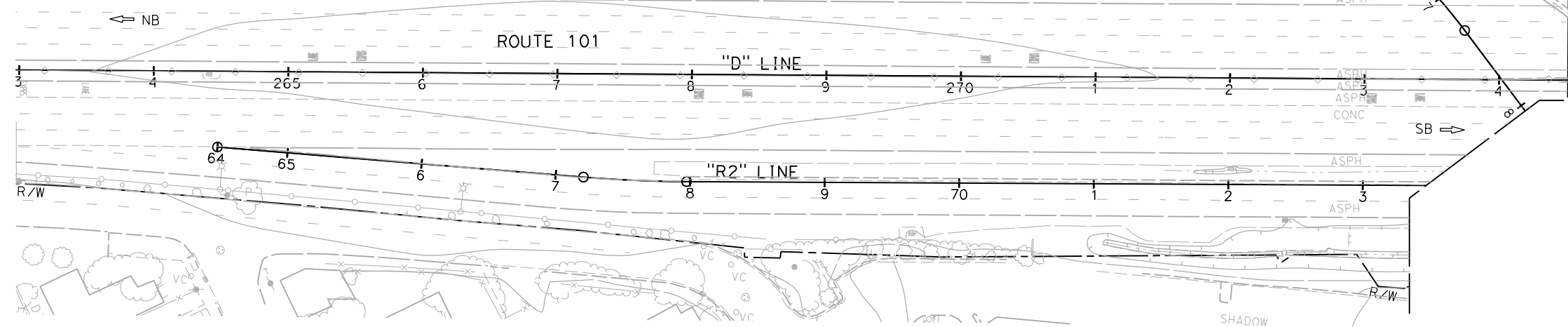
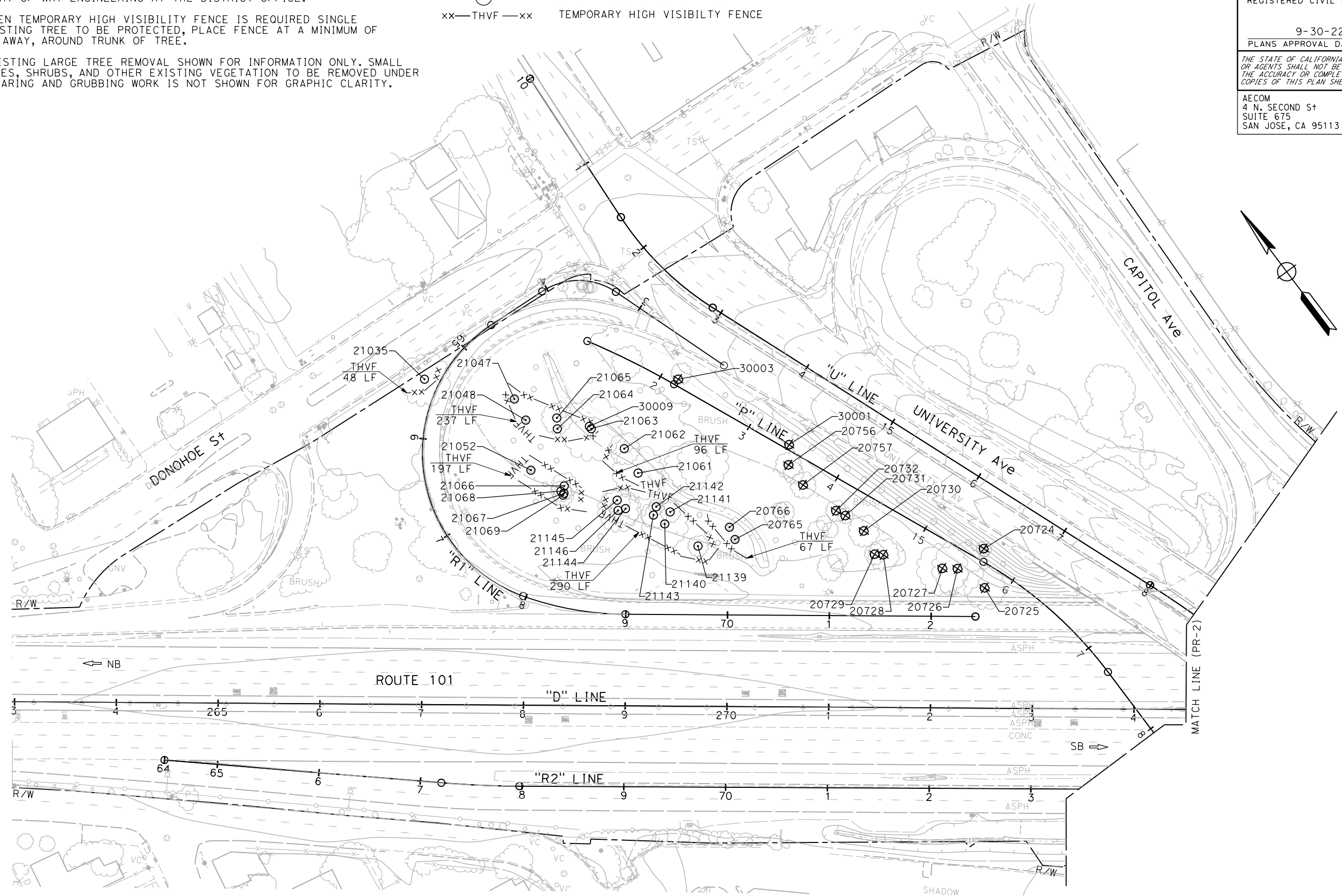
PLANS APPROVAL DATE 9-30-22

DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 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.

AECOM  
 4 N. SECOND St  
 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303



**PLANT REMOVAL PLAN**  
 SCALE 1" = 50'

APPROVED FOR PLANT REMOVAL WORK ONLY

**PR-1**

LAST REVISION DATE PLOTTED => 10/27/2022 TIME PLOTTED => 10:53:01 AM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: CHECKED BY:  
 JOSE CORONEL DANIEL HO  
 REVISED BY: DATE REVISED:  
 JC 9-15-22

**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	SM	101	0.8/1.1	72	136

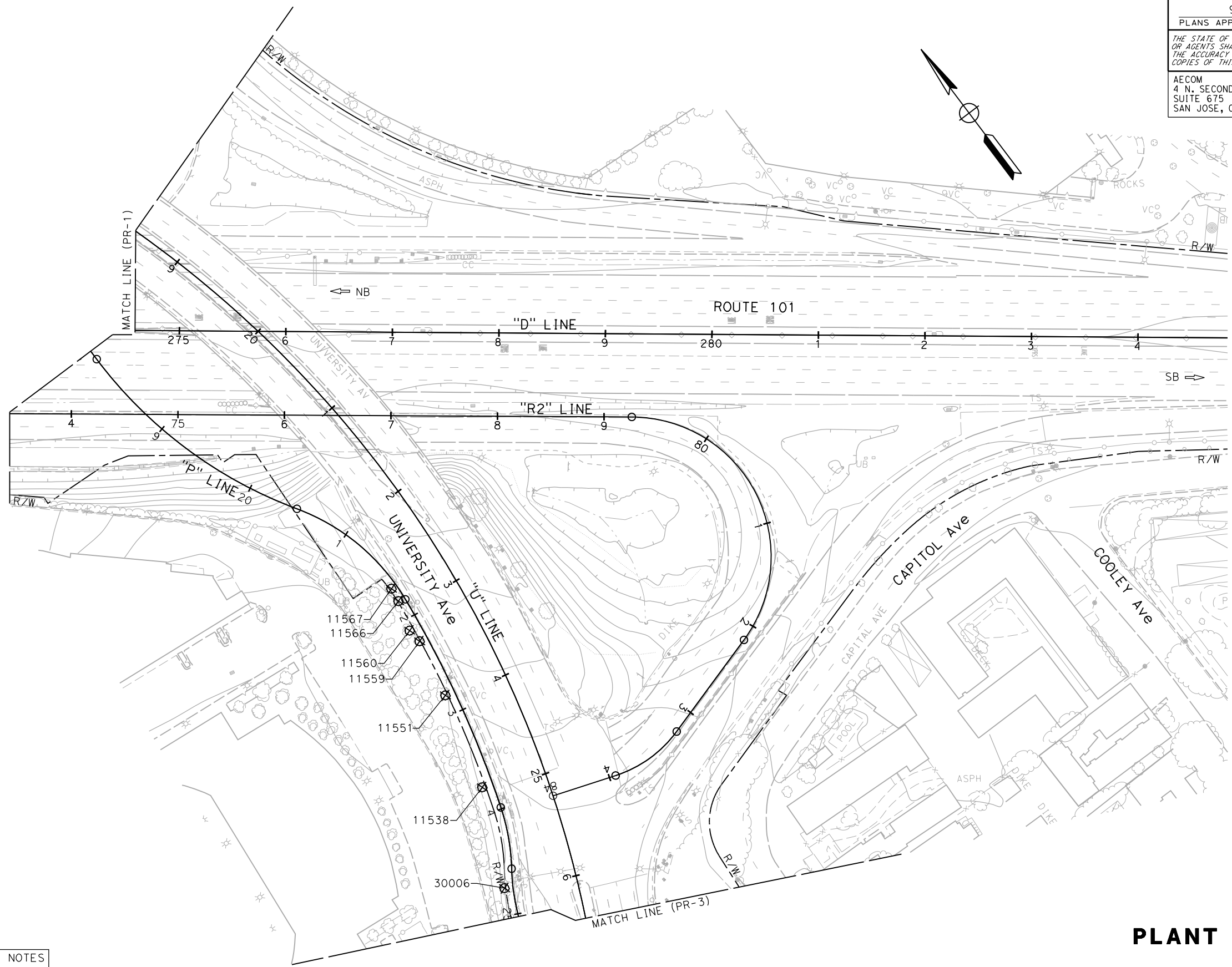
REGISTERED CIVIL ENGINEER DATE: 9-15-22  
 PLANS APPROVAL DATE: 9-30-22

**DANIEL HO**  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

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AECOM  
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 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303



FOR LEGEND AND NOTES  
 SEE SHEET PR-1

**PLANT REMOVAL PLAN**  
 SCALE 1" = 50'

**PR-2**

APPROVED FOR PLANT REMOVAL WORK ONLY

LAST REVISION DATE PLOTTED => 10/27/2022 9-15-22 TIME PLOTTED => 10:53:11 AM



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HOWARD MICHAEL	JOSE CORONEL	JC
CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
DESIGNED BY	DANIEL HO	9-15-22	

**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	SM	101	0.8/1.1	73	136

REGISTERED CIVIL ENGINEER DATE 9-15-22

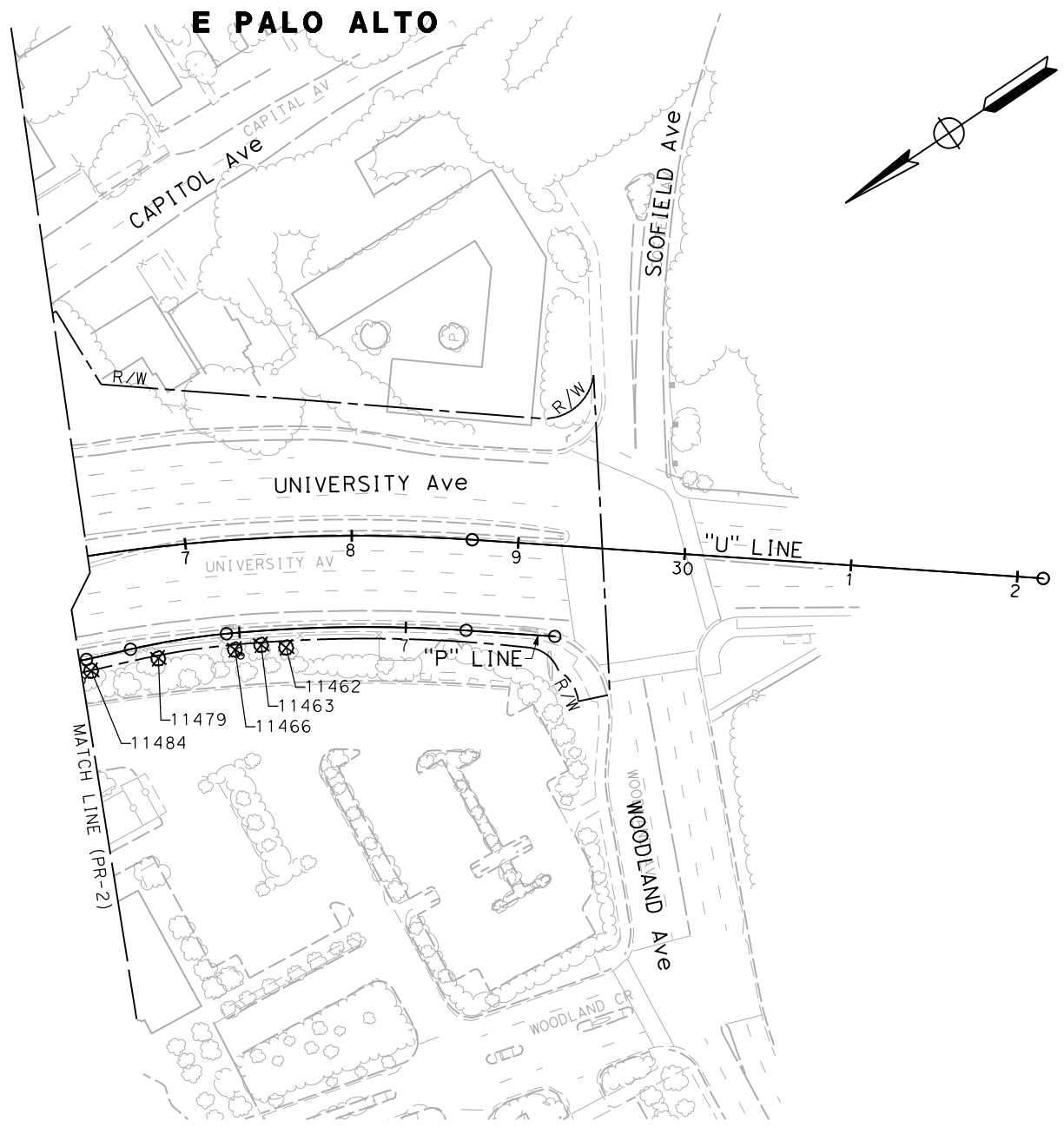
PLANS APPROVAL DATE 9-30-22

DANIEL HO  
No. 50914  
Exp. 9-30-23  
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.

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4 N. SECOND ST  
SUITE 675  
SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303



FOR LEGEND AND NOTES  
SEE SHEET PR-1

**PLANT REMOVAL PLAN**

SCALE 1" = 50'

**PR-3**

DATE PLOTTED => 10/27/2022  
TIME PLOTTED => 10:55:21 AM  
LAST REVISION 9-15-22



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: GEORGE STRNAD  
 CHECKED BY: DANIEL HO  
 REVISED BY: DB  
 DATE REVISED: 9-15-22

**NOTE:**

APPLICABLE WHERE CIRCLED (OR IN BRACKET)

- ① INSTALL RISER ASSEMBLY (TYPE V) SPRINKLERS WITH EMITTERS ON THE UPHILL SIDE IF PLANT BASINS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	75	136

REGISTERED LANDSCAPE ARCHITECT DATE: 9-15-22  
 SIGNATURE: *George Strnad*  
 PLANS APPROVAL DATE: 9-30-22  
 LICENSE NO. 12-31-22  
 EXPIRATION DATE: 4-27-22  
 STATE OF CALIFORNIA

AECOM  
 4 N. Second St  
 Suite 675  
 San Jose, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

**IRRIGATION SPRINKLER SCHEDULE**

SYMBOL	TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE	PRESSURE COMPENSATING	GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)	MATERIAL	INLET CONNECTION (NPT INCH)	RISER			IRRIGATION EMITTERS PER PLANT	REMARKS
										TYPE	MATERIAL			
											PLASTIC	SIZE (IPS INCH)		
○	C-2	TREE RISER SPRINKLER ASSEMBLY	F	20-90	YES	0.25	15	PL	1/2"	V	X	1/2"	2 SPRINKLER RISER ASSEMBLIES PER PRUNUS SERRULATA 'KWANZAN' AND CERCIS OCCIDENTALIS	①
○	C-2	TREE RISER SPRINKLER ASSEMBLY	F	20-90	YES	0.25	15	PL	1/2"	V	X	1/2"	3 SPRINKLER RISER ASSEMBLIES FOR QUERCUS CHRYSOLEPIS, QUERCUS WISLIZENII, AND X CHITALPA TASHKENTENSIS 'PINK CLOUD'	①
x	C-2	GROUND COVER RISER SPRINKLER ASSEMBLY	F	20-90	YES	0.25	15	PL	1/2"	V	X	1/2"	1 SPRINKLER RISER ASSEMBLY PER PLANT	①

**PLASTIC PIPE SIZING (LATERAL)**

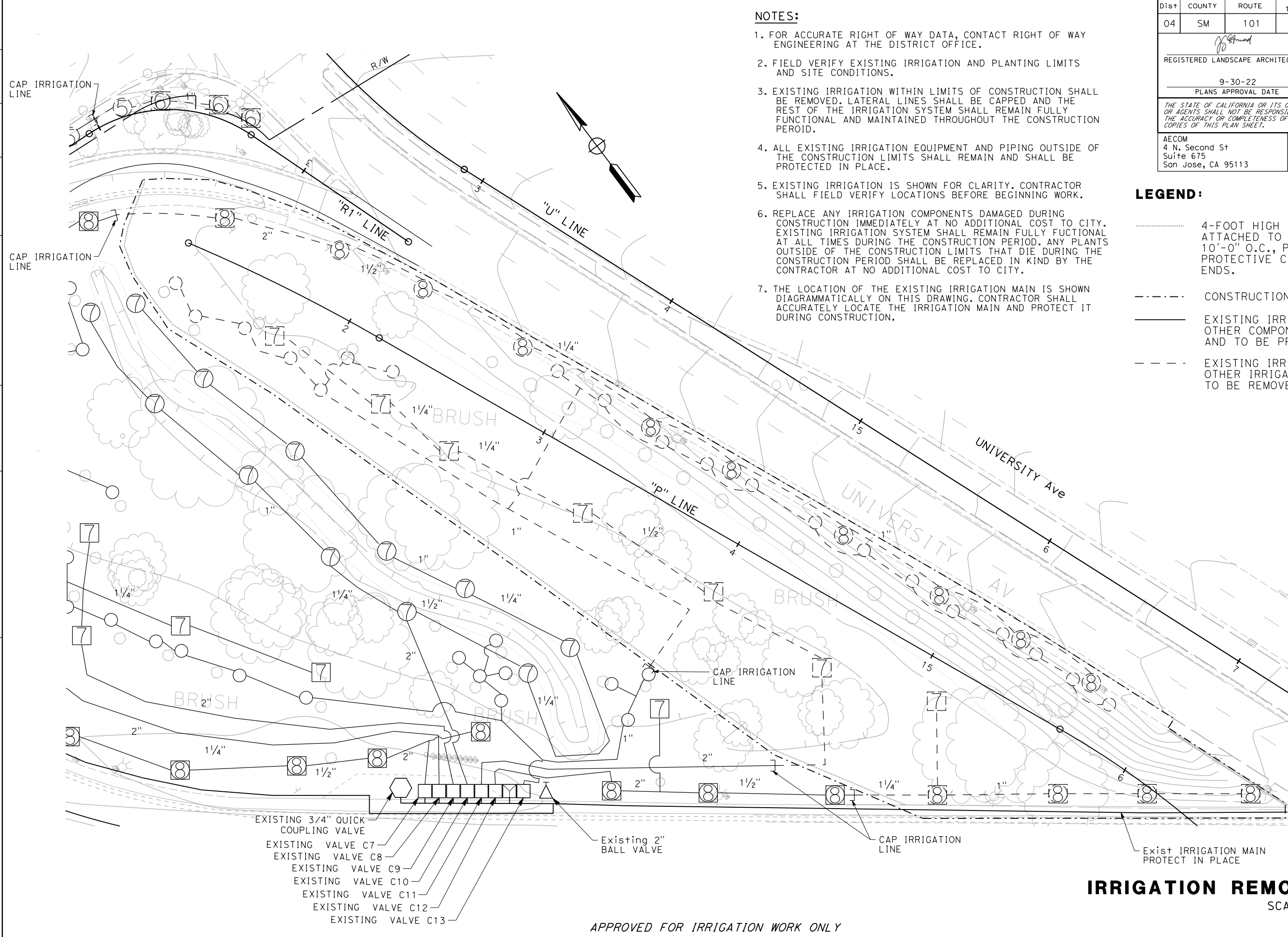
PLASTIC PIPE	PIPE SIZE	GPM	No. OF SPRINKLERS (EA)
	1"	0-12	48
	1-1/2"	13-30	120
	2"	31-45	180
	2-1/2"	46-70	280
SHEET TOTAL			628

**IRRIGATION SPRINKLER SCHEDULE**

**ISS-1**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: GEORGE STRNAD  
 CHECKED BY: DANIEL HO  
 REVISED BY: DB  
 DATE REVISED: 9-15-22



- NOTES:**
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  2. FIELD VERIFY EXISTING IRRIGATION AND PLANTING LIMITS AND SITE CONDITIONS.
  3. EXISTING IRRIGATION WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED. LATERAL LINES SHALL BE CAPPED AND THE REST OF THE IRRIGATION SYSTEM SHALL REMAIN FULLY FUNCTIONAL AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
  4. ALL EXISTING IRRIGATION EQUIPMENT AND PIPING OUTSIDE OF THE CONSTRUCTION LIMITS SHALL REMAIN AND SHALL BE PROTECTED IN PLACE.
  5. EXISTING IRRIGATION IS SHOWN FOR CLARITY. CONTRACTOR SHALL FIELD VERIFY LOCATIONS BEFORE BEGINNING WORK.
  6. REPLACE ANY IRRIGATION COMPONENTS DAMAGED DURING CONSTRUCTION IMMEDIATELY AT NO ADDITIONAL COST TO CITY. EXISTING IRRIGATION SYSTEM SHALL REMAIN FULLY FUNCTIONAL AT ALL TIMES DURING THE CONSTRUCTION PERIOD. ANY PLANTS OUTSIDE OF THE CONSTRUCTION LIMITS THAT DIE DURING THE CONSTRUCTION PERIOD SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO CITY.
  7. THE LOCATION OF THE EXISTING IRRIGATION MAIN IS SHOWN DIAGRAMMATICALLY ON THIS DRAWING. CONTRACTOR SHALL ACCURATELY LOCATE THE IRRIGATION MAIN AND PROTECT IT DURING CONSTRUCTION.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	76	136
			9-15-22	REGISTERED LANDSCAPE ARCHITECT DATE	
			9-30-22	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>					
AECOM 4 N. Second St Suite 675 San Jose, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

- LEGEND:**
- ..... 4-FOOT HIGH ORANGE SNOW FENCE ATTACHED TO #4 REBAR AT 10'-0" O.C., PROVIDE ORANGE PROTECTIVE CAPS FOR REBAR ENDS.
  - CONSTRUCTION LIMITS
  - EXISTING IRRIGATION PIPE AND OTHER COMPONENTS TO REMAIN AND TO BE PROTECTED IN PLACE.
  - - - - EXISTING IRRIGATION PIPE AND OTHER IRRIGATION COMPONENTS TO BE REMOVED.

- EXISTING 3/4" QUICK COUPLING VALVE
- EXISTING VALVE C7
- EXISTING VALVE C8
- EXISTING VALVE C9
- EXISTING VALVE C10
- EXISTING VALVE C11
- EXISTING VALVE C12
- EXISTING VALVE C13
- Existing 2" BALL VALVE
- CAP IRRIGATION LINE
- Exist IRRIGATION MAIN PROTECT IN PLACE

**IRRIGATION REMOVAL PLAN**  
 SCALE 1" = 20'

APPROVED FOR IRRIGATION WORK ONLY

**NOTE:**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ALL NEW IRRIGATION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS.

**LEGEND:**

SYMBOL	DESCRIPTION
-----	TREE BUBBLER LATERAL IRRIGATION LINES
————	GROUNDCOVER LATERAL IRRIGATION LINES WITHOUT BUBBLERS
- - - - -	GROUNDCOVER LATERAL IRRIGATION LINES WITH BUBBLERS
---	GROUNDCOVER BOUNDARY

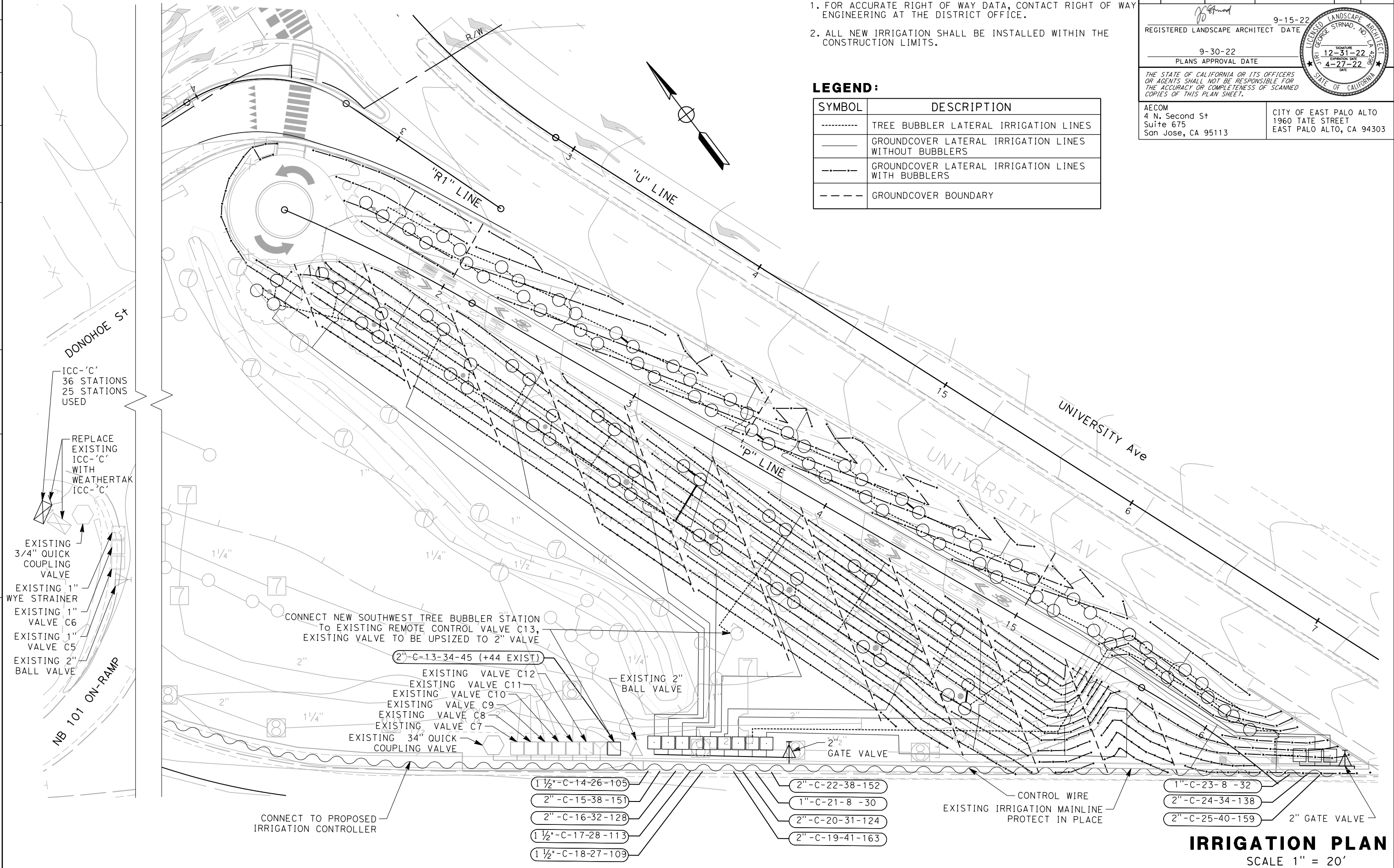
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	77	136

REGISTERED LANDSCAPE ARCHITECT DATE: 9-15-22  
 SIGNATURE: [Signature]  
 PLANS APPROVAL DATE: 9-30-22

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.

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CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303



APPROVED FOR IRRIGATION WORK ONLY

**IRRIGATION PLAN**  
 SCALE 1" = 20'

IP-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED/DESIGNED BY: GEORGE STRNAD  
 CHECKED BY: DANIEL HO  
 REVISED BY: DB  
 DATE REVISED: 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	78	136

REGISTERED LANDSCAPE ARCHITECT DATE: 9-15-22  
 PLANS APPROVAL DATE: 9-30-22  
 SIGNATURE: [Signature]  
 EXPIRATION DATE: 12-31-22  
 DATE: 4-27-22

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 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

### IRRIGATION QUANTITY (LATERAL SIDE OF CONTROL VALVE)

SHEET	VALVE NUMBER	IRRIGATION SUPPLY LINE			CHECK VALVE	SPRINKLER ASSEMBLY
		PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)		PLASTIC PIPE (CLASS 315) (SUPPLY LINE)		
		1"	1-1/2"	2"		
		LF				EA
IP-1	C-13 (EXISTING)	802	-	-		45
	C-14	397	392	-		105
	C-15	483	399	163		151
	C-16	202	304	131		128
	C-17	234	413	-		113
	C-18	272	454	-		109
	C-19	184	330	265		163
	C-20	226	345	142		124
	C-21	618	-	-		30
	C-22	487	280	145		152
	C-23	503	-	-		32
	C-24	1,052	351	51		138
	C-25	1,328	95	86		159
SHEET TOTAL		5,460	3,363	983		1,449

### IRRIGATION QUANTITY (MAIN SUPPLY SIDE OF CONTROL VALVE)

SHEET	PLASTIC PIPE (CLASS 315) (SUPPLY LINE)			GATE VALVE			REMOTE CONTROL VALVE		
	2"	2-1/2"	3"	2"	2-1/2"	3"	1"	1-1/2"	2"
	LF			EA			EA		
IP-1	65	-	-	2	-	-	2	3	8
SHEET TOTAL	65	-	-	2	-	-	2	3	8

## IRRIGATION QUANTITIES

**IQ-1**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
*Caltrans*  
 FUNCTIONAL SUPERVISOR: HOWARD MICHAEL  
 CALCULATED-DESIGNED BY: GEORGE STRNAD  
 CHECKED BY: DANIEL HO  
 REVISED BY: DB  
 DATE REVISED: 9-15-22

**NOTES:**  
 APPLICABLE WHERE CIRCLED (OR IN BRACKET)  
 ① SUFFICIENT TO RECEIVE ROOT BALL  
 ② 2X ROOT BALL WIDTH  
 ③ REQUIRED  
 ④ INSTALL GROUNDCOVER PLANTS IN FURROWS PER DETAILS A AND B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	79	136

9-15-22  
 REGISTERED LANDSCAPE ARCHITECT DATE

9-30-22  
 PLANS APPROVAL DATE

12-31-22  
 EXPIRATION DATE

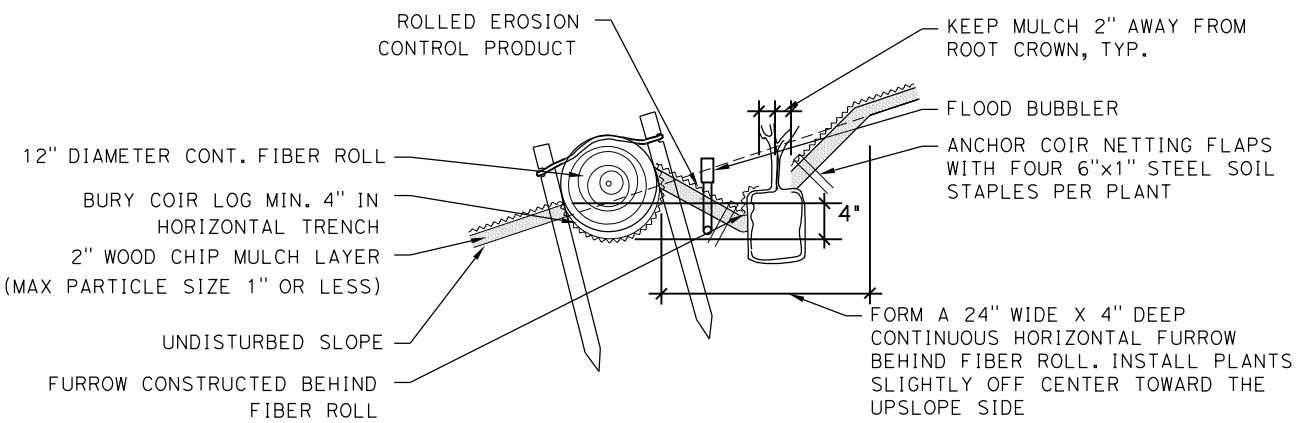
4-27-22  
 DATE

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 San Jose, CA 95113

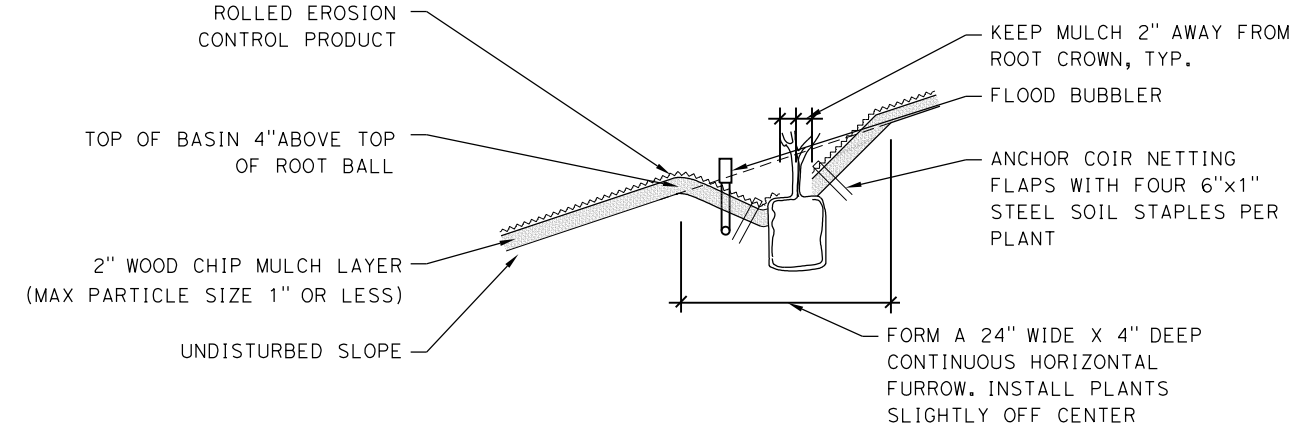
CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

**PLANT LEGEND**

PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	HOLE SIZE (Dia) (INCH)	HOLE SIZE (DEPTH) (INCH)	BASIN TYPE	STAKING	HORIZONTAL ON CENTER SPACING (Ft)	MINIMUM PLANTING DISTANCE FROM					WATER USE LEVEL	REMARKS	
									EDGE OF TRAVEL WAY (FEET)	EDGE OF PAVEMENT (FEET)	FENCE (FEET)	WALL (FEET)	PAVED DITCH (FEET)			EARTH DITCH (FEET)
1	[Symbol]	BACCHARIS PILULARIS 'Twin Peaks'	PIGEON POINT COYOTE BRUSH	②	①	II	-	96"	-	-	-	-	-	-	LOW	GROUND COVER
2	[Symbol]	CEANOTHUS GRISEUS HORIZONTALIS 'Yankee Point'	CARMEL MOUNTAIN LILAC	②	①	II	-	96"	-	-	-	-	-	-	LOW	GROUND COVER
3	[Symbol]	EPILOBIUM CANUM 'Calistoga'	CALIFORNIA FUCHSIA	②	①	II	-	48"	-	-	-	-	-	-	LOW	GROUND COVER
4	[Symbol]	ERIOGONUM FASCICULATUM 'Warriner Lytle'	WARRINER LYTLE BUCKWHEAT	②	①	II	-	60"	-	-	-	-	-	-	LOW	GROUND COVER
5	[Symbol]	SALVIA X 'Bee's Bliss'	BEE'S BLISS SAGE	②	①	II	-	72"	-	-	-	-	-	-	LOW	GROUND COVER
6	[Symbol]	CERCIS OCCIDENTALIS	WESTERN REDBUD	②	①	II	③	-	15	5	5	5	10	10	VERY LOW	TREE
7	[Symbol]	PRUNUS SERRULATA 'Kwanzan'	KWANZAN JAPANESE FLOWERING CHERRY	②	①	II	③	-	20	5	15	15	15	5	MEDIUM	TREE
8	[Symbol]	QUERCUS CHRYSOLEPIS	CANYON LIVE OAK	②	①	II	③	-	20	20	20	20	20	5	VERY LOW	TREE
9	[Symbol]	QUERCUS WISLIZENII	INTERIOR LIVE OAK	②	①	II	③	-	20	20	20	20	20	5	VERY LOW	TREE
10	[Symbol]	X CHITALPA TASHKENTENSIS 'Pink Cloud'	PINK CLOUD CHITALPA	②	①	II	③	-	20	6	15	15	15	17	LOW	TREE



**DETAIL A  
 GROUNDCOVER PLANTING  
 FURROW AT FIBER ROLL**

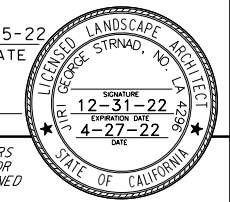


**DETAIL B  
 GROUNDCOVER PLANTING FURROW**

**PLANT LEGEND**



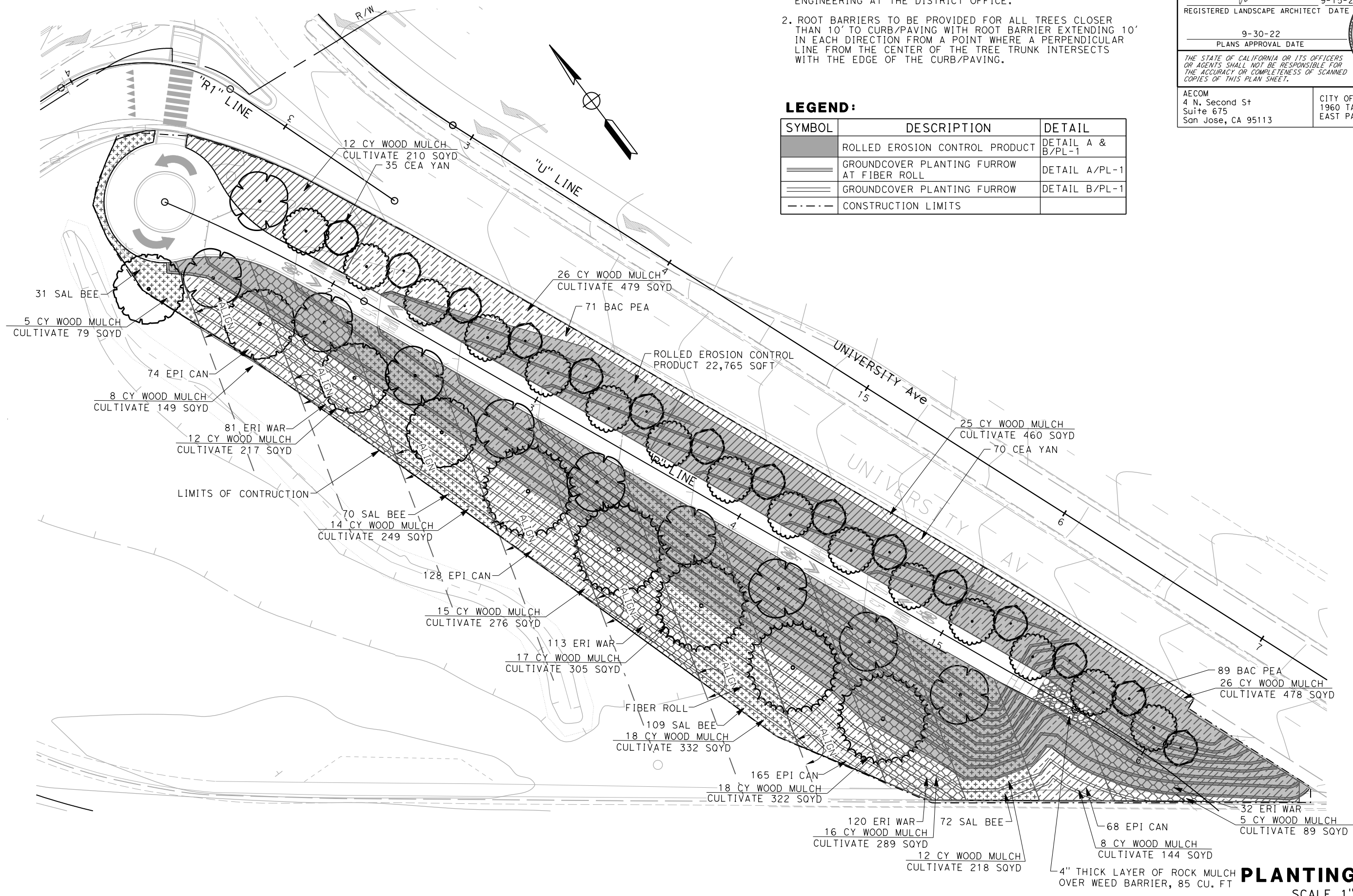
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	80	136
			9-15-22	REGISTERED LANDSCAPE ARCHITECT DATE	
			9-30-22	PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
AECOM 4 N, Second St Suite 675 San Jose, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		



- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - ROOT BARRIERS TO BE PROVIDED FOR ALL TREES CLOSER THAN 10' TO CURB/PAVING WITH ROOT BARRIER EXTENDING 10' IN EACH DIRECTION FROM A POINT WHERE A PERPENDICULAR LINE FROM THE CENTER OF THE TREE TRUNK INTERSECTS WITH THE EDGE OF THE CURB/PAVING.

**LEGEND:**

SYMBOL	DESCRIPTION	DETAIL
	ROLLED EROSION CONTROL PRODUCT	DETAIL A & B/PL-1
	GROUNDCOVER PLANTING FURROW AT FIBER ROLL	DETAIL A/PL-1
	GROUNDCOVER PLANTING FURROW	DETAIL B/PL-1
	CONSTRUCTION LIMITS	



**PLANTING PLAN**  
SCALE 1" = 20'

APPROVED FOR PLANTING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	REVISOR	DATE
	HOWARD MICHAEL	DANIEL HO	GEORGE STRNAD	DB	9-15-22

DATE PLOTTED => 10/27/2022  
 TIME PLOTTED => 12:08:40 PM



**NOTES:**

APPLICABLE WHERE CIRCLED (OR IN BRACKET)

- ① BASIN MULCH IS INCLUDED WITH MULCH QUANTITIES SHOWN ON PLANTING PLAN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	81	136
REGISTERED LANDSCAPE ARCHITECT DATE: 9-15-22 SIGNATURE: <i>[Signature]</i>			LICENSED LANDSCAPE ARCHITECT STATE OF CALIFORNIA NO. 12-31-22 EXPIRATION DATE: 4-27-22		
PLANS APPROVAL DATE: 9-30-22			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.		
AECOM 4 N. Second St Suite 675 San Jose, CA 95113			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

**PLANT QUANTITIES**

BOTANICAL NAME	COMMON NAME	PLANT GROUP		PLANT BASIN		PACKET FERTILIZER	SLOW RELEASE FERTILIZER (Pit Est)	ROCK MULCH	WEED GERMINATION	FOLIAGE PROTECTOR (TREE STAKING)	ROOT BARRIER
		A	U	WOOD MULCH (2")	SOIL AMENDMENT						
		EA	EA	CY	CY						
BACCHARIS PILULARIS 'Twin Pegs'	PIGEON POINT COYOTE BRUSH	160	-	①	6	160	40.0	260	4,296	49	452
CEANOTHUS GRISEUS HORIZONTALIS 'Yankee Point'	CARMEL MOUNTAIN LILAC	105	-	①	4	105	26.3				
EPILOBIUM CANUM 'Calistoga'	CALIFORNIA FUCHSIA	436	-	①	16	436	109.0				
ERIOGONUM FASCICULATUM 'Warriner Lytle'	WARRINER LYTLE BUCKWHEAT	346	-	①	13	-	-				
SALVIA X 'Bee's Bliss'	BEE'S BLISS SAGE	292	-	①	1	-	-				
CERCIS OCCIDENTALIS	WESTERN REDBUD	-	15	①	5	120	3.8				
PRUNUS SERRULATA 'Kwanzan'	KWANZAN JAPANESE FLOWERING CHERRY	-	15	①	5	120	3.8				
QUERCUS CHRYSOLEPIS	CANYON LIVE OAK	-	4	①	1	32	1.0				
QUERCUS WISLIZENII	INTERIOR LIVE OAK	-	5	①	1	40	1.3				
X CHITALPA TASHKENTENSIS 'Pink Cloud'	PINK CLOUD CHITALPA	-	10	①	3	80	2.5				
SHEET TOTAL		1,339	49	237	55	1,093	187.7	260	4,296	49	452

**PLANT QUANTITIES**

**PQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR HOWARD MICHAEL  
 CALCULATED/DESIGNED BY CHECKED BY  
 JOSE CORONEL DANIEL HO  
 REVISED BY DATE REVISED  
 JC 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	82	136

9-15-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 CIVIL  
 STATE OF CALIFORNIA

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 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

### EROSION CONTROL TYPE 1

SYMBOL	SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH	REMARKS
			DESCRIPTION	TYPE			
	STEP 1	WOOD CHIPS	WOOD CHIPS	FINE PARTICLES 1" OR LESS	270 CY/AC	2"	
	STEP 2	ROLLED EROSION CONTROL PRODUCT (NETTING)	NETTING	TYPE C			
====	STEP 3	FIBER ROLLS	FIBER ROLL	BioD-WatI (12" x 10') COIR WATTLES	AS SHOWN ON PLANS		

### EROSION CONTROL TYPE 2

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH
		DESCRIPTION	TYPE		
STEP 1	COMPOST	COMPOST	FINE	135 CY/ACRE	1"
STEP 2	ROLLED EROSION CONTROL PRODUCT (NETTING)	NETTING	TYPE A		
STEP 3	HYDROSEED	SEED	MIX 1	42.3 LB/ACRE	
		FIBER	WOOD	500 LB/ACRE	
		FERTILIZER	ORGANIC	500 LB/ACRE	
STEP 4	HYDROMULCH	FIBER	WOOD	1,500 LB/ACRE	
		TACKIFIER	GUAR (PLANT BASED)	70 LB/ACRE	

### EROSION CONTROL TYPE 3

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH
		DESCRIPTION	TYPE		
STEP 1	COMPOST	COMPOST	MEDIUM	135 CY/ACRE	1"
STEP 2	HYDROSEED	SEED	MIX 1	42.3 LB/ACRE	
		FIBER	WOOD	500 LB/ACRE	
		FERTILIZER	ORGANIC	500 LB/ACRE	
STEP 3	HYDROMULCH	FIBER	WOOD	1,500 LB/ACRE	
		TACKIFIER	GUAR	125 LB/ACRE	

### SEED MIX

SEED	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX 1	LIPINUS BICOLOR (ANNUAL LUPINE)	50	5
	BROMUS CARINATUS <sup>1</sup> (CALIFORNIA BROME)	60	9
	ESCHSCHOLZIA CALIFORNICA (CALIFORNIA POPPY)	60	3
	FESTUCA MICROSTACHYS (THREE-WEEK FESCUE)	60	4
	FESTUCA RUBRA VAR MOLATE (MOLATE RED FESCUE)	60	8
	HORDEUM BRACHYANTHERUM (CALIFORNIA MEADOW BARLEY)	60	11
	KOELERIA MACRANTHA (JUNEGRASS)	50	2
	SYMPHYOTRICHUM CHILENSE (PACIFIC ASTER)	40	0.2
	ACHILLEA MILLEFOLIUM (YARROW)	60	0.1

### FIBER ROLLS

SEQUENCE	ITEM	MATERIAL		REMARKS
		DESCRIPTION	TYPE	
IN EC TYPES 2 AREAS FIBER ROLLS MUST BE INSTALLED AFTER RECP	FIBER ROLLS	RICE STRAW FILLED, JUTE COVERED	8" TO 10" Dia	TYPE 2 FIBER ROLLS INSTALLATION

## EROSION CONTROL LEGEND



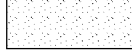


ECL-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
Howard Michael	Howard Michael	Jose Coronel	Jose Coronel	9-15-22
EC	EC	EC	EC	EC

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXACT LIMITS OF WORK OR DEPLOYMENT OF EROSION CONTROL MATERIALS SHALL BE DETERMINED BY THE ENGINEER.
- REFER TO DRAINAGE PLANS FOR BIOFILTRATION SWALES LOCATIONS AND DETAILS.

