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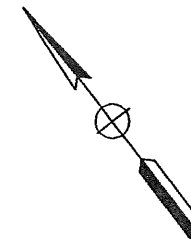
STRUCTURE PLANS

87-103	UNIVERSITY Ave OC Br No. 35-113
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO CONTRACTORS AND SPECIAL PROVISIONS BOOK.

**STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN MATEO COUNTY
IN EAST PALO ALTO
FROM 0.1 km SOUTH TO 0.9 km NORTH OF
UNIVERSITY AVENUE OVERCROSSING**

To be supplemented by Standard Plans dated July, 1999

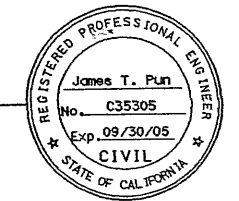
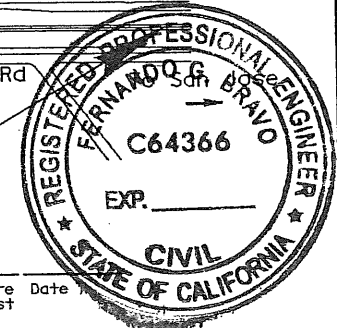
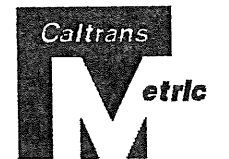


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SM	101	1.2/2.2	1	103



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Approved as to Feature Date
affecting City of East
Palo Alto Facilities

Project Engineer Date
Registered Civil Engineer

Plans Approval Date

CITY OF EAST PALO ALTO
2200 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303
CCS PLANNING & ENGINEERING INC.
6 CROW CANYON COURT
SAN RAMON, CA 94583-1612

Contract No. **04-272824**

EAST PALO ALTO

UNIVERSITY Ave OC
BRIDGE No. 35-155

Limit of Work
Sta "U" 14+19

BEGIN CONSTRUCTION
STA "D3" 85+10 KP 1.2
PM 0.8

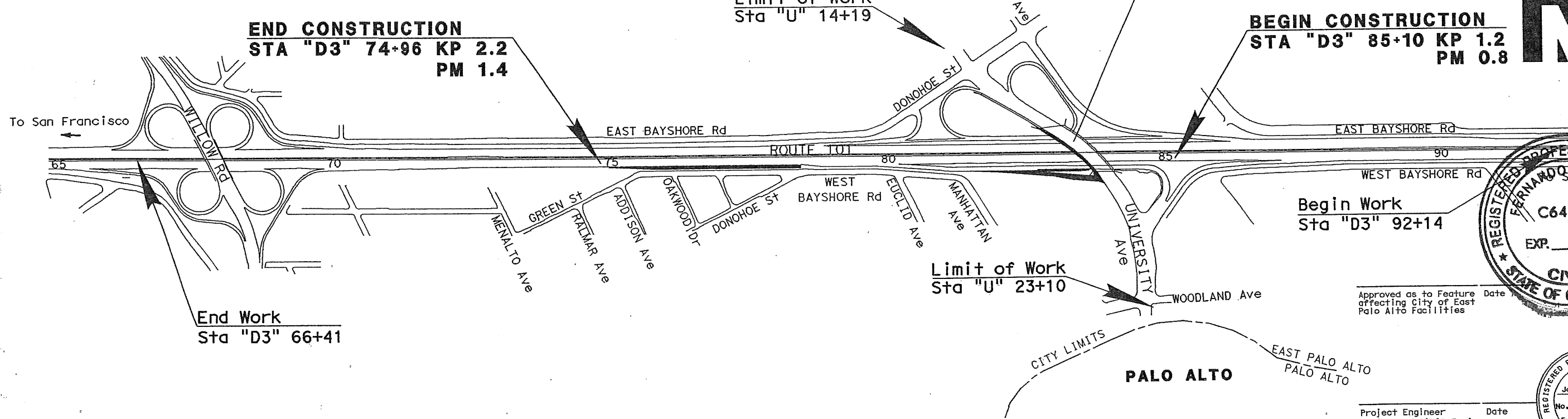
END CONSTRUCTION
STA "D3" 74+96 KP 2.2
PM 1.4

Begin Work
Sta "D3" 92+14

Limit of Work
Sta "U" 23+10

PALO ALTO

NO SCALE



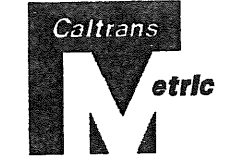
PROJECT ENGINEER: JAMES PUN
DESIGN OVERSIGHT APPROVAL SIGNATURE: MICHAEL REYES
REGISTRATION NO.: CS1789
DATE: _____

Approved as to impact on State facilities and performance with applicable State standards and practices and that technical services were performed as described in the California Department of Transportation A-E Consultant Services Manual.

The Contractor shall possess the Class (or classes) of license as specified in the "Notice to Contractors".

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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		2	103



James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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EAST PALO ALTO, CA 94303

CCS PLANNING & ENGINEERING, INC.
6 CROW CANYON COURT
SAN RAMON, CALIFORNIA 94583-1612

NOTES:

- Dimensions of the structural sections are subject to tolerances specified in the Standard Specifications.
- Superelevation as shown or as directed by the Engineer.
- See Layout plans for location of curb, AC dike and MBGR.

ABBREVIATIONS:

- CTS Cement Treated Subbase
ISM Imported Subbase Material
PMS Plant Mixed Surfacing

DESIGN PARAMETERS:

- Route 101 TI=11.5, R-value=15
University Ave TI=11.5, R-value=15
Ramps TI=10.0, R-value=15

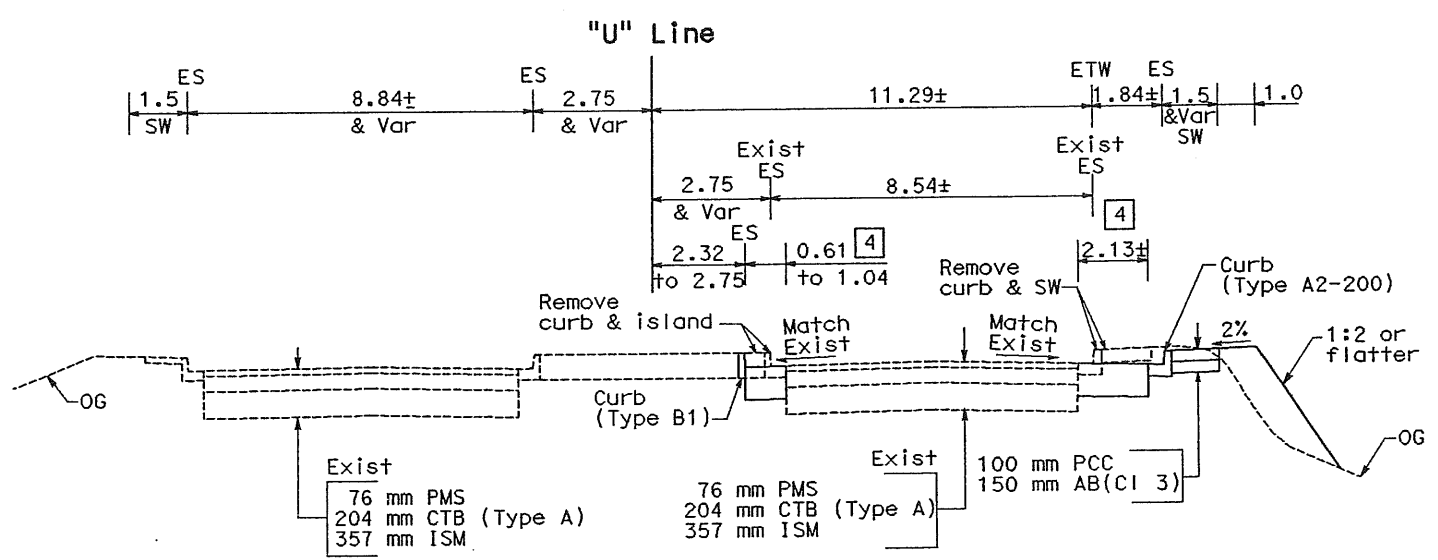
PAVEMENT STRUCTURAL SECTIONS:

- 30 mm AC (Type A)
- 50 mm AC (Type A)
- 375 mm AC (Type A)
- 435 mm AC (Type A)
- Var AC (Type A)
- Plane AC & Overlay
30 mm AC (Type A)
- 102 mm AC (Type A)
204 mm AB (CI 3)