**LEGEND:**

-  EROSION CONTROL (TYPE 1)
-  EROSION CONTROL (TYPE 2)
-  EROSION CONTROL (TYPE 3)
-  COIR LOG
-  FIBER ROLL

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	83	136

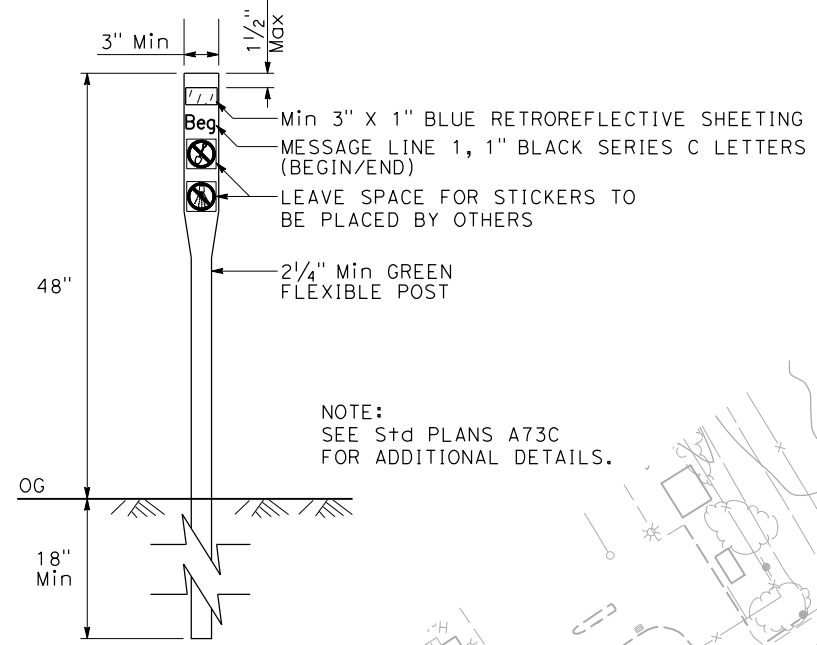
REGISTERED CIVIL ENGINEER DATE 9-15-22

PLANS APPROVAL DATE 9-30-22

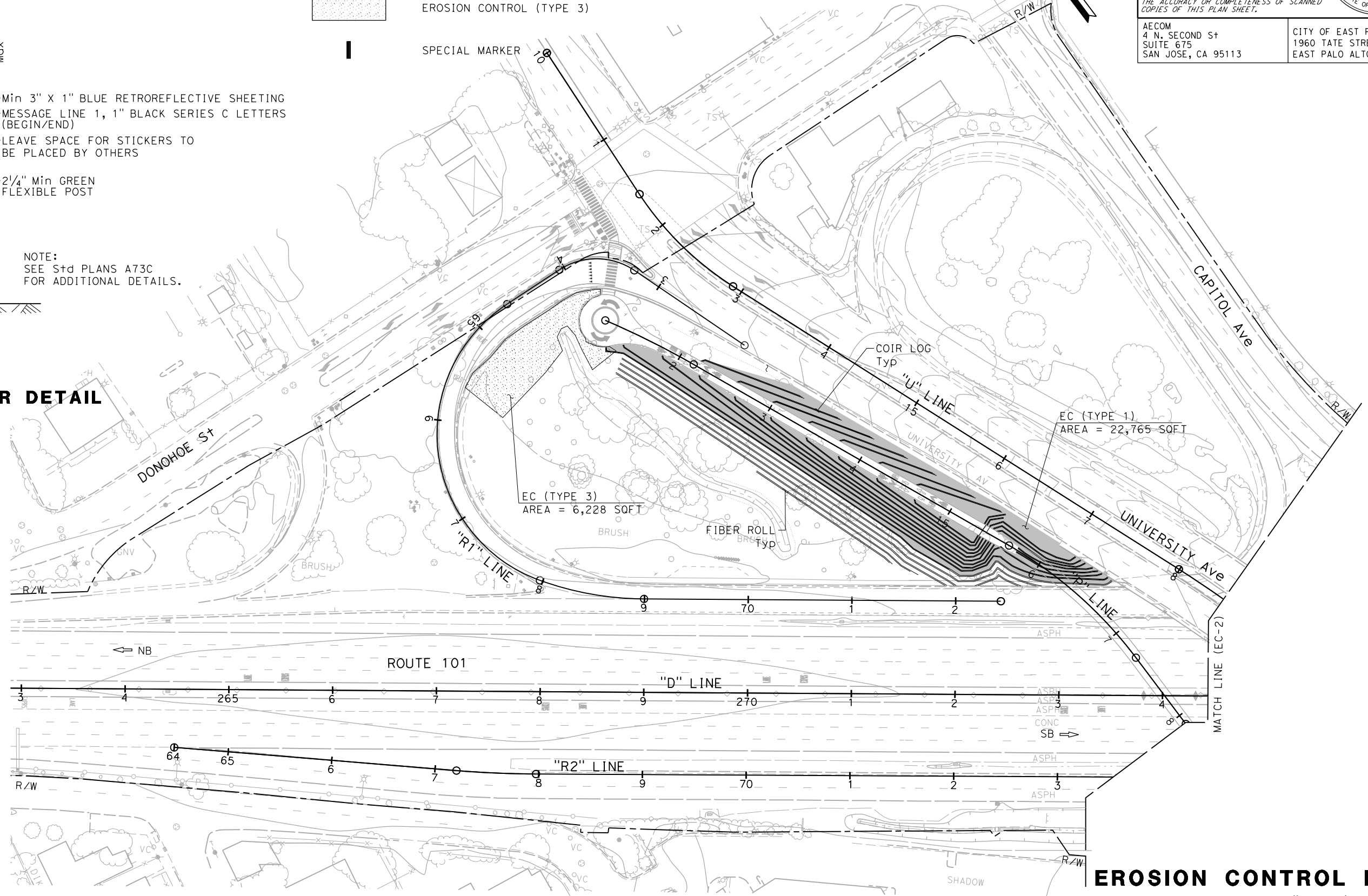
DANIEL HO No. 50914 Exp. 9-30-23 CIVIL STATE OF CALIFORNIA

AECOM 4 N. SECOND ST SUITE 675 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303



**SPECIAL MARKER DETAIL**



**EROSION CONTROL PLAN**

SCALE 1" = 50'

**EC-1**

APPROVED FOR EROSION CONTROL WORK ONLY

LAST REVISION DATE PLOTTED => 10/27/2022 TIME PLOTTED => 12:13:34 PM



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR HOWARD MICHAEL  
 CALCULATED-DESIGNED BY CHECKED BY  
 JOSE CORONEL DANIEL HO  
 REVISED BY DATE REVISED  
 JC 9-15-22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	85	136

9-15-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

DANIEL HO  
 No. 50914  
 Exp. 9-30-23  
 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.

AECOM  
 4 N. SECOND ST  
 SUITE 675  
 SAN JOSE, CA 95113

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

**EROSION CONTROL QUANTITIES**

SHEET No.	DESCRIPTION	ROLLED EROSION CONTROL PRODUCT (NETTING)	HYDROSEED	HYDROMULCH	COIR LOG	FIBER ROLL	COMPOST	COMPOST (N)	HYDROSEED (N)			HYDROMULCH (N)	
									SEED	FIBER	FERTILIZER	FIBER	TACKIFIER
		SQFT	SQFT	SQFT	LF	LF	CY	SQFT	LB	LB	LB	LB	LB
EC-1	EC TYPE 1	22,765			4332	1808							
	EC TYPE 3		6228	6228			19	6228	6.0	71.5	6.0	214.5	17.9
EC-2	EC TYPE 2	6770	6770	6770			84	6770	6.6	77.7	6.6	233.1	10.9
	EC TYPE 3		20,317	20,317			63	20,317	19.7	233.2	19.7	699.6	58.3
GRAND TOTAL		29,535	33,315	33,315	4332	1808	166						

[N] - NOT A SEPARATE BID ITEM.

**EROSION CONTROL QUANTITIES**

**ECQ-1**

DATE PLOTTED => 10/27/2022  
 TIME PLOTTED => 12:16:16 PM


**INDEX OF ELECTRICAL SYSTEMS PLANS:**

ELECTRICAL SYSTEMS PLAN SHEET	DESCRIPTION
E-1 TO E-3	ELECTRICAL SYSTEMS
E-4	MODIFYING LIGHTING SYSTEMS
E-5 TO E-6	MODIFYING FIBER OPTIC CABLE SYSTEMS
E-7 TO E-9	MODIFYING SIGNAL AND LIGHTING SYSTEMS
E-10 TO E-12	LIGHTING (CITY STREET)
E-13 TO E-18	SIGNAL AND LIGHTING (CITY STREET)
E-19	RECTANGULAR RAPID FLASHING BEACON SYSTEM (CITY)
ED-1 TO ED-4	ELECTRICAL SYSTEMS DETAILS
EQ-1 TO EQ-2	ELECTRICAL SYSTEMS QUANTITIES

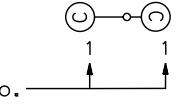
**ABBREVIATIONS:**

AWG	AMERICAN WIRE GAUGE
HCC	HYBRID CAMERA CABLE
PG&E	PACIFIC GAS AND ELECTRIC COMPANY
RRFB	RECTANGULAR RAPID FLASHING BEACON

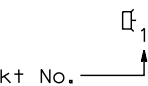
**LEGEND:**

- 


Ckt No. \_\_\_\_\_


PEDESTRIAN TEAR DROP LIGHT WITH 51 W LED LUMINAIRE (HOLOPHANE MODEL No. MSPL2-P30-40K-AS-S-B-4-P5-PCS-BHDF13-200-BK) ON 13' DECORATIVE POLE (HOLOPHANE MODEL No. NY13/20CISU734D, AFCABKH, BHC24/1/BOU3820, FGIUS, AB-31-4 RFD170122), OR APPROVED EQUAL. INSTALL CALTRANS TYPE 15 FOUNDATION PER MANUFACTURER RECOMMENDATION.
- 

Ckt No. \_\_\_\_\_

DUAL HEAD STREET/PEDESTRIAN TEAR DROP LIGHT INCLUDING 118 W LED LUMINAIRE (HOLOPHANE MODEL No. MPL2-P30S-40K-AS-BK-TG-3-S-P5-PCLL-BHDF13-200-BK), 27 W LED PEDESTRIAN LUMINAIRE (HOLOPHANE MODEL No. MSPL2-P10-40K-AS-S-B-4-P5-PCS-BHDF13-200-BK), AND 22'-10" DECORATIVE POLE (HOLOPHANE MODEL No. NY23/20CISU735D, WLC72/1, BHC24/1, (2)BBD24, FGIUS, AB-31-4 RFD170123), OR APPROVED EQUAL. INSTALL CALTRANS TYPE 15D FOUNDATION PER MANUFACTURER RECOMMENDATION.
- 

Ckt No. \_\_\_\_\_

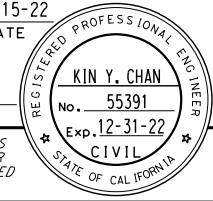
5 W LED LIGHT BOLLARD (B-K LIGHTING MODEL No. BS-LED-e102-A9-BLA-B-BLP-30-T) OR APPROVED EQUAL. SEE STRUCTURE PLANS FOR INSTALLATION DETAILS.
- 

RRFB ASEMBLY
- 

NEMA 4 JUNCTION BOX, 12"L x 6"W x 4"D. SEE SHEET 13 STRUCTURE PLAN FOR JUNCTION BOX INSTALLATION DETAILS.

**NOTES:**

- INSTALL TRACE WIRES FOR ALL NEW CALTRANS CONDUITS PER CALTRANS STANDARD SPECIFICATIONS.
- THE CONTRACTOR MUST COMPLY WITH THE SIGN PLANS FOR SIGNS MOUNTED ON SIGNAL AND LIGHTING STANDARDS AND MAST ARMS.
- ALL CALTRANS TRAFFIC RATED PULL BOXES MUST BE WELDED AS SHOWN ON SHEET ED-1.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	86	136
			7-15-22		
REGISTERED CIVIL ENGINEER			DATE		
			9-30-22		
			PLANS APPROVAL DATE		
					
Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

**ELECTRICAL SYSTEMS**

**INDEX OF ELECTRICAL SYSTEMS PLANS, NOTES, ABBREVIATIONS AND LEGEND**

LAST REVISION: DATE PLOTTED => 7/6/2022 | TIME PLOTTED => 3:50:02 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR  
 CALCULATED-DESIGNED BY  
 REVISOR BY  
 MY  
 DATE REVISED  
 07-15-22

- LEGEND: (FOR SHEETS E-4 TO E-19)**
- 1 Exist MODEL 170E CONTROLLER ASSEMBLY IN MODEL 332 CABINET.
  - 2 Exist MODEL 2070 CONTROLLER ASSEMBLY IN MODEL 332 CABINET.
  - 3 Exist 2"C, 2#6 (240 V Ltg), 2#6 (120 V SIGNAL), 2#6 (120 V TOS CABINET), 2#8 (120 V IISNS). **RC** 2#8 (120 V IISNS).
  - 4 Exist 2"C, 2#6 (240 V Ltg).
  - 5 Exist 3"C, 3 HCC.
  - 6 Exist 3"C, 1 HCC.  
Exist 2"C, 2#6 (120 V TOS CABINET).
  - 7 **RL** Exist SMART CORRIDOR CAMERA TO NEW SMA AS SHOWN ON E-7.
  - 8 Exist 2-3"C, 3 HCC. **RC** 3 HCC. ADD 3 HCC.
  - 9 Exist SMART CORRIDOR CAMERA STATION IN MODEL 334T CABINET.
  - 10 Exist 3"C, 1 HCC. **RC** 1 HCC. ADD 1 HCC.
  - 11 Exist 1 1/2"C, 2#6 (120 V TOS CABINET).
  - 12 Exist 2"C, 2#6 (240 V Ltg), 2#6 (120 V SIGNAL), 2#8 (120 V IISNS), 2#14 (120 V SIGN TEST SWITCH). **RC** 2#8 (120 V IISNS).
  - 13 2"C, 8 DLC.
  - 14 2"C, 2#6 (240 V SOFFIT), 2 DLC, 1 SIC.
  - 15 Exist 1 1/2"C, 2#6, 1 SIC. **RC** 2#6, 1 SIC. ADD 2#4 (240 V Ltg Ckt 1), 1 SIC.
  - 16 Exist 3"C, 2 HCC. **RC** 2 HCC. ADD 2 HCC.
  - 17 Exist 1 1/2"C, 2#6 (240 V Ltg).
  - 18 2"C, 2 DLC.
  - 19 Exist 1 1/2"C, 2 DLC, 1 SIC.
  - 20 Exist 2"C, 3 DLC, 1 SIC.
  - 21 INSTALL TYPE 15TS STANDARD WITH 12' LMA AND Rdwy 11 LED Lum. INSTALL NEMA 3R ENCLOSURE WITH RRFB CONTROLLER ASSEMBLY, RRFB LED LIGHT BAR, APS AND SIGNS. SEE DETAIL A ON SHEET ED-4.
  - 22 Exist 2 1/2"C, 6 DLC, 1 SIC, 12 LOOP WIRES.
  - 23 Exist 2"C, 2#6 (120 V SIGNAL), 2#8 (240 V Ltg), 2#10 (120 V IISNS), 3#14 (PEU).
  - 24 **RC** Exist PULL BOX. INSTALL NEW PULL BOX AS INDICATED.
  - 25 **RL** Exist VIDEO DETECTION CAMERA TO NEW SMA AS SHOWN ON SHEET E-17.
  - 26 2"C TYPE 1, 3#4 (120 V Ltg Ckt 2 AND Ckt 3).
  - 27 INSTALL TYPE 1 CONDUIT IN STRUCTURE. SEE STRUCTURE PLANS FOR DETAILS.
  - 28 1/2"C TYPE 1, 2#12 (120 V Ltg).
  - 29 2"C, 2#6 (240 V SOFFIT), 4 DLC, 1 SIC.
  - 30 INSTALL 5 W LED BOLLARD LIGHT AT 14' SPACING. SEE STRUCTURE PLANS FOR INSTALLATION DETAILS.
  - 31 INSTALL NEMA 4 JUNCTION BOX. SEE STRUCTURE PLANS FOR DETAILS.
  - 32 INSTALL 4-SECTION VEHICLE SIGNAL HEAD. SEE DETAIL A ON SHEET E-8.
  - 33 Exist 2"C, 2 DLC. **RC** 2 DLC. ADD 2 DLC.
  - 34 Exist 1 1/2"C, 4 DLC.
  - 35 2"C, 2#6 (240 V SOFFIT), 1 SIC.
  - 36 Exist 1 1/2"C, 2#8 (240 V SOFFIT).
  - 37 Exist 2"C, 2 DLC.
  - 38 Exist 2"C, ONE 12-STRAND SMFO CABLE AND ONE 72-STRAND SMFO CABLE. **RC** ONE 12-STRAND SMFO CABLE. ADD ONE 12-STRAND SMFO CABLE. REINSTALL Exist ONE 72-STRAND SMFO CABLE TO NEW CONDUIT AS INDICATED ON THE PLAN.
  - 39 Exist 3"C, 2 HCC.
  - 40 RECONNECT THIS Exist STREET LIGHT TO CITY SYSTEM AS INDICATED.
  - 41 2"C, 2#4 (120 V Ltg Ckt 2).
  - 42 2"C, 2#4 (120 V Ltg Ckt 2 AND Ckt 3).
  - 43 Exist 2"C, 4 DLC. **RC** 4 DLC. ADD 4 DLC.
  - 44 Exist 2"C, ONE 12-STRAND SMFO CABLE. **RC** ONE 12-STRAND SMFO CABLE. ADD ONE 12-STRAND SMFO CABLE.
  - 45 Exist 3"C, ONE 12-STRAND SMFO CABLE. **RC** ONE 12-STRAND SMFO CABLE. ADD ONE 12-STRAND SMFO CABLE.
  - 46 2"C, 2#4 (240 V Ltg Ckt 1), 3#4 (120 V Ltg Ckt 2 AND Ckt 3).
  - 47 2"C, 2#4 (240 V Ltg Ckt 1).
  - 48 SPLICE SOFFIT Ltg CONDUCTORS TO INTERSECTION Ltg Ckt.
  - 49 SEE SHEET E-10 FOR CONTINUATION.
  - 50 Exist 1 1/2"C, 2#6, 1 SIC, ONE 12-STRAND SMFO CABLE. **RC** 2#6, 1 SIC, ONE 12-STRAND SMFO CABLE. ADD 2#4 (240 V Ltg Ckt 1), 1 SIC, ONE 12-STRAND SMFO CABLE.
  - 51 Exist CONDUIT(S) AND CONDUCTORS TO REMAIN.
  - 52 **AB** 2"C, 2#6 (240 V Ltg), 2#14 (120 V TEST SWITCH).
  - 53 Exist 2"C, 1 SIC. **RC** 1 SIC. ADD 1 SIC FROM CONTROLLER CABINET AT THIS INTERSECTION TO CONTROLLER CABINET AT WOODLAND Ave AND MANHATTAN Ave INTERSECTION ( $\pm$ 450' TO WEST).
  - 54 Exist 2"C, 1 SIC.
  - 55 REPROGRAM VIDEO DETECTION ZONES AS SHOWN.
  - 56 Exist 2"C, 2#6 (120 V SIGNAL), 2#6 (120 V TOS CABINET), 2#8 (240 V Ltg), 3#14 (PEU). ADD 2#8 (120 V RRFB).
  - 57 Exist 2"C, 2#6 (120 V SIGNAL), 2#8 (240 V Ltg), 2#10 (120 V IISNS), 3#14 (PEU). **RC** 2#8 (Ltg). ADD 2#4 (240 V Ltg Ckt 1), 3#4 (120 V Ltg Ckt 2 AND Ckt 3).
  - 58 Exist 2"C, 3 DLC. **RC** 3 DLC. ADD 3 DLC.
  - 59 2"C, 4 DLC.
  - 60 Exist 1 1/2"C, 1 SIC. **RC** 1 SIC. ADD 1 SIC.
  - 61 Exist 2 1/2"C, 7 DLC, 1 SIC
  - 62 Exist 1 1/2"C, 2#6 (240 V SOFFIT), 1 SIC, ONE 12-STRAND SMFO CABLE. **RC** 1 SIC, ONE 12-STRAND SMFO CABLE. ADD 2#4 (240 V Ltg Ckt 1), 1 SIC, ONE 12-STRAND SMFO CABLE.
  - 63 SEE DETAIL A ON SHEET E-11 FOR POLE LOCATION.
  - 64 SEE DETAIL B ON SHEET E-11 FOR POLE LOCATION.
  - 65 **RC** Exist PULL BOX. INSTALL NEW No. 5 PULL BOX.
  - 66 Exist 2"C, 5 DLC.
  - 67 2"C, 2#8 (240 V Ltg), 2#8 (120 V RRFB).
  - 68 INSTALL TYPE 15-FBS FIXED BASE STANDARD WITH RRFB LED LIGHT BAR, APS AND SIGNS. SEE DETAIL B ON SHEET ED-4.
  - 69 2"C, 2#8 (240 V Ltg), 2#8 (120 V RRFB), 1 RRFB LED LIGHT BAR CABLE, 1 RRFB APS CABLE.
  - 70 INSTALL TYPE 15-FBS STANDARD WITH RRFB LED LIGHT BAR AND SIGNS. SEE DETAIL C ON SHEET ED-4.
  - 71 1 1/2"C, 1 RRFB LED LIGHT BAR CABLE.
  - 72 1 1/2"C, 2 RRFB LED LIGHT BAR CABLES.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	87	136

7-15-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

KIN Y. CHAN  
 No. 55391  
 Exp. 12-31-22  
 CIVIL  
 STATE OF CALIFORNIA

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Y&C TRANSPORTATION CONSULTANTS, INC.  
 3250 RAMOS CIRCLE  
 SACRAMENTO, CA 95827

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

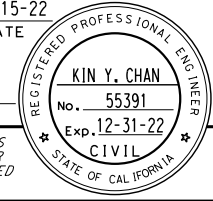
**ELECTRICAL SYSTEMS**

LAST REVISION DATE PLOTTED => 7/6/2022 07-15-22 TIME PLOTTED => 3:50:04 PM

**LEGEND: (FOR SHEETS E-4 TO E-19)**

- 73 Exist 2-1" INNERDUCTS IN 2"C, ONE 72-STRAND SMFO CABLE TO FIBER OPTIC CABINET TSC053 AT UNIVERSITY Ave AND BAY Rd INTERSECTION.
- 74 PULL OUT Exist ONE 72-STRAND SMFO CABLE FROM FIBER OPTIC CABINET TSC057 TO THIS FIBER OPTIC SPLICE VAULT. REINSTALL ONE 72-STRAND SMFO CABLE IN NEW AND EXISTING CONDUITS AS INDICATED ON THE PLAN.
- 75 Exist 2"C, ONE 12-STRAND SMFO CABLE AND ONE 72-STRAND SMFO CABLE. PULL OUT AND REINSTALL Exist ONE 72-STRAND SMFO CABLE AS INDICATED ON THE PLAN.
- 76 Exist 2-1" INNERDUCTS IN 2"C, ONE 72-STRAND SMFO CABLE. PULL OUT AND REINSTALL Exist ONE 72-STRAND SMFO CABLE AS INDICATED ON THE PLAN.
- 77 4-1½"C, ONE 12-STRAND SMFO CABLE, REINSTALL Exist ONE 72-STRAND SMFO CABLE TO NEW CONDUIT AS INDICATED ON THE PLAN. SEE TRENCH DETAIL ON SHEET ED-3.
- 78 Exist 3"C, ONE 12-STRAND SMFO CABLE.
- 79 INSTALL FIBER OPTIC PULL BOX. SEE SHEET ED-2 FOR DETAILS.
- 80 4-1½"C, ONE 12-STRAND SMFO CABLE. SEE TRENCH DETAIL ON SHEET ED-3.
- 81 ADD ONE 30 A, 1P, 120 V CB WITH NAMEPLATE "LIGHTING 2" TO Exist SERVICE EQUIPMENT ENCLOSURE FOR Ltg Ckt 2. ADD ONE 30 A, 1P, 120 V CB WITH NAMEPLATE "LIGHTING 3" TO Exist SERVICE EQUIPMENT ENCLOSURE FOR Ltg Ckt 3.
- 82 Exist 2"C, 2 DLC. ADD 12 LOOP WIRES.
- 83 ADD 20 A, 1P, 120 V CB WITH NAMEPLATE "RRFB" TO Exist SERVICE EQUIPMENT ENCLOSURE FOR RRFB.
- 84 3"C, 2#6 (240 V SOFFIT), 8 DLC, 1 SIC.
- 85 Exist 1½"C, 2#6 (240 V Ltg), 2#14 (120 V TEST SWITCH).
- 86 2"C, 2#6 (240 V Ltg), 2#14 (120 V TEST SWITCH).
- 87 2"C, 2#6 (240 V Ltg).
- 88  RL Exist IISNS TO NEW SMA AS SHOWN ON SHEET E-17.
- 89 Exist 2"C, ONE 12-STRAND SMFO CABLE.
- 90 Exist 1½"C, 2 DLC. ADD 8 LOOP WIRES.
- 91  RC Exist PBA. REPAIR THE HOLES ON Exist STANDARD.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	88	136



7-15-22  
 REGISTERED CIVIL ENGINEER DATE  
 9-30-22  
 PLANS APPROVAL DATE

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Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
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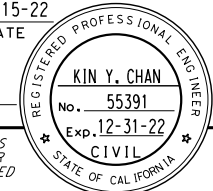
**ELECTRICAL SYSTEMS**

LAST REVISION: DATE PLOTTED => 7/6/2022  
 07-15-22 TIME PLOTTED => 3:50:06 PM

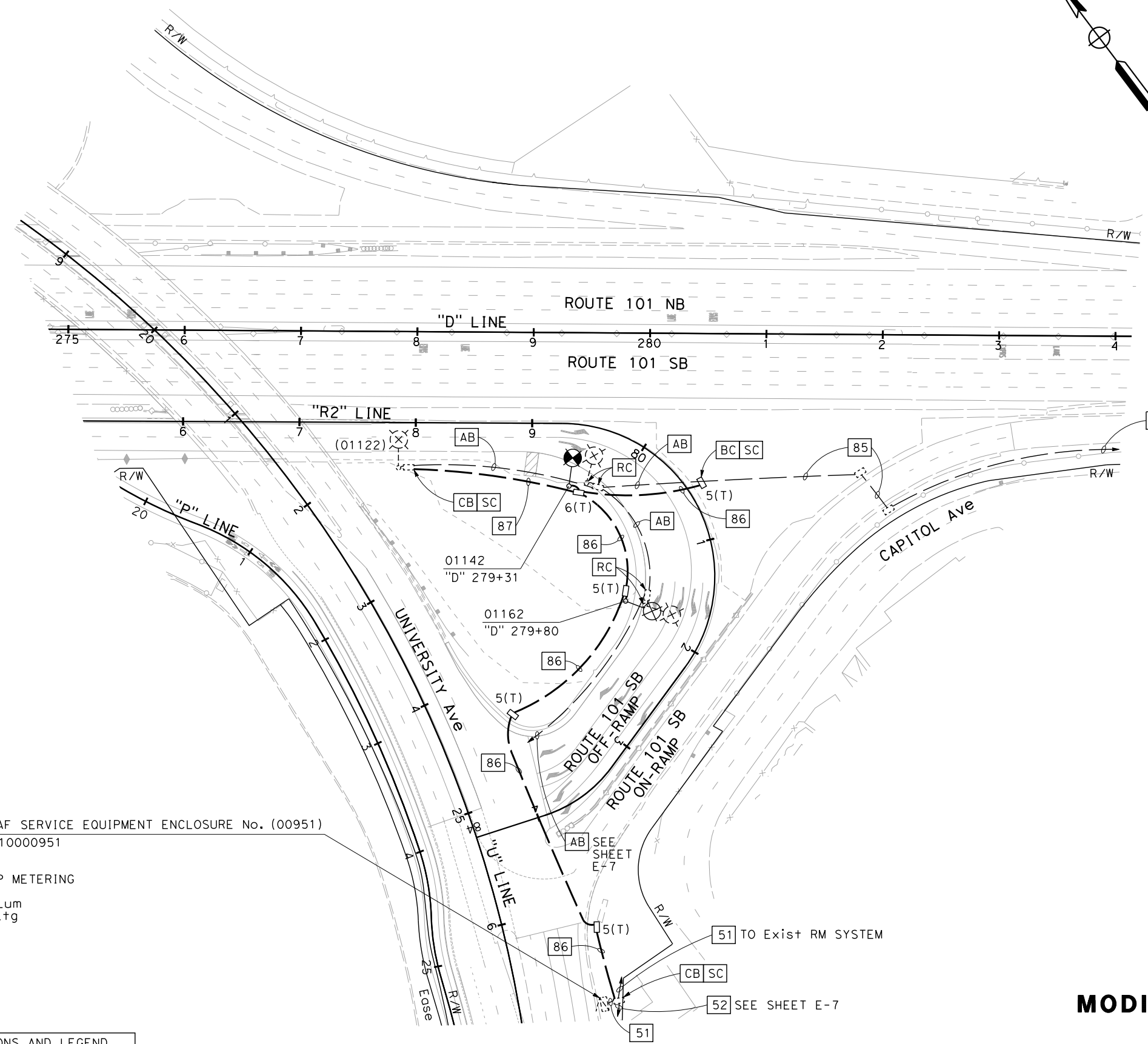
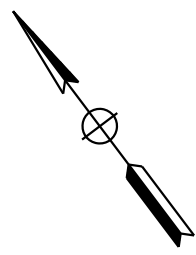


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	89	136

<i>Kin Y. Chan</i> REGISTERED CIVIL ENGINEER	7-15-22 DATE
9-30-22 PLANS APPROVAL DATE	
Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303

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



85 TO Exist Ltg Nos. (01052), (01052), (01032)  
AND SIGN No. (01012)

Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (00951)  
CTID No. 04351010000951  
Exist LOAD:  
1-800 W CCTV  
1-1500 W RAMP METERING  
1-100 W TDC  
6-235 W LED Lum  
2-85 W SIGN Ltg

SEE SHEET E-7

51 TO Exist RM SYSTEM


52 SEE SHEET E-7

FOR NOTES, ABBREVIATIONS AND LEGEND,  
SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

**MODIFYING LIGHTING SYSTEMS**  
SCALE: 1" = 50'

**E-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
	DAN K. YAU	KIN Y. CHAN	MY	07-15-22

LAST REVISION DATE PLOTTED => 7/6/2022  
07-15-22 TIME PLOTTED => 3:50:08 PM

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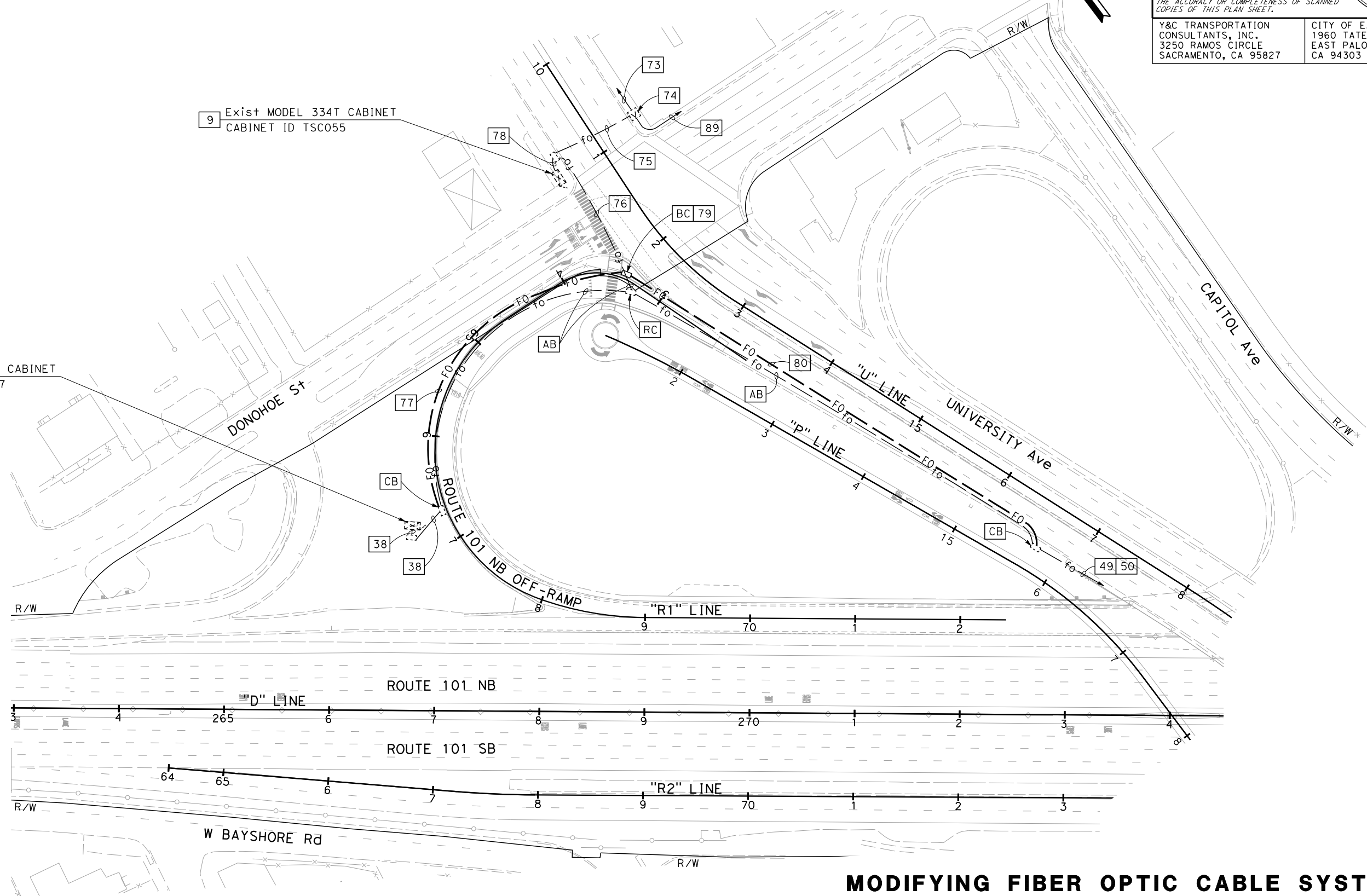
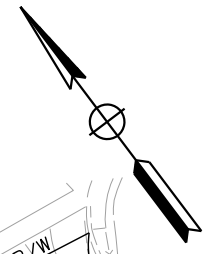
  

<i>K. Chan</i>	7-15-22
REGISTERED CIVIL ENGINEER	DATE
9-30-22	
PLANS APPROVAL DATE	

Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
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**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
	DAN K. YAU	KIN Y. CHAN	MY	07-15-22

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

**MODIFYING FIBER OPTIC CABLE SYSTEMS**  
SCALE: 1" = 50'

**E-5**

LAST REVISION DATE PLOTTED => 7/6/2022  
07-15-22 TIME PLOTTED => 3:50:24 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	91	136

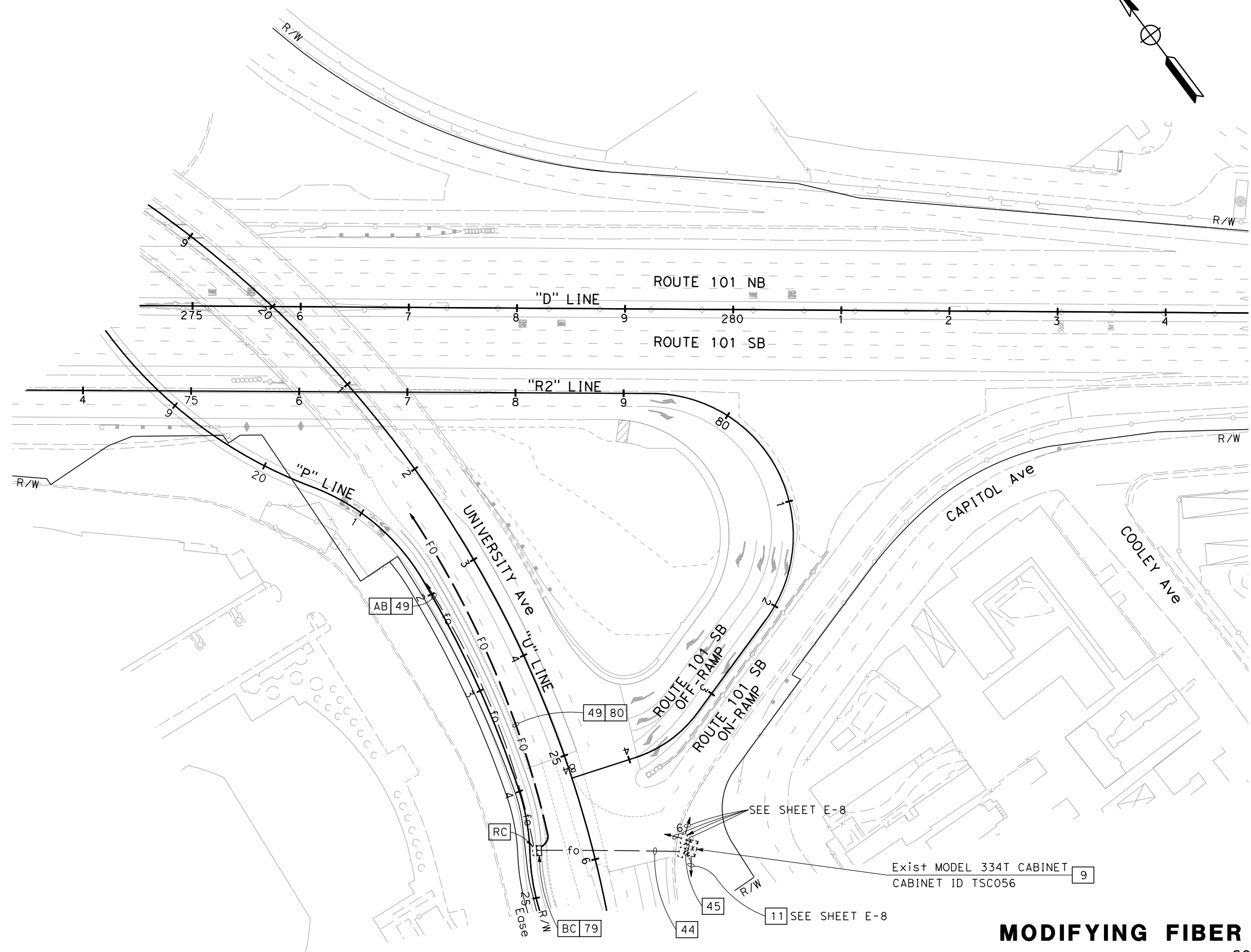
<i>Kin Y. Chan</i>	7-15-22
REGISTERED CIVIL ENGINEER	DATE
9-30-22	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**KIN Y. CHAN**  
 No. 55391  
 Exp. 12-31-22  
 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.

Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
---	---

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



**MODIFYING FIBER OPTIC CABLE SYSTEMS**  
SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
<b>Caltrans</b>	DAN K. YAU	KIN Y. CHAN	MY	07-15-22

LAST REVISION DATE PLOTTED => 7/6/2022  
07-15-22 TIME PLOTTED => 3:50:45 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	92	136

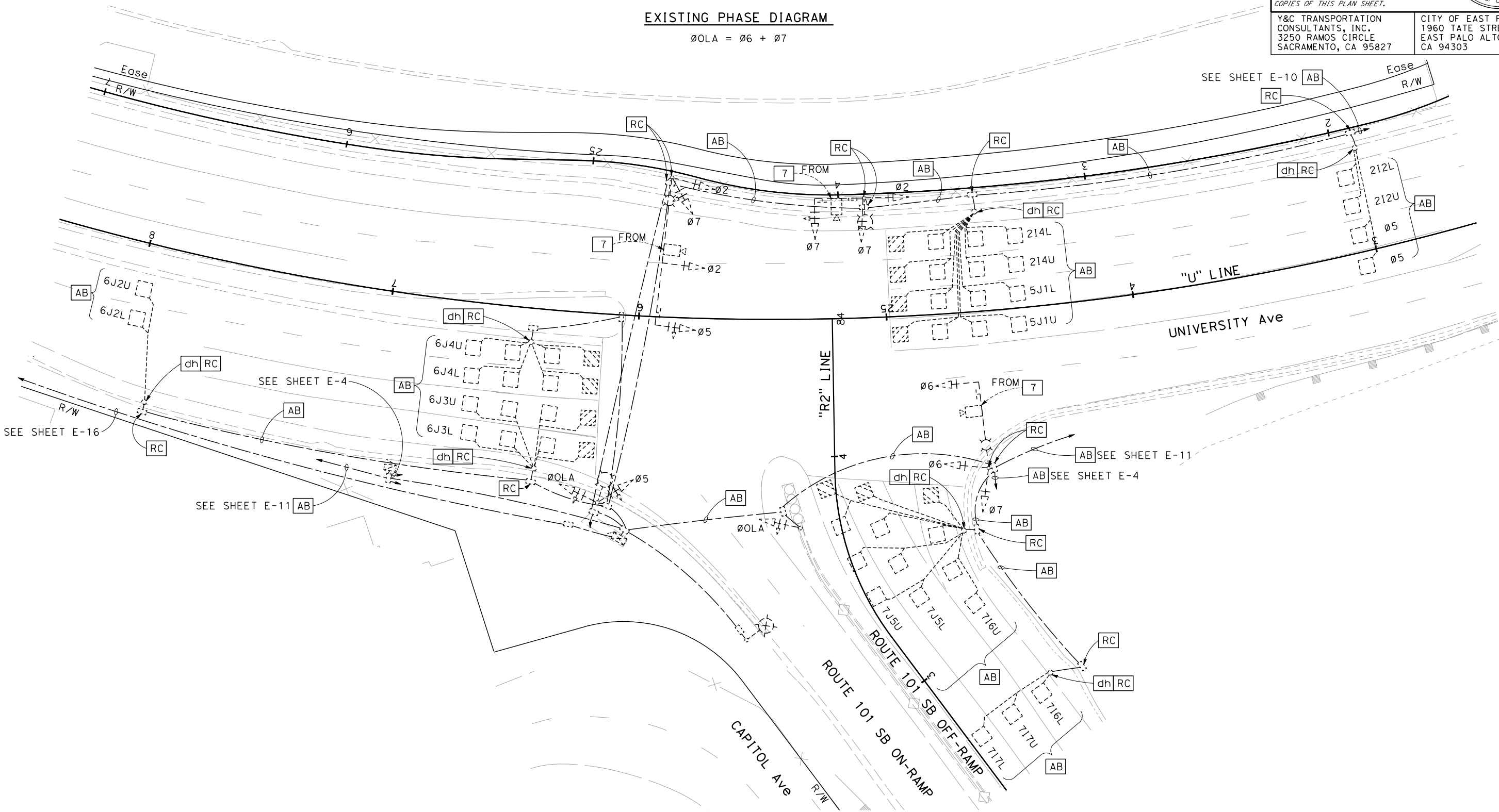
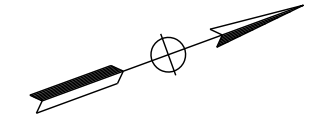
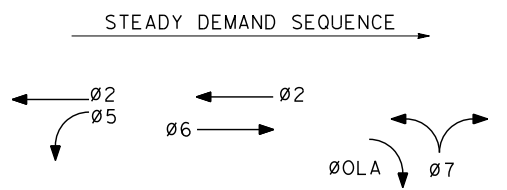
  

REGISTERED CIVIL ENGINEER	DATE
<i>Kin Y. Chan</i>	7-15-22
PLANS APPROVAL DATE	
9-30-22	

Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
---	---

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



**MODIFYING SIGNAL AND LIGHTING SYSTEMS**

**LOCATION 3 (EXISTING)**

SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

**E-7**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGNED BY	REVISIONS	DATE
	CHECKED BY	MY	07-15-22
	CONSULTANT SUPERVISOR	REVISOR	
	DESIGNED BY	MENG YANG	
	CHECKED BY	KIN Y. CHAN	
	CONSULTANT SUPERVISOR	DAN K. YAU	

LAST REVISION DATE PLOTTED => 7/6/2022 7:50:58 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	93	136

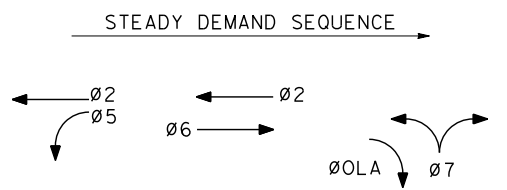
<i>Kin Y. Chan</i>	7-15-22
REGISTERED CIVIL ENGINEER	DATE
9-30-22	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**KIN Y. CHAN**  
 No. 55391  
 Exp. 12-31-22  
 CIVIL  
 STATE OF CALIFORNIA

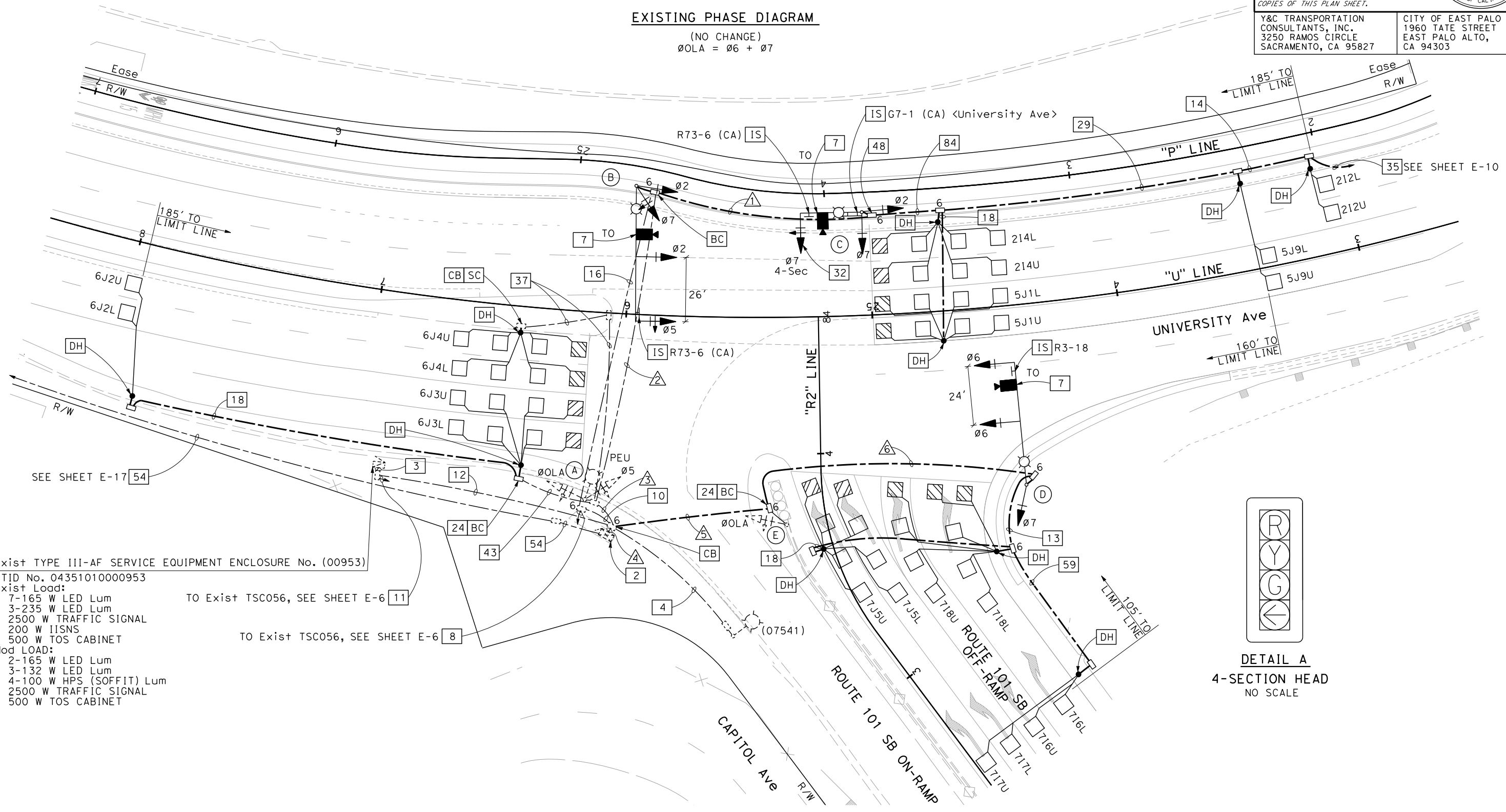
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
---	--

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



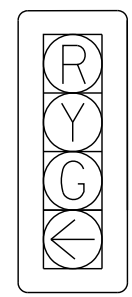
**EXISTING PHASE DIAGRAM**  
(NO CHANGE)  
 $\varnothingOLA = \varnothing6 + \varnothing7$



Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (00953)  
 CTID No. 04351010000953  
 Exist Load:  
 7-165 W LED Lum  
 3-235 W LED Lum  
 2500 W TRAFFIC SIGNAL  
 200 W IISNS  
 500 W TOS CABINET  
 Mod LOAD:  
 2-165 W LED Lum  
 3-132 W LED Lum  
 4-100 W HPS (SOFFIT) Lum  
 2500 W TRAFFIC SIGNAL  
 500 W TOS CABINET

TO Exist TSC056, SEE SHEET E-6 [11]

TO Exist TSC056, SEE SHEET E-6 [8]



**DETAIL A**  
4-SECTION HEAD  
NO SCALE

**MODIFYING SIGNAL AND LIGHTING SYSTEMS**  
SCALE: 1" = 20'

**LOCATION 3**


APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 MENG YANG  
 KIN Y. CHAN  
 DAN K. YAU  
 07-15-22  
 07-15-22

SCHEDULES: (FOR SHEET E-8)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	94	136

 7-15-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**KIN Y. CHAN**  
 No. 55391  
 Exp. 12-31-22  
 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.


Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
---	---

CONDUCTOR AND CONDUIT SCHEDULE						
CONDUCTOR SCHEDULE	No. OF CONDUCTORS					
	CONDUIT RUN NUMBER					
	1	2	3	4	5	6
No. 14 CONDUCTORS						
Ø2	3	3		3		
Ø5		3	3	3		
Ø6					3	3
Ø7	4	4	4	7	3	3
ØOLA			5	10	5	
PEU			3			
SPARES	3	3	3	6	3	3
TOTAL No. 14	10	13	18	32	14	9
No. 8 CONDUCTORS						
SIGNAL NEUTRAL	1	1	1	2	1	1
No. 6 CONDUCTORS						
LIGHTING	2	2	2		2	2
SERVICE TO CONTROLLER				2		
TOTAL No. 6	2	2	2	2	2	2
DETECTOR CABLES (DLC)						
2I2U/2I2L	2	2	2	2		
2I4U/2I4L	2	2	2	2		
7I6U/7I6L				2	2	2
7I7U/7I7L				2	2	2
7I8U/7I8L				2	2	2
7J5U/7J5L				2	2	2
5J1U/5J1L	2	2	2	2		
5J9U/5J9L	2	2	2	2		
6J2U/6J2L			2	2		
6J3U/6J3L			2	2		
6J4U/6J4L			2	2		
TOTAL DETECTOR CABLES	8	8	14	22	8	8
SIGNAL INTERCONNECT CABLES	1	1	1	1	#	
HYBRID CAMERA CABLE (HCC)	1					1
CONDUIT SIZE (INCHES)	3"	3"	3"	2-3"	3"	3"
NEW/EXISTING CONDUIT	N	E	E	E	N	N
% FILL	17	16	23	19	17	15

NOTE: REMOVE ALL Exist CONDUCTORS/CABLES.  
 ADD ALL NEW CONDUCTORS/CABLES, UNLESS OTHERWISE NOTED.

# = Exist CABLE TO REMAIN

POLE AND EQUIPMENT SCHEDULE									
No.	STANDARD			Veh Sig Mtg			LED Lum	REMARKS *	
	TYPE	SMA	LMA	Ø	MAST ARM	Ø			POLE
(A)	Exist 15		15'			5 OLA	SV-2-TA	Rdwy 1	ALL EXISTING EQUIPMENT TO REMAIN.
(B)	29-5-100	55'	15'	5	MAS	2	SV-2-TB	Rdwy 11	SEE LEGEND 7 . IS R73-6(CA).
(C)	19-4-100	25'	15'	7	MAS-4B	2 7	SV-2-TB	Rdwy 11	SEE LEGEND 7 . IS R73-6(CA) AND G7-1(CA).
(D)	29-5-100	50'	15'	6 6	MAS MAS	7	SV-1-T	Rdwy 11	SEE LEGEND 7 . IS R3-18.
(E)	Exist 1-B					OLA	TV-1-T		ALL EXISTING EQUIPMENT TO REMAIN.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
  
 CONSULTANT FUNCTIONAL SUPERVISOR  
 DAN K. YAU  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 MENG YANG  
 KIN Y. CHAN  
 REVISED BY  
 DATE REVISED  
 MY  
 07-15-22

**MODIFYING SIGNAL AND LIGHTING SYSTEMS**

**LOCATION 3**

SCALE: 1" = 20'

**E-9**

LAST REVISION DATE PLOTTED => 7/6/2022  
 07-15-22 TIME PLOTTED => 3:51:09 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	95	136

<i>Kin Y. Chan</i>	7-15-22
REGISTERED CIVIL ENGINEER	DATE
9-30-22	
PLANS APPROVAL DATE	

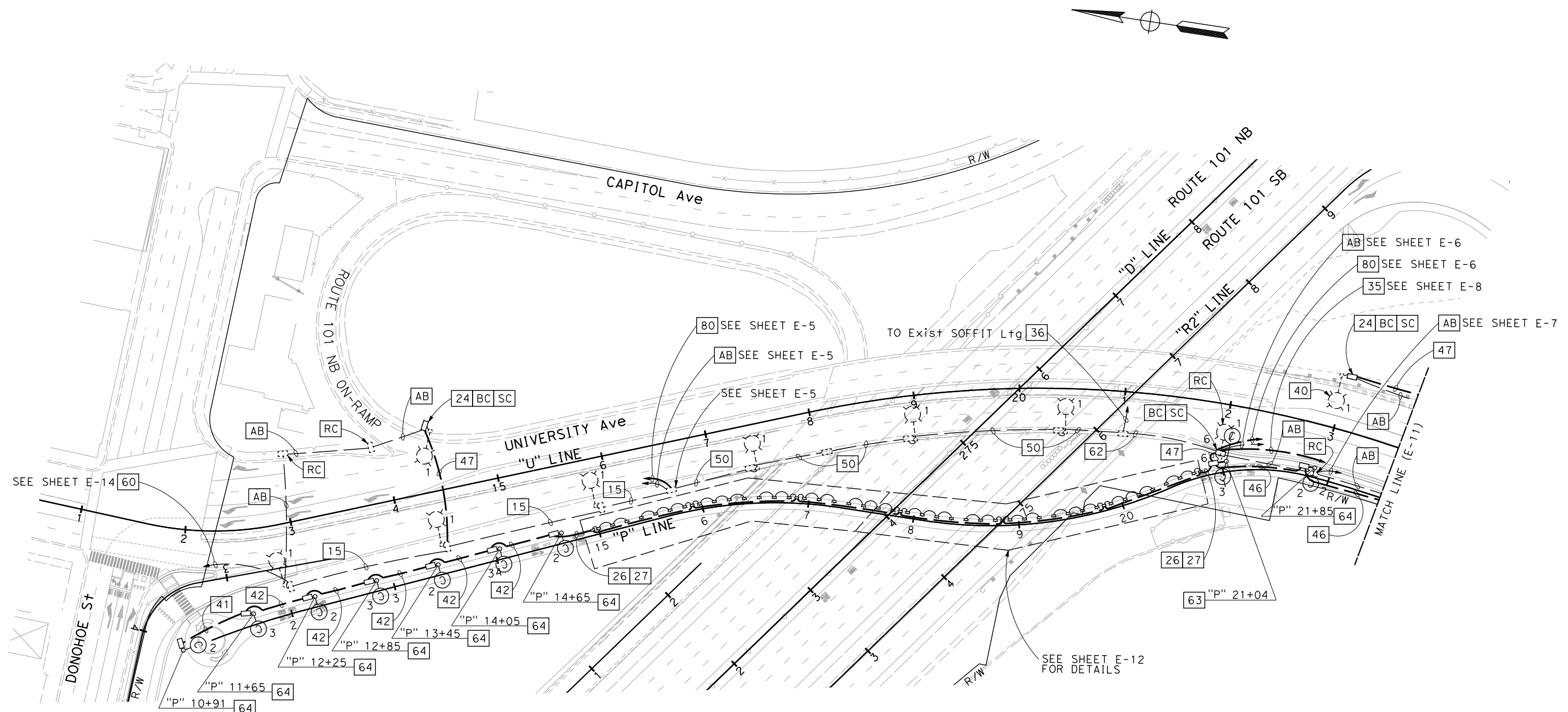
REGISTERED PROFESSIONAL ENGINEER  
**KIN Y. CHAN**  
 No. 55391  
 Exp. 12-31-22  
 CIVIL  
 STATE OF CALIFORNIA

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.

Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
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**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>Caltrans</b>	DAN K. YAU	MY	07-15-22
	CHECKED BY	REVISOR	DATE
	KIN Y. CHAN	MY	07-15-22
	DESIGNED BY	REVISOR	DATE
	MENG YANG		



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

**LIGHTING (CITY STREET)**  
SCALE: 1" = 50'

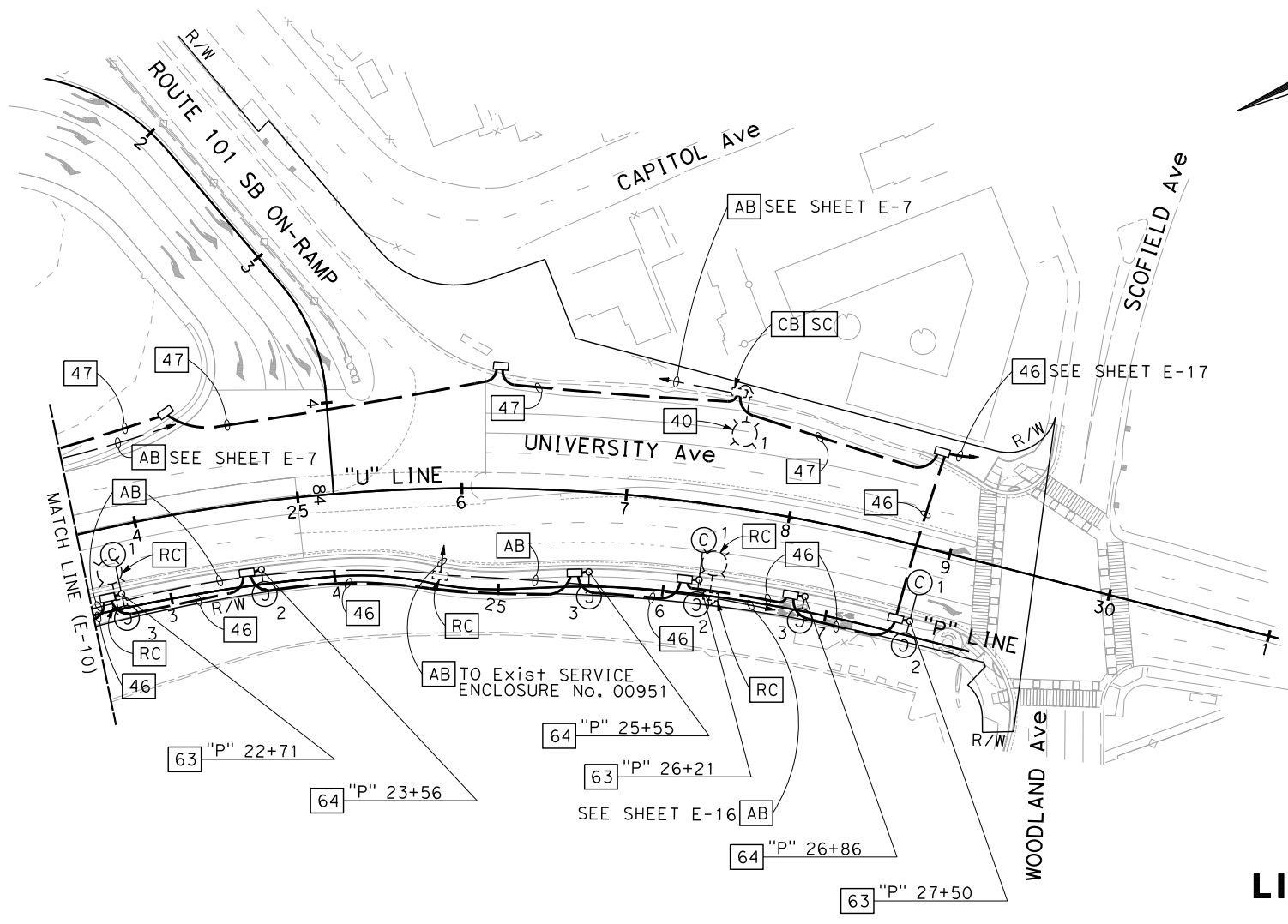
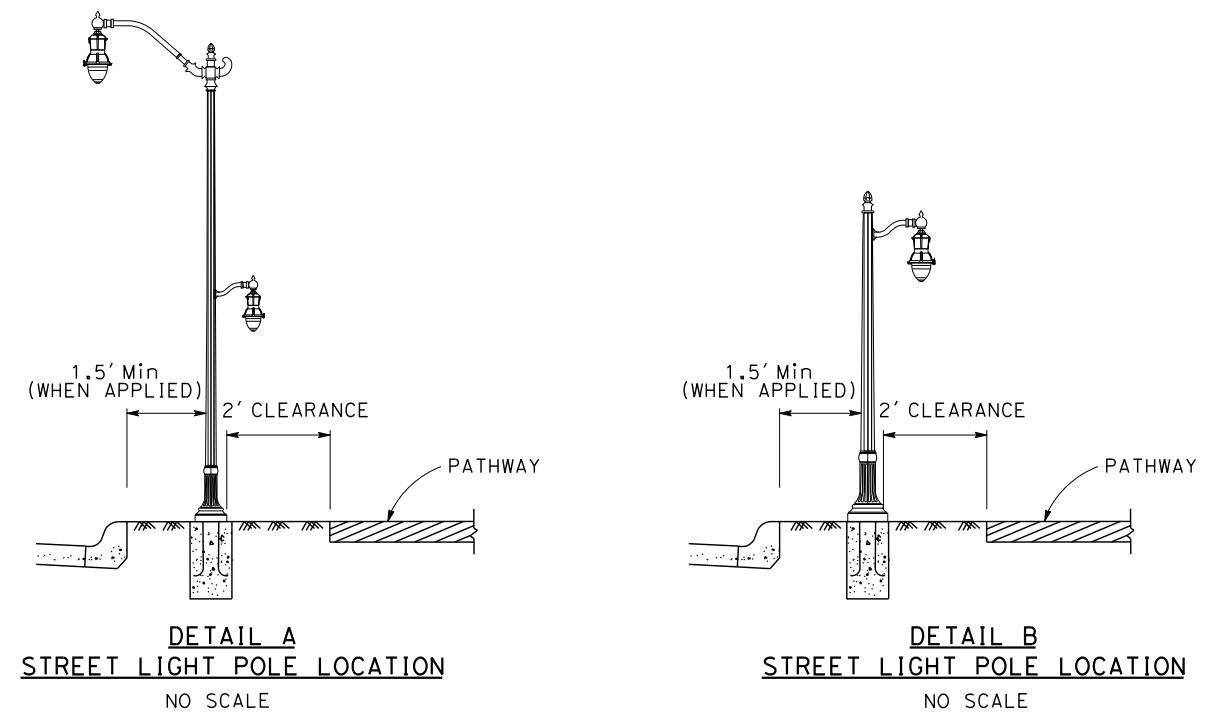
**E-10**

APPROVED FOR ELECTRICAL WORK ONLY

LAST REVISION: DATE PLOTTED => 7/6/2022  
07-15-22 TIME PLOTTED => 3:51:12 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	96	136
			7-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	PLANS APPROVAL DATE	
Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

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



**LIGHTING (CITY STREET)**  
SCALE: 1" = 50'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR	DATE
	DAN K. YAU	MENG YANG	MY	07-15-22
	CHECKED BY	KIN Y. CHAN	DATE REVISED	

LAST REVISION DATE PLOTTED => 7/6/2022 07-15-22 TIME PLOTTED => 3:51:25 PM



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	97	136

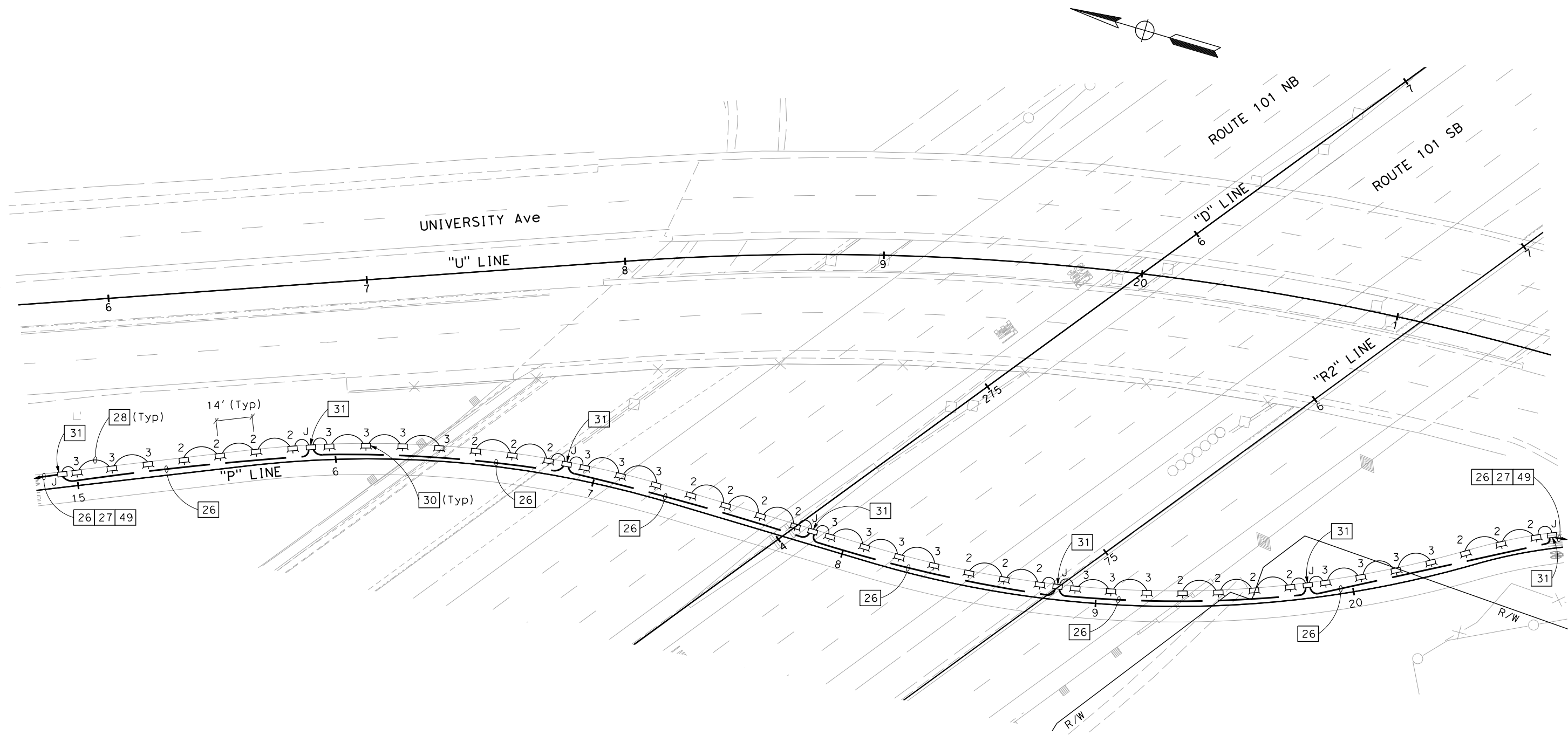
<i>K. Chan</i>	7-15-22
REGISTERED CIVIL ENGINEER	DATE
9-30-22	
PLANS APPROVAL DATE	

Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
---	--

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR	DATE
<b>Caltrans</b>	DAN K. YAU	CHECKED BY	MY	07-15-22
			MENG YANG	
			KIN Y. CHAN	



**LIGHTING (CITY STREET)**  
SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

**E-12**

LAST REVISION DATE PLOTTED => 7/6/2022 07-15-22 TIME PLOTTED => 3:51:35 PM

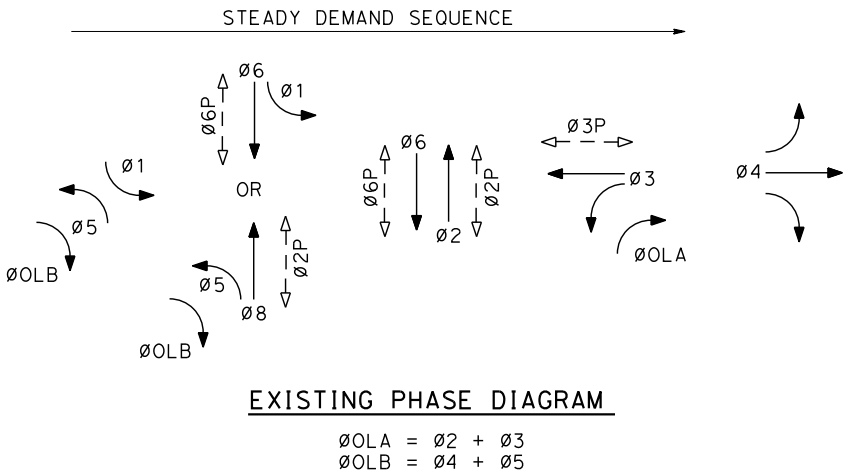
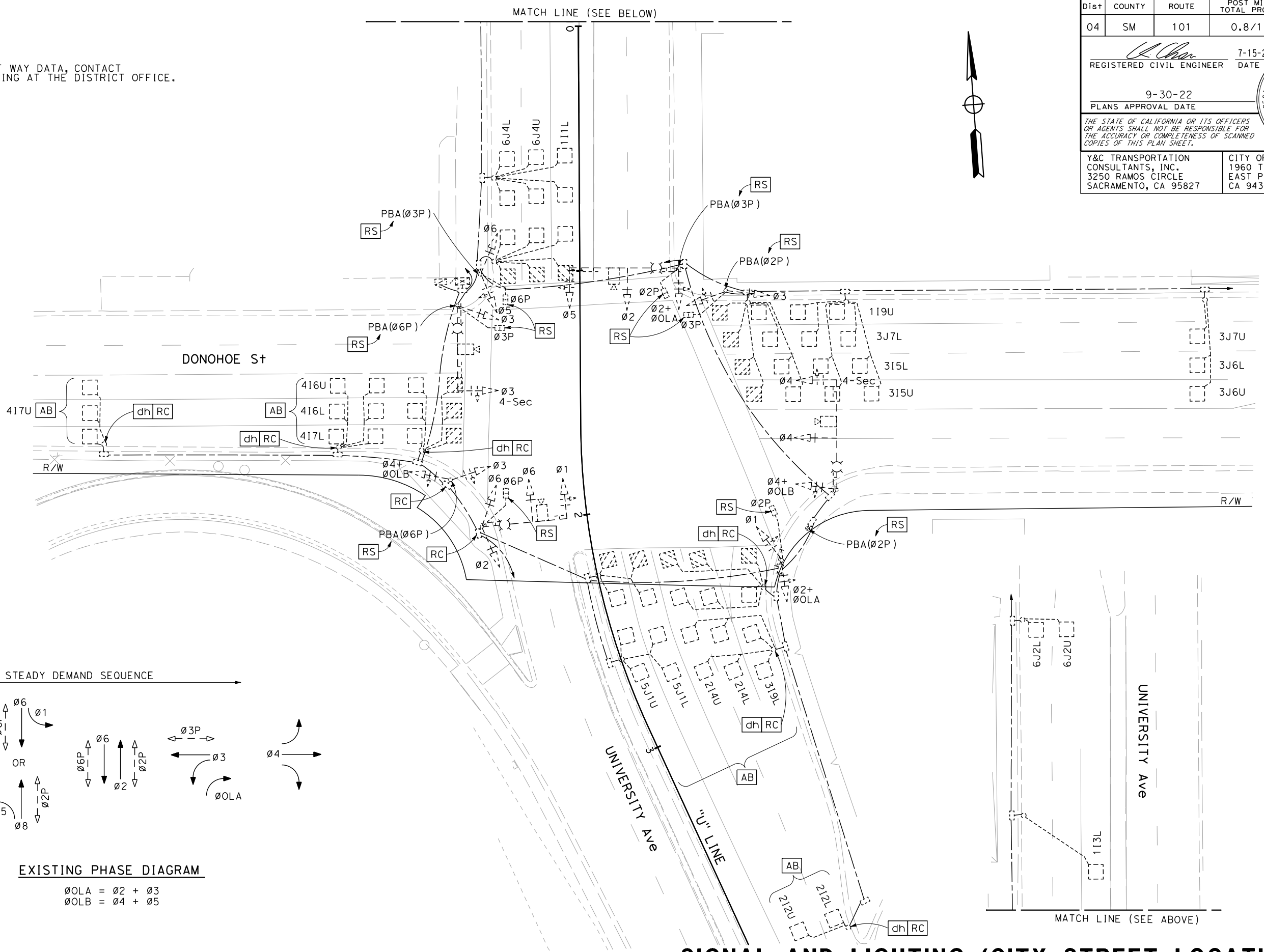
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU  
 CALCULATED/DESIGNED BY: MING YANG  
 CHECKED BY: KIN Y. CHAN  
 REVISED BY: MY  
 DATE REVISED: 07-15-22

**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	SM	101	0.8/1.1	98	136

REGISTERED CIVIL ENGINEER: *Kin Y. Chan* DATE: 7-15-22  
 PLANS APPROVAL DATE: 9-30-22  
 KIN Y. CHAN No. 55391 Exp. 12-31-22 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.  
 Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827  
 CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303



**SIGNAL AND LIGHTING (CITY STREET LOCATION 1)**

SCALE: 1" = 20'

(EXISTING)

APPROVED FOR ELECTRICAL WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

**E-13**

LAST REVISION: DATE PLOTTED => 7/6/2022 TIME PLOTTED => 3:51:38 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	99	136

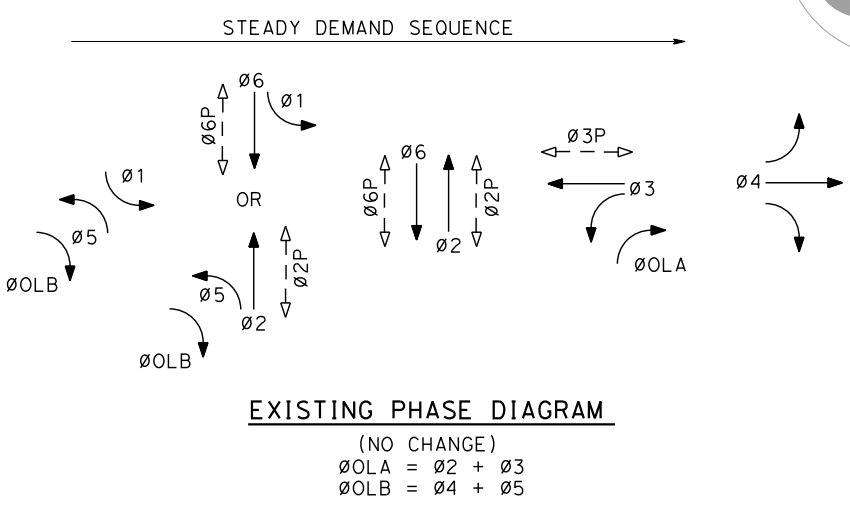
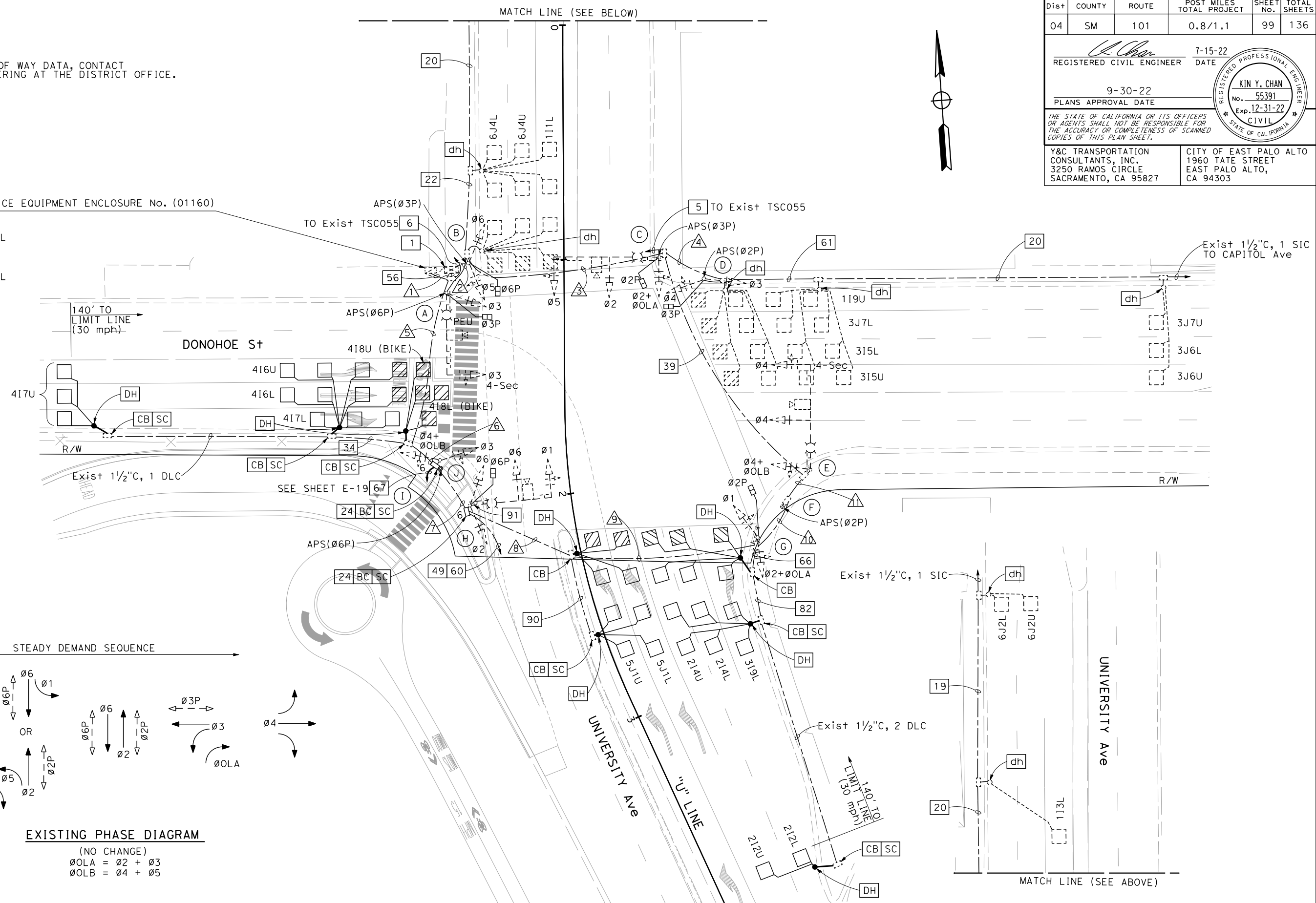
REGISTERED CIVIL ENGINEER	DATE
<i>Kin Y. Chan</i>	7-15-22
PLANS APPROVAL DATE	
9-30-22	

Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
---	---

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

83 Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. (01160)  
Exist Load:  
4-139 W LED Lum  
2500 W TRAFFIC SIGNAL  
4-100 W CCTV  
Mod LOAD:  
4-139 W LED Lum  
2500 W TRAFFIC SIGNAL  
4-100 W CCTV  
200 W RRFB



**SIGNAL AND LIGHTING (CITY STREET LOCATION 1)**  
SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

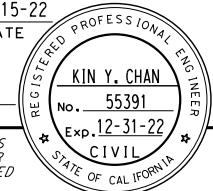
APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
Caltrans

DESIGNED BY	MY
DESIGNED BY	MY
REVISOR	MY
REVISOR	MY
DATE	07-15-22
DATE	07-15-22
DESIGNED BY	MENG YANG
DESIGNED BY	MENG YANG
CHECKED BY	KIN Y. CHAN
CHECKED BY	KIN Y. CHAN
DESIGNED BY	DAN K. YAU
DESIGNED BY	DAN K. YAU

SCHEDULES: (FOR SHEET E-14)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	100	136


 7-15-22  
 REGISTERED CIVIL ENGINEER DATE  
 9-30-22  
 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.

Y&C TRANSPORTATION CONSULTANTS, INC.  
 3250 RAMOS CIRCLE  
 SACRAMENTO, CA 95827

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

CONDUCTOR AND CONDUIT SCHEDULE											
CONDUCTOR DESIGNATION	No. OF CONDUCTORS										
	CONDUIT RUN NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
No. 14 CONDUCTORS											
Ø1	3				3	3	3	3	3		
Ø2	6	3	3		3	3	3	3	3		
Ø3	6	3	3	3	3	3					
Ø4	6	3	3	3	3	3	3	3	3	3	3
Ø5	3	3	3								
Ø6	6	3			3	3	3				
ØOLA	4	2	2		2	2	2	2	2		
ØOLB	2				2	2	2	2	2	2	2
Ø2P	4	2	2		2	2	2	2	2		
Ø3P	2	2	2	2							
Ø6P	4	2			2	2	2				
APS(Ø2P)	2	1	1	1	1	1	1	1	1	1	1
APS(Ø3P)	1	1	1								
APS(Ø6P)	1				1	1					
APS COMMON	2	1	1	1	1	1	1	1	1	1	1
SPARES	6	3	3	3	3	3	3	3	3	3	3
TOTAL No. 14	58	29	24	13	29	29	25	20	20	10	8
No. 8 CONDUCTORS											
LIGHTING (240 V)		2	2		2	2	2	2	2	2	2
RRFB					2 <sup>+</sup>	2 <sup>+</sup>					
SIGNAL NEUTRAL	2	1	1	1	1	1	1	1	1	1	1
TOTAL No. 8	2	3	3	1	5	5	3	3	3	3	3
No. 6 CONDUCTORS											
SERVICE TO CONTROLLER (120 V)	2										
DETECTOR CABLES (DLC)											
1I1L	1	1									
1I3L	1	1									
1I9U	1	1	1	1							
2I2U/2I2L	2				2	2	2	2	2		
2I4U/2I4L	2				2	2	2	2	2		
3I5U/3I5L	2	2	2	2							
3I9L	1				1	1	1	1	1		
3J6U/3J6L	2	2	2	2							
3J7U/3J7L	2	2	2	2							
4I6U/4I6L	2				2						
4I7U/4I7L	2				2						
4I8U (BIKE)/4I8L (BIKE)	2 <sup>+</sup>				2 <sup>+</sup>						
5J1U/5J1L	2				2	2	2	2			
6J2U/6J2L	2	2									
6J4U/6J4L	2	2									
TOTAL DETECTOR CABLES	26	13	7	7	13	7	7	7	5		
SIGNAL INTERCONNECT CABLE	2	2	1	1	1*	1*	1*				
APS CABLE		2 <sup>+</sup>	2 <sup>+</sup>			1 <sup>+</sup>			1 <sup>+</sup>		
HYBRID CAMERA CABLE (HCC)									1	1	1
CONDUIT SIZE (INCHES)	2-3"	3	3	2 1/2	3	3	3	2 1/2	2 1/2	2	2
NEW/EXISTING CONDUIT (N/E)	E	E	E	E	E	E	E	E	E	E	E
% FILL	27	30	19	23	27	22	19	26	23	17	14

+ = ADD NEW CONDUCTORS/CABLES.  
 \* = REMOVE Exist CONDUCTORS/CABLES. ADD NEW CONDUCTORS/CABLES.

POLE AND EQUIPMENT SCHEDULE													
No.	STANDARD			Veh Sig Mtg			Ped Sig		APS		LED Lum	REMARKS	
	TYPE	SMA	LMA	Ø	MAST ARM	Ø	POLE	Ø	Mtg	Ø			ARROW
(A)	Exist 24-4-113	35'	12'	3	MAS-4B	3	SV-1-T	3 <sup>+</sup>	SP-1-T <sup>+</sup>	6 <sup>+</sup>	←	139 W	
(B)	Exist 1-B					5 6	TV-2-T	6 <sup>+</sup>	SP-1-T <sup>+</sup>	3 <sup>+</sup>	→		
(C)	Exist 26-4-113	45'	12'	5 2	MAS MAS	2+ OLA	SV-1-T	2 <sup>+</sup>	SP-1-T <sup>+</sup>	3 <sup>+</sup>	←	139 W	
(D)	Exist 1-B					3 4	TV-2-T	3 <sup>+</sup>	SP-1-T <sup>+</sup>	2 <sup>+</sup>	→		
(E)	Exist 26-4-113	45'	15'	4 4	MAS-4B MAS	4+ OLB	SV-1-T					139 W	ALL EXISTING EQUIPMENT TO REMAIN.
(F)	Exist PBA POST									2 <sup>+</sup>	←		
(G)	Exist 1-B					1 2+ OLA	TV-2-T	2 <sup>+</sup>	SP-1-T <sup>+</sup>				
(H)	Exist 24-4-113	35'	12'	1 6	MAS MAS	2 6	SV-2-TA	6 <sup>+</sup>	SP-1-T <sup>+</sup>			139 W	SEE LEGEND 91.
(I)	Exist 1-B					3 4+ OLB	TV-2-T						ALL EXISTING EQUIPMENT TO REMAIN.
(J)	PBA POST									6	→		

+ INSTALL NEW EQUIPMENT TO Exist SIGNAL STANDARD

**SIGNAL AND LIGHTING (CITY STREET LOCATION 1)**  
 SCALE: 1" = 20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 CONSULTANT FUNCTIONAL SUPERVISOR  
 MING YANG  
 REVISED BY  
 MY  
 07-15-22  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 DAN K. YAU



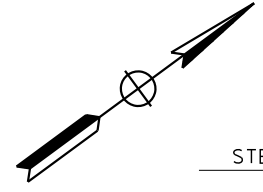
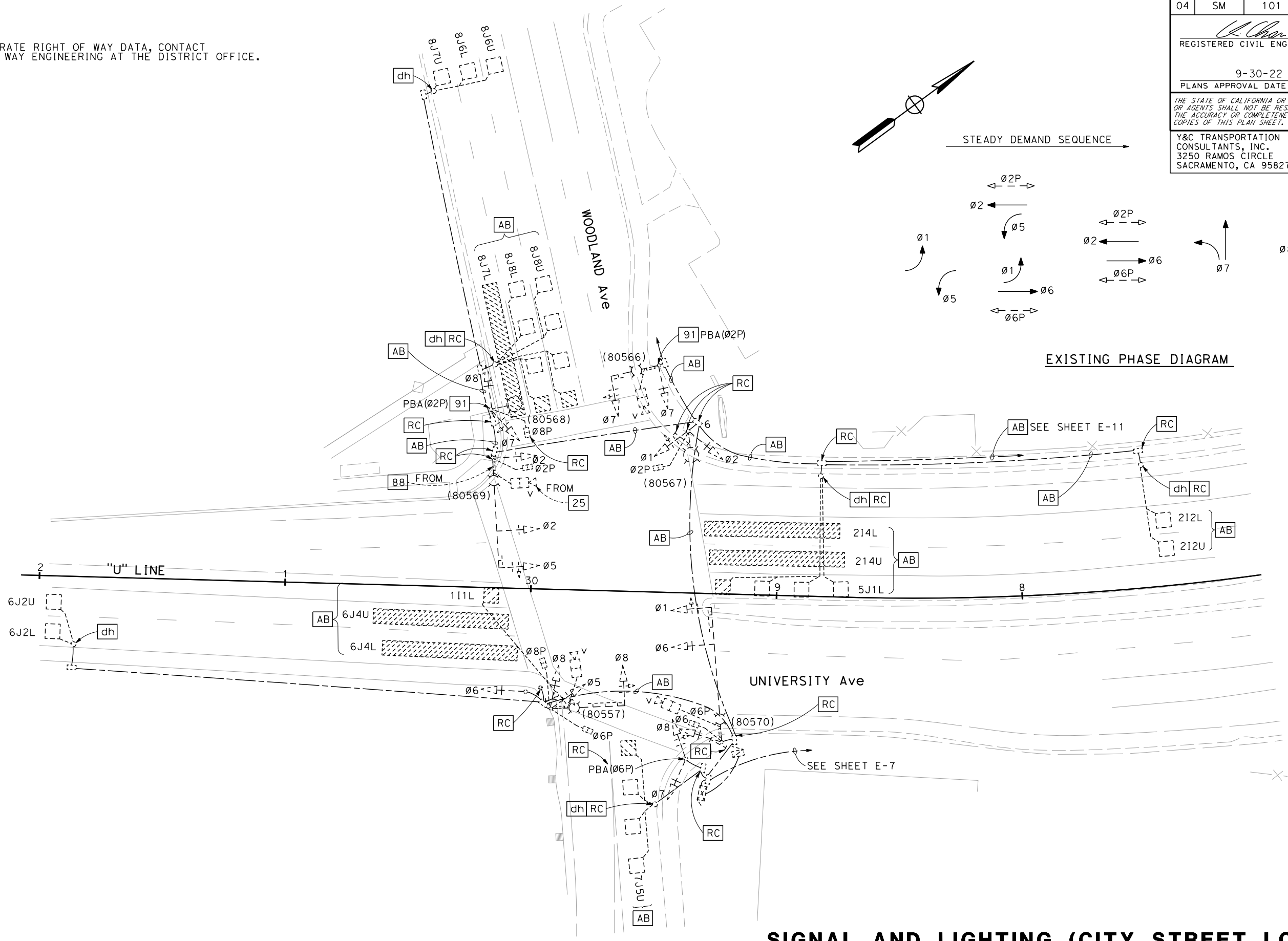
LAST REVISION: DATE PLOTTED => 7/6/2022      TIME PLOTTED => 3:56:59 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	101	136

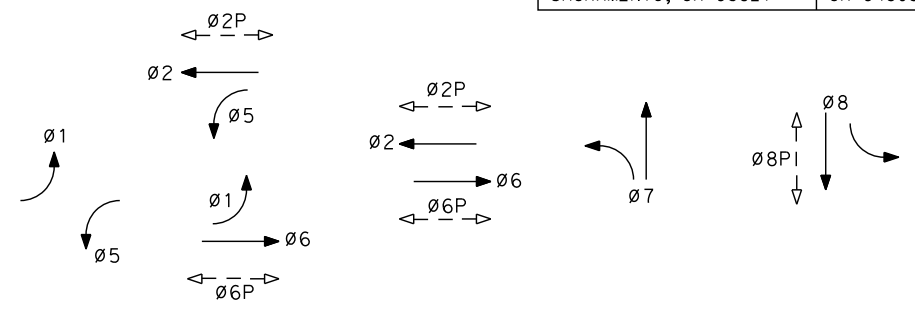
  

REGISTERED CIVIL ENGINEER	DATE	7-15-22
PLANS APPROVAL DATE	9-30-22	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		
Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303	

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



STEADY DEMAND SEQUENCE →



**SIGNAL AND LIGHTING (CITY STREET LOCATION 2)**

**(EXISTING)**

SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

**E-16**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
	DAN K. YAU	CHECKED BY	MENG YANG	07-15-22
			KIN Y. CHAN	

USERNAME => myang  
DGN FILE => E-16 SIG EX-2

RELATIVE BORDER SCALE IS IN INCHES

UNIT 0703

PROJECT NUMBER & PHASE

04000007591

LAST REVISION DATE PLOTTED => 7/6/2022  
07-15-22 TIME PLOTTED => 3:53:11 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	102	136

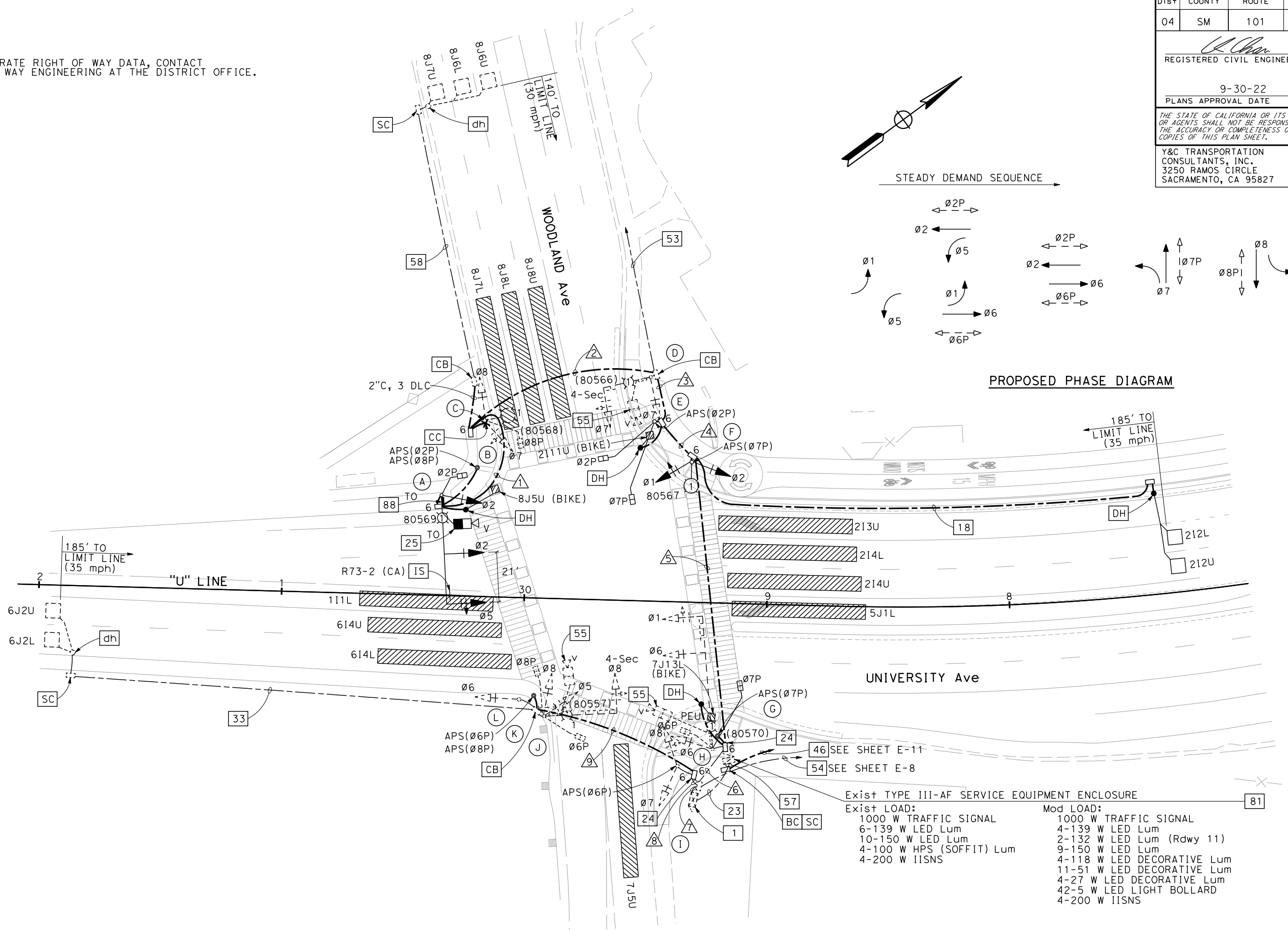
<i>Kin Y. Chan</i>	7-15-22
REGISTERED CIVIL ENGINEER	DATE
9-30-22	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
**KIN Y. CHAN**  
 No. 55391  
 Exp. 12-31-22  
 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.

Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
---	--

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



**SIGNAL AND LIGHTING (CITY STREET LOCATION 2)**  
SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY


**E-17**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
<b>Caltrans</b>	DAN K. YAU	MENG YANG	MY	07-15-22
		KIN Y. CHAN	REVISOR	DATE
			REVISOR	DATE

LAST REVISION DATE PLOTTED => 7/6/2022 3:53:14 PM

SCHEDULES: (FOR SHEET E-17)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	103	136

 7-15-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

KIN Y. CHAN  
 No. 55391  
 Exp. 12-31-22  
 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.

Y&C TRANSPORTATION CONSULTANTS, INC.  
 3250 RAMOS CIRCLE  
 SACRAMENTO, CA 95827

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

CONDUCTOR AND CONDUIT SCHEDULE												
CONDUCTOR SCHEDULE	No. OF CONDUCTORS											
	CONDUIT RUN NUMBER											
	1	2	3	4	5	6	7	8	9	10	11	12
No. 14 CONDUCTORS												
Ø1						3	3	3				
Ø2	3	3	3	3	3	3	3	3				
Ø5	3	3	3	3	3	3	6	3	3			
Ø6							3	6	3	3		
Ø7		3	4	4	4	4	4	7	3			
Ø8		3	3	3	3	3	7	4	4			
Ø2P	2	2	2	2	2	2	2					
Ø6P							2	4	2	2		
Ø7P							2	2	2	2		
Ø8P		2	2	2	2	2	4	2	2			
APS(Ø2P)	2	2	2	2	2	2	2					
APS(Ø6P)								2	2	2		
APS(Ø7P)							2	2	2			
APS(Ø8P)	2	2	2	2	2	2	4	2	2			
PEU							3	3				
SPARES	3	3	3	3	3	3	6	3	3			
TOTAL No. 14	15	23	24	26	31	39	63	24	21			
No. 10 CONDUCTORS												
IISNS	2	2	2	2	2	2	2	2	2			
VIDEO DETECTION POWER	2	2	2	2	2	2	2	2	2			
TOTAL No. 10	4	4	4	4	4	4	4	4	4			
No. 8 CONDUCTORS												
LIGHTING	2	2	2	2	2	2	2	2	2			
SIGNAL NEUTRAL	1	1	1	1	1	1	2	1	1			
TOTAL No. 8	3	3	3	3	3	3	4	3	3			
DETECTOR CABLES (DLC)												
2I11U (BIKE)					1	1	1	1				
2I2U/2I2L						2	2	2				
6J2U/6J2L									2	2	2	
7J13L (BIKE)							1	1				
8J5U (BIKE)	1	1	1	1	1	1	1					
8J6U/8J6L		2	2	2	2	2						
8J7U		1	1	1	1	1	1					
TOTAL DETECTOR CABLES	1	4	4	5	7	8	10	2	2			
VIDEO DETECTION COAX CABLE												
SIGNAL INTERCONNECT CABLE	1	1	2	2	2	3	4	1	1			
APS CABLE	1											
CONDUIT SIZE (INCHES)												
NEW/EXISTING CONDUIT (N/E)	N	N	N	N	N	E	E	E	N			
% FILL	13	17	22	24	14	33	23	16	15			

NOTE: REMOVE ALL Exist CONDUCTORS/CABLES.  
 ADD ALL NEW CONDUCTORS/CABLES, UNLESS OTHERWISE NOTED.

# = Exist CABLE TO REMAIN

POLE AND EQUIPMENT SCHEDULE												
No.	STANDARD			Veh Sig Mtg			Ped Sig		APS		LED Lum	REMARKS
	TYPE	SMA	LMA	Ø	MAST ARM	Ø	POLE	Ø	Mtg	Ø		
(A)	26-4-100	45'	15'	5	MAS	2	SV-1-T	2	SP-1-T			Rdwy 11 SEE LEGEND [25] AND [88]. [IS] R73-2(CA).
(B)	PBA POST					2				2	←	
(C)	Exist 15					7	SV-2-TA	8	SP-1-T			139 W SEE LEGEND [91].
(D)	Exist 17-3-129	20'	15'	7	MAS-4B	7	SV-1-T					139 W SEE LEGEND [55] AND [91].
(E)	1-B (7')							2	TP-2-T	2	→	
(F)	15TS		15'			1	SV-2-TA			7	→	Rdwy 11
(G)	PBA POST									7	→	
(H)	Exist 29-5-29	55'	15'	1	MAS	6	SV-1-T	6	SP-2-T <sup>+</sup>			139 W SEE LEGEND [55].
(I)	Exist 1-B					7	TV-2-T			6 <sup>+</sup>	→	
(J)	Exist 19-3-129	30'	15'	8	MAS-4B	5	SV-2-TA	6	SP-2-T	8		139 W SEE LEGEND [55].
(K)	PBA POST									6	←	
(L)	Exist 1-B					6	TV-1-T			8	→	ALL EXISTING EQUIPMENT TO REMAIN.

+ INSTALL NEW EQUIPMENT TO Exist SIGNAL STANDARD

**SIGNAL AND LIGHTING (CITY STREET LOCATION 2)**  
 SCALE: 1" = 20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 Meng Yang  
 KIN Y. CHAN  
 DAN K. YAU

LAST REVISION: DATE PLOTTED => 7/6/2022  
 07-15-22 TIME PLOTTED => 3:54:10 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 CONSULTANT FUNCTIONAL SUPERVISOR: DAN K. YAU  
 CALCULATED/DESIGNED BY: MENG YANG  
 CHECKED BY: KIN Y. CHAN  
 REVISED BY: MY  
 DATE REVISED: 07-15-22

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

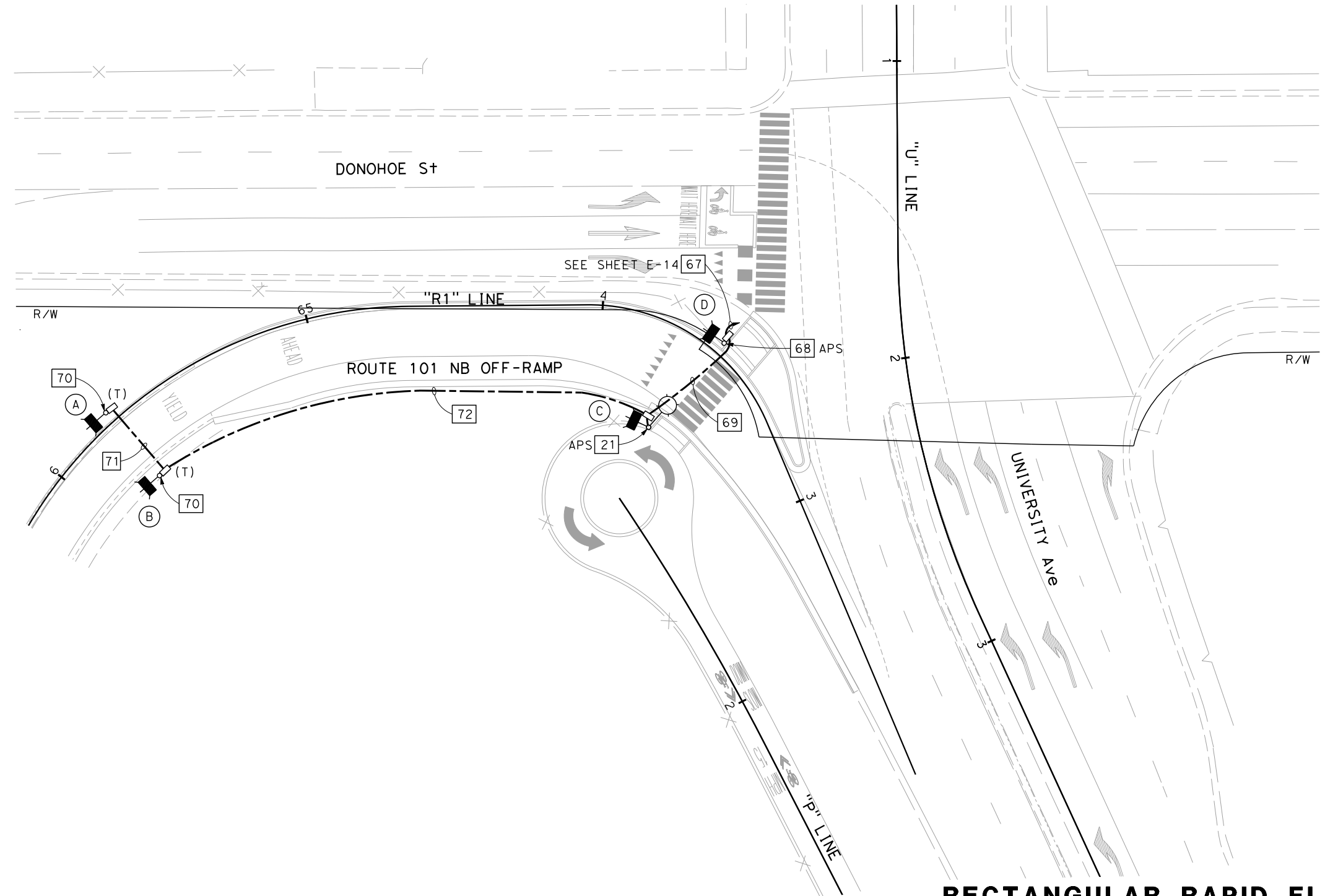
EQUIPMENT SCHEDULE			
No.	STANDARD TYPE	APS ARROW	REMARKS
(A)	15-FBS		SEE DETAIL C ON SHEET ED-4
(B)	15-FBS		SEE DETAIL C ON SHEET ED-4
(C)	15TS	→	SEE DETAIL A ON SHEET ED-4
(D)	15-FBS (FIXED BASE)	←	SEE DETAIL B ON SHEET ED-4

EXACT POLE LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	104	136

REGISTERED CIVIL ENGINEER: *Kin Y. Chan* 7-15-22  
 DATE: 7-15-22  
 PLANS APPROVAL DATE: 9-30-22  
 KIN Y. CHAN No. 55391 Exp. 12-31-22 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.  
 Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827  
 CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303



**RECTANGULAR RAPID FLASHING BEACON SYSTEM (CITY)**  
 SCALE: 1" = 20'

FOR NOTES, ABBREVIATIONS AND LEGEND,  
 SEE SHEETS E-1 TO E-3

APPROVED FOR ELECTRICAL WORK ONLY

LAST REVISION: DATE PLOTTED => 7/6/2022 TIME PLOTTED => 3:54:18 PM



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	105	136

<i>Kin Y. Chan</i>	7-15-22
REGISTERED CIVIL ENGINEER	DATE
9-30-22	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER  
 KIN Y. CHAN  
 No. 55391  
 Exp. 12-31-22  
 CIVIL  
 STATE OF CALIFORNIA

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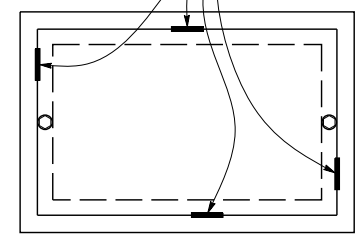
Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827	CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303
--	---

**NOTES:**

1. WELDING MUST COMPLY WITH STANDARD SPECIFICATION SECTION 75.
2. CONDUITS ENTERING THE PULL BOX MUST BE ENCASED IN PCC (3" ALL AROUND), PCC ENCASEMENT MUST EXTEND 5'-6" FROM THE PULL BOX.
3. FOR ADDITIONAL NOTES AND DETAILS, SEE STANDARD PLANS RSP ES-8B.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	MENG YANG	REVISOR BY	MY
<b>Caltrans</b>	DAN K. YAU	CHECKED BY	KIN Y. CHAN	DATE REVISED	07-15-22

WELD PLATE COVER TO Z-BAR FRAME WITH A MINIMUM 3" WELD, SEE NOTE 1.



TOP VIEW

TRAFFIC PULL BOX WELDING DETAIL

**ELECTRICAL SYSTEMS DETAILS**

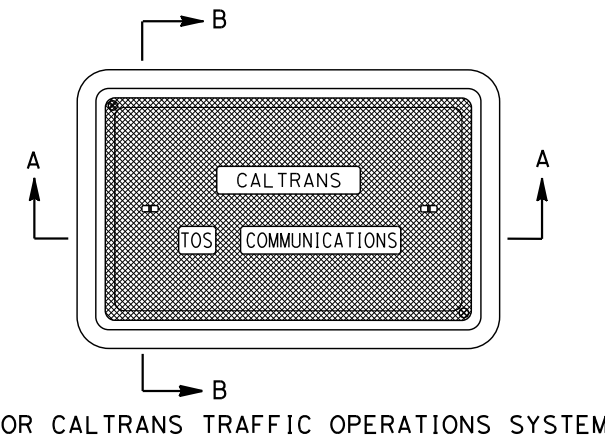
NO SCALE

**ED-1**

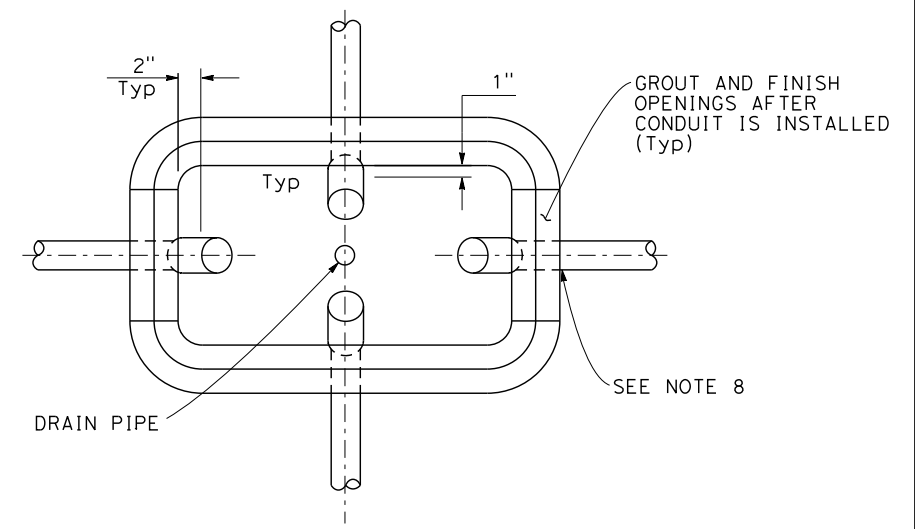
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	106	136
			7-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	PLANS APPROVAL DATE	
Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

**NOTES:**

1. PORTLAND CEMENT CONCRETE FLOOR OVER CLEAN CRUSHED ROCK SUMP. BOTTOM OF PULL BOX MUST BE SLOPED TOWARD THE DRAIN PIPE AND SHALL HAVE A SMOOTH FINISH.
2. CONCRETE MUST CONTAIN A MINIMUM OF 550 lb OF PORTLAND CEMENT PER CUBIC YARD.
3. PULL BOX MUST BE PRECAST OF STEEL REINFORCED PORTLAND CEMENT CONCRETE. PULL BOX COVER MUST BE POLYMER CONCRETE. PULL BOX AND COVER MUST SUPPORT MINIMUM TEST LOAD OF 25,000 lb IF BOX IS LOCATED IN TRAVEL WAY, PULL BOX AND COVER MUST CONFORM WITH VERTICAL PROOF LOAD STRENGTH REQUIREMENT, UNDER SECTION 86-1.02(C)3.
4. SEE STANDARD PLAN RSP ES-8A FOR PULL BOX COVER CAPTIVE BOLT AND PULL BOX THREADED INSERT DETAILS.
5. MARK "CALTRANS TOS COMMUNICATIONS" ON THE TOP FACE OF ALL COVERS FOR CALTRANS FIBER OPTIC CABLE SYSTEMS.
6. MINIMUM PULL BOX DEPTH WITH EXTENSION MUST BE 20".
7. CONDUITS MUST ENTER THROUGH KNOCKOUTS. IF MORE THAN 3 CONDUITS ARE REQUIRED IN SAME KNOCKOUT, KNOCKOUT MUST BE WIDENED TO 3/8" MORE THAN THE CONDUIT COMBINATION.
8. CONDUIT FROM THE TYPICAL BORE OR TRENCH SECTION MUST NOT DEFLECT BY MORE THAN 1' PER 10' FROM THE ALIGNMENT PRECEDING OR FOLLOWING THE PULL BOX.
9. BOTTOM OF CONDUIT CENTERLINE MUST BE ALIGNED TO EXIT TOP OF PULL BOX TO FACILITATE CABLE PULLING. IF EXISTING CONDUIT USED, MODIFY CONDUIT (IF NEEDED) AS SHOWN. IF NEW CONDUIT IS USED, INSTALL CONDUIT ELBOW AS SHOWN.
10. PROVIDE PERMANENT MARKERS FOR CONDUIT AND PULL BOXES CONTAINING FIBER OPTIC CABLE.

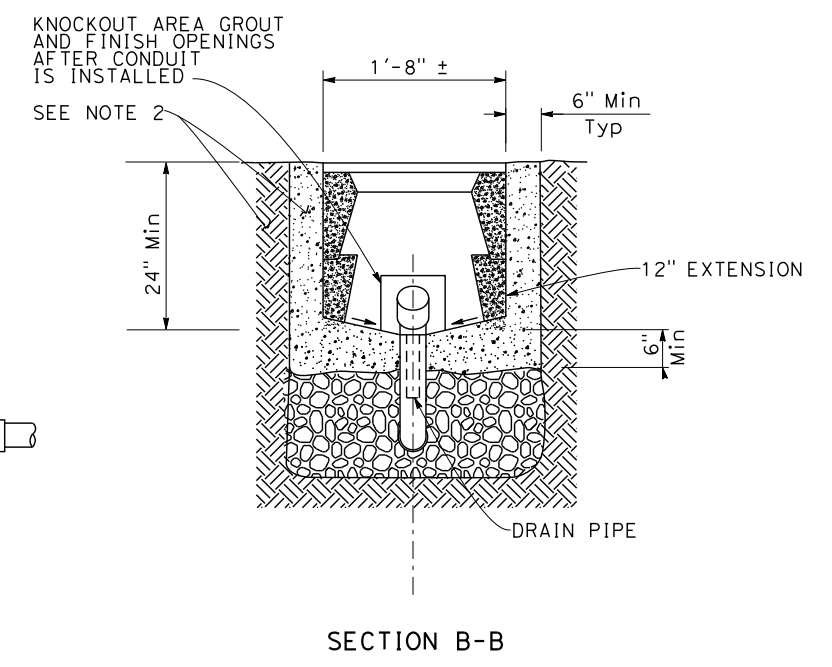
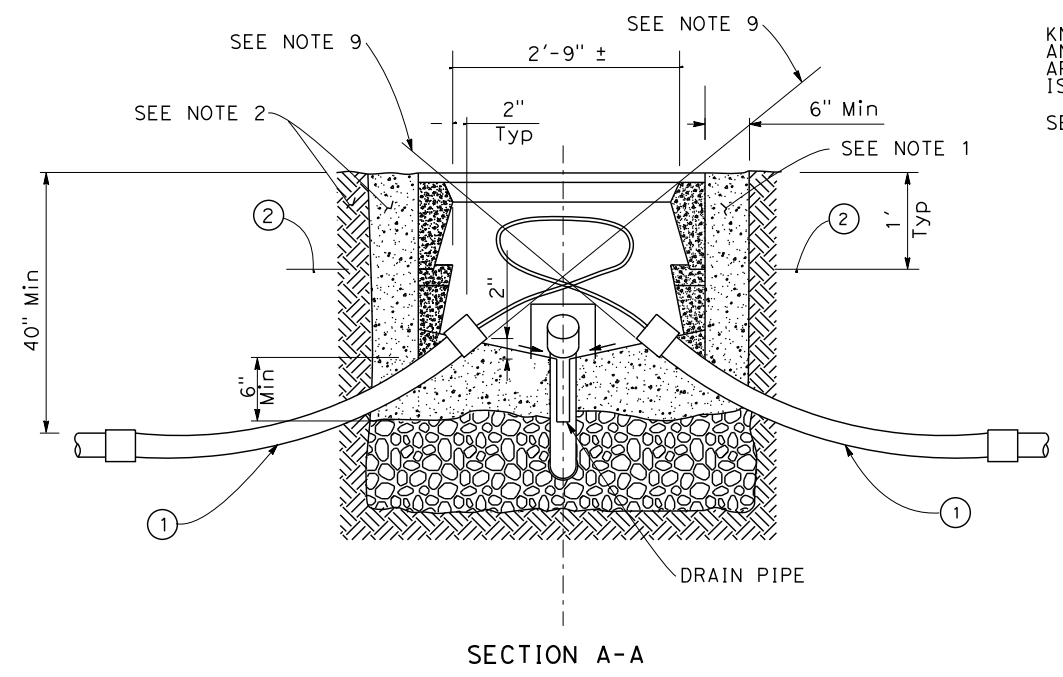


**PLAN VIEW**  
SEE STANDARD PLAN RSP ES-8A COVER TOP VIEW FOR OTHER DETAILS



**LEGEND: (THIS SHEET ONLY)**

- ① 45 DEGREE ELBOW, 3' RADIUS MINIMUM. ELBOW AND COUPLING MAY NOT BE NECESSARY FOR NEW CONDUIT INSTALLED BY DIRECTIONAL BORING. NEW CONDUIT INSTALLED BY DIRECTIONAL BORING MUST ENTER THE PULL BOX WITH BENDING RADIUS OF 3' MINIMUM.
- ② WARNING TAPE (FOR NEW CONDUIT IF INSTALLED BY TRENCHING).



**(FIBER OPTIC PULL BOX)**

**ELECTRICAL SYSTEMS DETAILS**

NO SCALE

**ED-2**

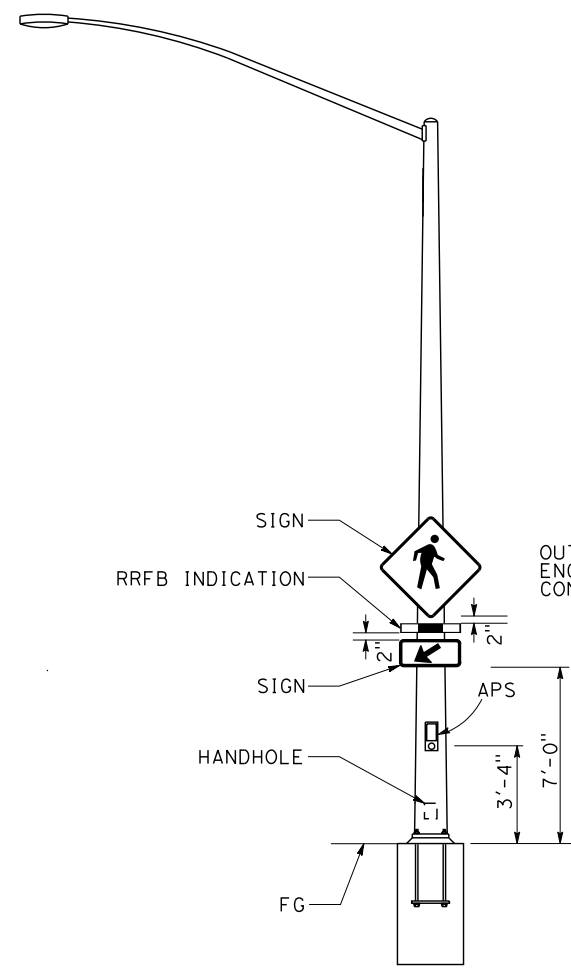
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	REVISOR	DATE
	DAN K. YAU	MY	07-15-22
	CHECKED BY	REVISOR	DATE
		MENG YANG	07-15-22
	DESIGNED BY		
		KIN Y. CHAN	

LAST REVISION: DATE PLOTTED => 7/6/2022 TIME PLOTTED => 3:54:52 PM

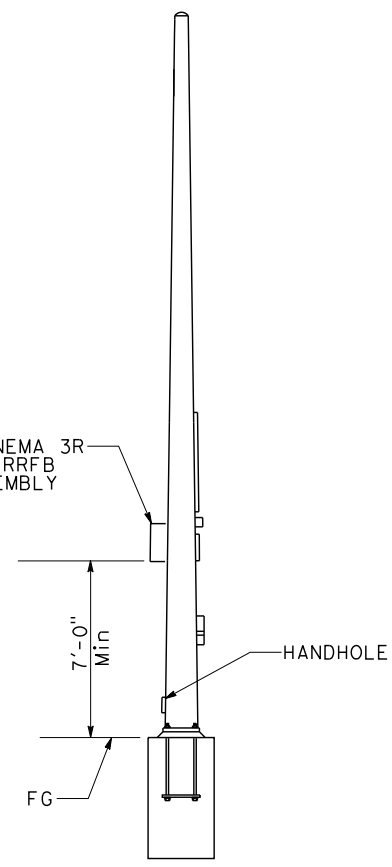


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	108	136
			7-15-22	REGISTERED CIVIL ENGINEER DATE	
			9-30-22	PLANS APPROVAL DATE	
Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827			CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
EST <b>Caltrans</b>	DAN K. YAU	DESIGNED BY	MY	07-15-22
		CHECKED BY	MENG YANG	
			KIN Y. CHAN	

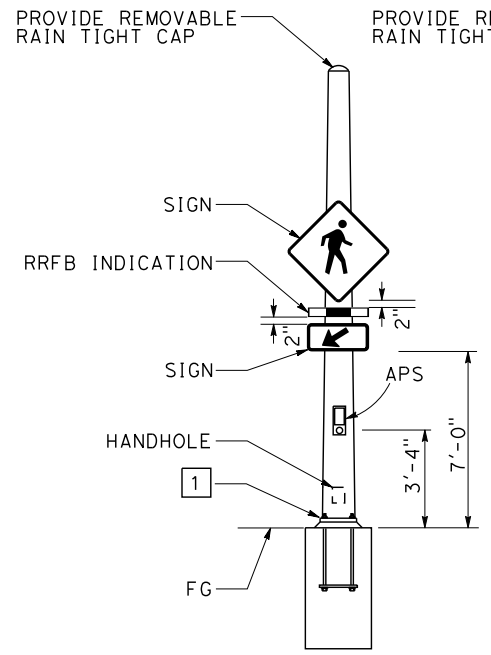


FRONT VIEW

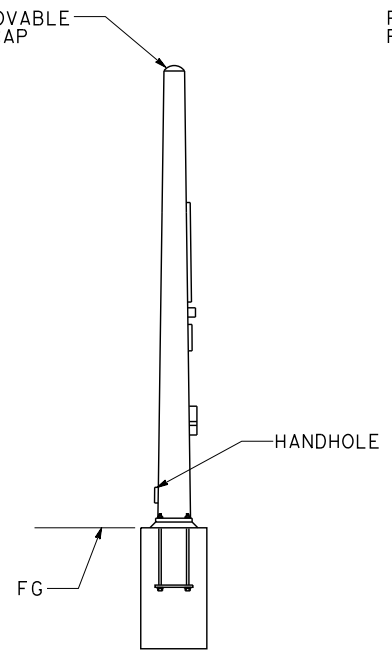


SIDE VIEW

RRFB WITH APS TYPE 15TS STANDARD  
DETAIL A

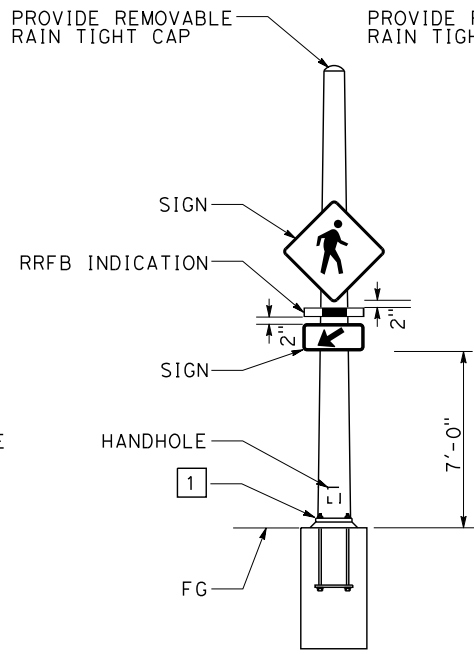


FRONT VIEW

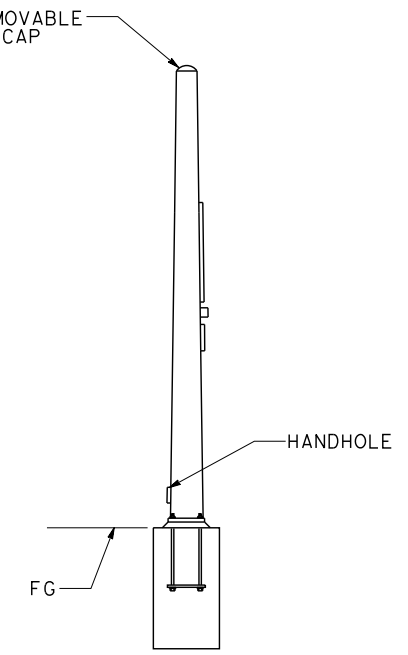


SIDE VIEW

RRFB WITH APS TYPE 15-FBS STANDARD WITH FIXED BASE  
DETAIL B



FRONT VIEW



SIDE VIEW

RRFB TYPE 15-FBS STANDARD  
DETAIL C

- NOTES:
1. SEE SIGNING PLANS FOR SIGNS.
  2. FOR ADDITIONAL NOTES, DETAILS AND DATA FOR TYPE 15-FBS STANDARDS, SEE RSP ES-7J.

- LEGEND: (THIS SHEET ONLY)
- 1 FOR TYPE 15-FBS FIXED BASE, SEE NOTE 2 OF TYPE 30 FIXED BASE ON ES-6E.

**ELECTRICAL SYSTEMS DETAILS**

NO SCALE

**(RRFB DETAILS)**

**ED-4**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	109	136

REGISTERED CIVIL ENGINEER: *Kin Y. Chan* DATE: 7-15-22  
 PLANS APPROVAL DATE: 9-30-22  
 KIN Y. CHAN No. 55391 Exp. 12-31-22 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.  
 Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827  
 CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303

**NOTE:**

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

**MODIFYING LIGHTING SYSTEMS**

SHEET No.	(N)									
	EA					LF				
E-4	4	1	2	1	1	150	645	1260	1590	
	No. 5(T) PB	No. 6(T) PB	Rdwy 12 LED Lum	TYPE 30 POLE WITH 15' LMA AND Fdn	TYPE 31 POLE WITH 20' LMA AND Fdn	1/2" TYPE 3 CONDUIT	2" TYPE 3 CONDUIT	#14 AWG	#6 AWG	

(N) - NOT A SEPARATE BID ITEM

**MODIFYING SIGNAL AND LIGHTING SYSTEMS**

SHEET No.	LOCATION	(N)																			
		EA										LF									
E-8	3	6	6	46	13	3	1	1	1	9	1	9	2	2	530	350	3050	300	950	500	4150
	No. 5 PB	No. 6 PB	LOOP DETECTOR, TYPE A	LOOP DETECTOR, TYPE D	Rdwy 11 LED Lum	TYPE 29-5-100 POLE WITH 55' SMA, 15' LMA & Fdn	TYPE 29-5-100 POLE WITH 50' SMA, 15' LMA & Fdn	TYPE 19-4-100 POLE WITH 25' SMA, 15' LMA & Fdn	SIGNAL 3-12" (HOUSING, BACKPLATE, LED)	SIGNAL 4-12" (HOUSING, BACKPLATE, LED)	DETECTOR HANDHOLE	SV-1-T Mtg	SV-2-TB Mtg	2" TYPE 3 CONDUIT	3" TYPE 3 CONDUIT	#14 AWG	#8 AWG	#6 AWG	SIC	DLC	

(N) - NOT A SEPARATE BID ITEM

**MODIFYING FIBER OPTIC CABLE SYSTEMS**

SHEET No.	(N)			
	EA	LF		
E-5	1	3260	865	815
E-6	1	1520	525	380
E-10			525	
	FO PB	1/2" TYPE 3 CONDUIT	12-STRAND SMFO CABLE	#8 AWG

(N) - NOT A SEPARATE BID ITEM

**LIGHTING (CITY STREET)**

SHEET No.	(N)									
	EA					LF				
E-10	10	2		8	1				900	1800
E-11	9			3	3				1200	2400
E-12			6			42	550	600		1800
	No. 5 PB	No. 6 PB	NEMA 4 JUNCTION BOX	PEDESTRIAN LIGHT WITH Std & Fdn	STREET/PEDESTRIAN LIGHT WITH Std & Fdn	LIGHT BOLLARD	1/2" TYPE 1 CONDUIT	2" TYPE 1 CONDUIT	2" TYPE 3 CONDUIT	#4 AWG

(N) - NOT A SEPARATE BID ITEM

**ELECTRICAL SYSTEMS QUANTITIES**

**NOTE:**

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	101	0.8/1.1	110	136

REGISTERED CIVIL ENGINEER: *Kin Y. Chan* DATE: 7-15-22  
 PLANS APPROVAL DATE: 9-30-22  
 KIN Y. CHAN No. 55391 Exp. 12-31-22 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.  
 Y&C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SACRAMENTO, CA 95827  
 CITY OF EAST PALO ALTO 1960 TATE STREET EAST PALO ALTO, CA 94303

**SIGNAL AND LIGHTING (CITY STREET LOCATION 1)**

SHEET No.	(N)											
	TYPE A LOOP DETECTOR	TYPE D LOOP DETECTOR	DETECTOR HANDHOLE	No. 6 PB	PBA POST AND Fdn	APS	PEDESTRIAN SIGNAL HEAD	3" TYPE 3 CONDUIT	#8 AWG	APS CABLE	SIC	DLC
E-14	29	11	8	2	1	6	6	160	190	245	115	160

(N) - NOT A SEPARATE BID ITEM

**SIGNAL AND LIGHTING (CITY STREET LOCATION 2)**

SHEET No.	(N)																						
	26-4-100 Std AND Fdn	TYPE 15 Std AND Fdn	TYPE 1 Std AND Fdn	PBA POST AND Fdn	TYPE A LOOP DETECTOR	TYPE D LOOP BIKE DETECTOR	Rdwy 11 LED Lum	3-SECTION 12" SIGNAL HEADS	MAS Mtg	SV-2-TA Mtg	SV-1-T Mtg	SP-2-T Mtg	SP-1-T Mtg	TP-2-T Mtg	DETECTOR HANDHOLE	No. 5 PB	No. 6 PB	2" TYPE 3 CONDUIT	3" TYPE 3 CONDUIT	#8 AWG	#10 AWG	#14 AWG	DLC
E-17	1	1	1	3	2	3	1	5	2	1	1	1	3	1	4	1	7	250	550	1350	1800	11050	3000

(N) - NOT A SEPARATE BID ITEM

**RECTANGULAR RAPID FLASHING BEACON SYSTEM (CITY)**

SHEET No.	(N)											
	RRFB CONTROLLER ASSEMBLY	TYPE 15 Std AND Fdn	TYPE 15-FBS Std AND Fdn	Rdwy 11 LED Lum	RRFB LIGHT BAR	APS	No. 5 PB	No. 5(T) PB	1 1/2" TYPE 3 CONDUIT	#8 AWG	RRFB APS CABLE	RRFB LIGHT BAR CABLE
E-19	1	1	3	1	4	2	2	2	260	160	50	200

(N) - NOT A SEPARATE BID ITEM

**ELECTRICAL SYSTEMS QUANTITIES**

**EQ-2**

LAST REVISION: DATE PLOTTED => 7/6/2022 07-15-22 TIME PLOTTED => 3:55:13 PM

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	111	136

*Jan M. Hueser* 08-09-22  
 REGISTERED CIVIL ENGINEER DATE

9-30-22  
 PLANS APPROVAL DATE

*Jan Hueser*  
 No. C050215  
 Exp. 6-30-23  
 CIVIL  
 STATE OF CALIFORNIA

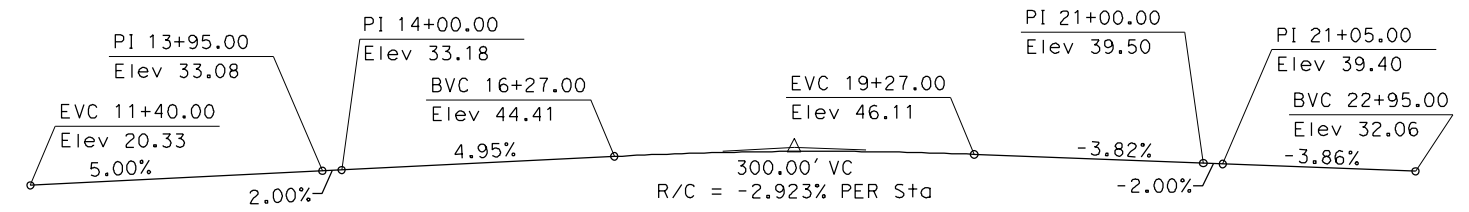
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CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

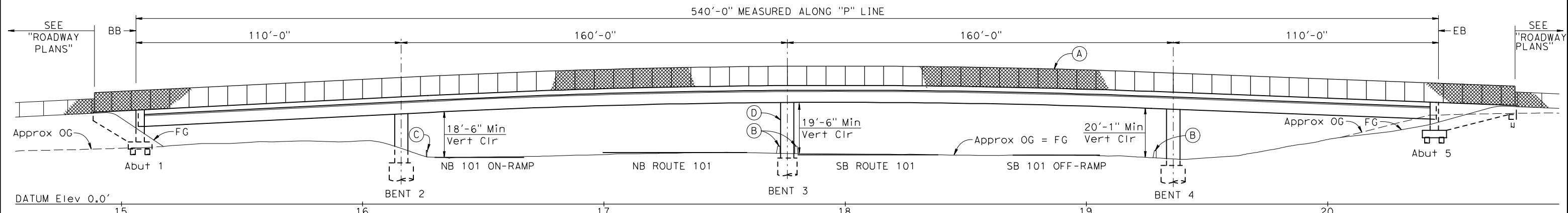
AECOM  
 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811

- NOTES:**
- (A) Chain Link Railing (Type 7 modified Vinyl-Clad)
  - (B) Concrete Barrier, see "Roadway Plans"
  - (C) MGS, see "Roadway Plans"
  - (D) Paint "Bridge No. 33-0359", "Bridge Name", and "Year Completed"
1. For "INDEX TO PLANS", "TYPICAL SECTION", and "STANDARD PLANS", see "GENERAL PLAN No. 2" sheet.

- LEGEND:**
- Indicates existing structure
  - Indicates direction of traffic
  - Point of minimum vertical clearance



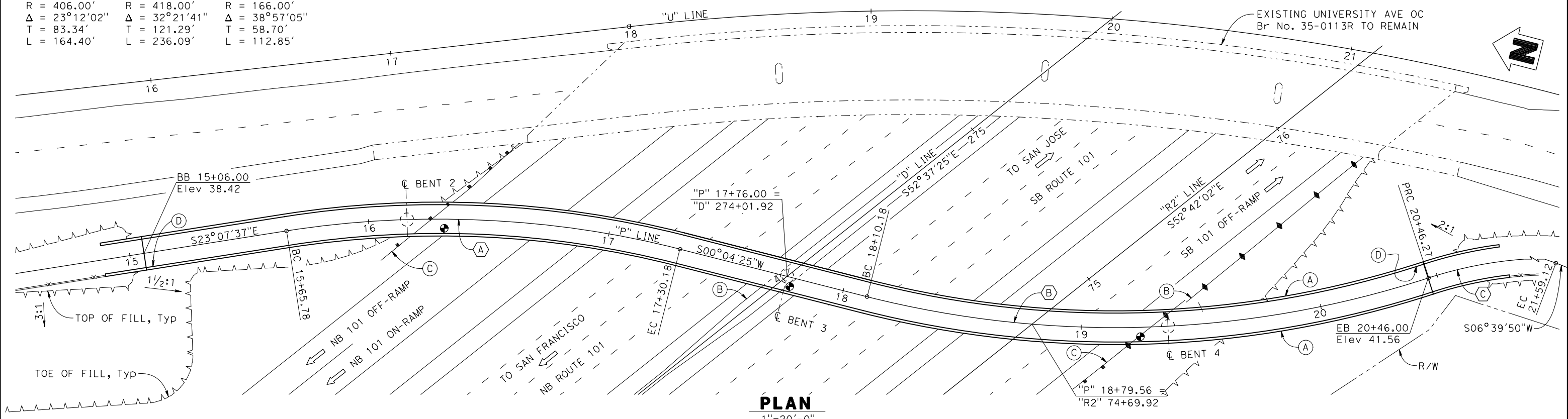
**PROFILE GRADE - "P" LINE**  
 NO SCALE



**DEVELOPED ELEVATION**  
 1"=20'-0"

**CURVE DATA**

(A) "P" LINE	(B) "P" LINE	(C) "P" LINE
R = 406.00'	R = 418.00'	R = 166.00'
Δ = 23°12'02"	Δ = 32°21'41"	Δ = 38°57'05"
T = 83.34'	T = 121.29'	T = 58.70'
L = 164.40'	L = 236.09'	L = 112.85'



**PLAN**  
 1"=20'-0"

*Norbert Gee*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: H10 AND PEDESTRIAN DESIGN LOAD
DETAILS	BY H. Sullivan	CHECKED K. Lee	LAYOUT	BY J. Hueser
QUANTITIES	BY J. Hueser	CHECKED S. Kwong	SPECIFICATIONS	BY D. Harnagel
			PLANS AND SPECS COMPARED	J. Hueser

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

Syed Kazmi  
 PROJECT ENGINEER

BRIDGE NO. 35-0359  
 POST MILES 0.9

**UNIVERSITY AVENUE POC GENERAL PLAN No. 1**

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 0743  
 PROJECT NUMBER & PHASE: 04000007591  
 CONTRACT No.: 04-272824

REVISION DATES	SHEET	OF
08-09-22 11-9-20 10-29-21 03-04-22	1	26

DATE PLOTTED => \$TIME USERNAME => \$USER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	112	136

*Jan M. Hueser*  
REGISTERED CIVIL ENGINEER  
DATE 08-09-22  
9-30-22  
PLANS APPROVAL DATE

Jan Hueser  
No. C050215  
Exp. 6-30-23  
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.*

CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303

AECOM  
2020 L STREET, SUITE 400  
SACRAMENTO, CA 95811

**GENERAL NOTES**

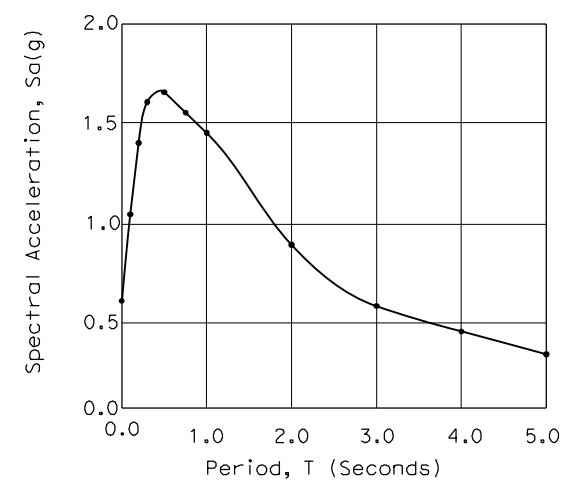
**LOAD AND RESISTANCE FACTOR DESIGN**

DESIGN: AASHTO LRFD Bridge Design Specifications, 6TH Edition and the Caltrans Amendments preface dated January 2014.