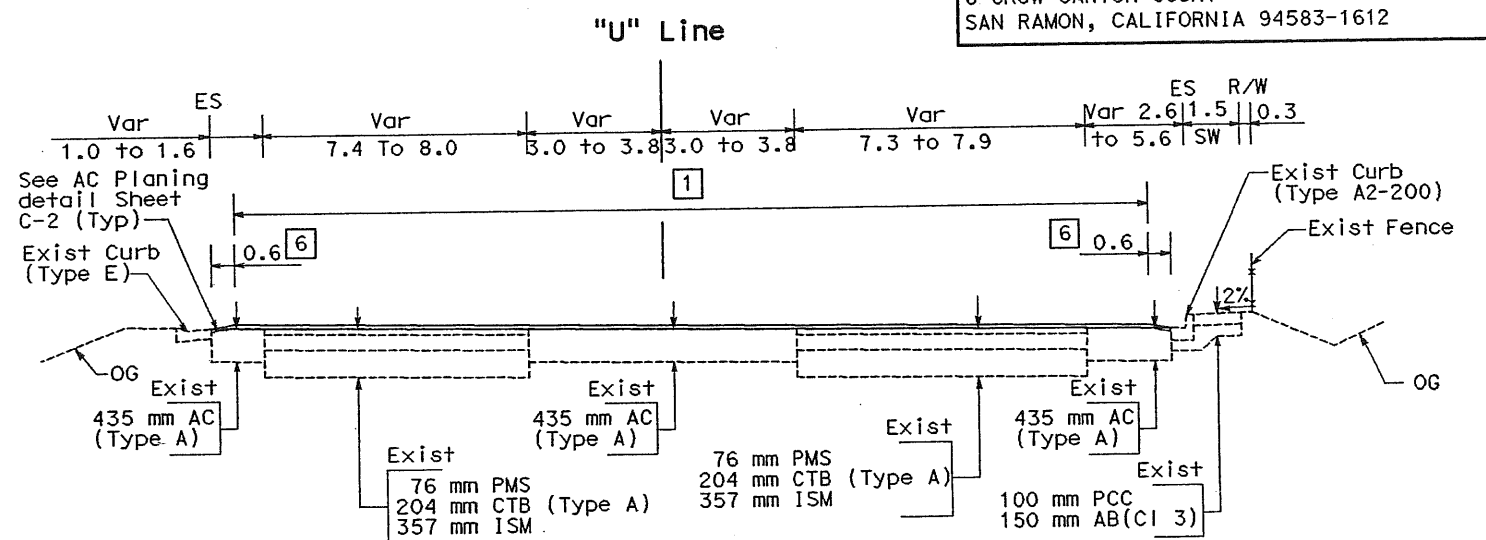
REVISOR
DATE
DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
MICHAEL REYES

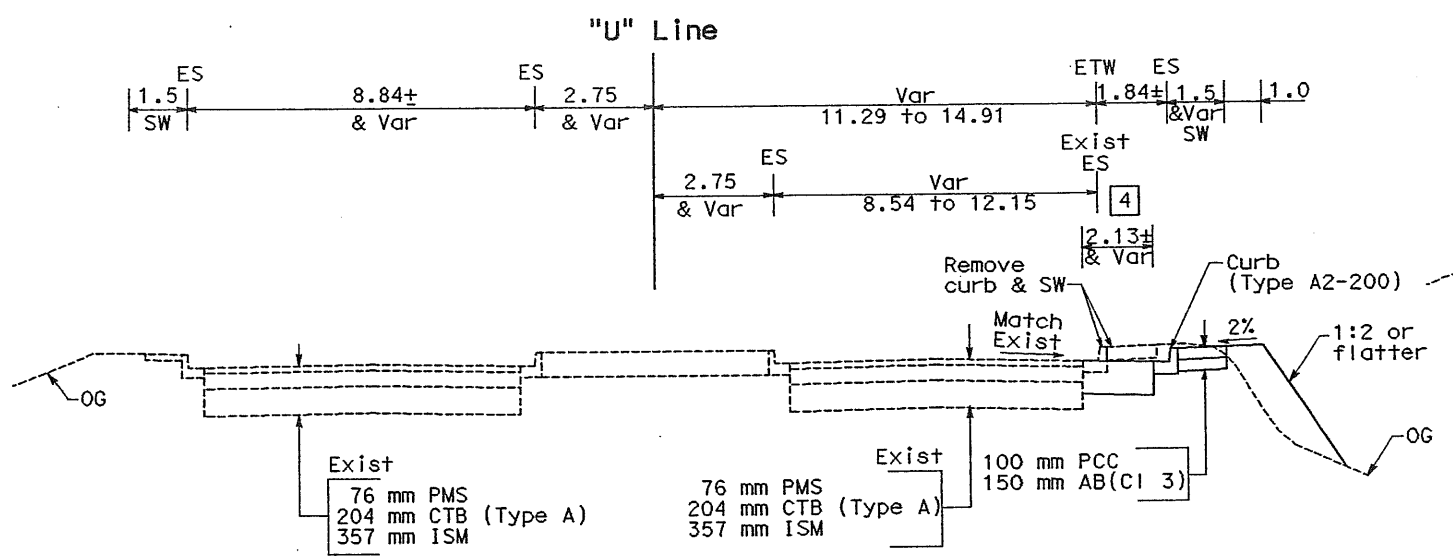
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans



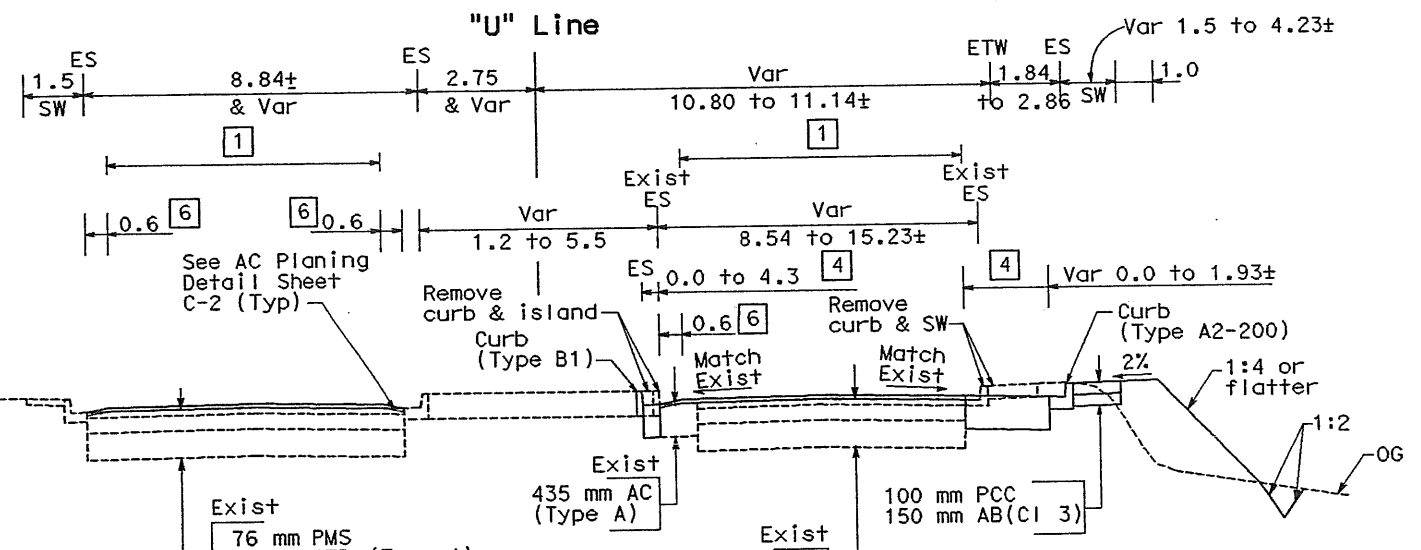
UNIVERSITY AVENUE
STA 18+65 TO 19+18



UNIVERSITY AVENUE
STA 20+73 TO 21+84



UNIVERSITY AVENUE
STA 17+65 TO 18+65



UNIVERSITY AVENUE
STA 20+32 TO 20+73

SIDEWALK
STA 20+32 TO 20+44
STA 20+55 TO 20+72

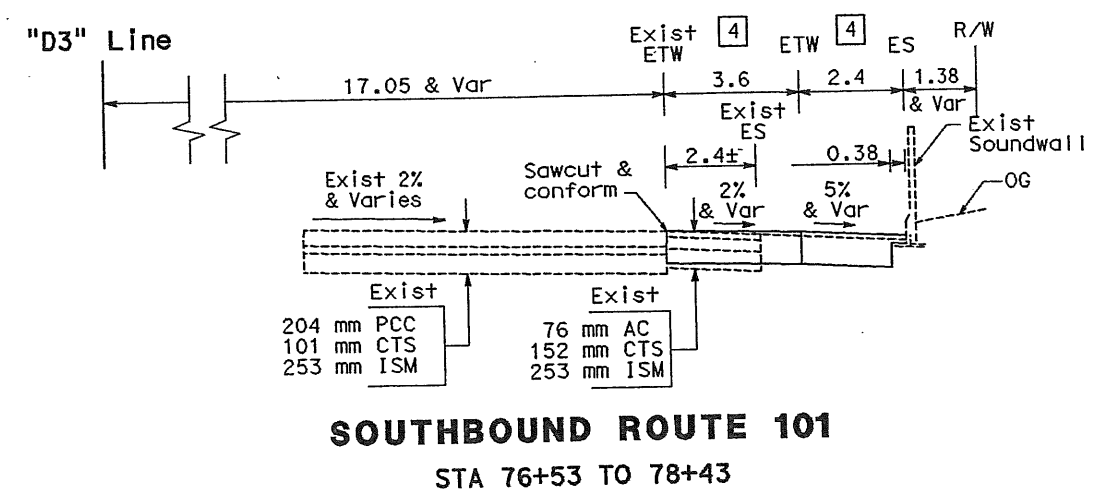
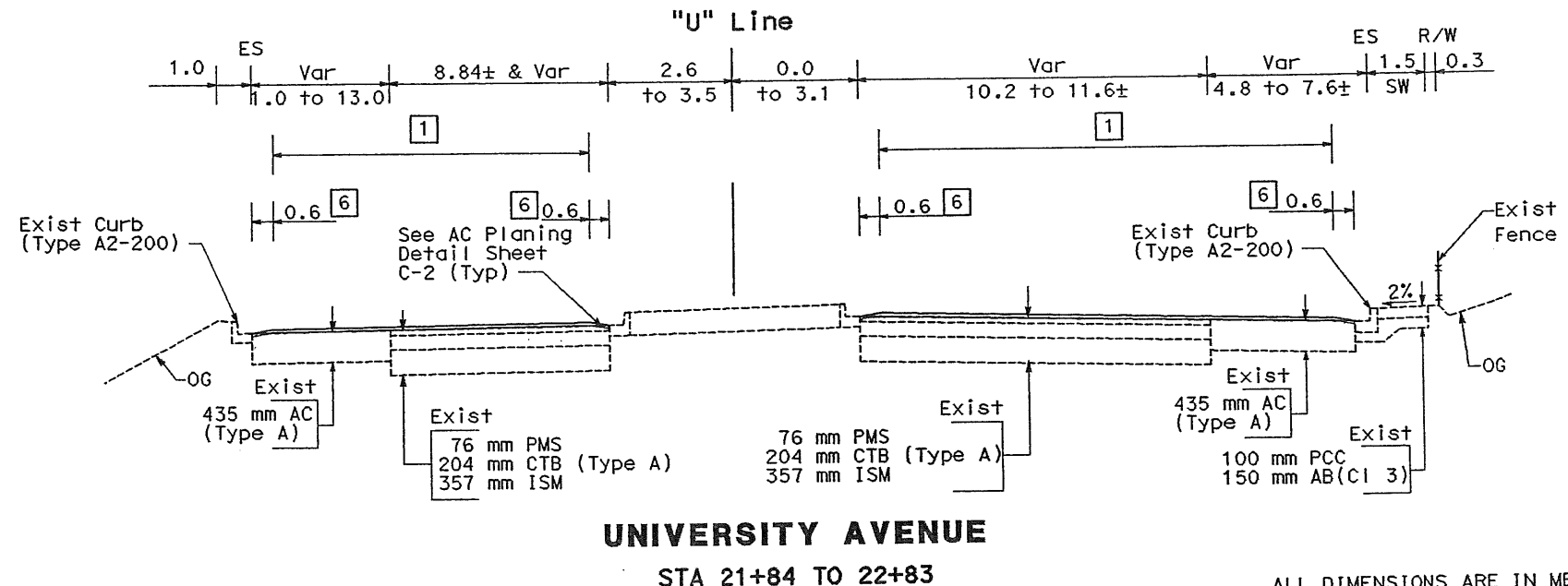
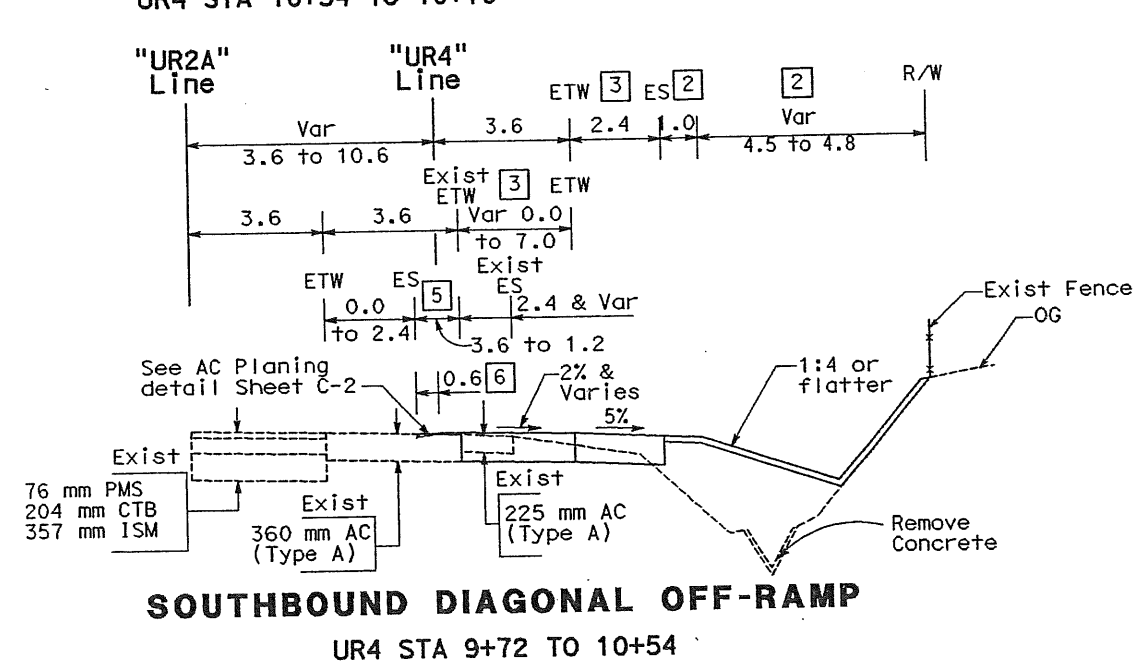
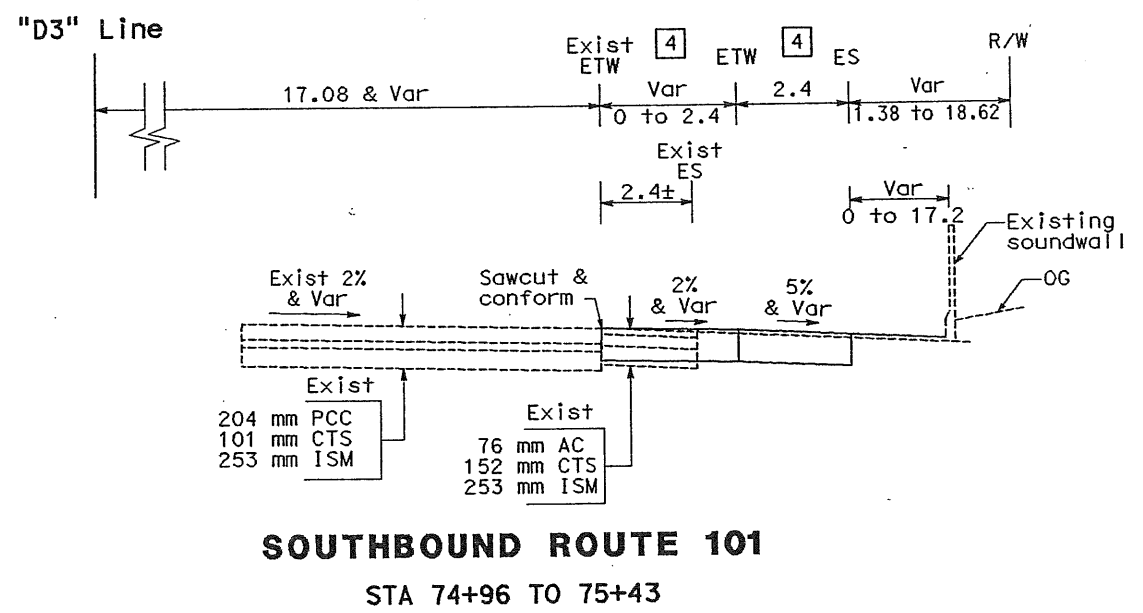
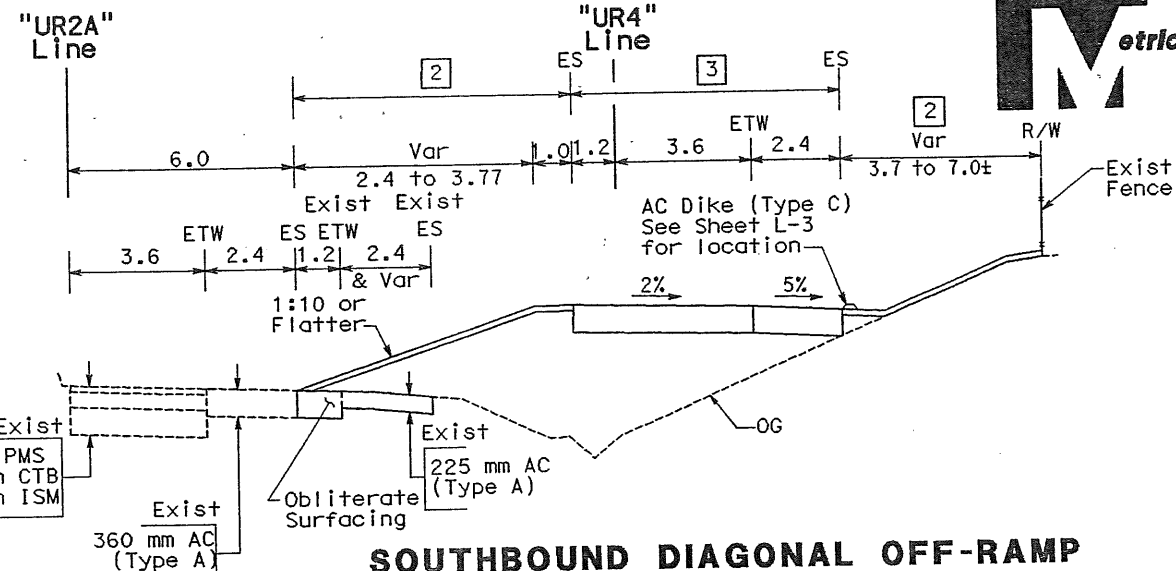
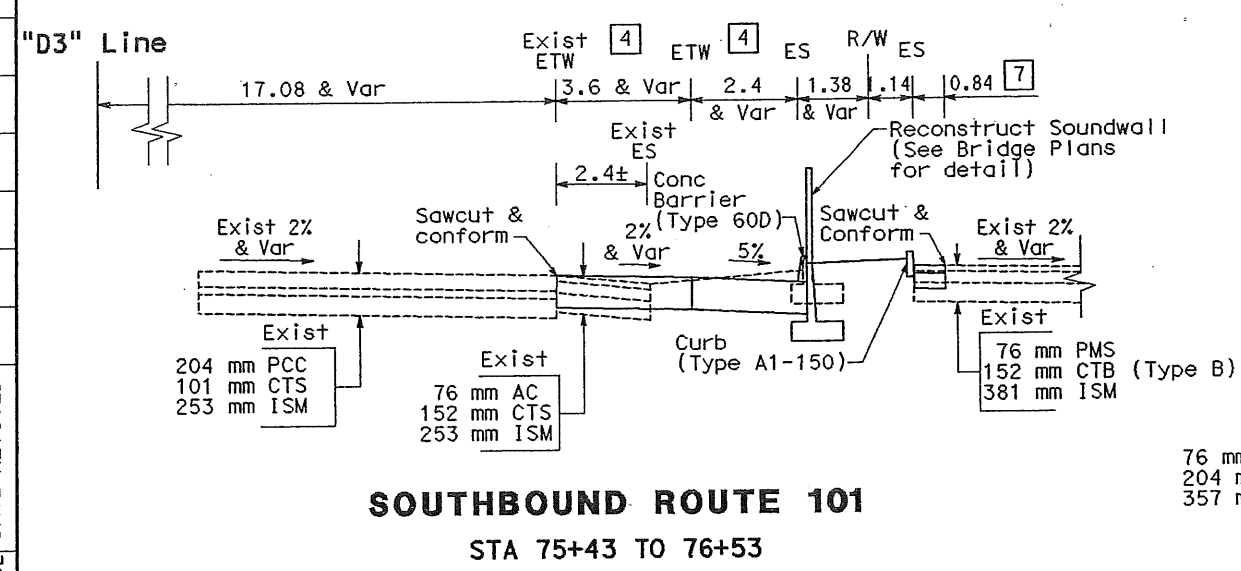
TYPICAL CROSS SECTIONS
NO SCALE

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED

FILE: P:\01097\Sheets\uni\X01.dgn

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		3	103

REGISTERED CIVIL ENGINEER PLANS APPROVAL DATE: 4/30/04	
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CCS PLANNING & ENGINEERING, INC. 6 CROW CANYON COURT SAN RAMON, CALIFORNIA 94583-1612	



UNIVERSITY AVENUE
STA 21+84 TO 22+83

SOUTHBOUND ROUTE 101
STA 76+53 TO 78+43

TYPICAL CROSS SECTIONS
NO SCALE
X-2

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE NOTED

FOR NOTES, ABBREVIATIONS
AND/OR LEGEND, SEE SHEET X-1

REVISIONS: REVISOR, DATE, REVISIONS, CHECKED BY, DATE, DESIGNED BY, DATE, OVERSIGHT BY, DATE, TRANSPORTATION, CALTRANS, STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 MICHAEL REYES
 CALTRANS

CHECKED BY JTP
 DESIGNED BY IVS
 DATE 4/02
 REVISOR DATE 4/02

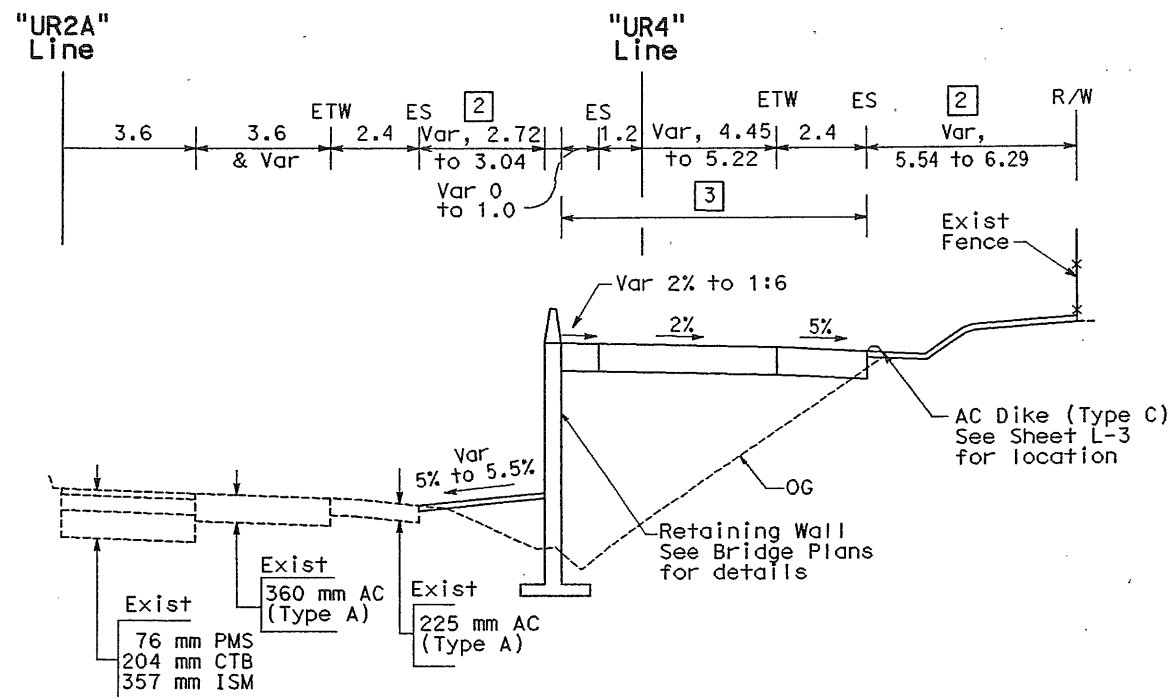
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		4	103

REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

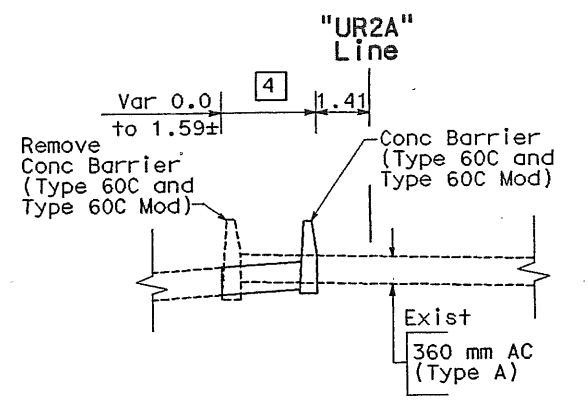
PLANS APPROVAL DATE _____
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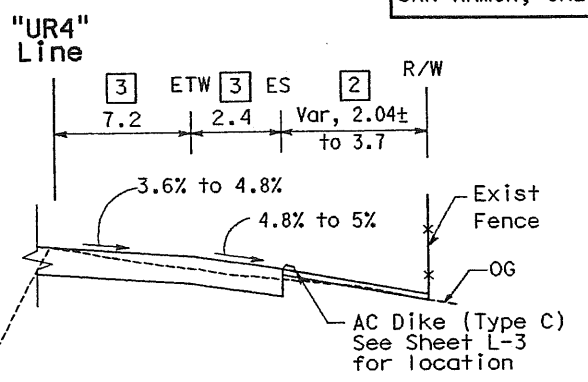
CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612