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.7, April 2013

LIVE LOADING: 90 psf uniform pedestrian load and H 10 maintenance vehicle

SEISMIC LOADING: Site Specific ARS Curve



**SITE SPECIFIC ARS CURVE**

Peak Ground Acceleration = 0.63 g  
Moment Magnitude,  $M_{max}$  = 7.19  
5% Damping  
Shear Wave Velocity  $V_{s50}$  = 689 ft/s

REINFORCED CONCRETE:  $f_y$  = 60 ksi  
 $f'_c$  = 3.6 ksi, unless noted otherwise  
 $n$  = 8

PRESTRESSED CONCRETE: See "Prestressing Notes" on "GIRDER LAYOUT No. 1" sheet

**INDEX TO PLANS**

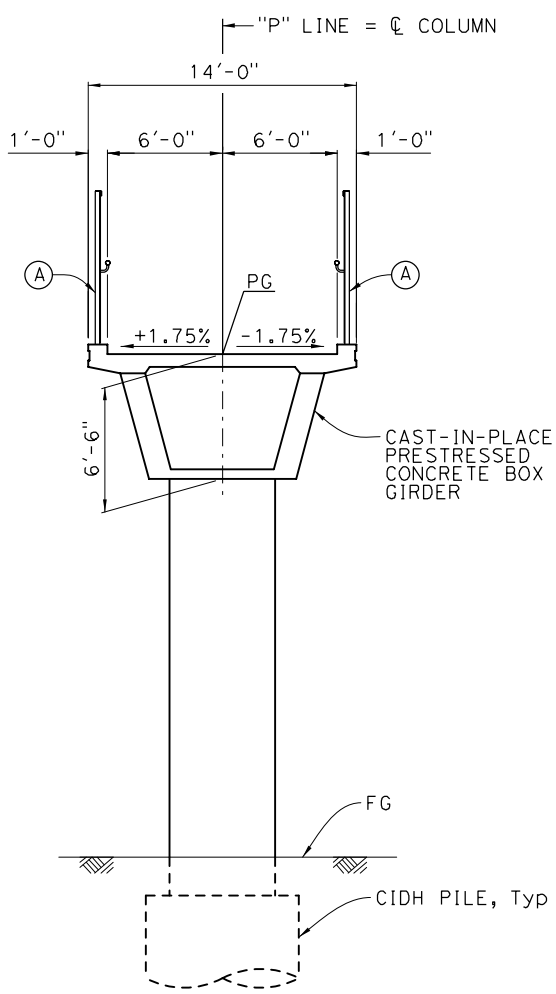
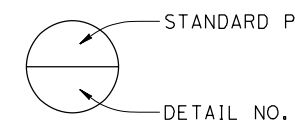
SHEET NO.	TITLE
1	GENERAL PLAN No. 1
2	GENERAL PLAN No. 2
3	DECK CONTOURS
4	FOUNDATION PLAN
5	ABUTMENT 1 AND 5 LAYOUT
6	ABUTMENT DETAILS No. 1
7	ABUTMENT DETAILS No. 2
8	ABUTMENT DRAINAGE DETAILS
9	BENT 2 AND 4 LAYOUT
10	BENT 3 LAYOUT
11	BENT 2 AND 4 DETAILS
12	BENT 3 DETAILS
13	TYPICAL SECTION
14	GIRDER LAYOUT No. 1
15	GIRDER LAYOUT No. 2
16	GIRDER DETAILS No. 1
17	GIRDER REINFORCEMENT
18	BRIDGE LIGHTING PLAN
19	STRIP JOINT SEAL ASSEMBLY MAXIMUM MOVEMENT RATING = 4"
20	JOINT ARMOR FOR PEDESTRIAN WALKWAYS
21	CHAIN LINK RAILING (TYPE 7 MODIFIED VINYL-CLAD) DETAILS No. 1
22	CHAIN LINK RAILING (TYPE 7 MODIFIED VINYL-CLAD) DETAILS No. 2
23	LOG OF TEST BORINGS 1 OF 4
24	LOG OF TEST BORINGS 2 OF 4
25	LOG OF TEST BORINGS 3 OF 4
26	LOG OF TEST BORINGS 4 OF 4

**LEGEND:**

- Structural Concrete, Bridge (Polymer Fiber) ( $f'_c$  = 5.0 ksi @ 28 days)
- Structural Concrete, Bridge ( $f'_c$  = 5.0 ksi @ 28 days)
- Structural Concrete, Bridge, see "GIRDER LAYOUT" sheet
- Structural Concrete No. 1, Bridge Footing
- Cast-In-Drilled-Hole Concrete Pile ( $f'_c$  = 4.0 ksi @ 28 days)

**STANDARD PLANS DATED 2018**

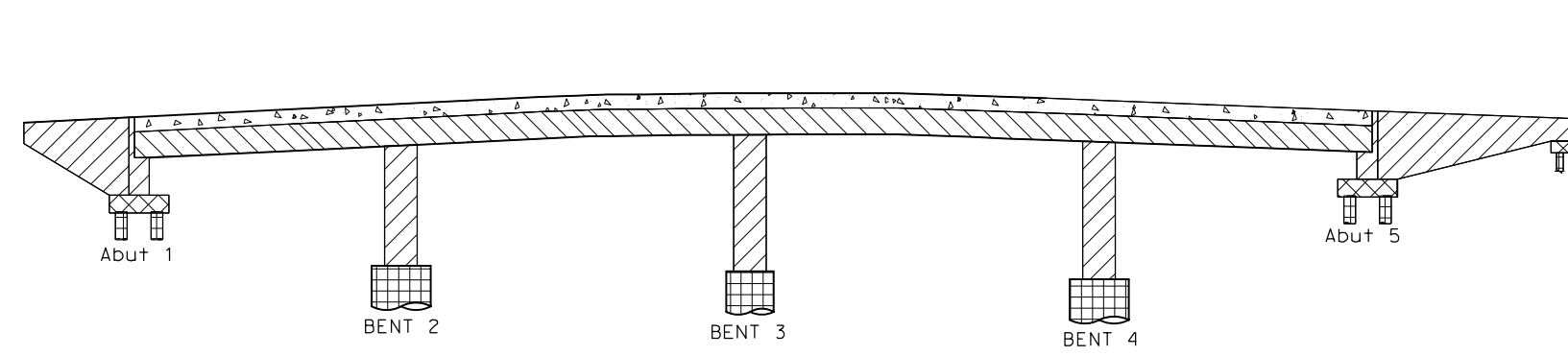
- A3A ABBREVIATIONS (SHEET 1 OF 3)
- A3B ABBREVIATIONS (SHEET 2 OF 3)
- A3C ABBREVIATIONS (SHEET 3 OF 3)
- A10A LEGEND-LINES AND SYMBOLS (SHEET 1 OF 5)
- A10B LEGEND-LINES AND SYMBOLS (SHEET 2 OF 5)
- A10C LEGEND-LINES AND SYMBOLS (SHEET 3 OF 5)
- A10D LEGEND-LINES AND SYMBOLS (SHEET 4 OF 5)
- A10E LEGEND-LINES AND SYMBOLS (SHEET 5 OF 5)
- A10F LEGEND-SOIL (SHEET 1 OF 2)
- A10G LEGEND-SOIL (SHEET 2 OF 2)
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL-BRIDGE
- RSP B0-1 BRIDGE DETAILS
- RSP B0-3 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B2-3 16" AND 24" CAST-IN-DRILLED-HOLE CONCRETE PILE
- B7-1 BOX GIRDER DETAILS
- B8-5 CAST-IN-PLACE POST-TENSIONED GIRDER DETAILS
- RSP ES-9A ELECTRICAL SYSTEMS (STRUCTURE PULL BOX INSTALLATIONS)
- ES-9B ELECTRICAL SYSTEMS (CONDUIT RISER AND EXPANSION FITTING, STRUCTURE INSTALLATIONS)
- RSP ES-9C ELECTRICAL SYSTEMS (STRUCTURE PULL BOX)
- RSP ES-9D ELECTRICAL SYSTEMS (STRUCTURE PULL BOX INSTALLATIONS)



**TYPICAL SECTION**

1" = 5'-0"  
(Bent 2 shown, other bents similar)

**NOTES:**  
(A) Chain Link Railing (Type 7 Modified Vinyl-Clad)



**CONCRETE STRENGTH AND TYPE LIMITS**

NO SCALE

**QUANTITIES**

Structure Excavation (Bridge)	167	CY
Structure Backfill (Bridge)	133	CY
24" Cast-In-Drilled-Hole Concrete Piling	525	LF
96" Cast-In-Drilled-Hole Concrete Piling	362	LF
Prestressing Cast-In-Place Concrete	1	LS
Structural Concrete, Bridge Footing	38	CY
Structural Concrete, Bridge	520	CY
Structural Concrete Bridge (Polymer Fiber)	221	CY
Joint Seal Assembly (MR 3/2")	28	LF
Bar Reinforcing Steel (Bridge)	364,384	LB
Headed Bar Reinforcement	10	EA
Miscellaneous Metal (Bridge)	860	LB
Chain Link Railing (Type 7 modified Vinyl-Clad)	1,177	LF

*Norbert Gee*  
DESIGN OVERSIGHT  
10/03/2022  
SIGN OFF DATE

DESIGN	BY	CHECKED	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: H10 AND PEDESTRIAN DESIGN LOAD
DESIGN	J. Hueser	K. Lee	LAYOUT	J. Hueser
DETAILS	H. Sullivan	K. Lee	SPECIFICATIONS	D. Harnagel
QUANTITIES	J. Hueser	S. Kwong	PLANS AND SPECS COMPARED	J. Hueser

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**

Syed Kazmi  
PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC GENERAL PLAN No. 2**

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 0743  
PROJECT NUMBER & PHASE: 04000007591  
CONTRACT No.: 04-272824

REVISION DATES	SHEET	OF
08-09-22 11-9-20 10-24-21 03-14-22	2	26

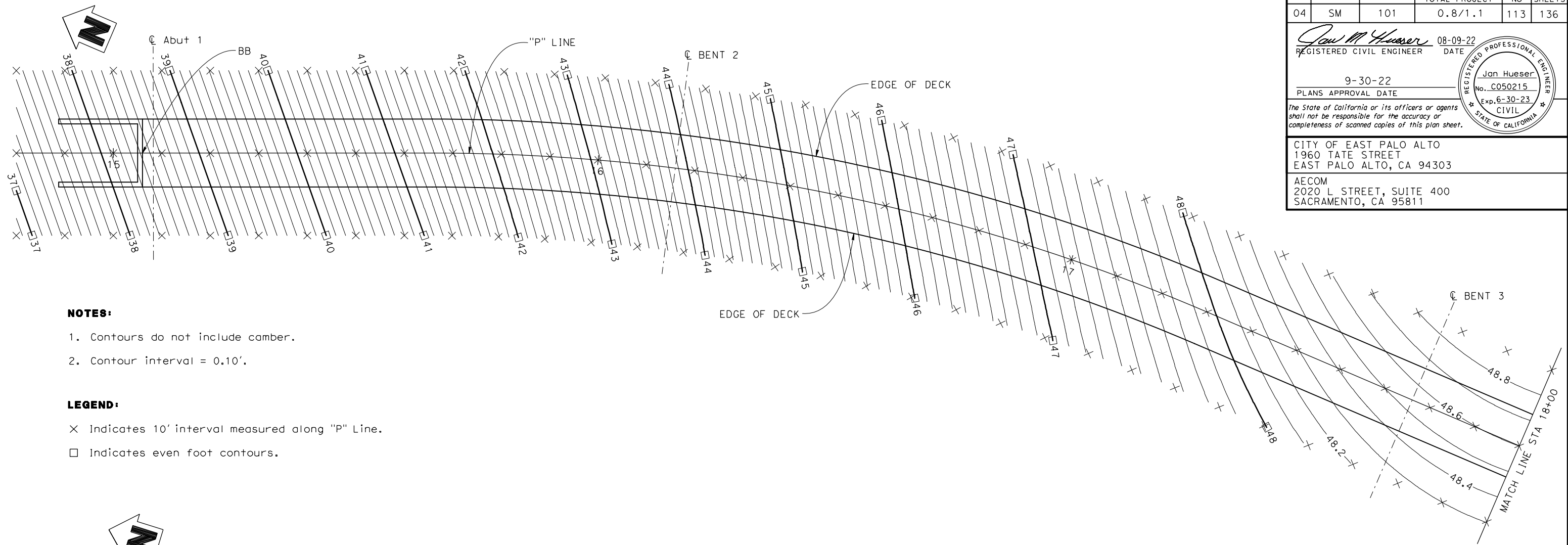
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	113	136

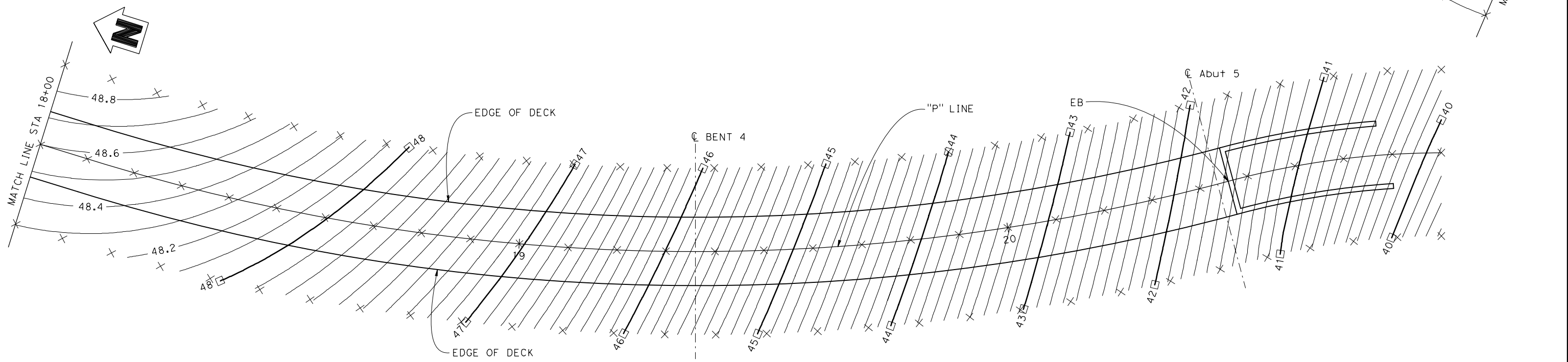
*Jan M Hueser* 08-09-22  
 REGISTERED CIVIL ENGINEER DATE  
 9-30-22  
 PLANS APPROVAL DATE  
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CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
 AECOM  
 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811



- NOTES:**
1. Contours do not include camber.
  2. Contour interval = 0.10'.

- LEGEND:**
- x Indicates 10' interval measured along "P" Line.
  - Indicates even foot contours.



**PLAN**  
1" = 10'-0"

*Norbert Gee*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE  
 STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION**

Syed Kazmi  
 PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC  
DECK CONTOURS**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 0743  
PROJECT NUMBER & PHASE: 04000007591

CONTRACT No.: 04-272824

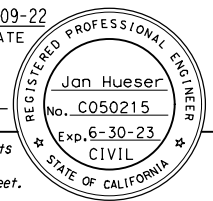
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-09-22 11-9-20 10-29-21 03-04-22	3	26

DATE PLOTTED => \$DATE USERNAME => \$USER TIME PLOTTED => \$TIME

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	114	136

*Jan M Hueser* 08-09-22  
 REGISTERED CIVIL ENGINEER DATE  
 9-30-22  
 PLANS APPROVAL DATE  
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CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
 AECOM  
 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811

### PILE DATA TABLE

LOCATION	PILE TYPE	NOMINAL RESISTANCE (kips)		DESIGN TIP ELEVATION (ft)	SPECIFIED TIP ELEVATION (ft)	SPECIFIED STEEL CASING TIP ELEVATION (ft)
		COMPRESSION	TENSION			
Abut 1	24"Ø CIDH	230	0	-15(A), 4(C), 1(D)	-15	NA
BENT 2	96"Ø CIDH WITH PERMANENT STEEL CASING	1,830	0	-74(A), -120(C), -13(D)	-120	0
BENT 3	96"Ø CIDH WITH PERMANENT STEEL CASING	1,940	0	-76(A), -95(C), -15(D)	-95	8
BENT 4	96"Ø CIDH WITH PERMANENT STEEL CASING	1,840	0	-74(A), -106(C), -13(D)	-106	0
Abut 5	24"Ø CIDH	250	0	-15(A), 9(C), 0(D)	-15	NA
Abut 5 WW Lt	24"Ø CIDH	60	0	12(A)	12	NA
Abut 5 WW Rt	24"Ø CIDH	60	0	12(A)	12	NA

DESIGN TIP ELEVATION IS CONTROLLED BY THE FOLLOWING DEMANDS:  
 (A) COMPRESSION, (B) TENSION, (C) LATERAL, (D) SETTLEMENT.

### BENCH MARK

BENCH MARK	N	E	ELEV	DESCRIPTION
93	1995150	6085242	17.32	MAG NAIL AND SHINER IN AC @ SE CORNER OF UNIVERSITY AVE AND WOODLAND AVE, NEXT TO "NO PED CROSSING" SIGN
92	1993359	6085190	33.63	CUT "X" IN SIDEWALK @ NE CORNER OF UNIVERSITY AVE AND DONOHUE STREET

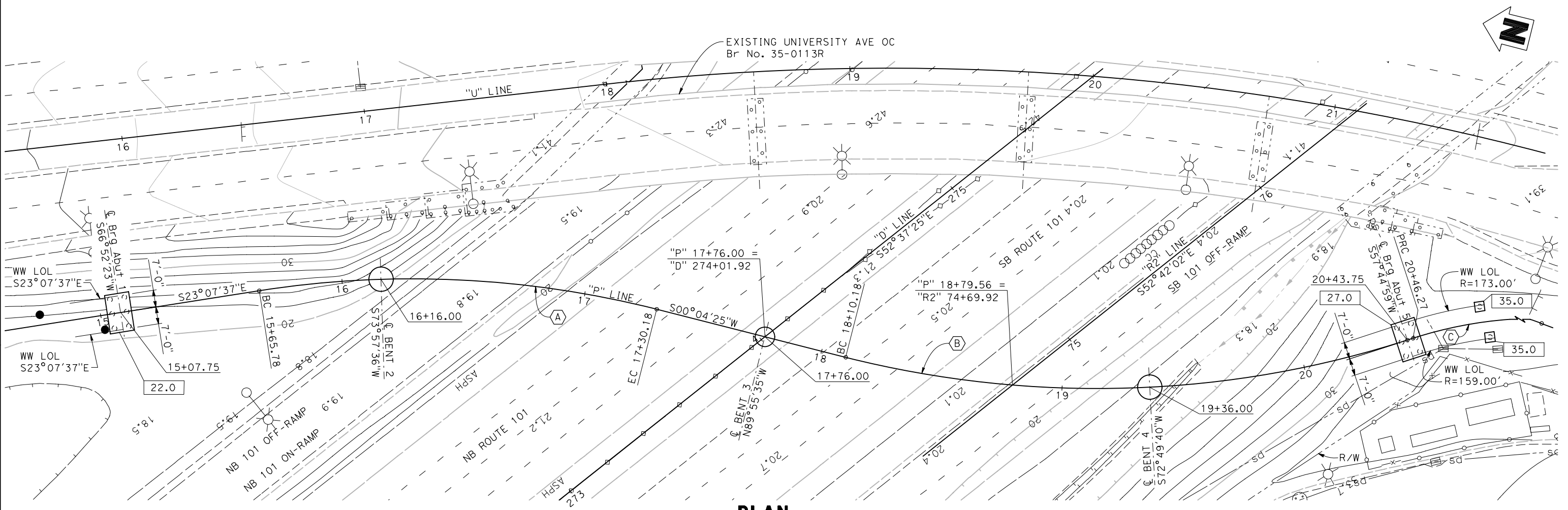
SURVEY CONTROL  
 HORIZONTAL CONTROL FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3, US SURVEY FEET, NORTH AMERICAN DATUM OF 1983 (NAD83 2007),  
 VERTICAL CONTROL IS THE NORTH AMERICAN VERTICAL DATUM (NAVD88 RCFCD).

### CURVE DATA

CURVE	R	Δ	T	L
(A)	406.00'	23°12'02"	83.34'	164.40'
(B)	418.00'	32°21'41"	121.29'	236.09'
(C)	166.00'	38°57'05"	58.70'	112.85'

### LEGEND:

- Indicates existing structure
- Indicates CIDH Pile
- Indicates bottom of footing elevation
- Approximate location of Settlement Monitoring Point



**PLAN**

11-9-20  
 GEOTECHNICAL PROFESSIONAL APPROVAL DATE

*Norbert Gee*  
 DESIGN OVERSIGHT  
 10/03/2022

SCALE: 1"=20'-0"	VERT. DATUM	HORZ. DATUM
PHOTOGRAMMETRY AS OF:	ALIGNMENT TIES	
SURVEYED BY B. Coleson	DRAFTED BY C. Semera	
FIELD CHECKED BY D. Scott	CHECKED BY D. Scott	

DESIGN BY J. Hueser	CHECKED K. Lee
DETAILS BY H. Sullivan	CHECKED K. Lee
QUANTITIES BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE  
 STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION**

Syed Kazmi PROJECT ENGINEER	BRIDGE NO. 35-0359
	POST MILES 0.9

## UNIVERSITY AVENUE POC FOUNDATION PLAN

FOUNDATION PLAN SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 0743  
 PROJECT NUMBER & PHASE: 04000007591 CONTRACT No.: 04-272824

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET OF
	08-09-22 11-9-20 10-24-21 03-14-22	4 26

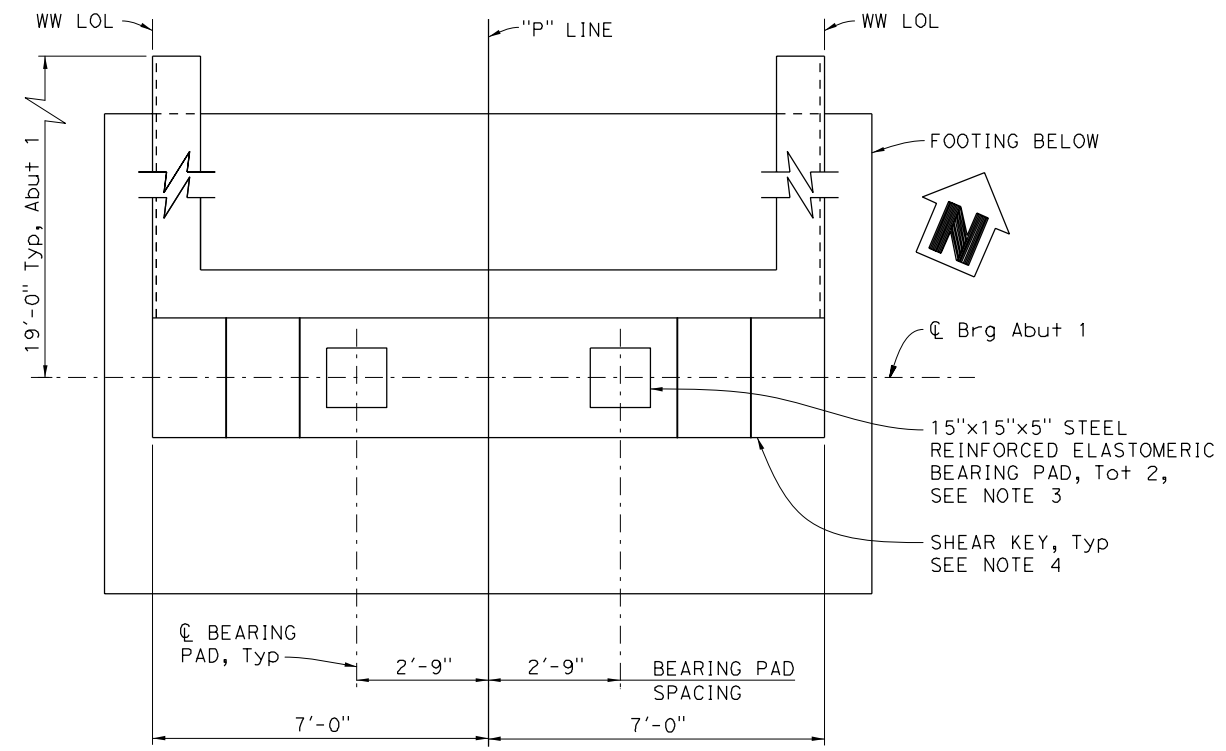
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	115	136

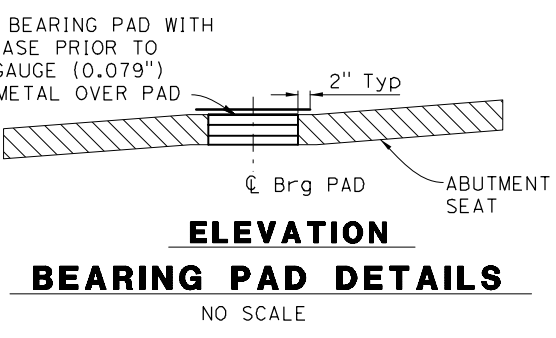
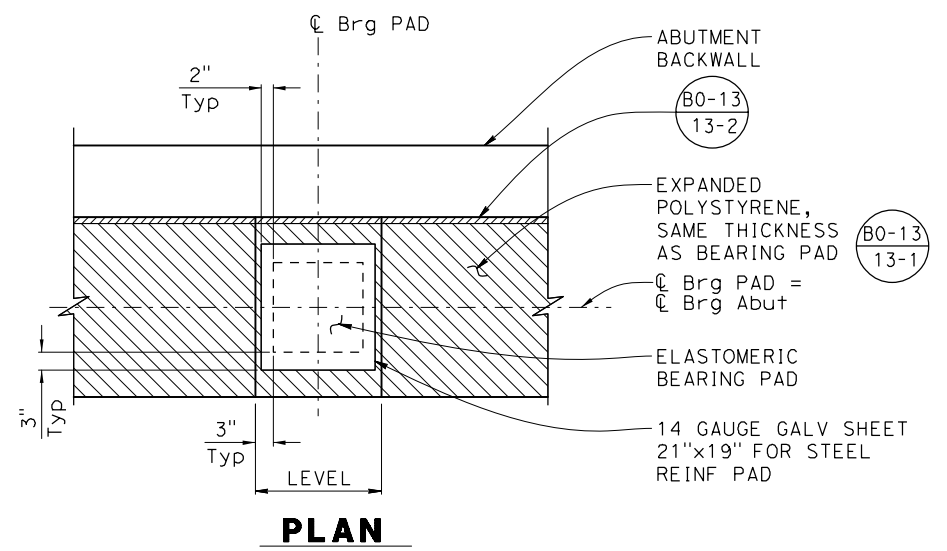
*Jan M. Hueser*  
 REGISTERED CIVIL ENGINEER  
 DATE 08-09-22  
 9-30-22  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER  
 Jan Hueser  
 No. C050215  
 Exp. 6-30-23  
 CIVIL  
 STATE OF CALIFORNIA

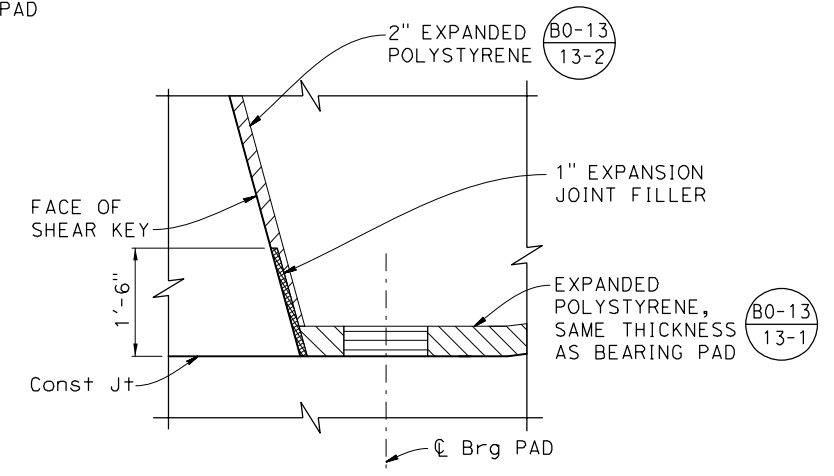
CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
 AECOM  
 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811



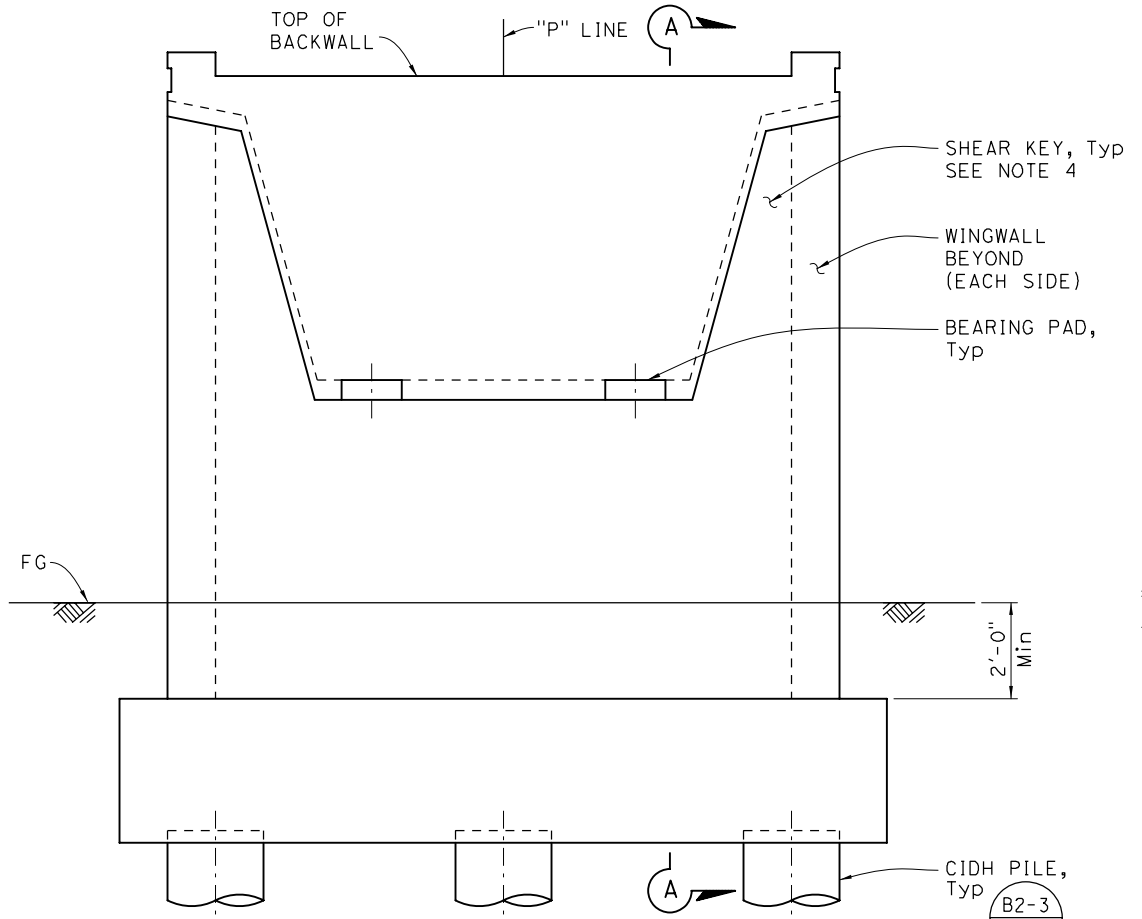
**PLAN**  
 1/2" = 1'-0"  
 (Abutment 1 shown, Abutment 5 similar.)



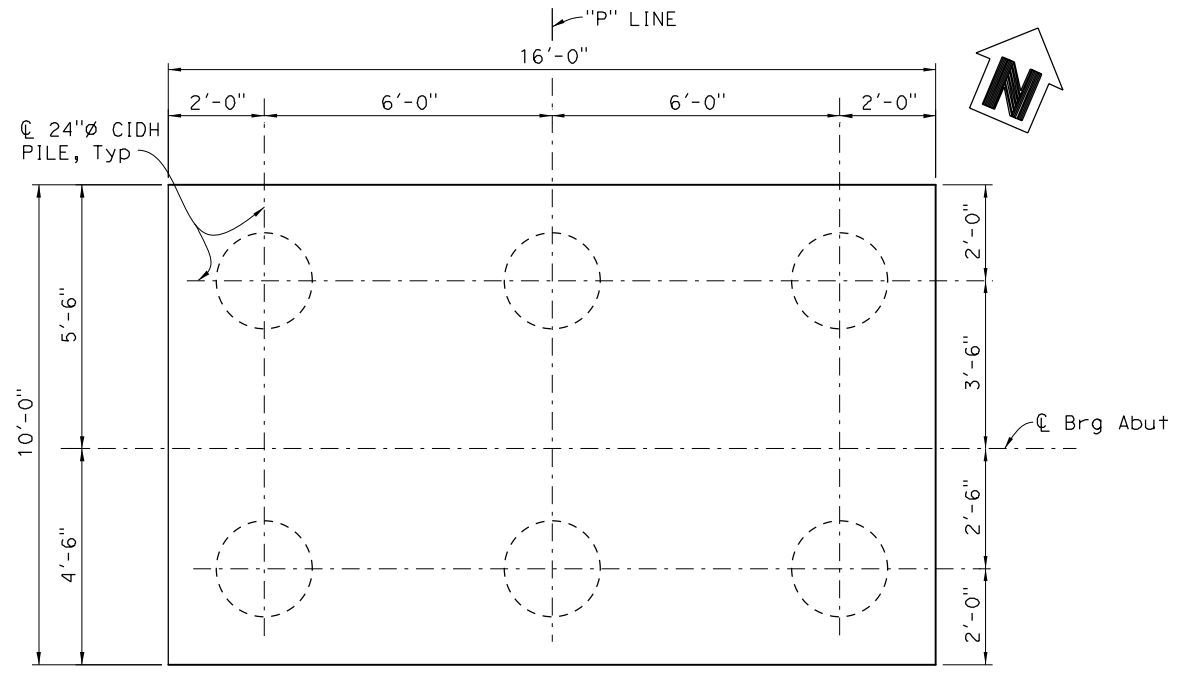
**ELEVATION**  
**BEARING PAD DETAILS**  
 NO SCALE



**EXPANSION JOINT FILLER DETAIL**  
 3/4" = 1'-0"



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



**FOOTING PLAN**  
 1/2" = 1'-0"

- NOTES:**
- For SECTION A-A, see "ABUTMENT DETAILS No. 1" sheet.
  - For Wingwall details, see "ABUTMENT DETAILS No. 2" sheet.
  - Indicated pad thickness is for elastomer only.
  - For Shear Key Detail, see "ABUTMENT DETAILS No. 1" sheet.

*Norbert Gee*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

PREPARED FOR THE  
**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION  
 Syed Kazmi  
 PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC**  
**ABUTMENT 1 AND 5 LAYOUT**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 0743  
PROJECT NUMBER & PHASE: 04000007591

CONTRACT No.: 04-272824

REVISION DATES	SHEET	OF
08-09-22 11-9-20 10-29-21 03-20-22	5	26

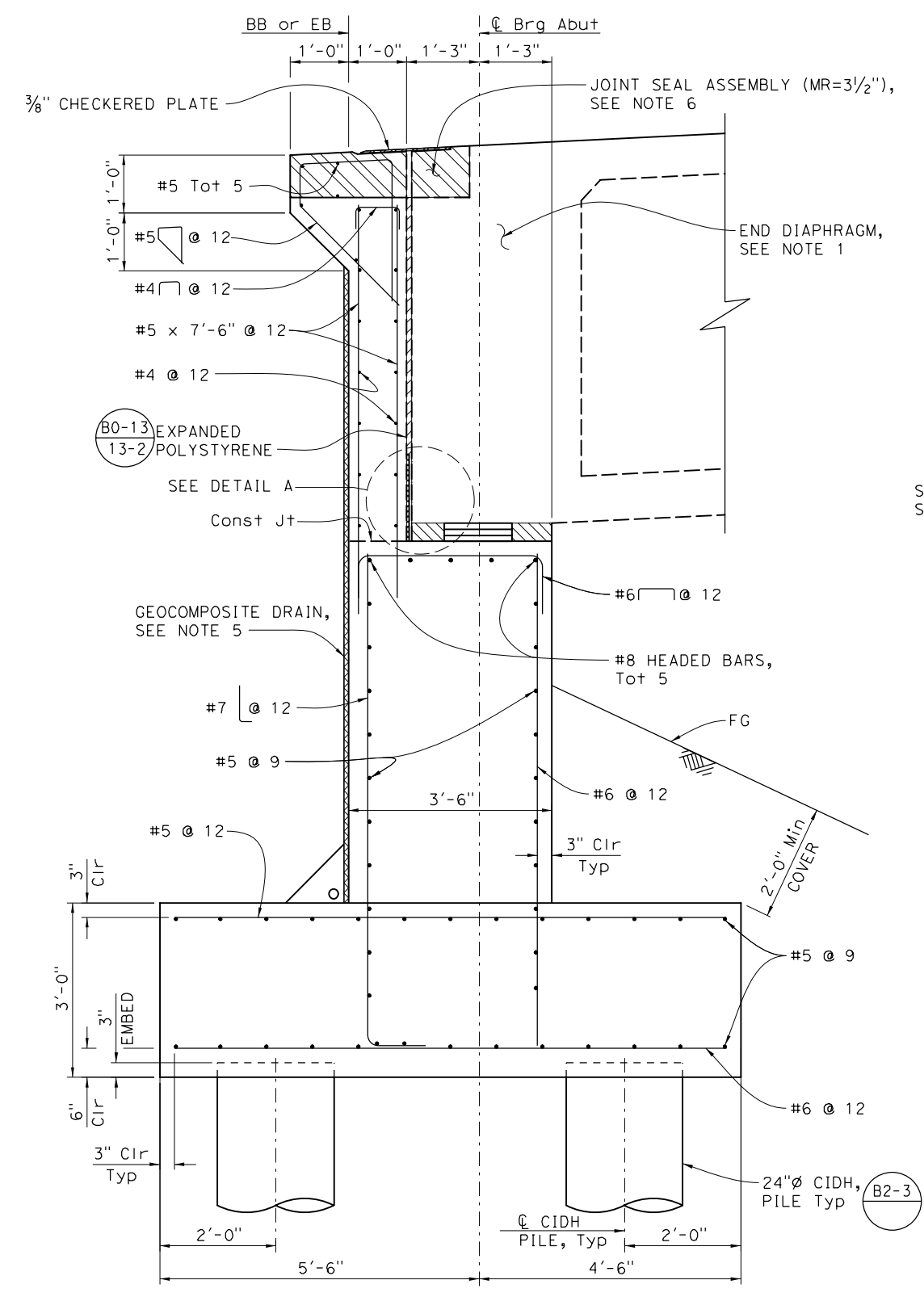
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	116	136

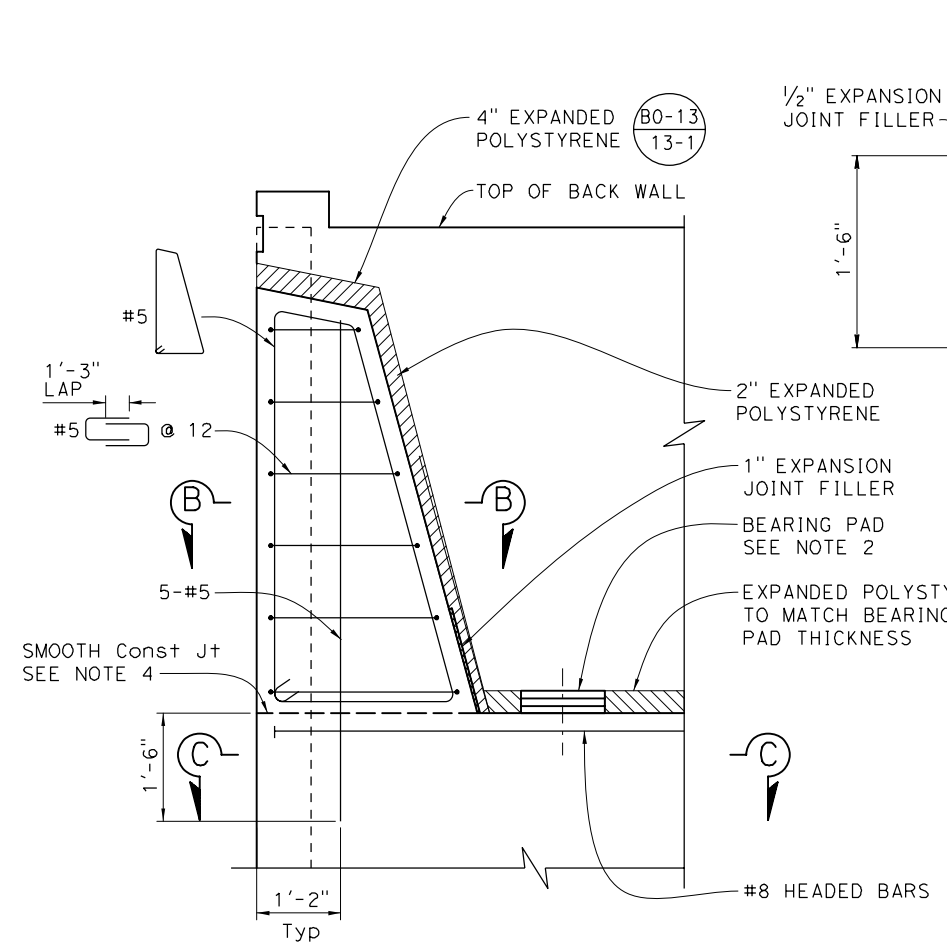
*Jan M Hueser* 08-09-22  
 REGISTERED CIVIL ENGINEER DATE  
 9-30-22  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER  
 Jan Hueser  
 No. C050215  
 Exp. 6-30-23  
 CIVIL  
 STATE OF CALIFORNIA

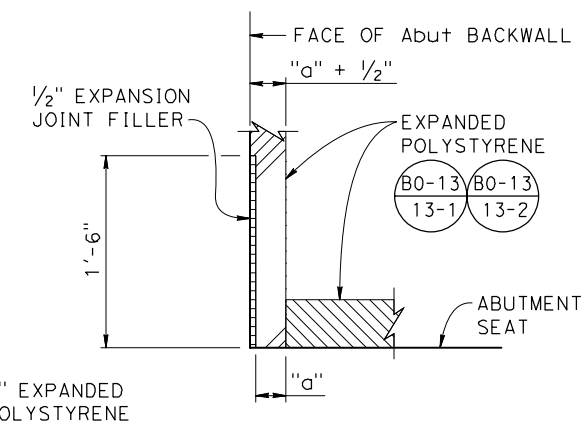
CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
 AECOM  
 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811



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

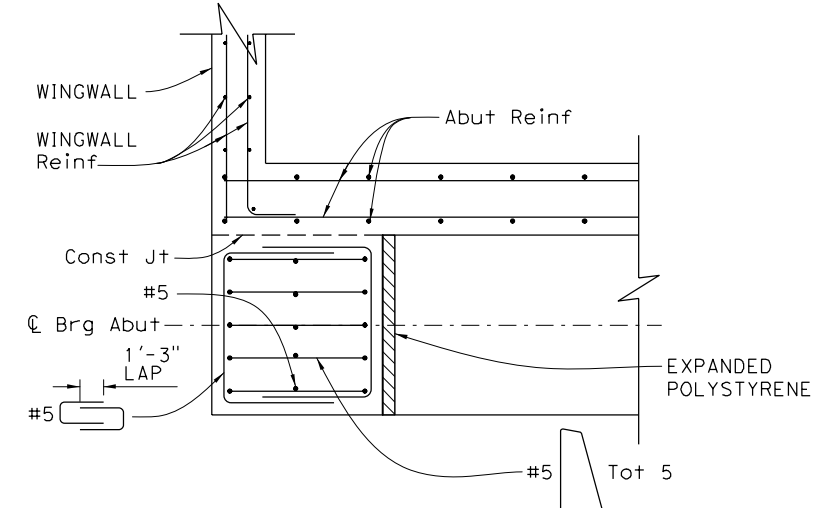


**SHEAR KEY DETAIL**  
3/4" = 1'-0"

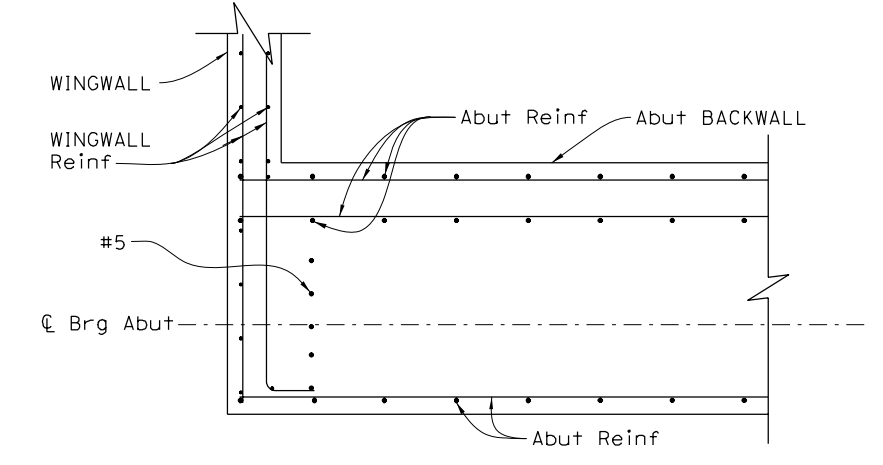


**DETAIL A**  
NO SCALE

- NOTES:**
- For End Diaphragm and Slab Reinforcement, see "GIRDER DETAILS No. 1" sheet.
  - For Bearing Pad detail, see "ABUTMENT 1 AND 5 LAYOUT" sheet.
  - For Girder Reinforcement, see "GIRDER REINFORCEMENT" sheet.
  - Smooth construction joints shall have a smooth trowel finish and 2 layers of 15 lb roofing felt.
  - For Geocomposite Drain, see "ABUTMENT DRAINAGE DETAILS" sheet.
  - For Joint Seal Assembly Details, see, "STRIP JOINT SEAL ASSEMBLY, MAXIMUM MOVEMENT RATING = 4", sheet.
  - For Checkered Steel Plate details, see "JOINT ARMOR FOR PEDESTRIAN WALKWAYS" sheet.



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



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

*Norbert Gee*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE  
 DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**  
 Syed Kazmi  
 PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC ABUTMENT DETAILS No. 1**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	117	136

*Jan M. Hueser* 08-09-22  
REGISTERED CIVIL ENGINEER DATE

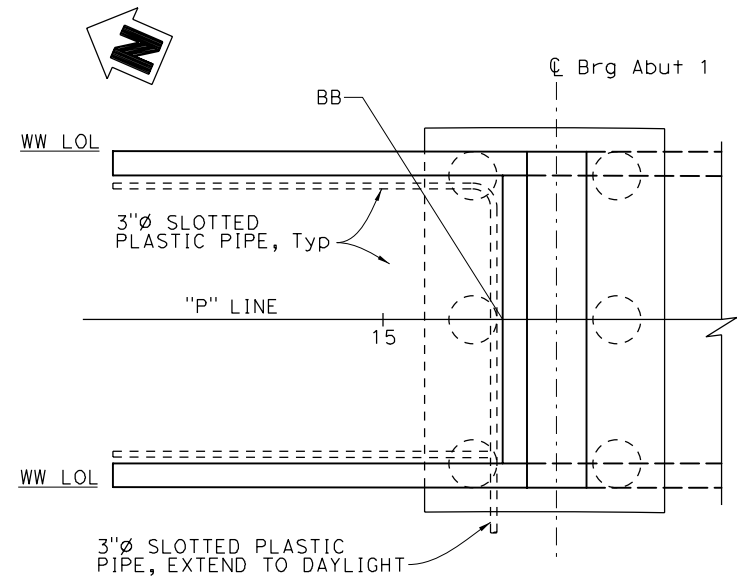
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PLANS APPROVAL DATE

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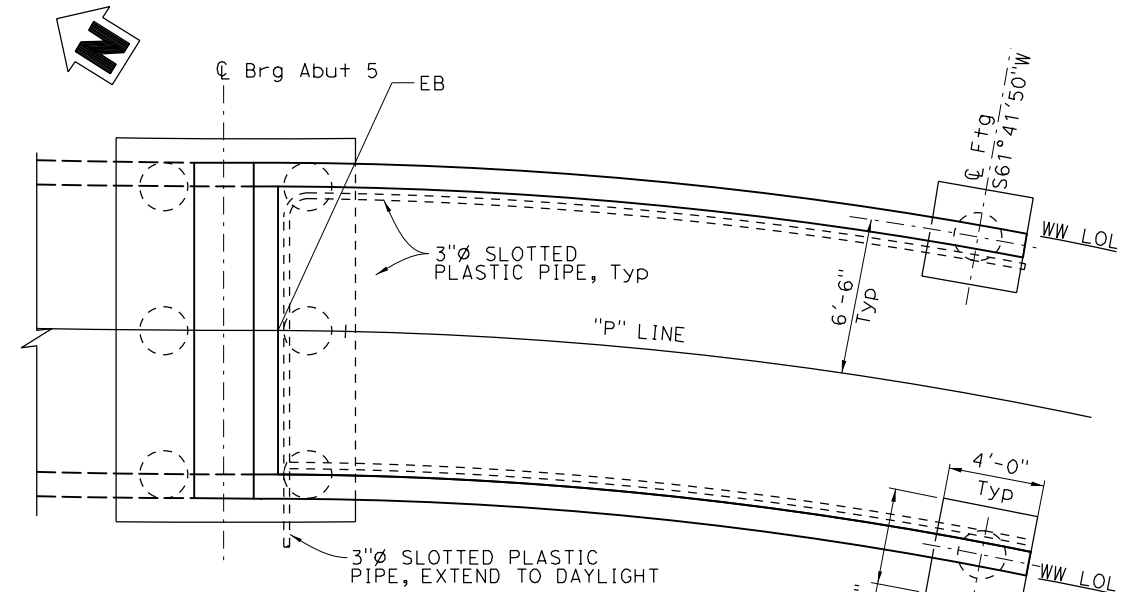
CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303

AECOM  
2020 L STREET, SUITE 400  
SACRAMENTO, CA 95811

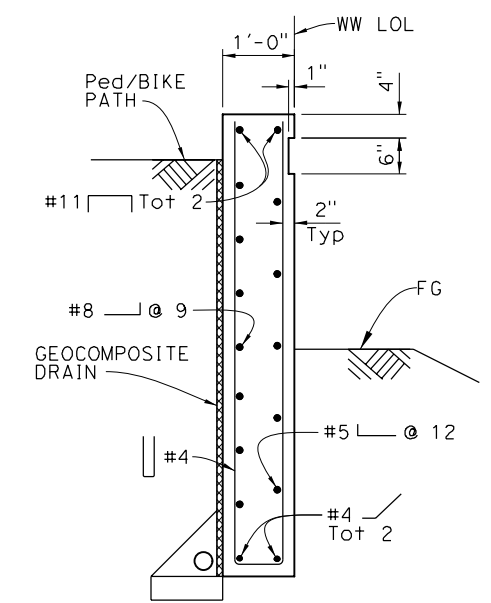
REGISTERED PROFESSIONAL ENGINEER  
Jan Hueser  
No. C050215  
Exp. 6-30-23  
CIVIL  
STATE OF CALIFORNIA



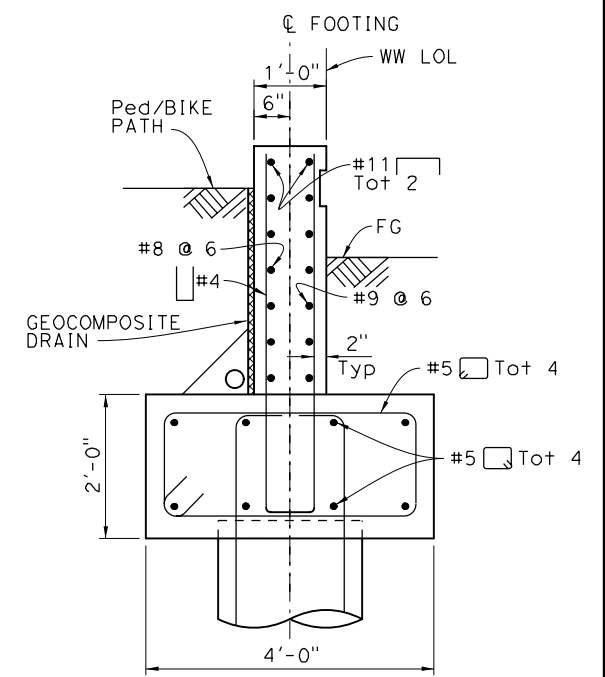
**PLAN - ABUTMENT 1**  
1/4" = 1'-0"



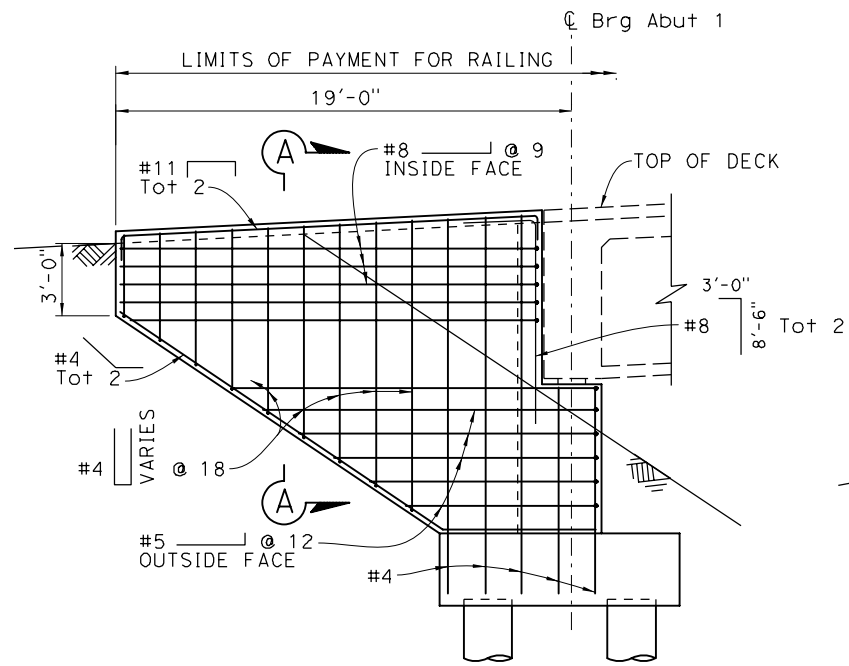
**PLAN - ABUTMENT 5**  
1/4" = 1'-0"



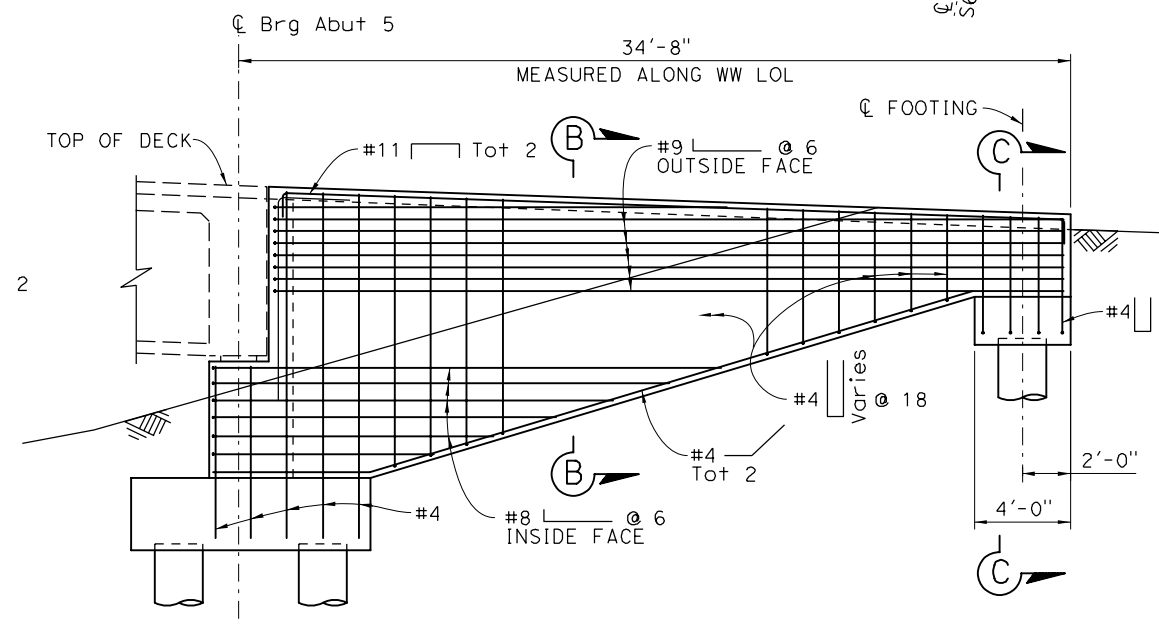
**SECTION A-A**  
3/4" = 1'-0"



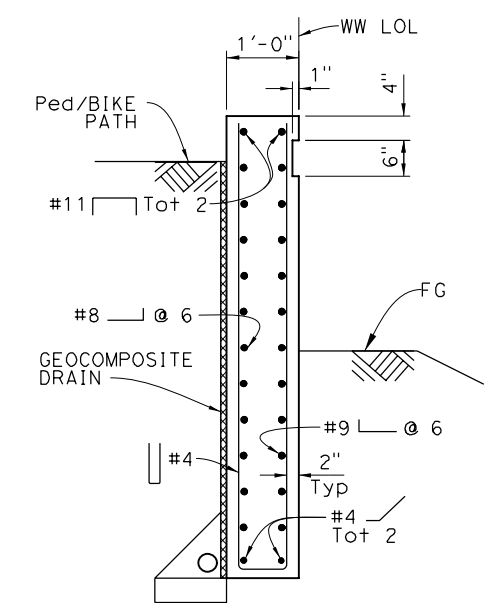
**SECTION C-C**  
3/4" = 1'-0"



**WINGWALL ELEVATION**  
1/4" = 1'-0"



**WINGWALL ELEVATION**  
1/4" = 1'-0"



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

- NOTES:**
- For Abutment 1 and 5, see "ABUTMENT 1 AND 5 LAYOUT" sheet.
  - For Footing and Pile Data, see "FOUNDATION PLAN" sheet.
  - For Geocomposite drain details, see "ABUTMENT DRAINAGE DETAILS" sheet.