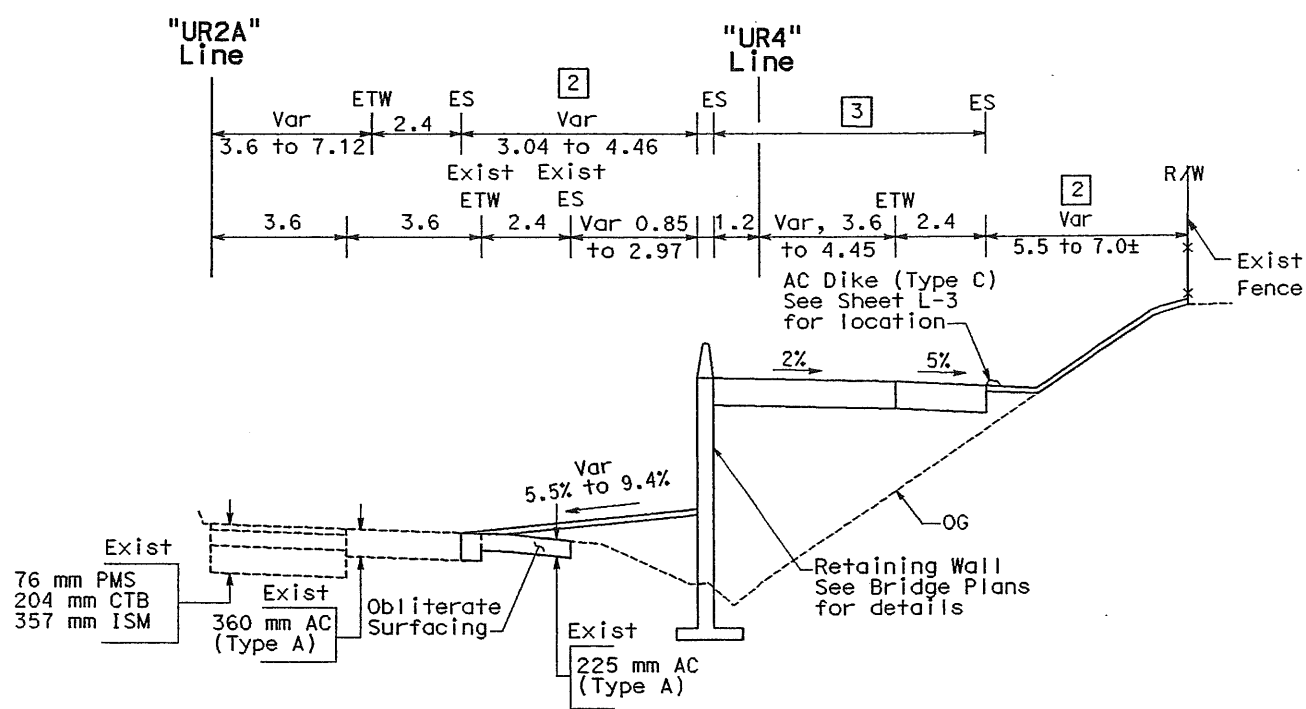
SOUTHBOUND DIAGONAL OFF-RAMP
 UR4 STA 10+94± TO 11+00



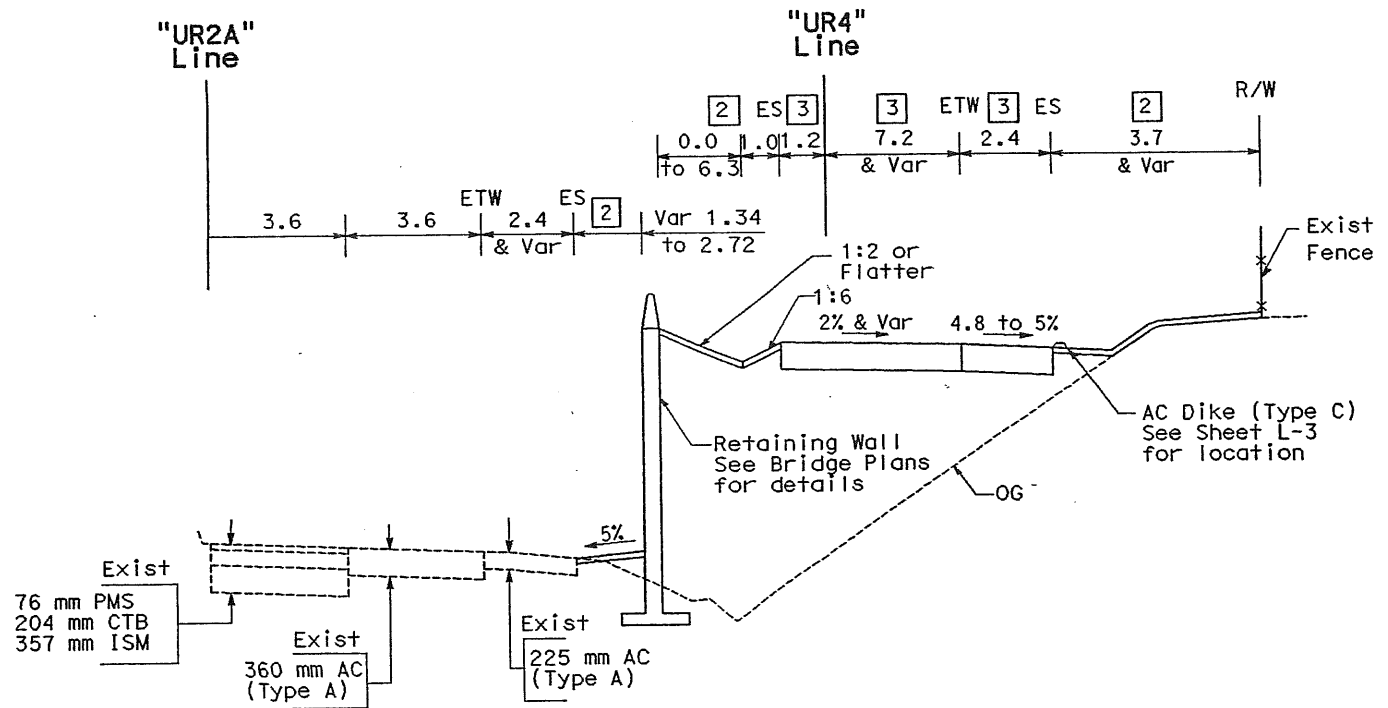
SOUTHBOUND LOOP OFF-RAMP
 UR2A STA 13+72 TO 13+86



SOUTHBOUND DIAGONAL OFF-RAMP
 UR4 STA 11+50 TO 11+60



SOUTHBOUND DIAGONAL OFF-RAMP
 UR4 STA 10+70 TO 10+94±



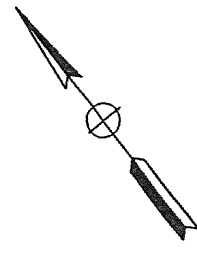
SOUTHBOUND DIAGONAL OFF-RAMP
 UR4 STA 11+00 TO 11+50

FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET X-1

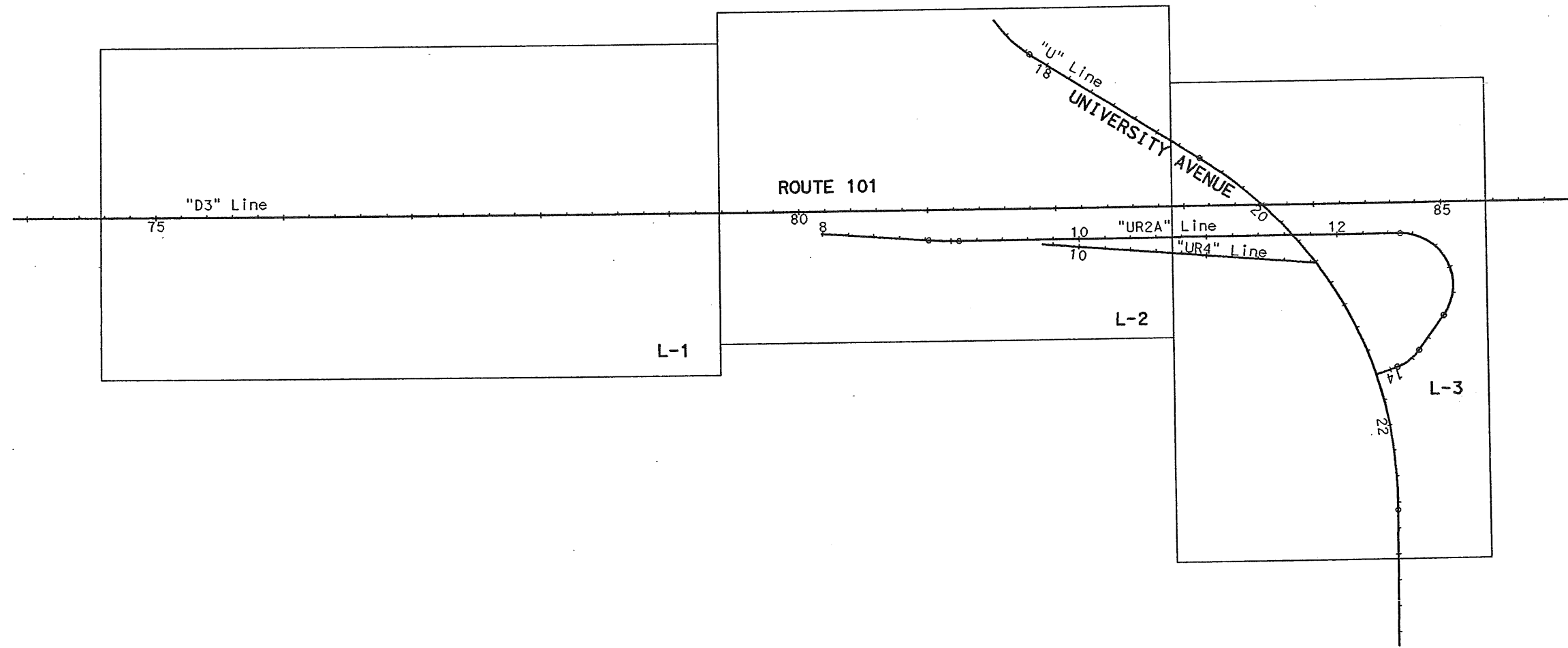
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED
TYPICAL CROSS SECTIONS
 NO SCALE
X-3

x
x
x
x
x
x
x

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		DESIGN OVERSIGHT		DATE REVISIED BY	
Caltrans		MICHAEL REYES		2/03	
		CALCULATED/DESIGNED BY		DATE REVISIED BY	
		CHECKED BY		DATE REVISIED BY	
		IVS		2/03	
		JTP		2/03	



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		5	103
REGISTERED CIVIL ENGINEER <i>James T. Pun</i> 4/30/04 James T. Pun No. C35305 Exp. 09/30/05 CIVIL STATE OF CALIFORNIA						
PLANS APPROVAL DATE						
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CCS PLANNING & ENGINEERING, INC. 6 CROW CANYON COURT SAN RAMON, CALIFORNIA 94583-1612						



KEY MAP AND LINE INDEX
 NO SCALE
K-1

DESIGN OVERSIGHT
MICHAEL REYES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISIED BY
DATE REVISIED

DATE
4/02
DATE
4/02

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	6	103

James Pun 4/30/04
REGISTERED CIVIL ENGINEER

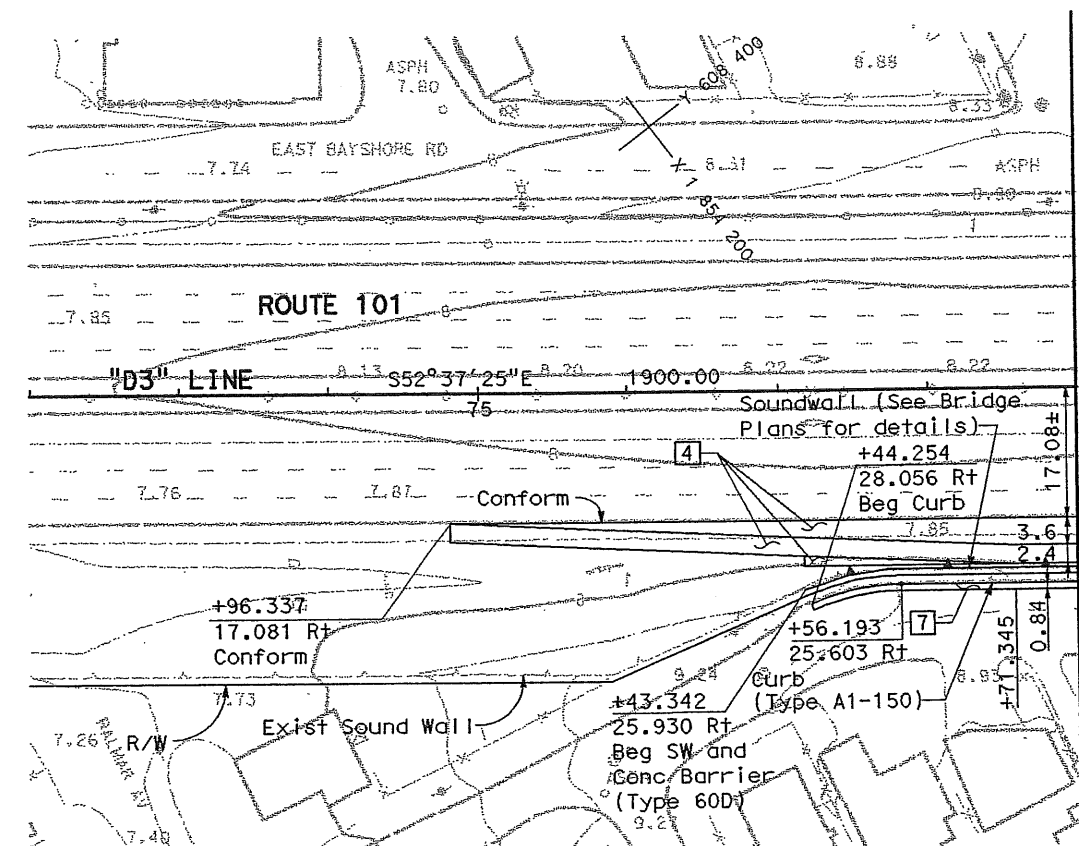
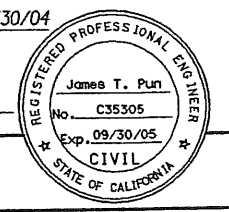
PLANS APPROVAL DATE

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6 CROW CANYON COURT
SAN RAMON, CALIFORNIA 94583-1612



Match line Sta 75+80

NOTES:

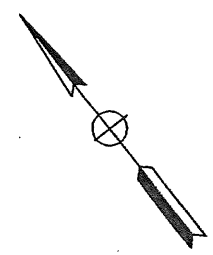
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2. Coordinates, bearings and distances are based on the California coordinate system of 1983, zone-3, CA-HPGN, EPOCH 1991.35. To obtain ground distances multiply grid distances by 1.00005821.
3. For Irrigation Crossover, see 0 sheets and HP sheets for size and location.
4. For Bay Taper details, see sheet C-2.
5. For Pavement Structural Sections details, see sheet X-1

LEGEND:

- Curb Ramp
- Crash Cushion
- Cold Plane AC Pavement
- Irrigation Crossover
- Obliterate Surfacing

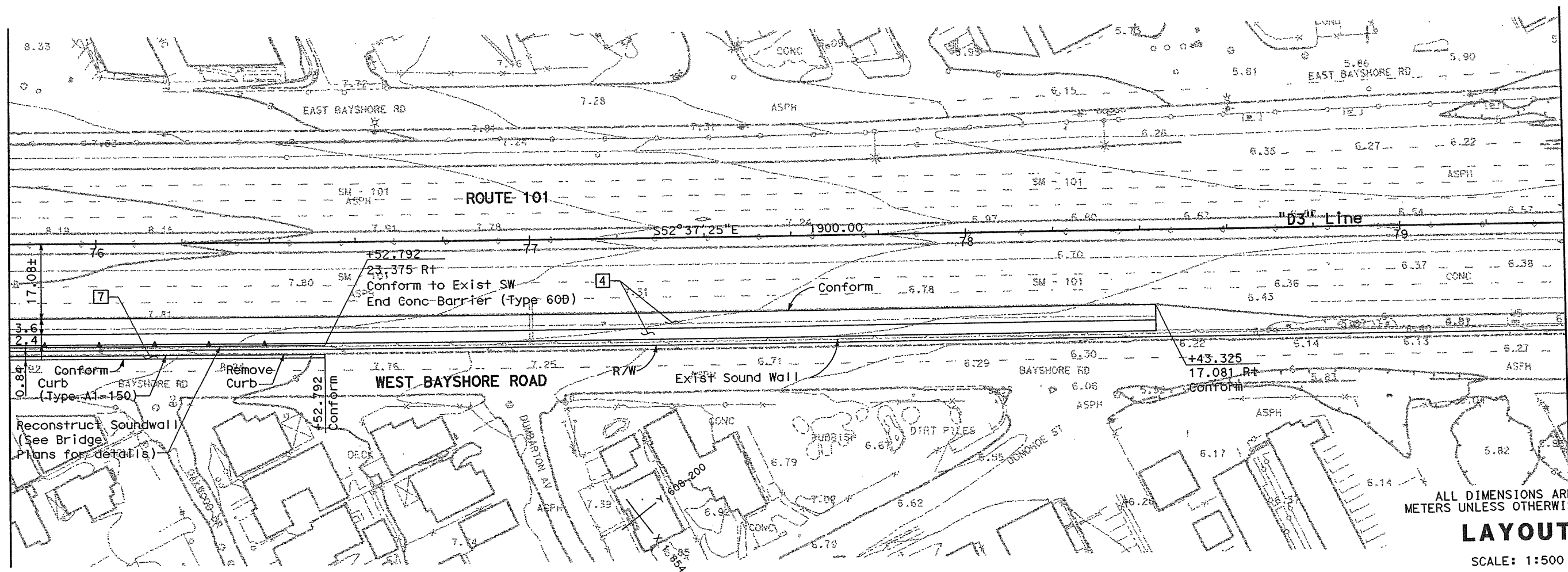
BAY TAPERS

(A)	18 m
(B)	27 m
(C)	36 m



Match line Sta 75+80

See sheet L-2



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

LAYOUT

SCALE: 1:500

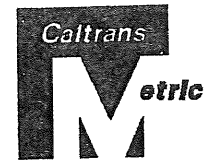
For complete R/W and accurate access data, see R/W record maps at district office.