*Norbert Gee*  
DESIGN OVERSIGHT  
10/03/2022  
SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE  
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION**

Syed Kazmi  
PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC  
ABUTMENT DETAILS No. 2**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 0743  
PROJECT NUMBER & PHASE: 04000007591

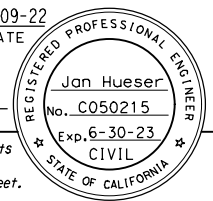
CONTRACT No.: 04-272824

REVISION DATES	SHEET	OF
08-09-22 11-9-20 10-2-21 03-10-22	7	26

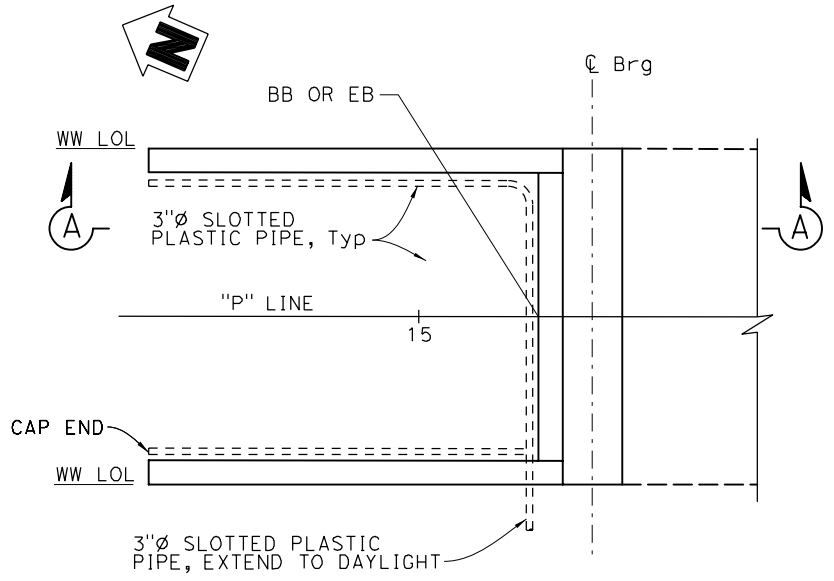
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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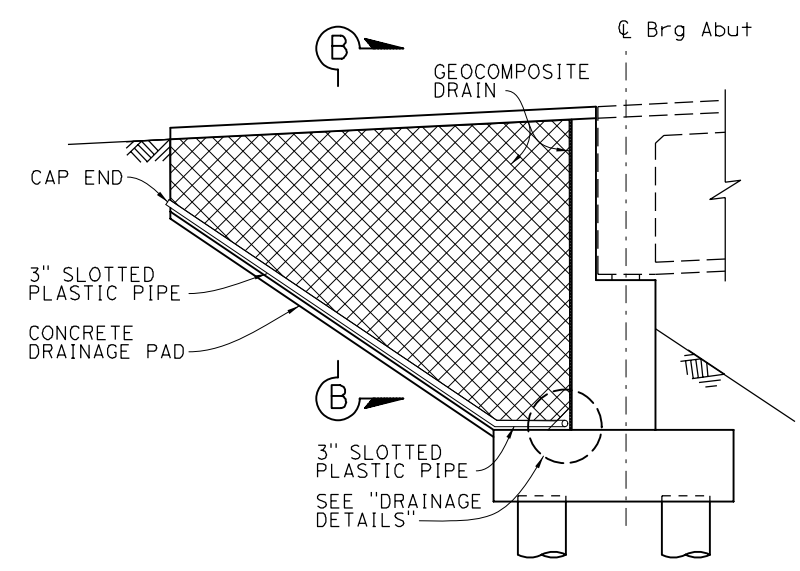
*Jan M Hueser* 08-09-22  
 REGISTERED CIVIL ENGINEER DATE  
 PLANS APPROVAL DATE 9-30-22  
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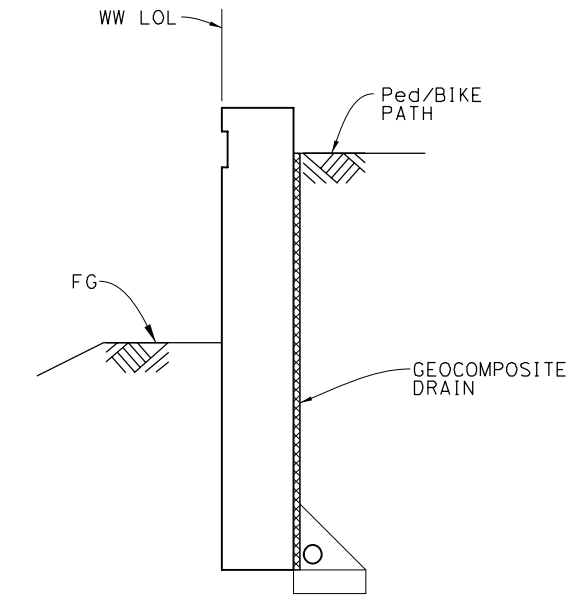
CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
 AECOM  
 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811



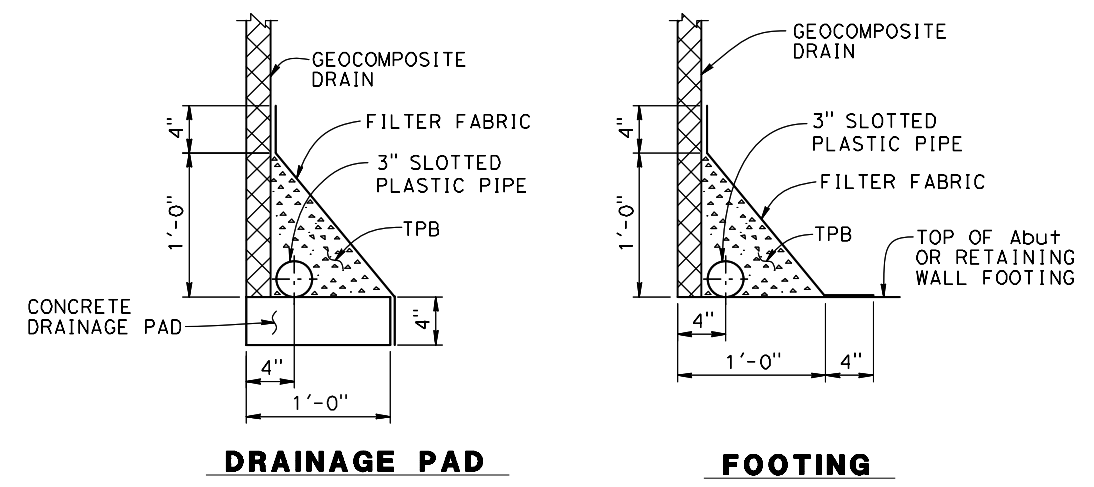
**ABUTMENT PLAN**  
 1/4" = 1'-0"  
 ABUT 1 SHOWN, ABUT 5 SIMILAR



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



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



**DRAINAGE DETAILS**

- NOTES:**
- For Abutment 1 and 5 layout, see "ABUTMENT 1 AND 5 LAYOUT" sheet.
  - For Footing and Pile Data, see "FOUNDATION PLAN" sheet.

*Norbert Gee*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

PREPARED FOR THE  
**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

Syed Kazmi  
 PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC**  
**ABUTMENT DRAINAGE DETAILS**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 0743  
PROJECT NUMBER & PHASE: 04000007591

CONTRACT No.: 04-272824

REVISION DATES	SHEET	OF
08-09-22 11-9-20 10-29-21 03-04-22	8	26

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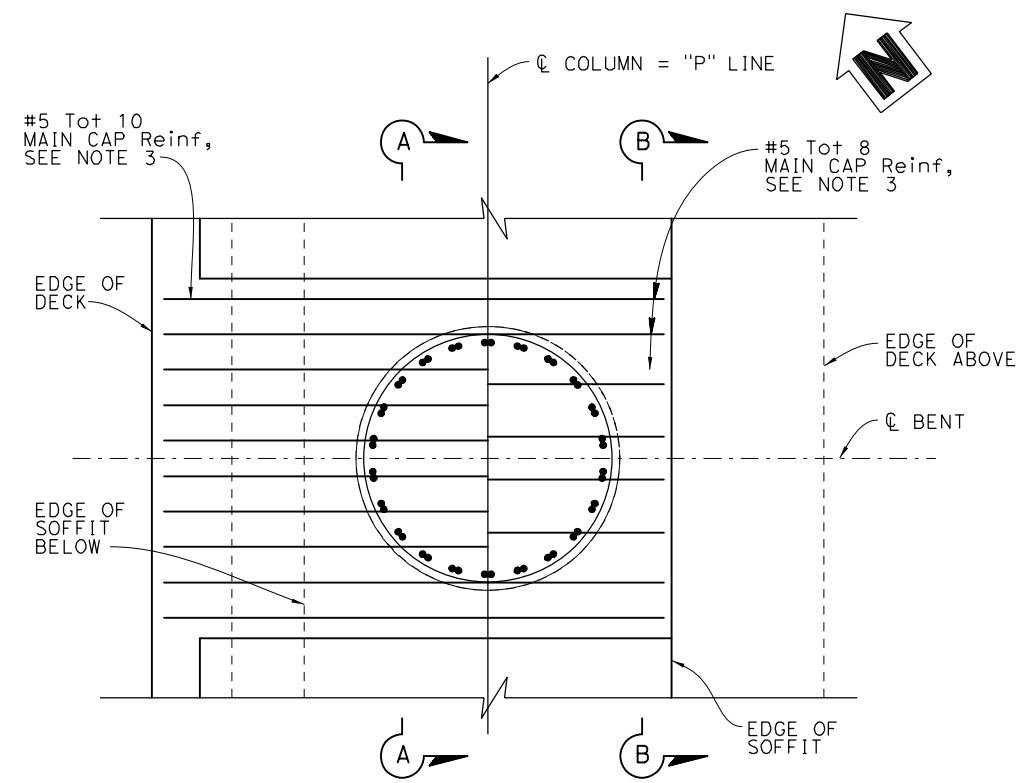
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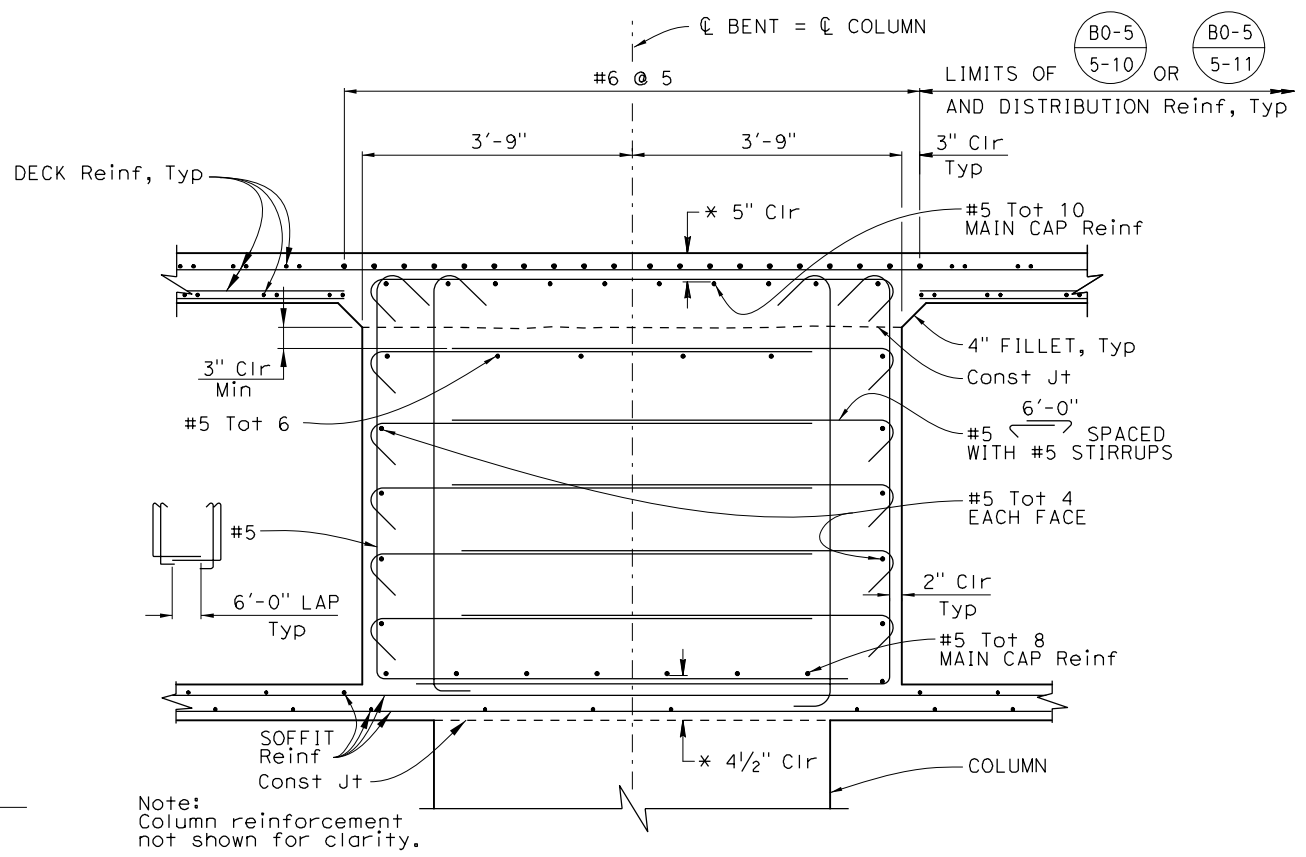
*Jan M Hueser*  
 REGISTERED CIVIL ENGINEER  
 08-09-22 DATE  
 9-30-22 PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
 Jan Hueser  
 No. C050215  
 Exp. 6-30-23  
 CIVIL  
 STATE OF CALIFORNIA

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
 AECOM  
 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811

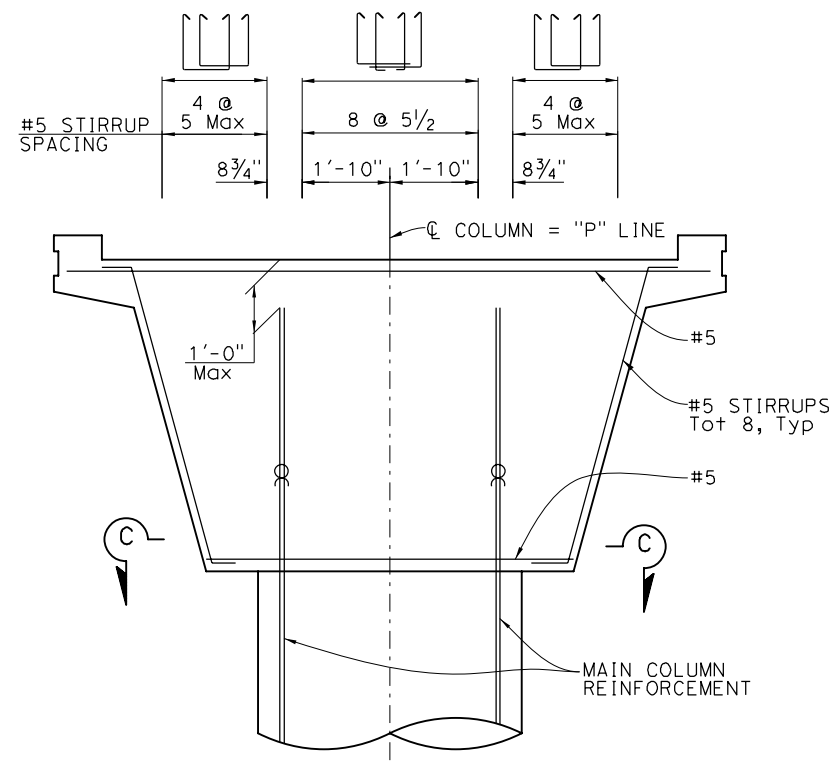


**TOP REINFORCEMENT BOTTOM REINFORCEMENT PLAN**  
 $\frac{1}{2}'' = 1'-0''$   
 (BENT 2 SHOWN, BENT 4 SIMILAR)

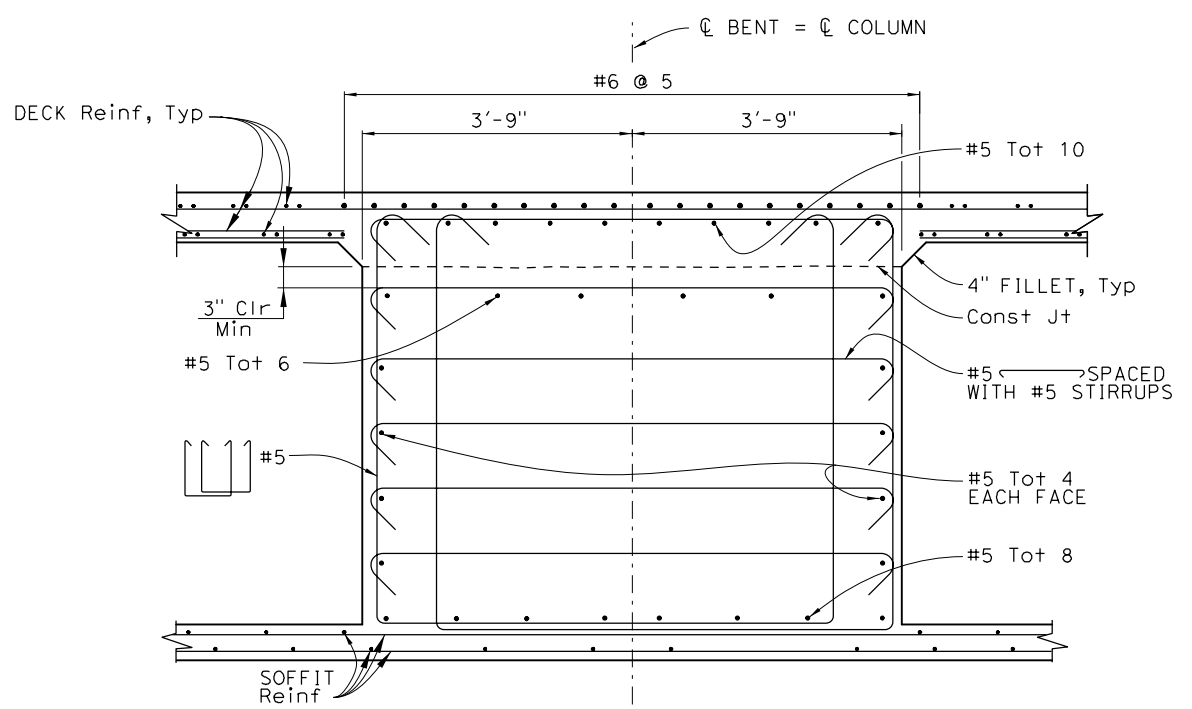


Note: Column reinforcement not shown for clarity.

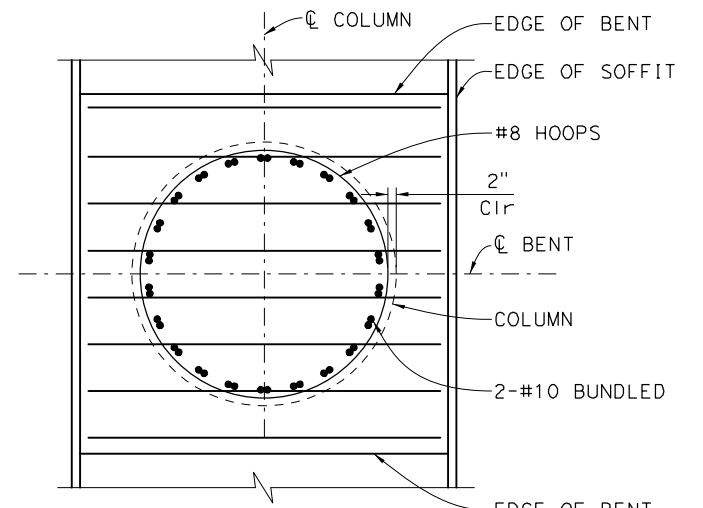
**SECTION A-A**  
 $\frac{3}{4}'' = 1'-0''$   
 \* CLEARANCE TO MAIN CAP Reinf



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



**SECTION B-B**  
 $\frac{3}{4}'' = 1'-0''$   
 For details not shown, see Section A-A.



**SECTION C-C**  
 $\frac{1}{2}'' = 1'-0''$

- NOTES:**
1. For Column and CIDH Pile details, see "BENT 2 AND 4 DETAILS" sheet.
  2. For Typical Section details, see "TYPICAL SECTION" sheet.
  3. No splices allowed in Main cap reinforcement.
  4. Adjust reinforcement to clear prestress ducts.

*Norbert Gee*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

PREPARED FOR THE  
**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION  
 Syed Kazmi  
 PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC**  
**BENT 2 AND 4 LAYOUT**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 0743  
PROJECT NUMBER & PHASE: 04000007591 CONTRACT No.: 04-272824

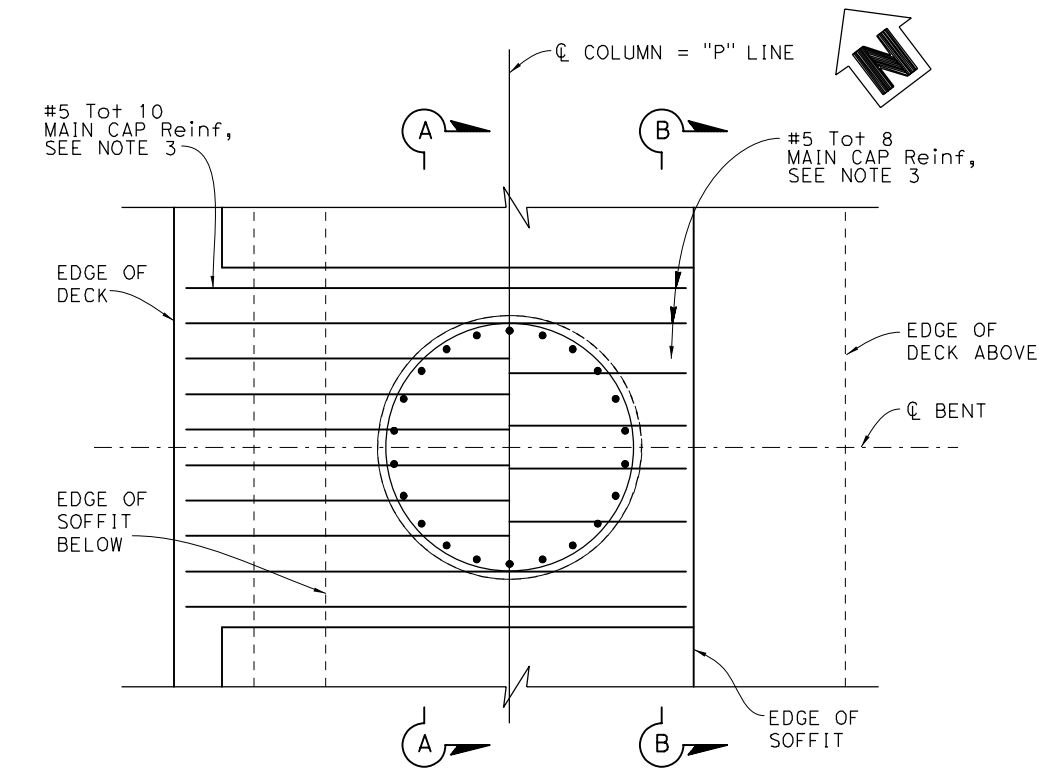
DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET	OF
	08-09-22 11-9-20 10-24-21 03-14-22	9	26

DATE PLOTTED => \$DATE USERNAME => \$USER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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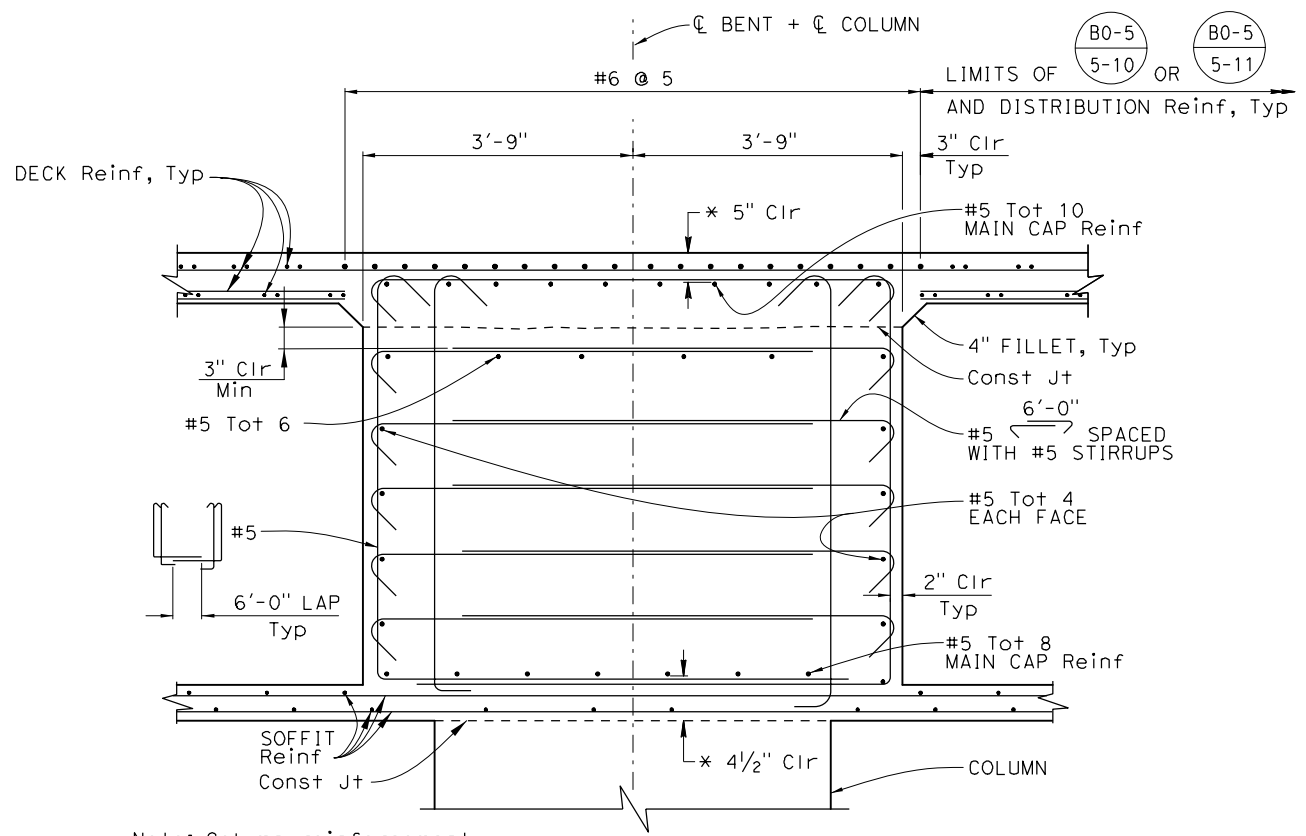
*Jan M. Hueser*  
 REGISTERED CIVIL ENGINEER  
 DATE 08-09-22  
 9-30-22  
 PLANS APPROVAL DATE  
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 REGISTERED PROFESSIONAL ENGINEER  
 Jan Hueser  
 No. C050215  
 Exp. 6-30-23  
 CIVIL  
 STATE OF CALIFORNIA

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
 AECOM  
 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811



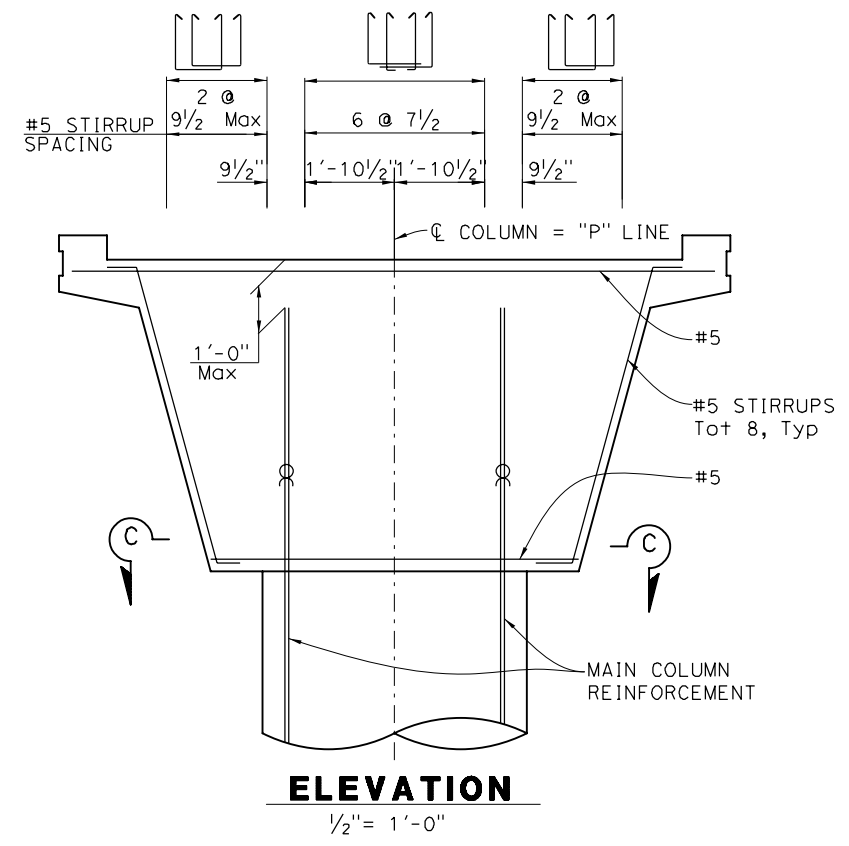
**TOP REINFORCEMENT    BOTTOM REINFORCEMENT**

**PLAN**  
1/2" = 1'-0"

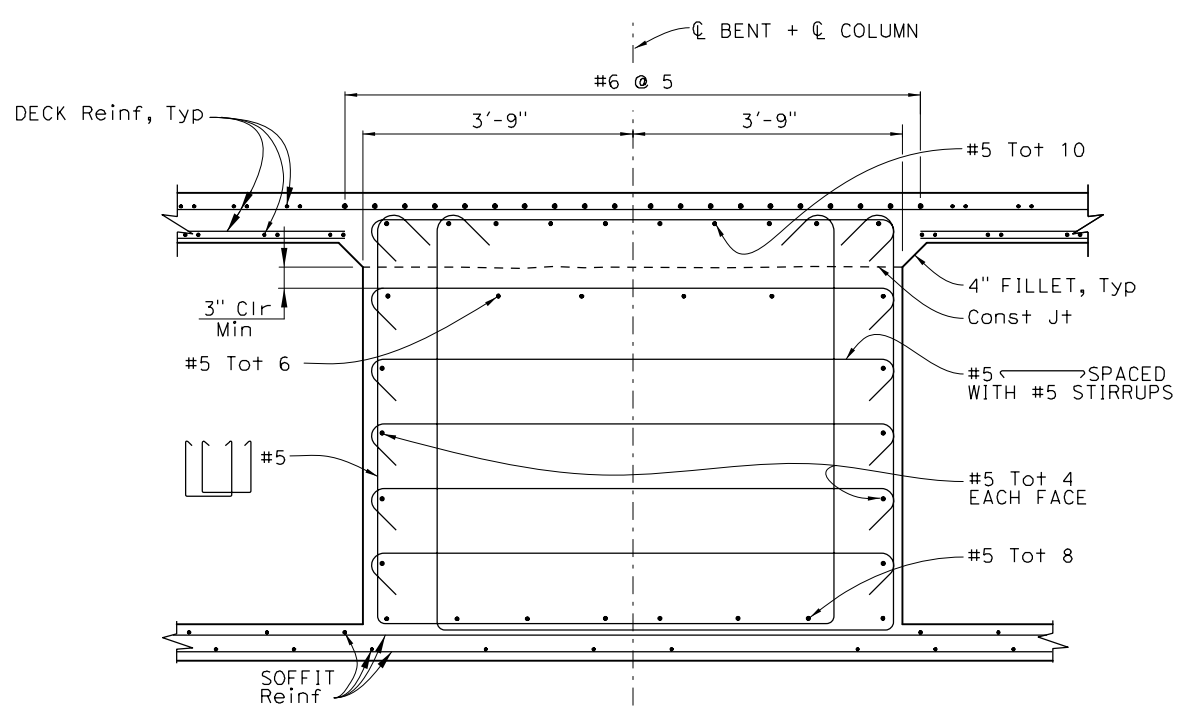


**SECTION A-A**  
3/4" = 1'-0"

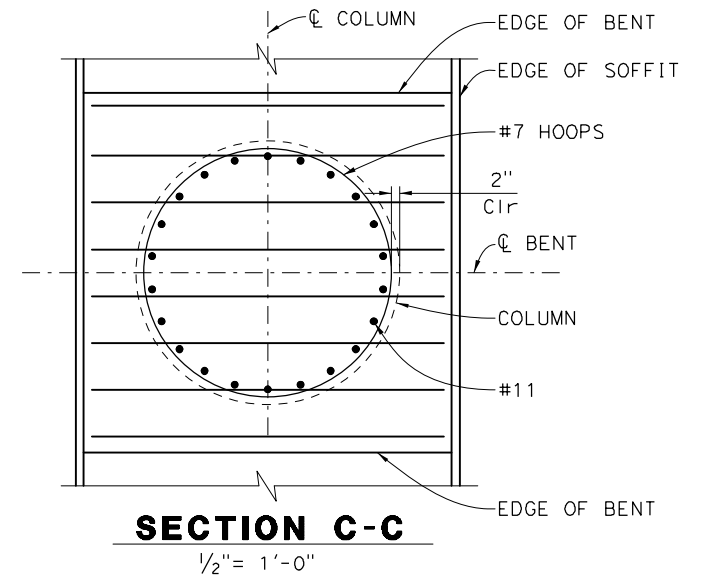
- NOTES:**
1. For Column and CIDH Pile details, see "BENT 3 DETAILS" sheet.
  2. For Typical Section details, see "TYPICAL SECTION" sheet.
  3. No splices allowed in Main cap reinforcement.
  4. Adjust reinforcement to clear prestress ducts.



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



**SECTION B-B**  
3/4" = 1'-0"  
For details not shown, see Section A-A.



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

*Norbert Goe*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION**  
 Syed Kazmi  
 PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC BENT 3 LAYOUT**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: PROJECT NUMBER & PHASE: 0743 04000007591

CONTRACT No.: 04-272824

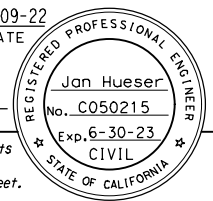
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DATE PLOTTED => \$TIME USERNAME => \$USER

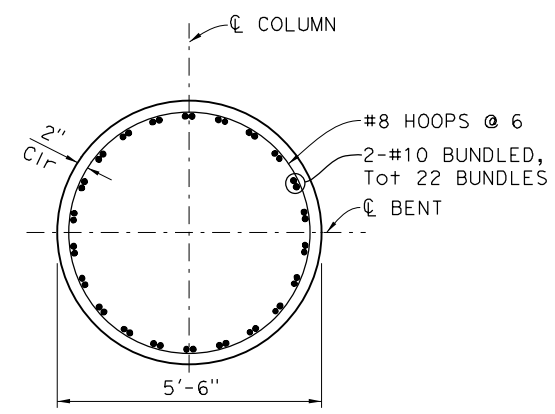
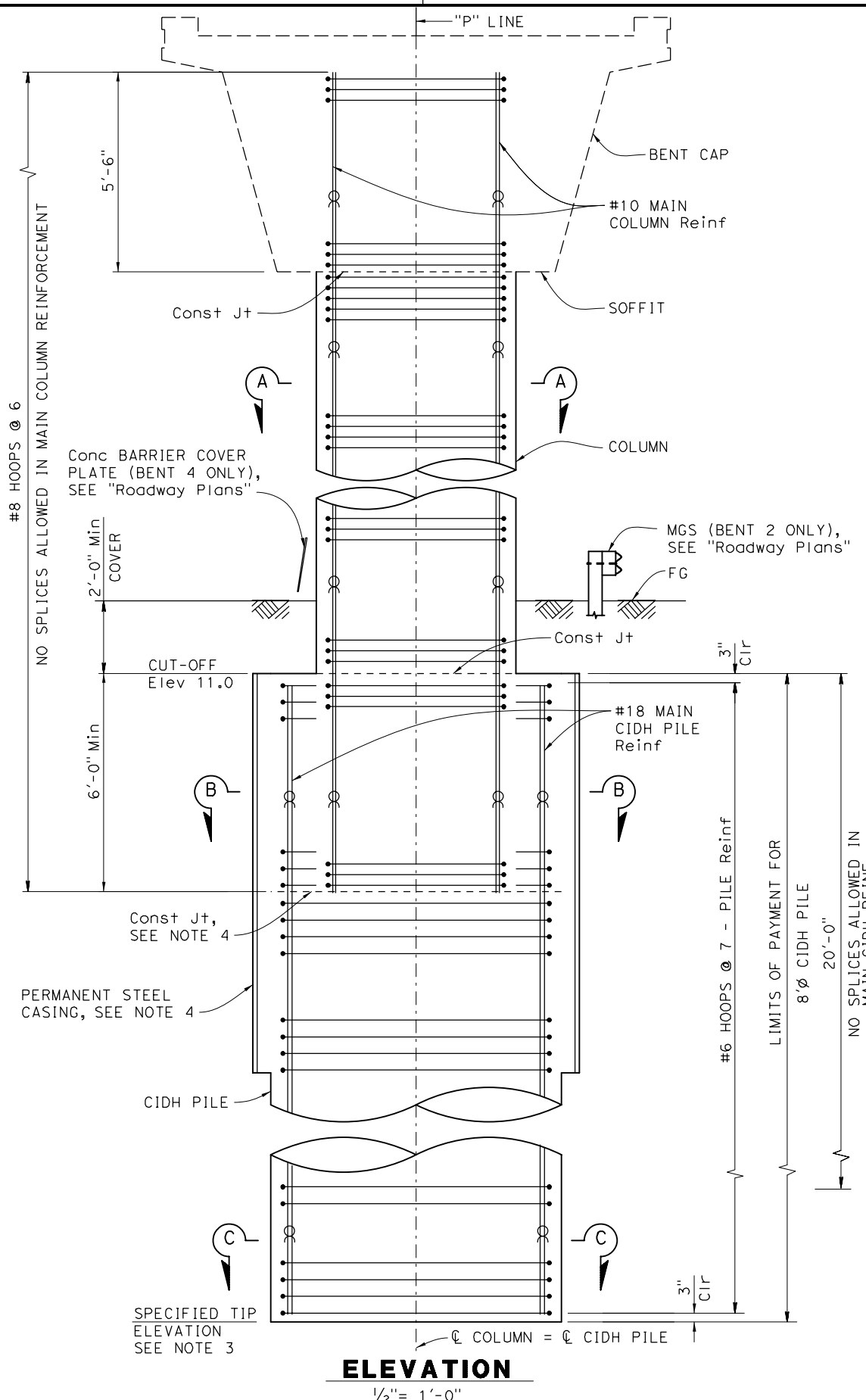


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	121	136

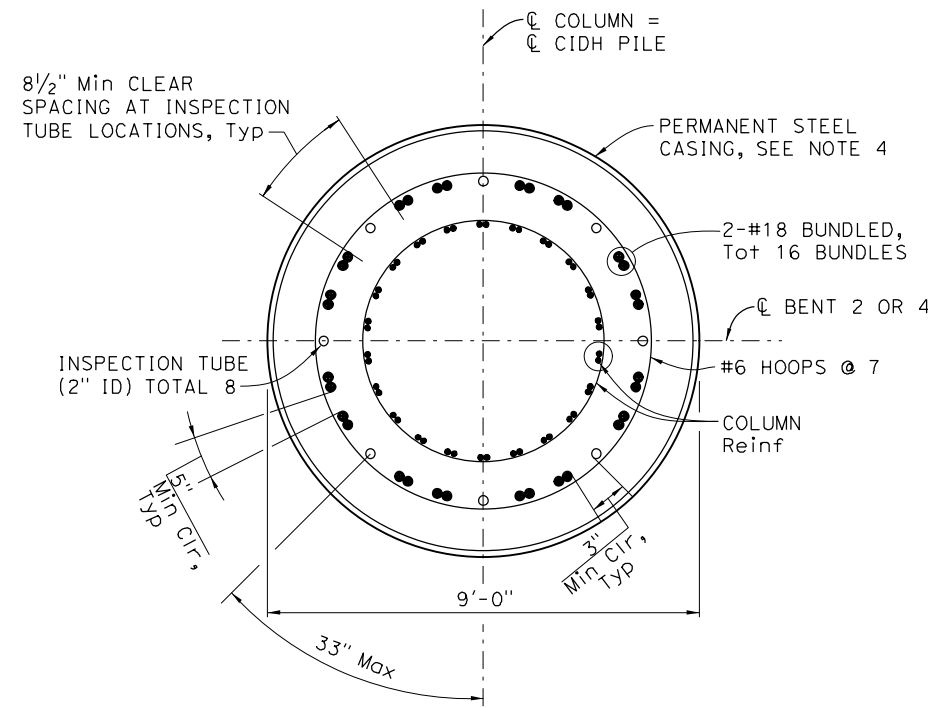
*Jan M Hueser*  
 REGISTERED CIVIL ENGINEER  
 08-09-22 DATE  
 9-30-22  
 PLANS APPROVAL DATE  
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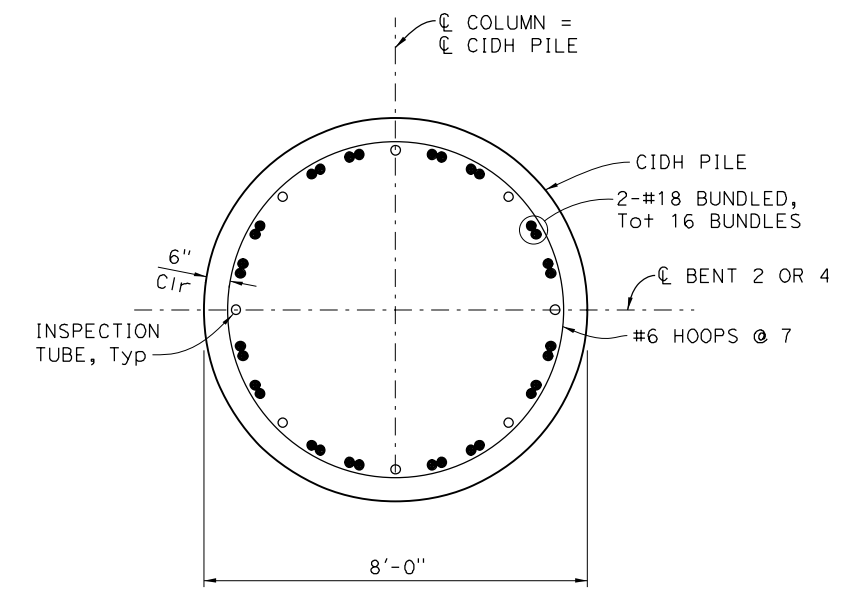
CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
 AECOM  
 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811



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



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



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

- NOTES:**
- All hoops are ultimate butt splice.
  - Only staggered "Ultimate" butt splices are allowed in CIDH Pile reinforcement.
  - For tip elevations, see Pile Data Table on "Foundation Plan" Sheet.
  - The contractor may elect to eliminate the construction joint and the permanent casing provided that the concrete above the specified tip for the permanent steel casing shown on the pile data table is not placed under slurry.