CURVE DATA

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					N	E
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②	305.000	4°23'42"	11.704	23.396	608231.021	1854826.445
③	63.500	13°18'26"	7.407	14.748	608041.842	1854696.245

CURB RAMP DATA

NO	STATION	OFFSET	CASE
①	17+71.101	19.199 Rt	C



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	7	103

James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER

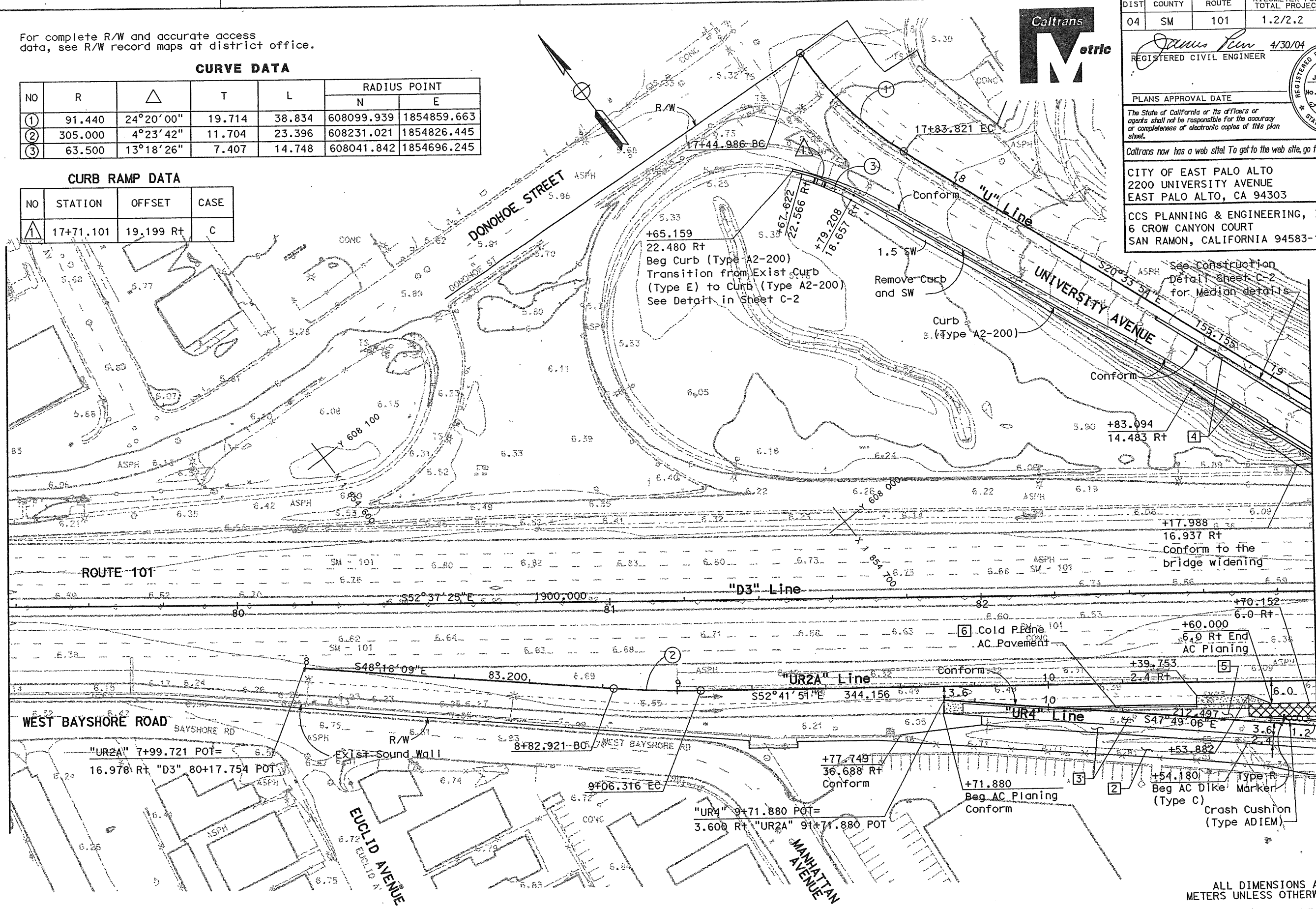
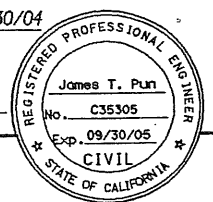
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6 CROW CANYON COURT
SAN RAMON, CALIFORNIA 94583-1612



DATE REVISED BY
4/02 IVS
DATE REVISED BY
4/02 JTP

DESIGN OVERSIGHT
MICHAEL REYES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

See sheet L-1

See sheet L-3

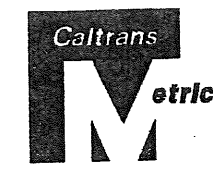
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

LAYOUT

SCALE: 1:500

FOR NOTES ABBREVIATIONS AND/OR LEGEND SEE SHEET L-1

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MICHAEL REYES
 DATE REVISIONS BY
 4/02
 IVS
 4/02
 JTP
 DATE REVISIONS BY



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST NO	SHEET NO	TOTAL SHEETS
04	SM	101	1.2/2.2		8	103

James Pun 4/30/04
 REGISTERED CIVIL ENGINEER

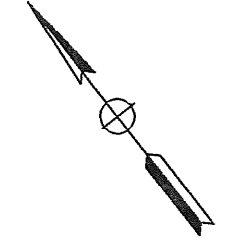
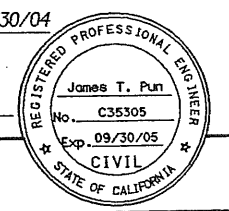
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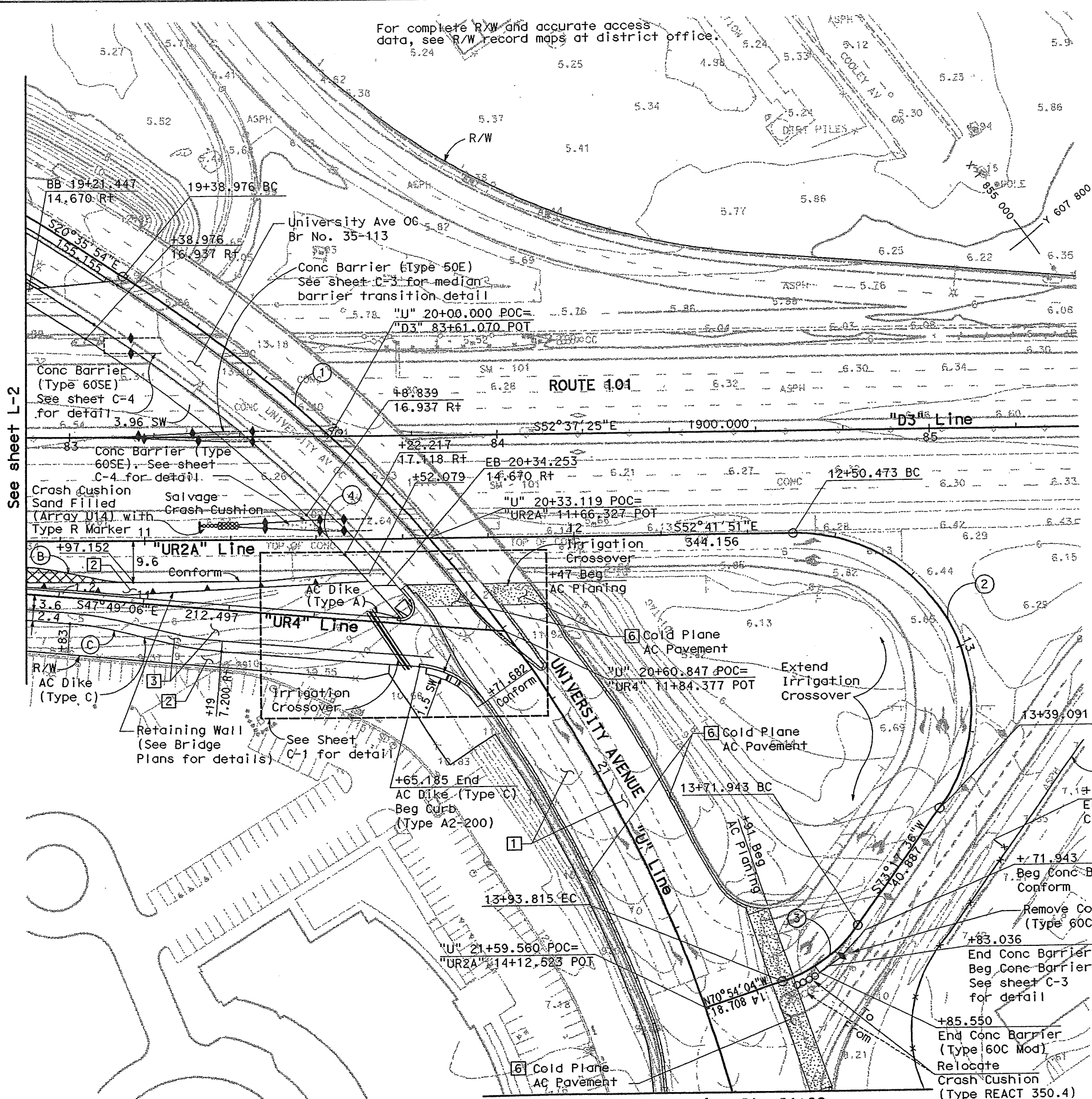
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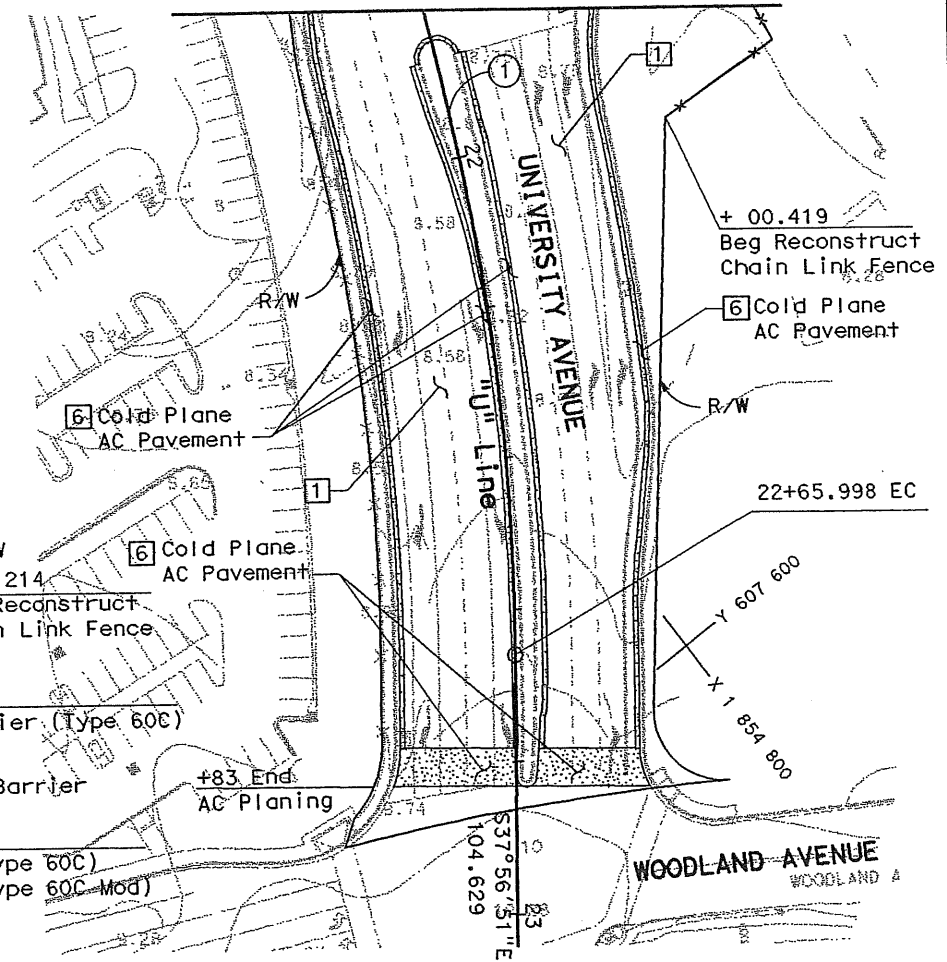
For complete R/W and accurate access data, see R/W record maps at district office.