*Norbert Gee*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE  
 STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION**

Syed Kazmi  
 PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC  
 BENT 2 AND 4 DETAILS**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

UNIT: 0743  
PROJECT NUMBER & PHASE: 04000007591

CONTRACT No.: 04-272824

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-09-22 11-9-20 10-29-21 03-14-22	11	26

DATE PLOTTED => \$DATE USERNAME => \$USER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	122	136

*Jan M Hueser* 08-09-22  
REGISTERED CIVIL ENGINEER DATE

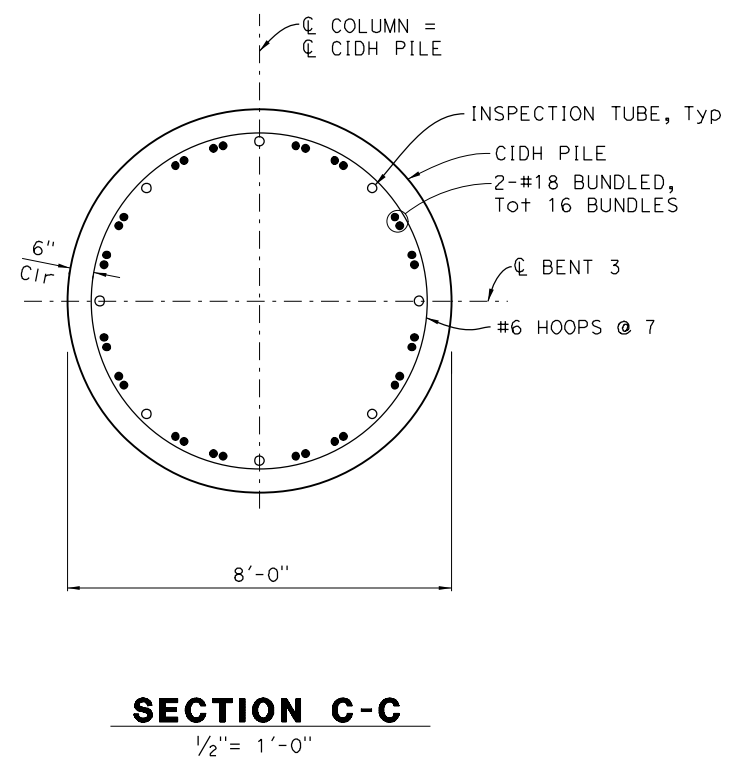
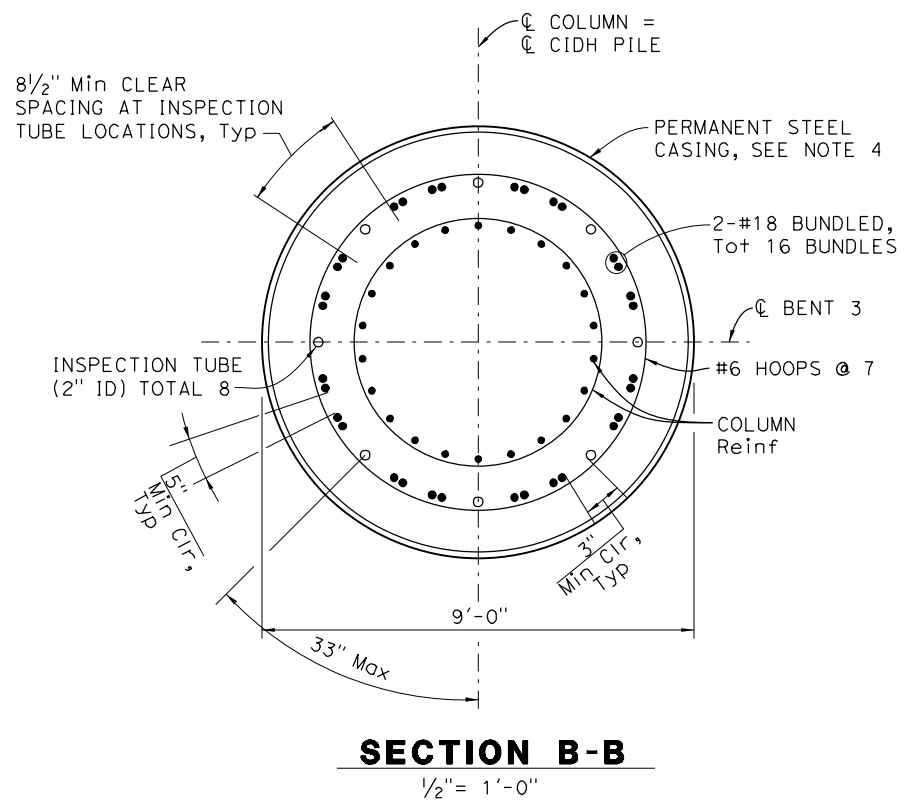
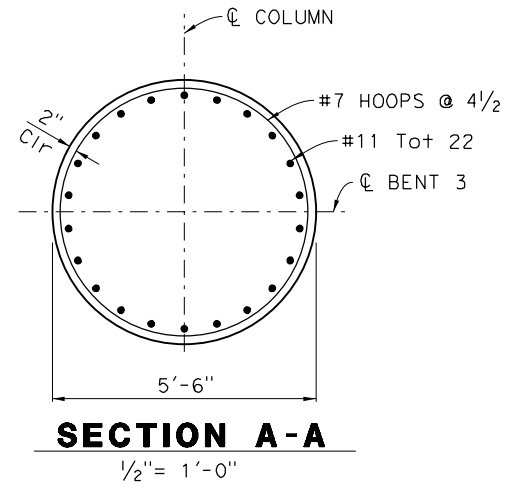
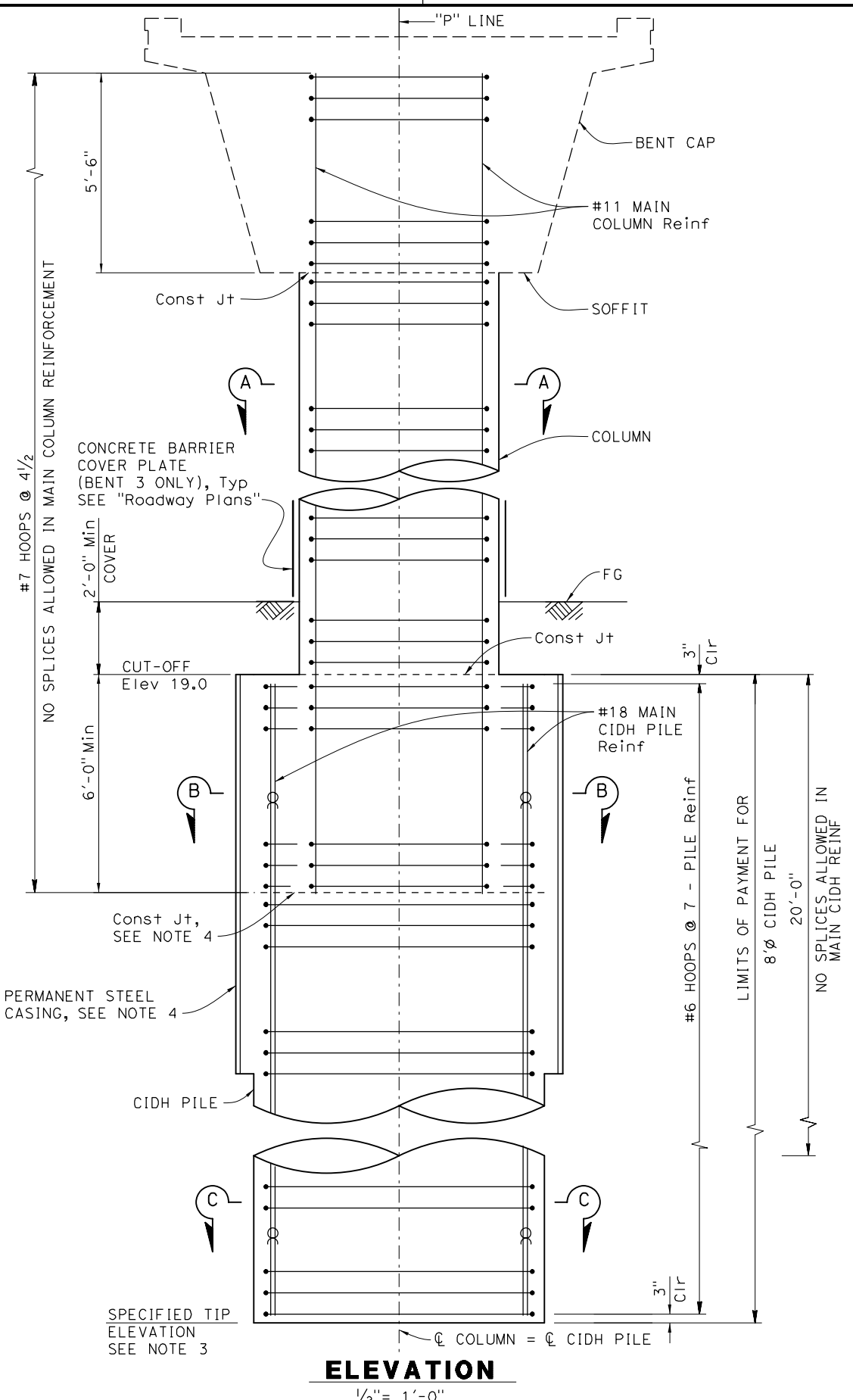
9-30-22  
PLANS APPROVAL DATE

Jan Hueser  
No. C050215  
Exp. 6-30-23  
CIVIL  
STATE OF CALIFORNIA

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CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303

AECOM  
2020 L STREET, SUITE 400  
SACRAMENTO, CA 95811



- NOTES:**
- All hoops are ultimate butt splice.
  - Only staggered "Ultimate" butt splices are allowed in CIDH Pile reinforcement.
  - For tip elevations, see Pile Data Table on "Foundation Plan" Sheet.
  - The contractor may elect to eliminate the construction joint and the permanent casing provided that the concrete above the specified tip for the permanent steel casing shown on the pile data table is not placed under slurry.

*Norbert Gee*  
DESIGN OVERSIGHT  
10/03/2022  
SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE  
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION**

Syed Kazmi  
PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC  
BENT 3 DETAILS**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



UNIT: 0743  
PROJECT NUMBER & PHASE: 04000007591

CONTRACT No.: 04-272824

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-09-22 11-9-20 10-29-21 03-04-22	12	26

DATE PLOTTED => \$DATE USERNAME => \$USER



**PRESTRESSING NOTES:**

270 ksi Low Relaxation Strands:

Pjack (Total) = 3960 kip

Anchor Set = 3/8"

Total Number of Girders = 2

Friction curvature coefficient,  $\mu$  = 0.15

Friction wobble coefficient, k = 0.0002/ft

Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 10 to 9.

Maximum final force variation between girders shall not exceed 725 kip. Tendons shall be arranged symmetrically in the structure.

Concrete:  $f'c$  = 5.0 ksi @ 28 days

$f'ci$  = 3.5 ksi @ time of stressing

Contractor shall submit elongation calculations

based on initial stress at = 0.857 times jacking stress

Two end stressing shall be used

**LEGEND:**

☒ Indicates theoretical point of no movement

☐ Indicates girder stem thickness in inches see (B7-1/S-3)

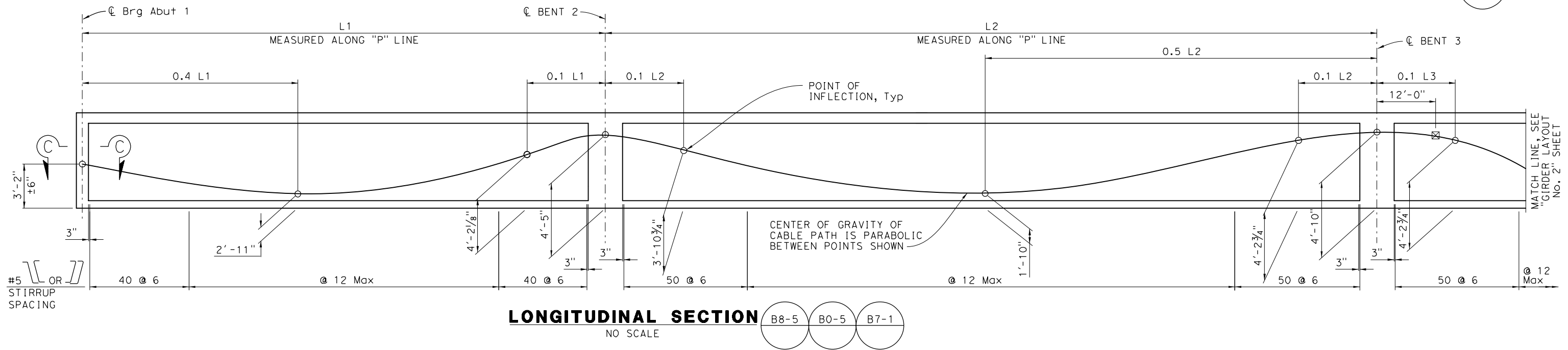
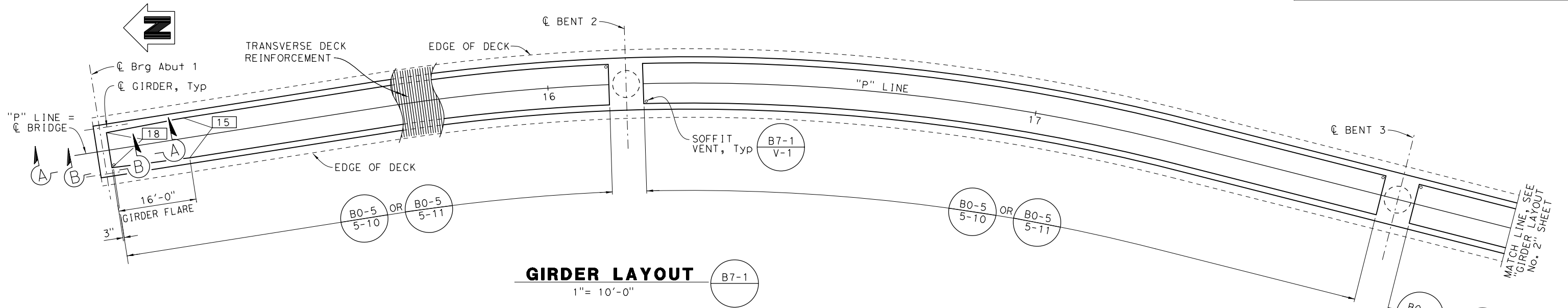
**NOTE:**

- For "SECTION A-A", "SECTION B-B", "SECTION C-C" and "CAMBER DIAGRAM", see "GIRDER DETAILS No. 1" sheet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	124	136

*Jan M. Hueser* 08-09-22  
 REGISTERED CIVIL ENGINEER DATE  
 9-30-22  
 PLANS APPROVAL DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 Jan Hueser  
 No. C050215  
 Exp. 6-30-23  
 CIVIL  
 STATE OF CALIFORNIA

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
 AECOM  
 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811



*Norbert Gee*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE**  
**STATE OF CALIFORNIA**  
**DEPARTMENT OF TRANSPORTATION**

Syed Kazmi  
 PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC**  
**GIRDER LAYOUT No. 1**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
---	---	---	---

UNIT: 0743  
 PROJECT NUMBER & PHASE: 04000007591

CONTRACT No.: 04-272824

REVISION DATES	SHEET	OF
08-09-22 11-9-20 10-29-21 03-04-22	14	26

DATE PLOTTED => \$DATE  
 USERNAME => \$USER

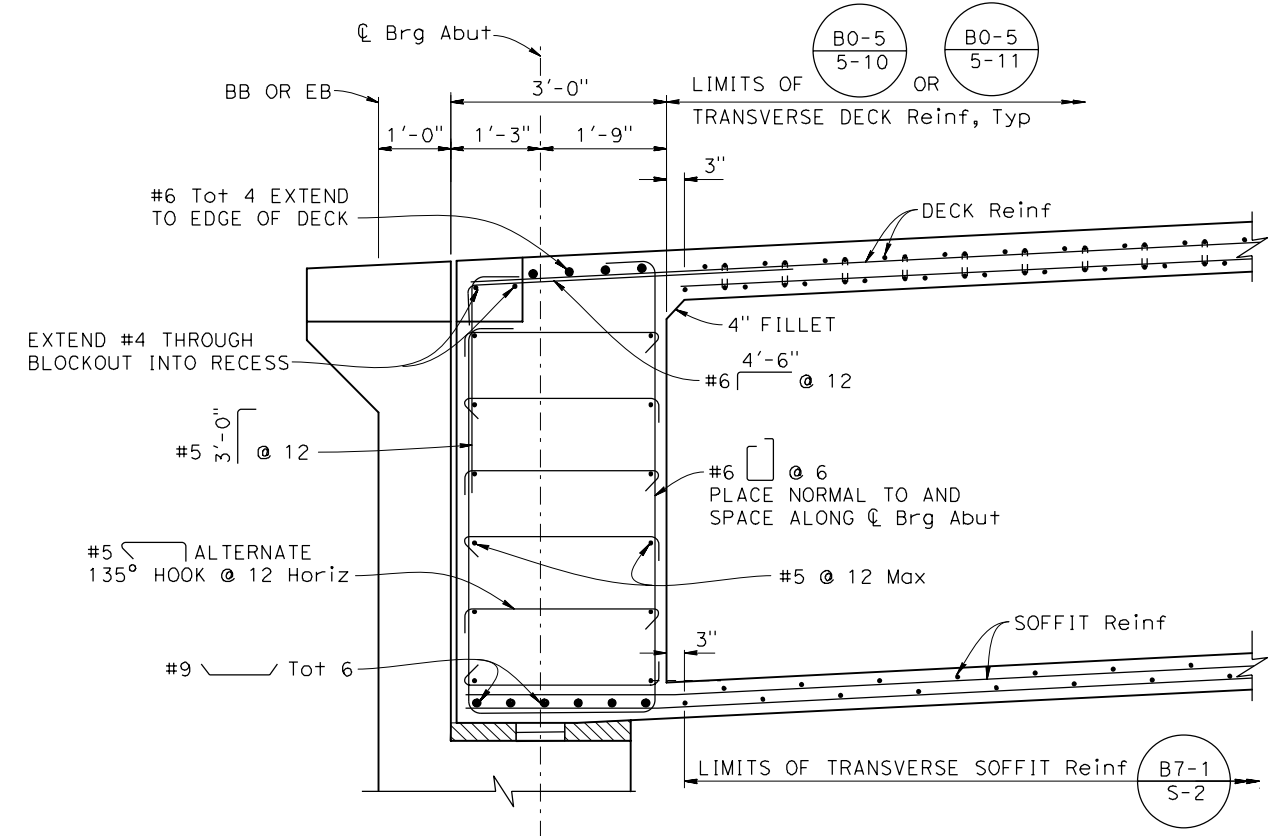


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	126	136

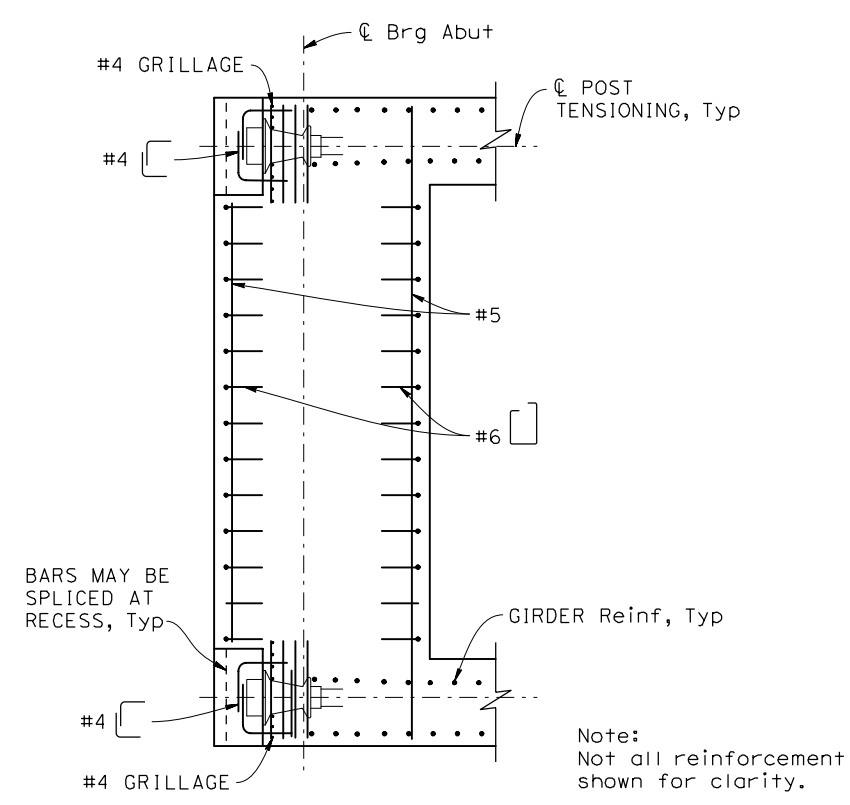
*Jan M Hueser*  
 REGISTERED CIVIL ENGINEER  
 DATE 08-09-22  
 9-30-22  
 PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
 Jan Hueser  
 No. C050215  
 Exp. 6-30-23  
 CIVIL  
 STATE OF CALIFORNIA

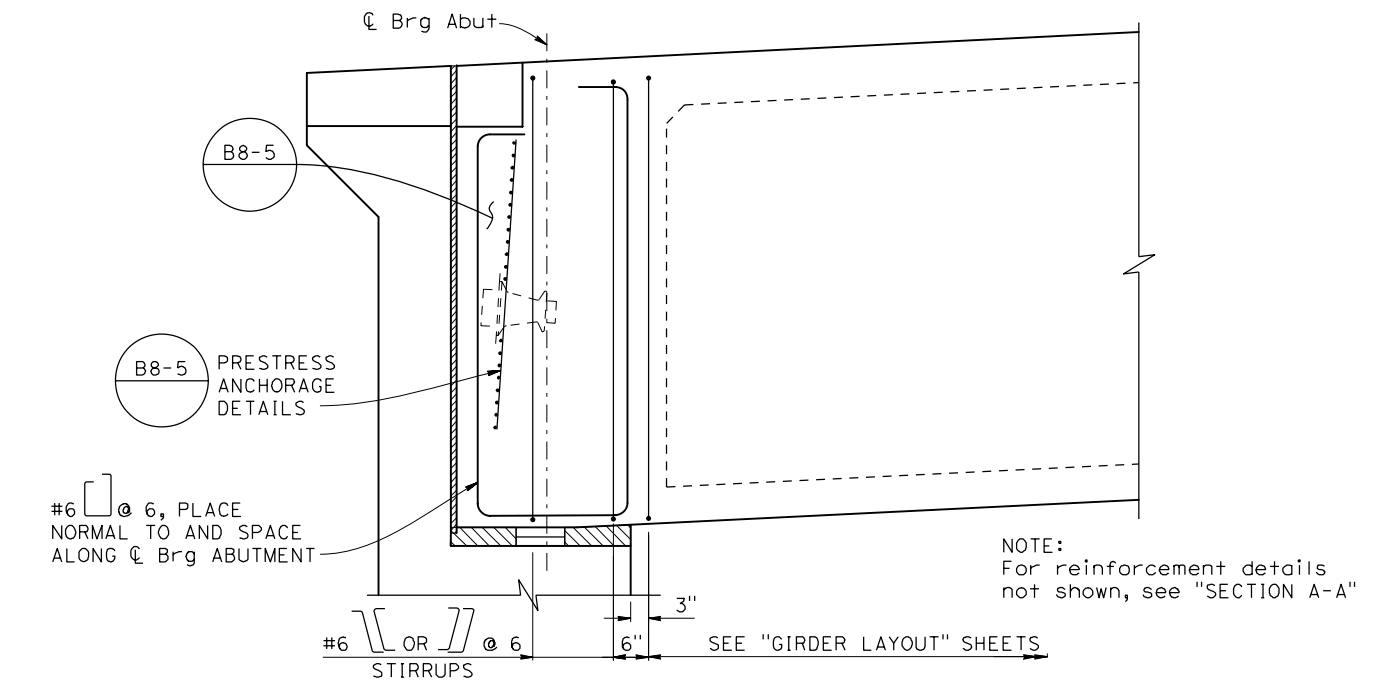
CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
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 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811



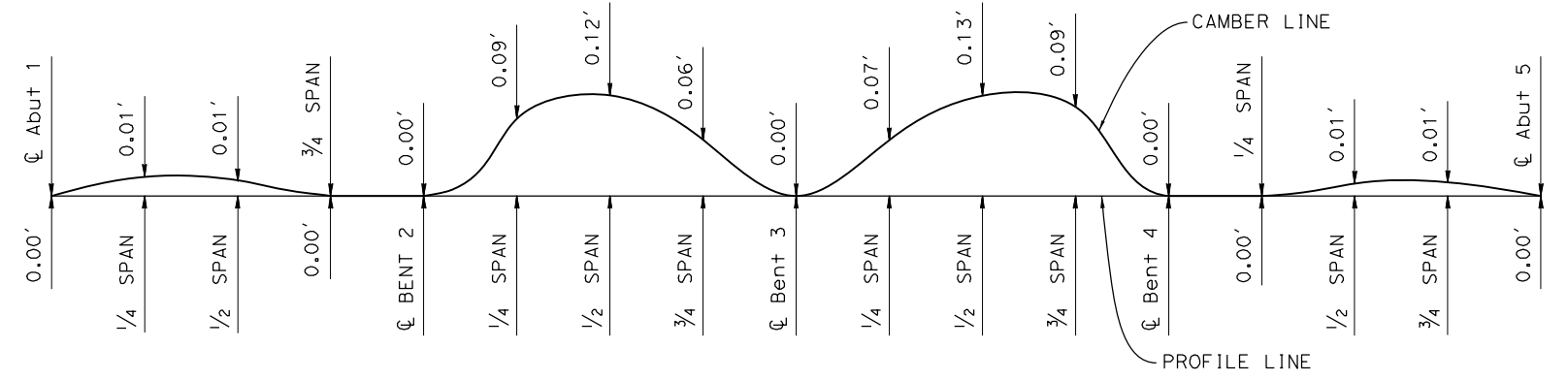
**SECTION A-A**  
3/4" = 1'-0"



**SECTION C-C**  
3/4" = 1'-0" B8-5



**GIRDER STIRRUPS LAYOUT - SECTION B-B**  
3/4" = 1'-0"



**CAMBER DIAGRAM**

No Scale  
(Does not include allowance for falsework settlement)

- NOTE:**
- For locations of sections A-A, B-B, and C-C, see "GIRDER LAYOUT No. 1" AND "GIRDER LAYOUT No. 2" sheets.

*Norbert Gee*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE  
 STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION**

Syed Kazmi  
 PROJECT ENGINEER  
 BRIDGE NO. 35-0359  
 POST MILES 0.9

**UNIVERSITY AVENUE POC  
 GIRDER DETAILS No. 1**

DATE PLOTTED => \$TIME USERNAME => \$USER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	127	136

*Jan M Hueser* 08-09-22  
REGISTERED CIVIL ENGINEER DATE

9-30-22  
PLANS APPROVAL DATE

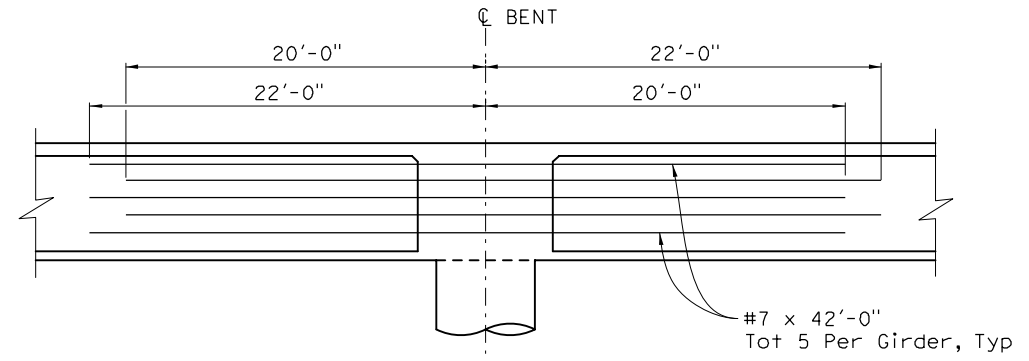
*Jan Hueser*  
No. C050215  
Exp. 6-30-23  
CIVIL  
STATE OF CALIFORNIA

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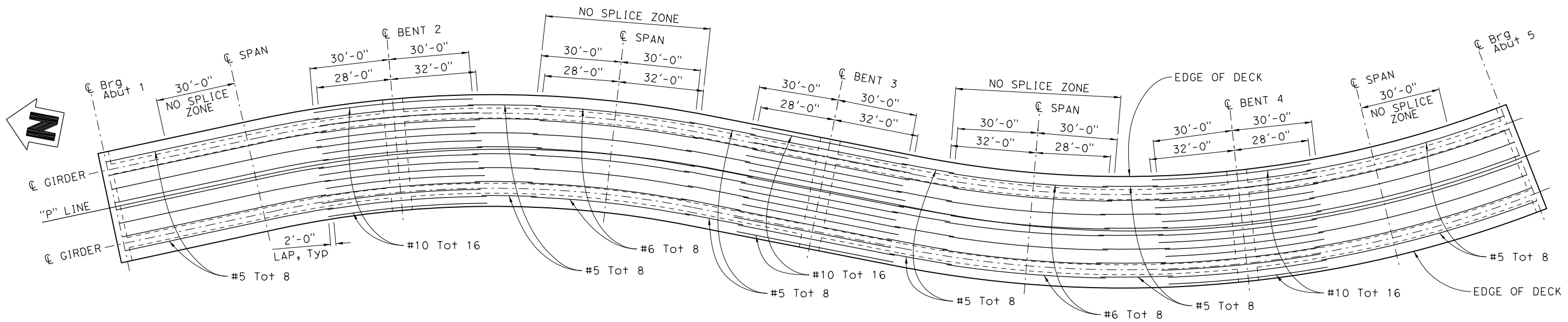
CITY OF EAST PALO ALTO  
1960 TATE STREET  
EAST PALO ALTO, CA 94303

AECOM  
2020 L STREET, SUITE 400  
SACRAMENTO, CA 95811

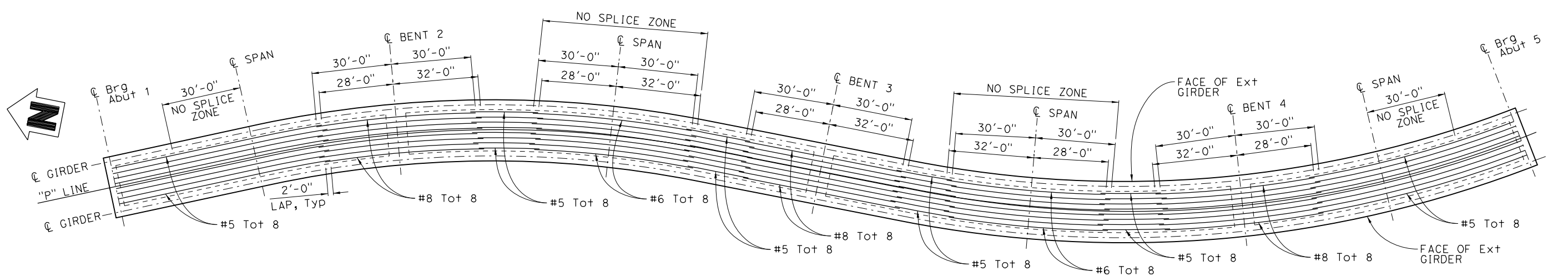
- NOTES:**
- Place all reinforcement parallel to  $\text{\textcircled{C}}$  Girder.
  - Not all reinforcement shown, see "TYPICAL SECTION" sheet.
  - No splices allowed in Additional Girder Reinforcement.



**ADDITIONAL GIRDER REINFORCEMENT  
(EXTERIOR FACE)**  
NO SCALE



**ADDITIONAL TOP LONGITUDINAL REINFORCEMENT**  
NO SCALE



**ADDITIONAL BOTTOM LONGITUDINAL REINFORCEMENT**  
NO SCALE

*Norbert Jee*  
DESIGN OVERSIGHT  
10/03/2022  
SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE  
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION**

Syed Kazmi  
PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC  
GIRDER REINFORCEMENT**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)



UNIT: 0743  
PROJECT NUMBER & PHASE: 04000007591

CONTRACT No.: 04-272824

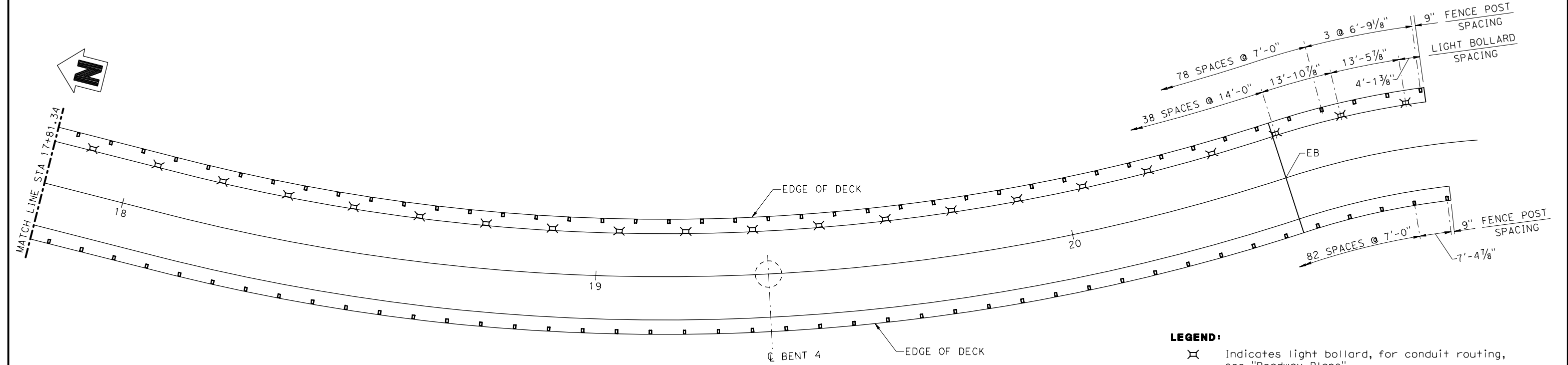
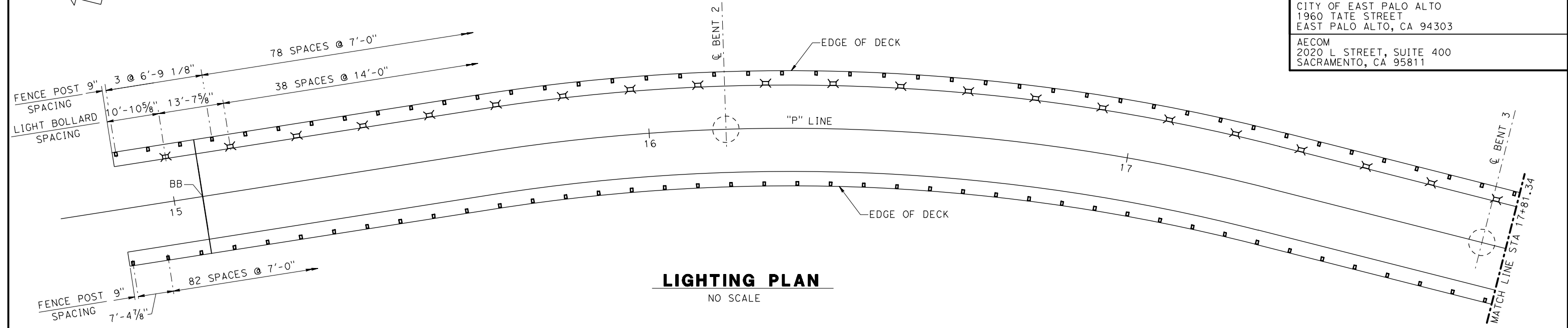
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	08-09-22 11-2-20 10-24-21 03-04-22	17	26

DATE PLOTTED => \$TIME USERNAME => \$USER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	128	136

*Jan M. Hueser* 08-09-22  
 REGISTERED CIVIL ENGINEER DATE  
 9-30-22  
 PLANS APPROVAL DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 Jan Hueser  
 No. C050215  
 Exp. 6-30-23  
 CIVIL  
 STATE OF CALIFORNIA

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
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 SACRAMENTO, CA 95811



**LEGEND:**

- ⊗ Indicates light bollard, for conduit routing, see "Roadway Plans"
- Indicates fence post

*Norbert Joo*  
 DESIGN OVERSIGHT  
 10/03/2022  
 SIGN OFF DATE

DESIGN	BY J. Hueser	CHECKED K. Lee
DETAILS	BY H. Sullivan	CHECKED K. Lee
QUANTITIES	BY J. Hueser	CHECKED S. Kwong

**PREPARED FOR THE STATE OF CALIFORNIA**  
**DEPARTMENT OF TRANSPORTATION**  
 Syed Kazmi  
 PROJECT ENGINEER

BRIDGE NO.	35-0359
POST MILES	0.9

**UNIVERSITY AVENUE POC**  
**BRIDGE LIGHTING PLAN**

DESIGN DETAIL SHEET (ENGLISH) (REV. 03/14/12)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 0743  
PROJECT NUMBER & PHASE: 04000007591

CONTRACT No.: 04-272824

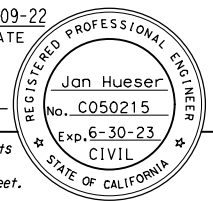
REVISION DATES	SHEET	OF
08-09-22 11-2-20 10-24-21 03-24-22	18	26

DATE PLOTTED => \$DATE USERNAME => \$USER

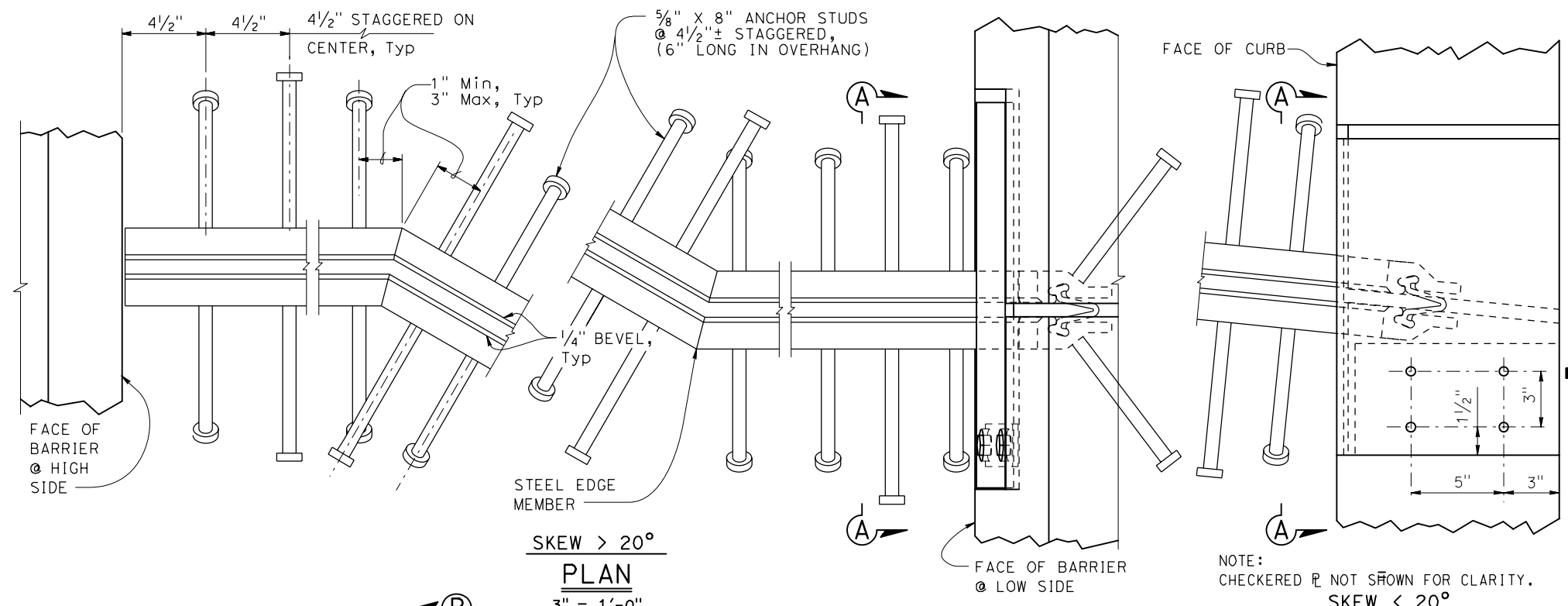


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	129	136

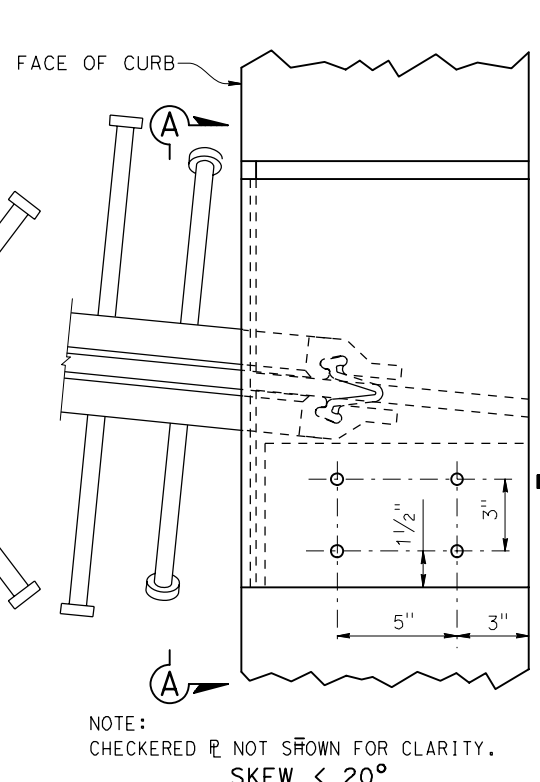
*Jan M. Hueser*  
 REGISTERED CIVIL ENGINEER  
 DATE 08-09-22  
 9-30-22  
 PLANS APPROVAL DATE  
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 2020 L STREET, SUITE 400  
 SACRAMENTO, CA 95811



**SKEW > 20°**  
**PLAN**  
 3" = 1'-0"

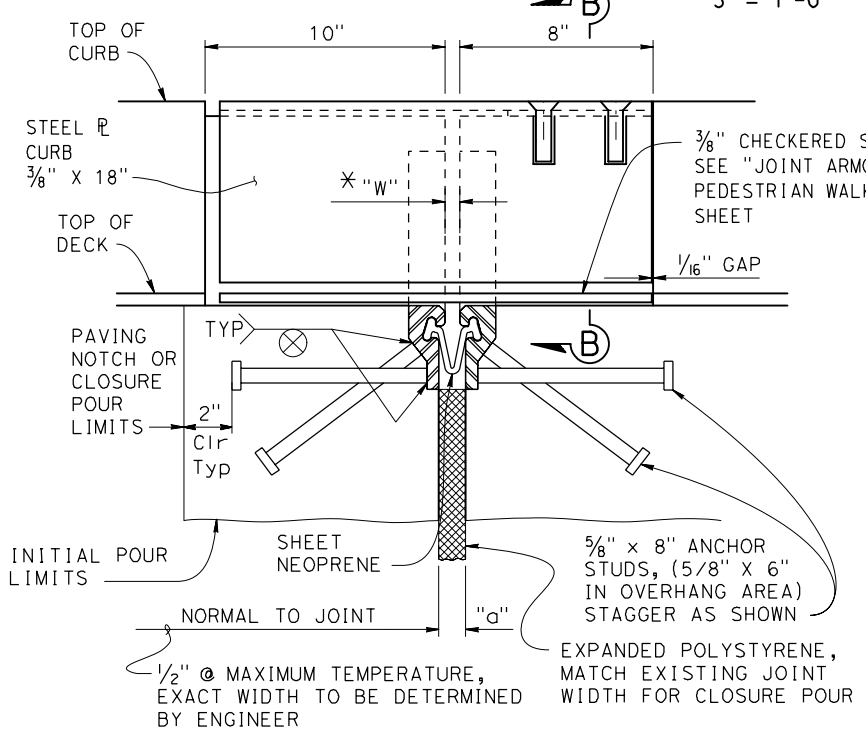


**SKEW < 20°**  
**PLAN**  
 3" = 1'-0"

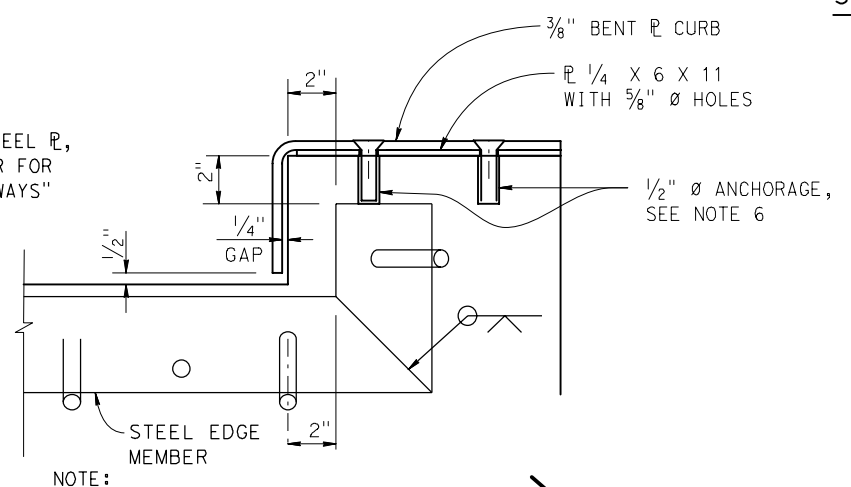
**SCHEMATIC**  
**STEEL EDGE MEMBER**  
 NO SCALE

**NOTES:**

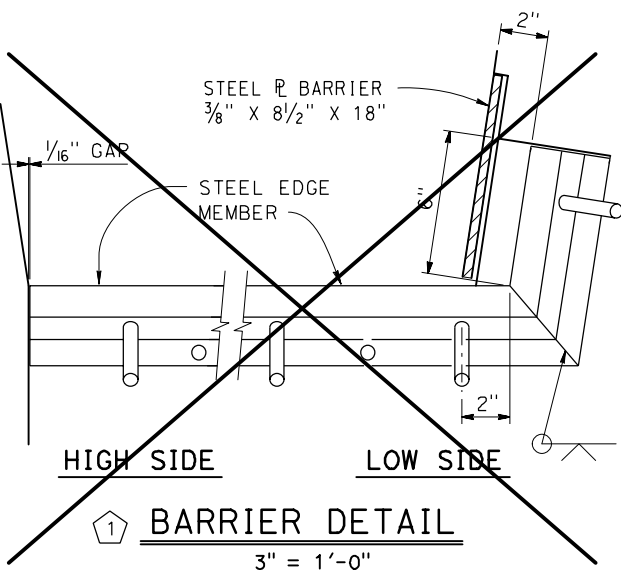
- Alternatively, fillet or complete penetration welds may be used at anchor studs.
- Alternate types of anchor studs may be permitted subject to the authorization by the Engineer.
- Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerances specified.
- Use joint at crown of roadway, at any change in transverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication.
- Sheet Neoprene shall be fabricated in one continuous piece and shall be fabricated to bend around corners. Field splices of the neoprene are not allowed.
- Insert assembly or expansion anchorage for 1/2" x 2 1/2" flathead cap screws. Use installation bolts extended 1/2" minimum past nut and coat with bond breaker, after concrete has cured, remove installation bolts, install A449 cap screws using a threadlocking compound.
- Use sidewalk detail at all sidewalk joints. Use barrier detail low side at both sides if the roadway is crowned, or if the difference in elevation between the ends of the seal is 6 inches or less.
- a<sub>c</sub>, a<sub>s</sub>, are the thermal expansion coefficients for concrete and steel respectively.
- Anchor studs shall conform to ASTM A108.



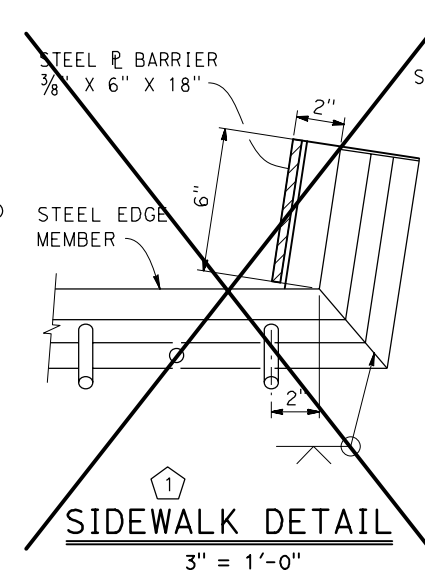
**SECTION A-A**  
 3" = 1'-0"



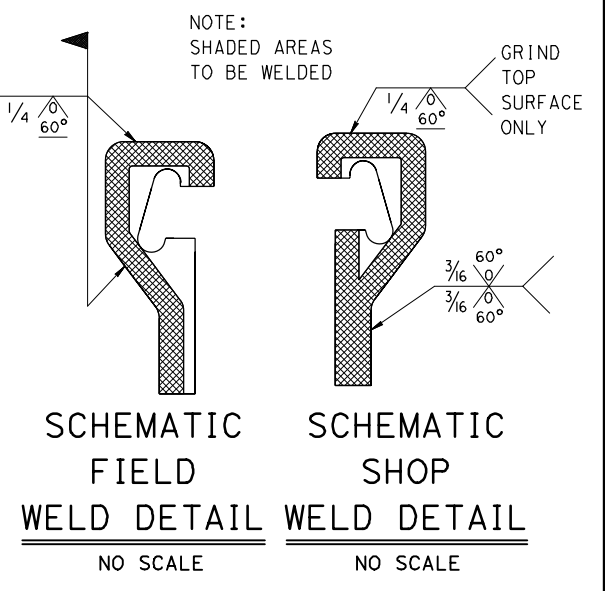
**SECTION B-B**  
 3" = 1'-0"



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



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



**SCHEMATIC FIELD WELD DETAIL**  
 NO SCALE  
**SCHEMATIC SHOP WELD DETAIL**  
 NO SCALE

JOINT INFORMATION			"a" DIMENSIONS		
LOCATION	MOVEMENT RANGE (MR)	SKEW	WINTER	SPRING & FALL	SUMMER
ABUT 1	3 1/2"	0	1 3/4"	1 3/8"	7/8"
ABUT 5	3 1/2"	0	1 3/4"	1 3/8"	7/8"

\* TO SET MINIMUM JOINT OPENING "W"

$$"W" = \begin{cases} 1/2" \text{ Minimum} \\ a_c = 0.0000060 \\ a_s = 0.0000065 \\ 1/2" + [(Max \text{ Str temperature in } ^\circ F) - (actual \text{ Str temperature in } ^\circ F)] * (a_c \text{ or } a_s) * (12) * (\text{contributory L in feet}) \end{cases}$$

**BRIDGE STANDARD DETAILS**

**x88-010**  
 FILE NO.  
 October 2019  
 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.

**MODIFICATIONS SHOWN:**

- 1 DELETED DETAIL
- 2 REVISED DETAIL
- 3 REVISED NOTES

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION  
**DIVISION OF ENGINEERING SERVICES**

BRIDGE NO.  
 35-0359  
 POST MILES  
 0.9

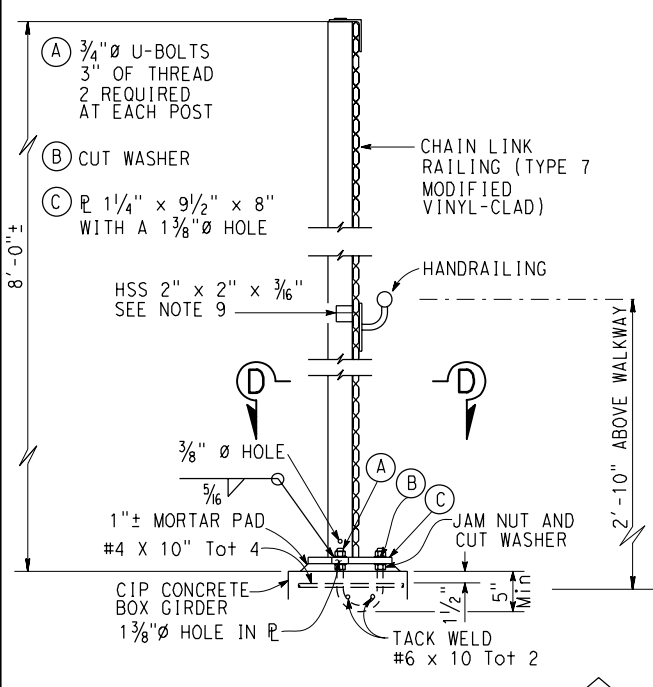
**SPECIAL DETAILS**  
**UNIVERSITY AVENUE POC**  
**STRIP JOINT SEAL ASSEMBLY**  
**MAXIMUM MOVEMENT RATING = 4"**



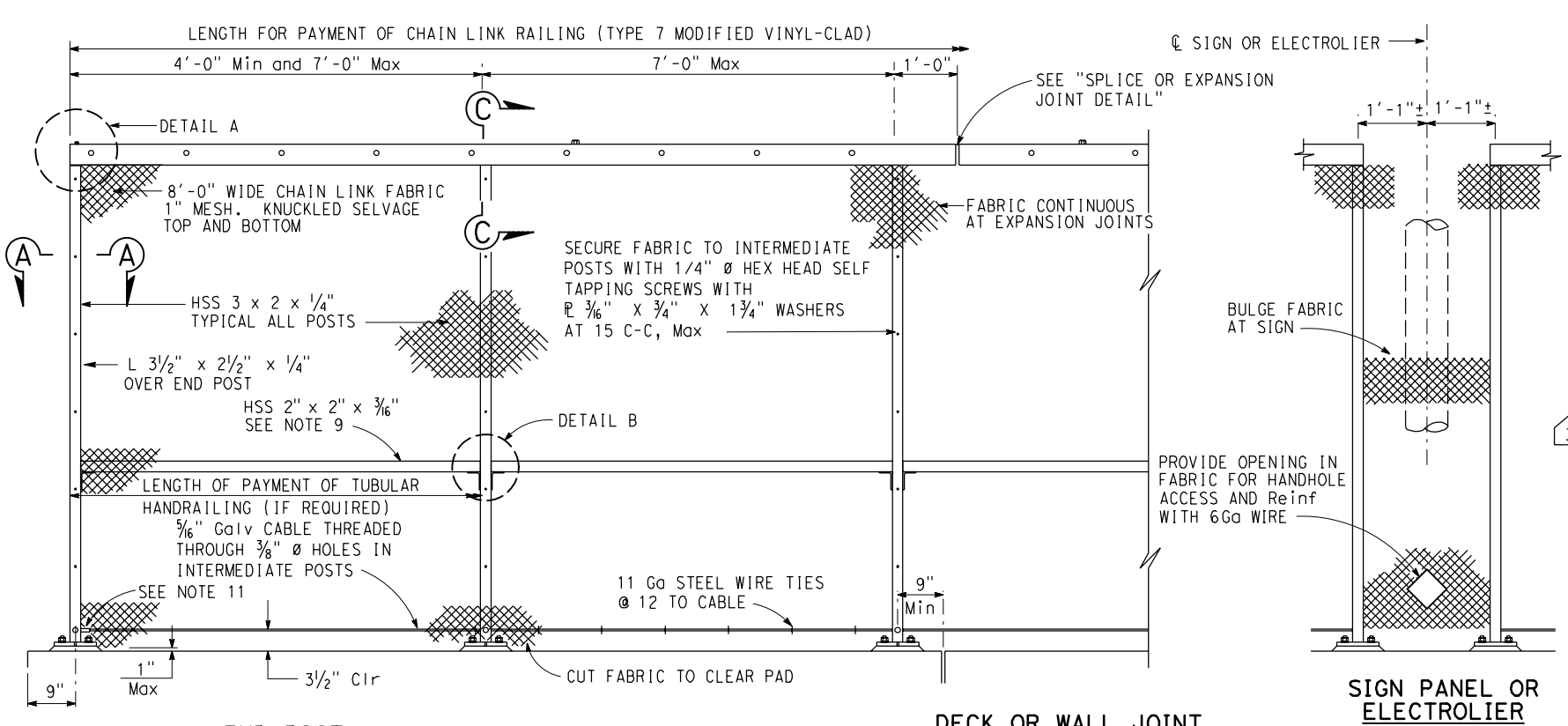
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	131	136

Jan M. Hueser  
 REGISTERED CIVIL ENGINEER  
 08-09-22 DATE  
 9-30-22 PLANS APPROVAL DATE  
 No. C050215  
 Exp. 6-30-23  
 CIVIL  
 STATE OF CALIFORNIA

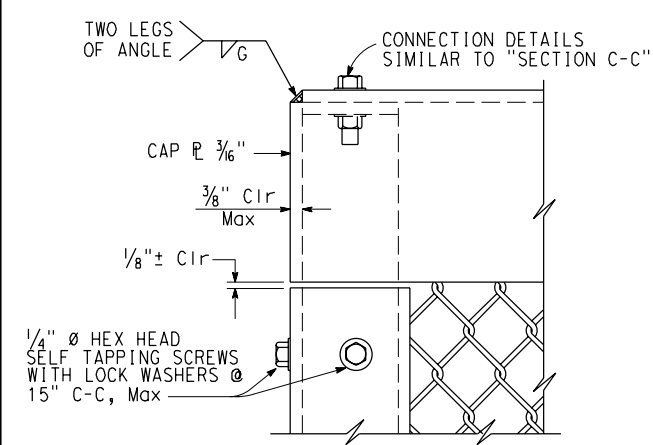
CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
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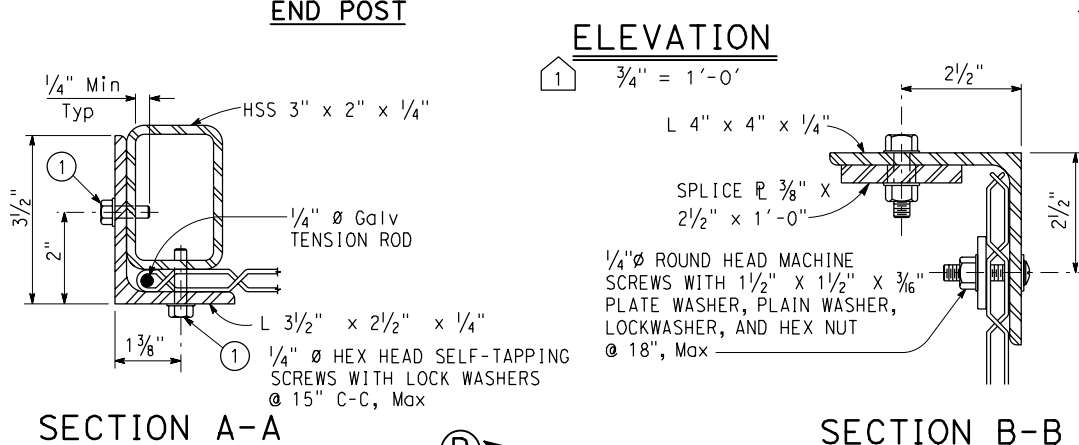
**TYPICAL POST DETAIL**  
1" = 1'-0"



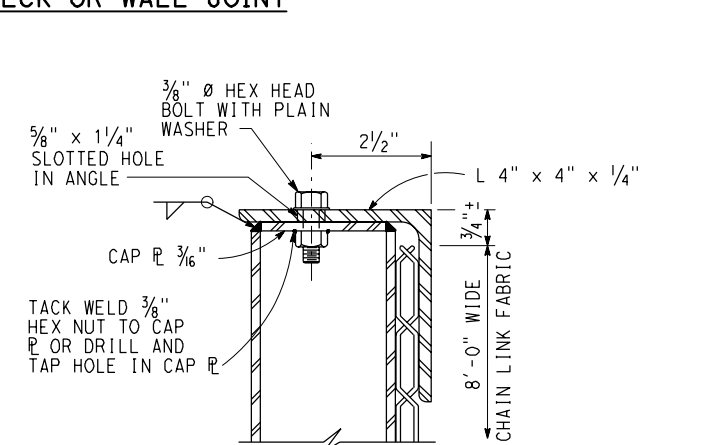
**ELEVATION**  
3/4" = 1'-0"



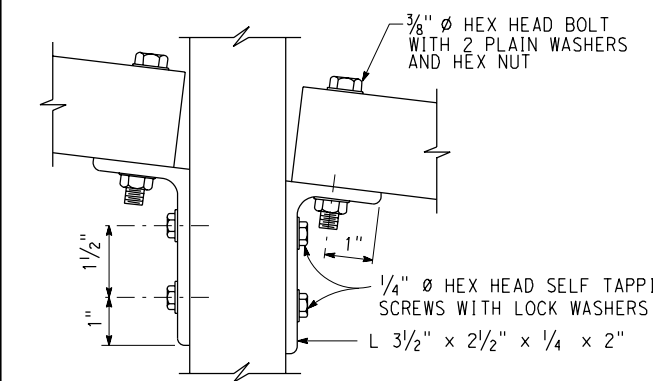
**DETAIL A**  
6" = 1'-0"



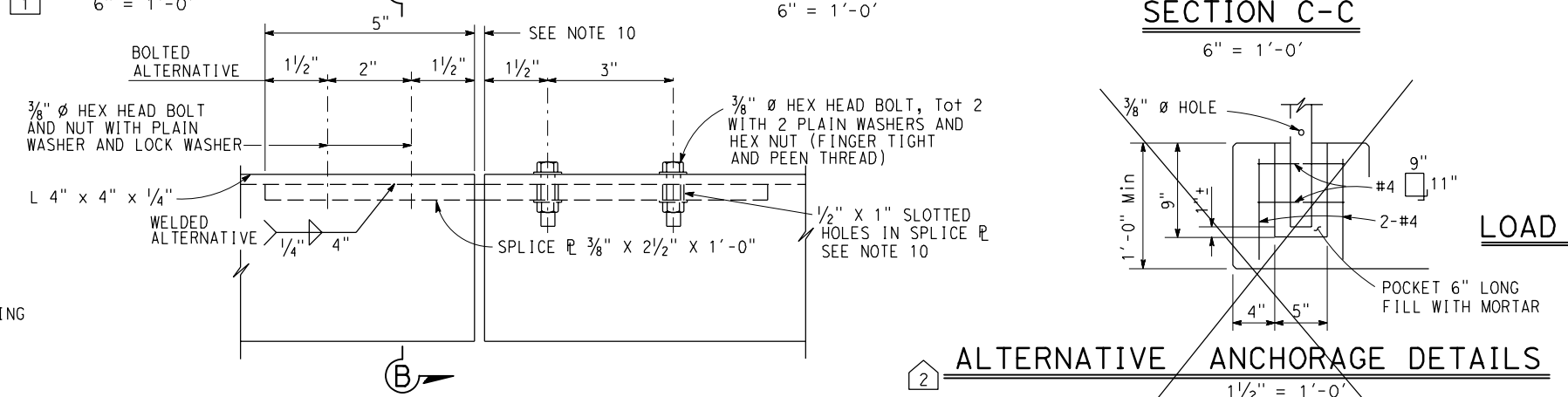
**SECTION A-A** and **SECTION B-B**  
6" = 1'-0"



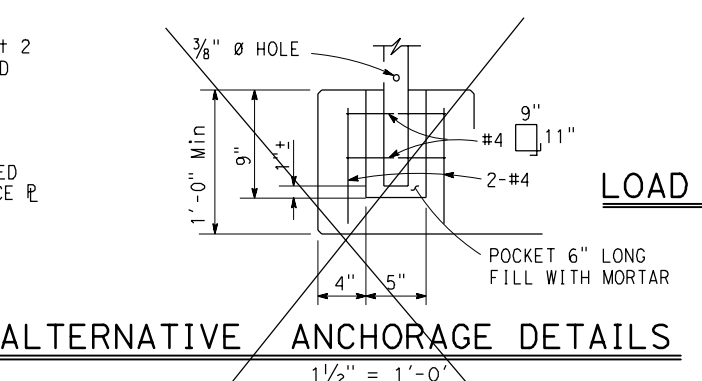
**SECTION C-C**  
6" = 1'-0"



**DETAIL B**  
6" = 1'-0"



**SPLICE OR EXPANSION JOINT DETAIL**  
6" = 1'-0"



**ALTERNATIVE ANCHORAGE DETAILS**  
1/2" = 1'-0"

- NOTES:**
- Railing assembly except chain link fabric to be galvanized after fabrication
  - Railing must conform to horizontal and vertical alignment. Post must be vertical. Horizontal angle must be bent to conform to horizontal alignment if radius is 150'-0" or less.
  - Horizontal angle shall be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints and other rail discontinuities.
  - When railing is placed on curved horizontal alignment with radius of 150'-0" or less, drill 1/2" x 3" deep hole in slab and set in epoxy adhesives 3/8" welded eyebolt for 5/16" cable to limit the mid-ordinate distance between the 5/16" cable and curve to be 1" Max.
  - Place fabric parallel to slope.
  - Alternative details may be submitted by the Contractor for Engineer's approval.
  - Provide thimbles at all cable loops.
  - Peen all exposed bolts.
  - HSS 2" x 2" x 3/16" required for curves with radius of 150'-0" or less. Bend to conform to curve.
  - Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length and splice length correspondingly.
  - Anchor 5/16" galvanized cable at end post and end posts adjacent to electrolier openings of deck or wall joints with 1/2" stud socket assembly or 1/2" welded eyebolt and crimped sleeve clamp. Provide 1/2" minimum take-up at each anchorage.
  - Design valid for bridges with the top of chain link railing type 7 (Mod) equal to or less than 260" height above surrounding ground surfaces.
  - For Section D-D, see "CHAIN LINK RAILING (TYPE 7 Modified Vinyl-Clad) DETAILS No. 2" sheet

**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:**  
 HSS:  $f_y = 50\text{ksi}$

**SPECIAL DETAILS**

**UNIVERSITY AVENUE POC**  
**CHAIN LINK RAILING (TYPE 7 MODIFIED VINYL-CLAD) DETAILS No. 1**

**BRIDGE STANDARD DETAILS**

xs16-220-1	July 2020	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	

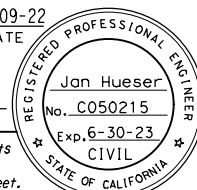
**MODIFICATIONS SHOWN:**

1	REVISED DETAIL	3	REVISED NOTES
2	DELETED DETAIL		

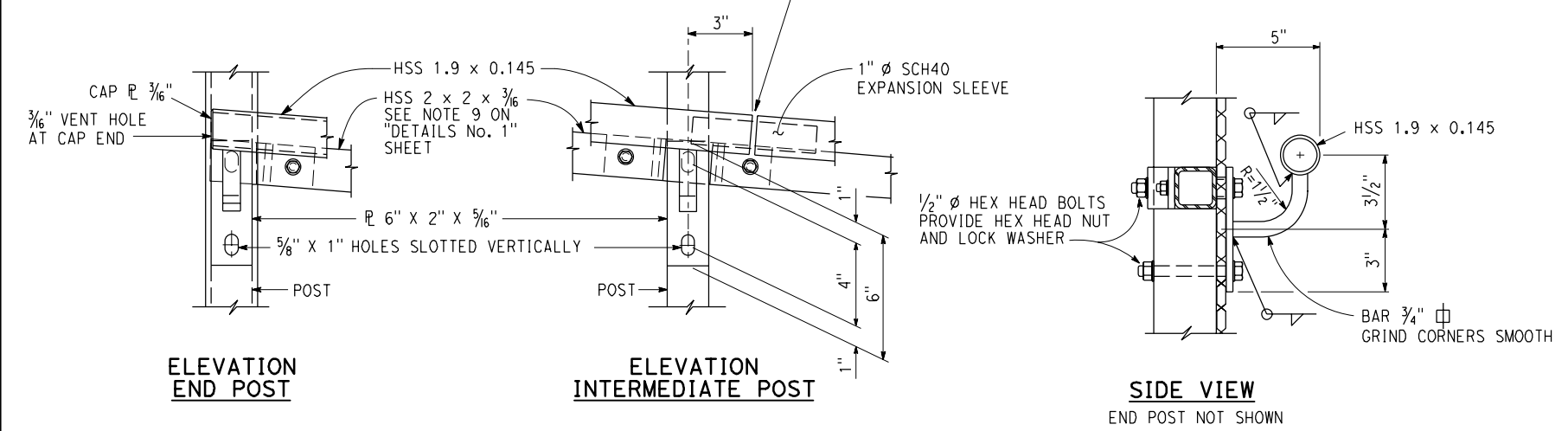
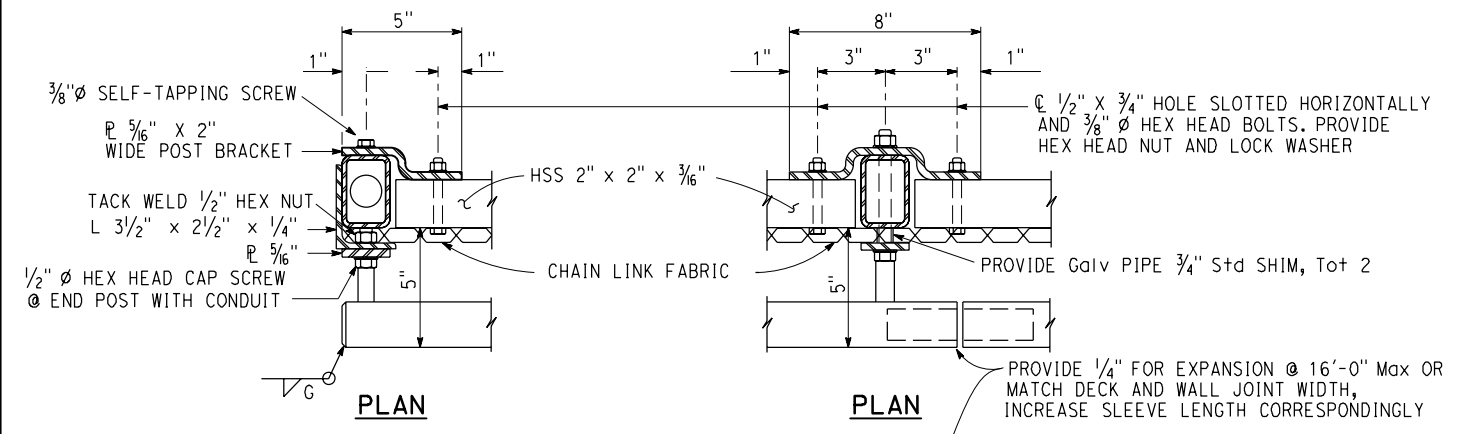
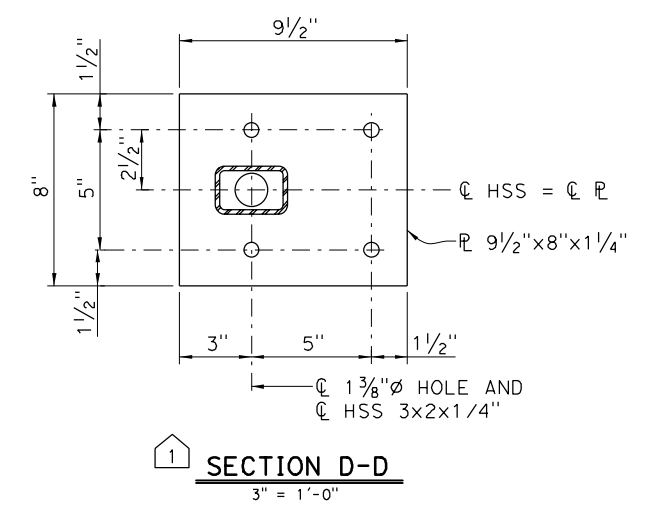
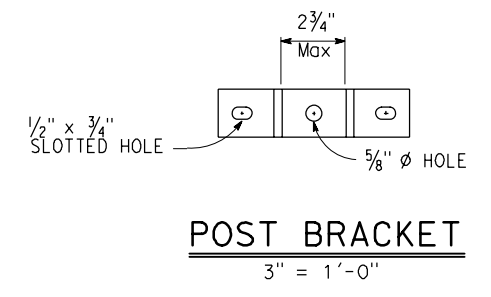
**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION  
**DIVISION OF ENGINEERING SERVICES**  
 BRIDGE NO. 35-0359  
 POST MILES 0.9

REVISION DATES	SHEET	OF
08-09-22 11-9-20 10-29-21 03-10-22	21	26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	132	136


 08-09-22  
 REGISTERED CIVIL ENGINEER DATE  
 9-30-22  
 PLANS APPROVAL DATE  
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CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303  
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 SACRAMENTO, CA 95811



**TUBULAR HANDRAILING BRACKET DETAILS**  
NO SCALE

- NOTES:**
1. FOR TYPICAL POST DETAIL, SEE "CHAIN LINK RAILING (TYPE 7 MODIFIED VINYL-CLAD) DETAILS No. 1" SHEET.
  2. FOR LOCATION OF SECTION D-D, SEE "CHAIN LINK RAILING (TYPE 7 MODIFIED VINYL-CLAD) DETAILS No. 1" SHEET.

<b>BRIDGE STANDARD DETAILS</b> <b>xs16-220-2</b> 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.	<b>MODIFICATIONS SHOWN:</b> 1 ADDED DETAIL 2 ADDED NOTES	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF ENGINEERING SERVICES</b>	BRIDGE NO. 35-0359 POST MILES 0.9	<b>SPECIAL DETAILS</b> <b>UNIVERSITY AVENUE POC</b> <b>CHAIN LINK RAILING (TYPE 7 MODIFIED VINYL-CLAD) DETAILS No. 2</b>	
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>				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 0743 PROJECT NUMBER & PHASE: 04000007591	CONTRACT No.: 04-272824	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 08-09-22 11-2-20 10-29-21 03-20-22	SHEET OF 22 26

TIME PLOTTED => \$DATE  
 DATE PLOTTED => \$DATE  
 USERNAME => \$USER

**BENCH MARK**

All elevations based on vertical datum NAVD88.  
All stations and offsets based on horizontal datum NAD83.

**NOTES**

1. This LOTB Sheet was prepared in accordance with the Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010).

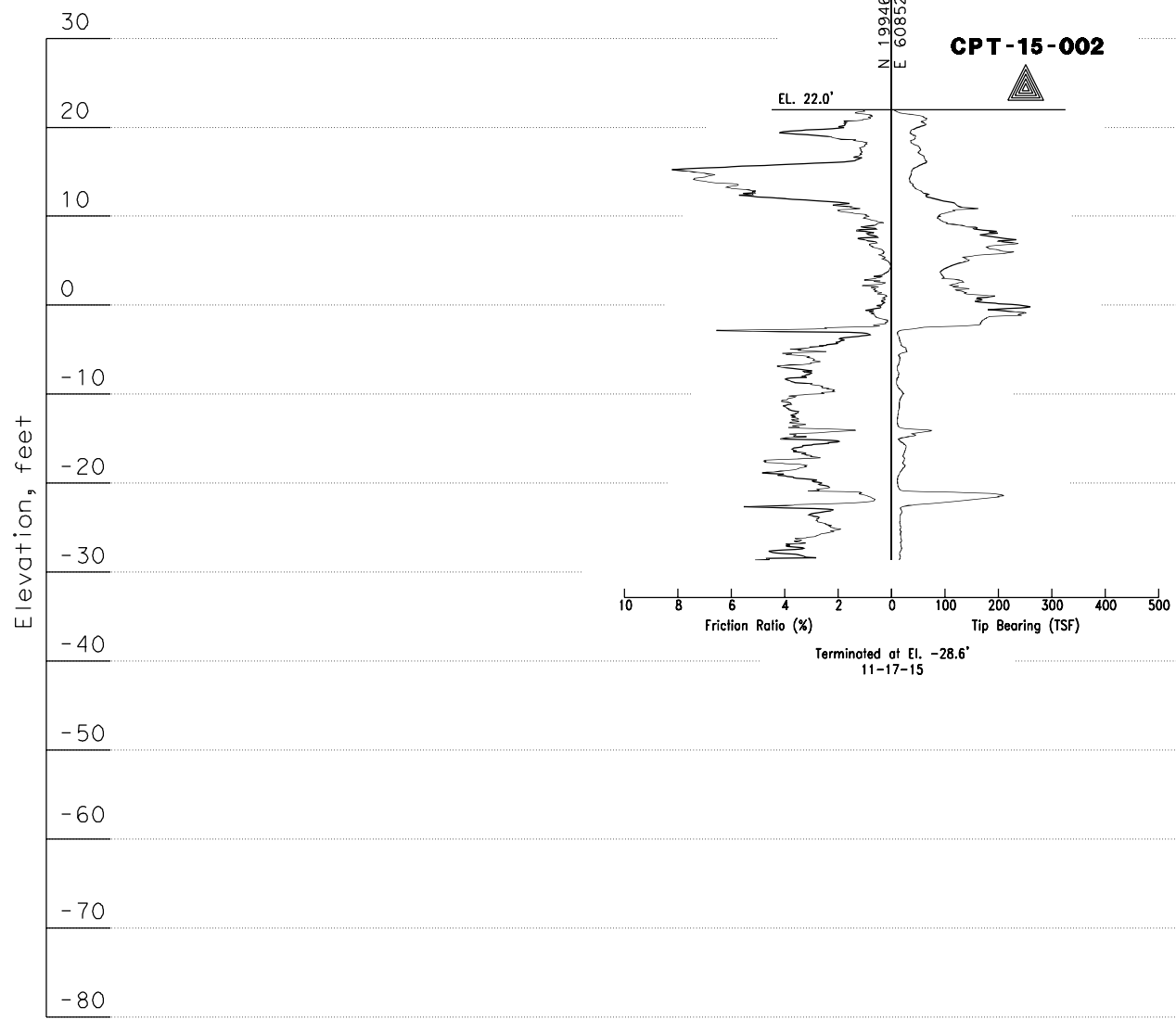
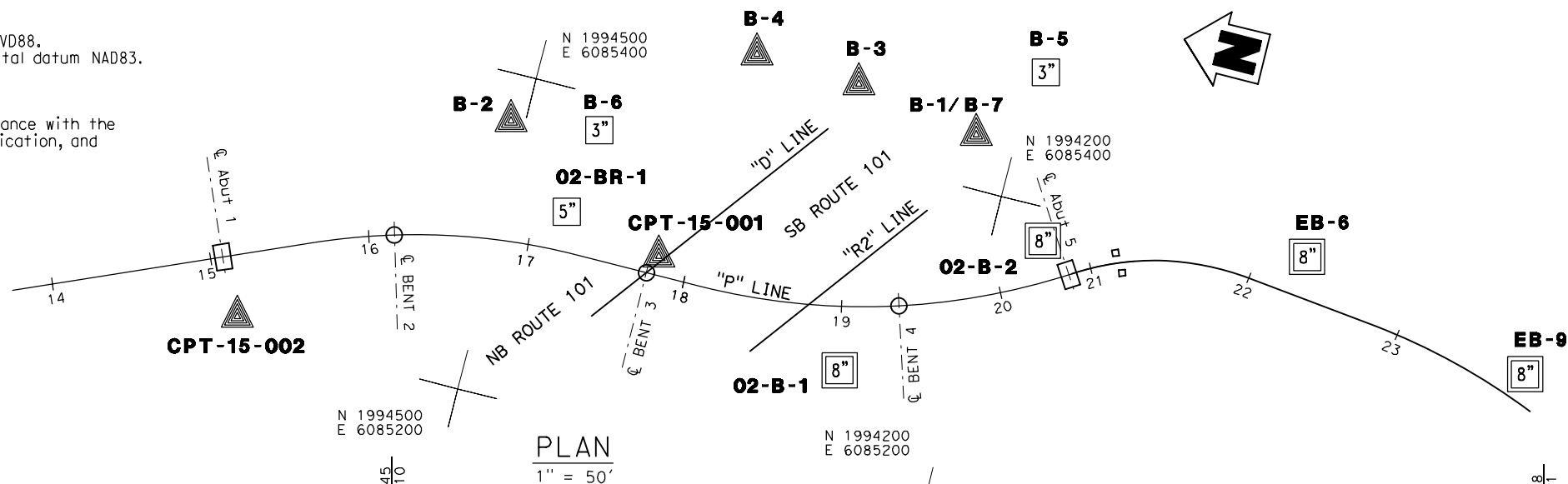
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	0.8/1.1	133	136

08-09-22  
 GEOTECHNICAL PROFESSIONAL DATE  
 9-30-22  
 PLANS APPROVAL DATE  
 Stephen Huang  
 No. C 42289  
 Exp. 3-31-22  
 CIVIL  
 STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CITY OF EAST PALO ALTO  
 1960 TATE STREET  
 EAST PALO ALTO, CA 94303

AECOM  
 4 N. Second Street, Suite 675  
 SAN JOSE, CA 95113

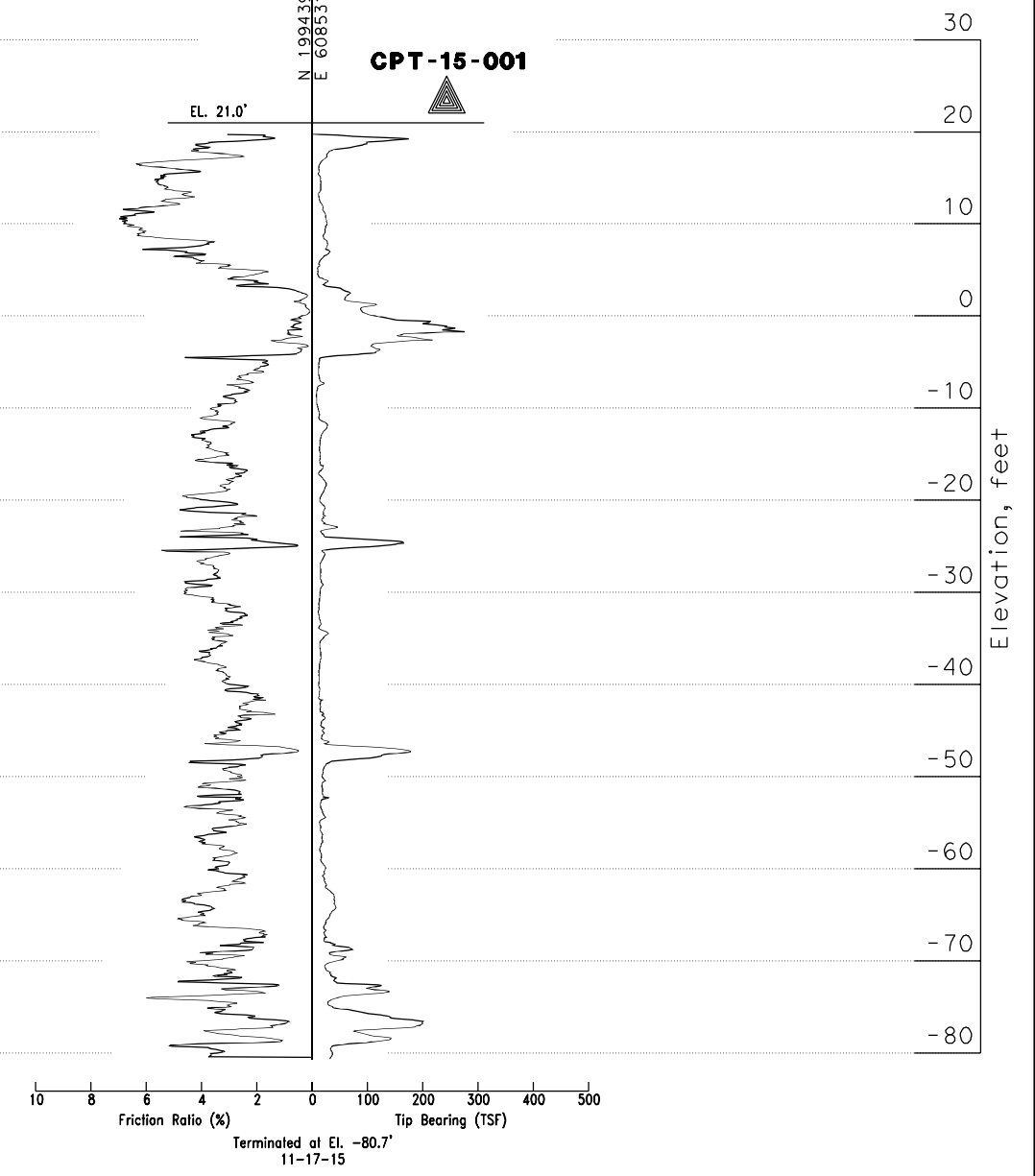


PROJECT EXPLORATION LOCATION TABLE

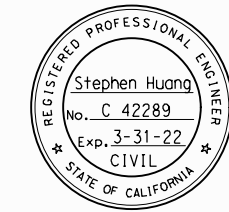
Hole ID	Alignment Name	Station and Offset
CPT-15-002	"P" LINE	15+11 38' Rt
CPT-15-001	"P" LINE	17+81 12' Lt

HISTORIC EXPLORATION LOCATION TABLE

Hole ID	Alignment Name	Station and Offset
EB-9	"P" LINE	23+75 10' Lt
EB-6	"P" LINE	22+30 25' Lt
O2-BR-1	"P" LINE	17+20 25' Lt
O2-B-1	"P" LINE	19+00 40' Rt
O2-B-2	"P" LINE	20+75 25' Lt
B1/B7	"P" LINE	20+50 100' Lt
B-2	"P" LINE	16+75 75' Lt
B-3	"P" LINE	19+10 140' Lt
B-4	"P" LINE	18+10 150' Lt
B-5	"P" LINE	21+00 125' Lt
B-6	"P" LINE	17+30 75' Lt



Norbert Gee DESIGN OVERSIGHT 10/03/2022 SIGN OFF DATE	DRAWN BY E. Garnica	CHECKED BY A. M. Moore	Stacy Ball FIELD INVESTIGATION BY: DATE: 11/2015	PREPARED FOR THE <b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	S. Huang PROJECT ENGINEER	BRIDGE NO. 35-0359 POST MILES 0.9	<b>UNIVERSITY AVENUE POC</b> <b>LOG OF TEST BORINGS 1 OF 4</b>
GS GEOTECHNICAL LOG OF TEST BORINGS SHEET (ENGLISH) (REV. 7/16/10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: PROJECT NUMBER & PHASE: 04000007591	CONTRACT NO.: 04-272824	DISREGARD PRINTS BEARING EARLIER REVISION DATES
				0	1	2	3
				REVISION DATES 10-29-21 08-09-22		SHEET 23	OF 26

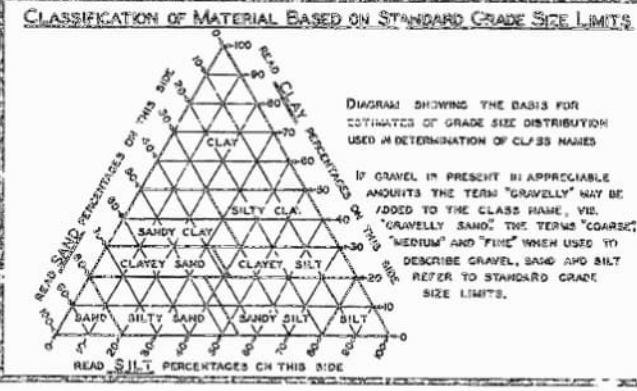
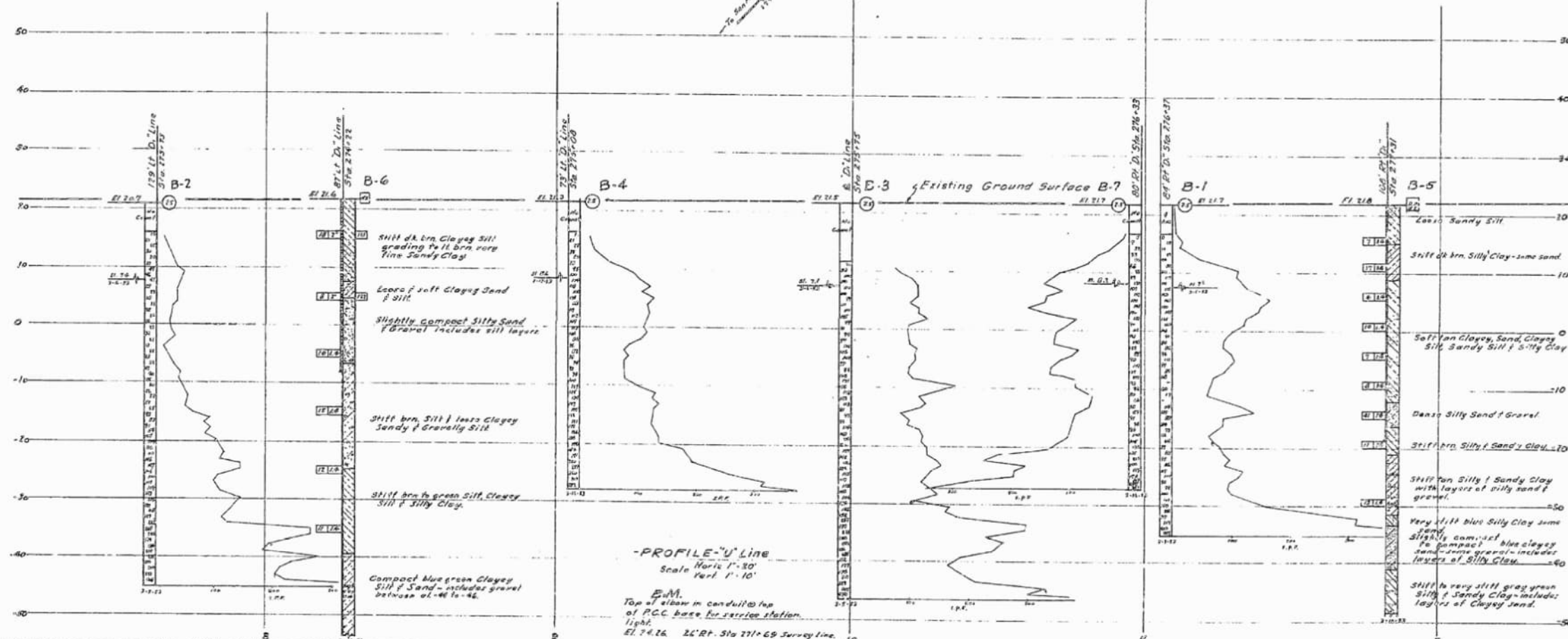
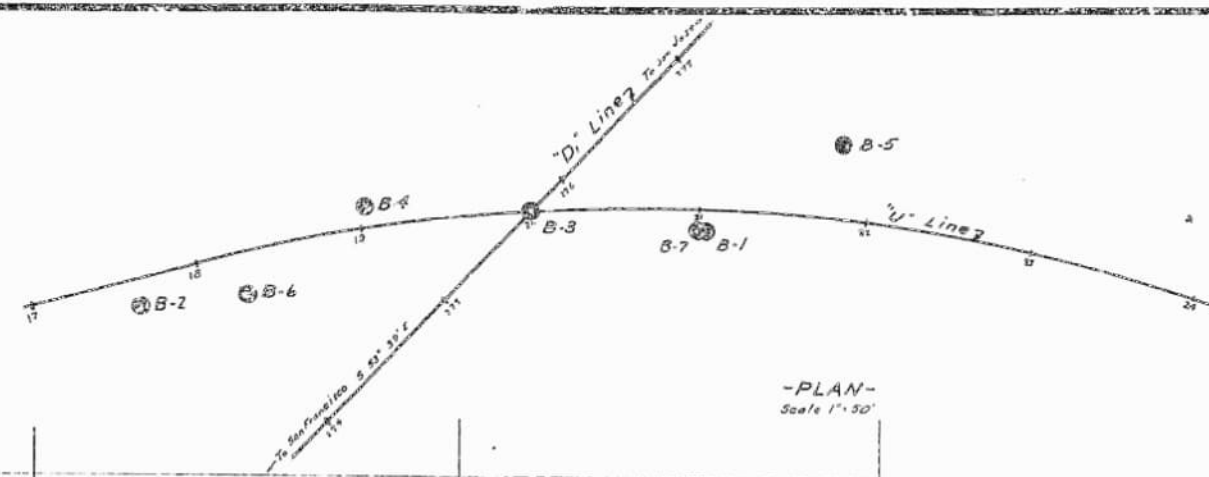


DIVISION OF ENGINEERING SERVICES - GEOTECHNICAL SERVICES					
As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.					
DIST.	COUNTY	ROUTE	POST MILES-TOTAL PROJECT	Sheet No.	Total Sheets
04	SM	101	0.8/1.1	134	136
				08-09-2022	DATE
REGISTERED CIVIL ENGINEER					
UNIVERSITY AVENUE POC					
LOG OF TEST BORINGS (2 OF 4)					
NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA				UNIT:	0703
				PROJECT NUMBER & PHASE:	04000007591
Revisions made to this Log of Test Borings are the addition of the following table and notes:				BRIDGE No.	Sheet of
				35-0359	24 of 26

Boring	Station	Offset from "P" Line
B-2	16+75	75' Lt
B-6	17+30	75' Rt
B-4	18+10	150' Lt
B-3	19+10	140' Lt
B-1/B-7	20+50	100' Lt
B-5	21+00	125' Lt

~~AS BUILT PLANS  
Contract No. 51-47C27  
Date Completed  
Document No. 40002342~~

~~CONTRACT No. 51-47C27  
DATE ACCEPTED June 4, 1988  
AS BUILT  
RESIDENT ENGINEER M. S. Smith  
REVISIONS BY DATE~~



**LEGEND OF EARTH MATERIALS**

GRAVEL	SILTY CLAY OR CLAYEY SILT
SAND	PEAT AND/OR ORGANIC CLAY
SILT	FILLED MATERIAL
CLAY	IGNEOUS ROCK
SANDY CLAY OR CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT OR SILTY SAND	METAMORPHIC ROCK

**LEGEND OF BORING OPERATIONS**

PLAN OF ANY BORING	UNSATURATED SAMPLER
PENETROMETER	ROTARY BORING (WET)
2 1/2" CONE PENETROMETER	AUGER BORING (DRY)
SAMPLER BORING (DRY)	JET BORING
ROTARY BORING (WET)	CORE BORING
AUGER BORING (DRY)	TEST PIT
JET BORING	
CORE BORING	
TEST PIT	

**NOTES**

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (C) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL, AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS. PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A #2 WHELERIAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

**UNIVERSITY AVE O.C.**

**LOG OF TEST BORINGS**

SCALE: HORIZ. AS SHOWN VERT. AS SHOWN BRIDGE 35-113 1/2 FILE DRAWING 35-15-15

BRIDGE DEPARTMENT

FIELD STUDY	NO. 202
DESIGNED	DATE 10/1/88
CHECKED	BY M.S. SMITH
APPROVED	DATE 10/1/88

84

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL OF THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE: 10/1/88 SIGNATURE: M. S. SMITH TITLE: RESIDENT ENGINEER