CURVE DATA

NO	R	Δ	T	L	RADIUS POINT	
					N	E
①	320.040	58°32'45"	179.399	327.022	607809.939	1854529.074
②	40.300	125°59'26"	79.077	88.618	607747.786	1854890.942
③	35.000	35°48'20"	11.307	21.872	607733.266	1854861.000
④	180.000	4°01'58"	6.337	12.669	607827.265	1854650.952

Match line Sta 21+80



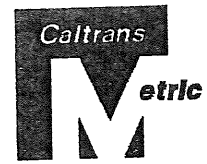
Match line Sta 21+80

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

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

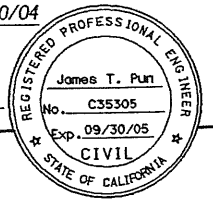
LAYOUT

SCALE: 1:500



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	9	103

James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER



PLANS APPROVAL DATE

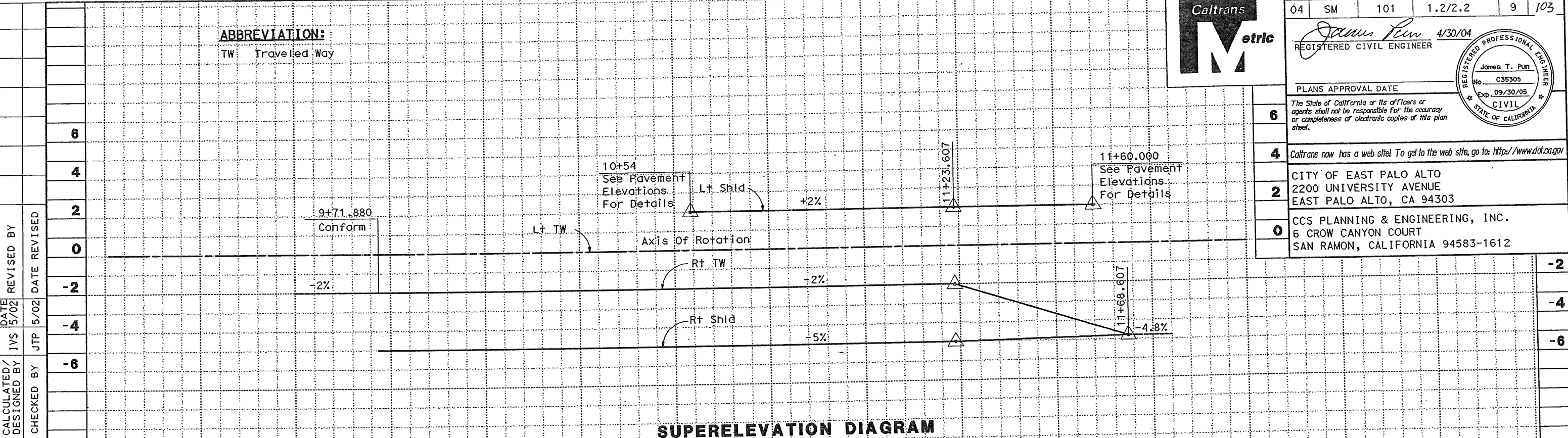
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4 Caltrans now has a web site! To get to the web site, go to: <http://www.dot.ca.gov>

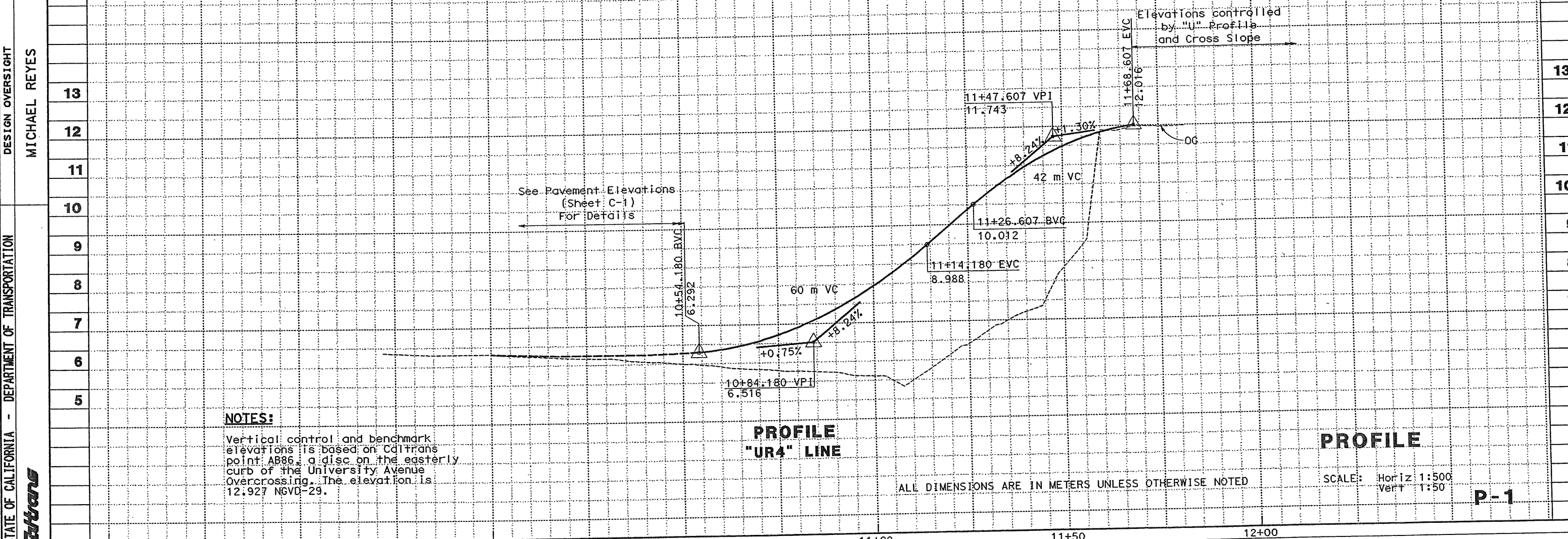
2 CITY OF EAST PALO ALTO
2200 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303

0 CCS PLANNING & ENGINEERING, INC.
6 CROW CANYON COURT
SAN RAMON, CALIFORNIA 94583-1612

ABBREVIATION:
TW Travelled Way



SUPERELEVATION DIAGRAM



PROFILE "UR4" LINE

PROFILE

NOTES:
Vertical control and benchmark elevations is based on Caltrans point AB86, a disc on the easterly curb of the University Avenue Overcrossing. The elevation is 12.927 NGVD-29.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

SCALE: Horiz 1:500
Vert 1:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN OVERSIGHT
MICHAEL REYES

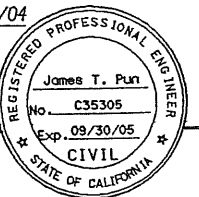
CALCULATED/ DESIGNED BY
CHECKED BY
DATE REVISED
DATE REVISED

6
4
2
0
-2
-4
-6

Station	9+00	9+50	10+00	10+50	11+00	11+50	12+00
Exc							

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	10	103

James T. Puri 4/30/04
 REGISTERED CIVIL ENGINEER

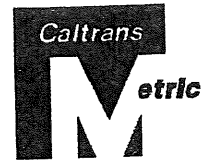


PLANS APPROVAL DATE
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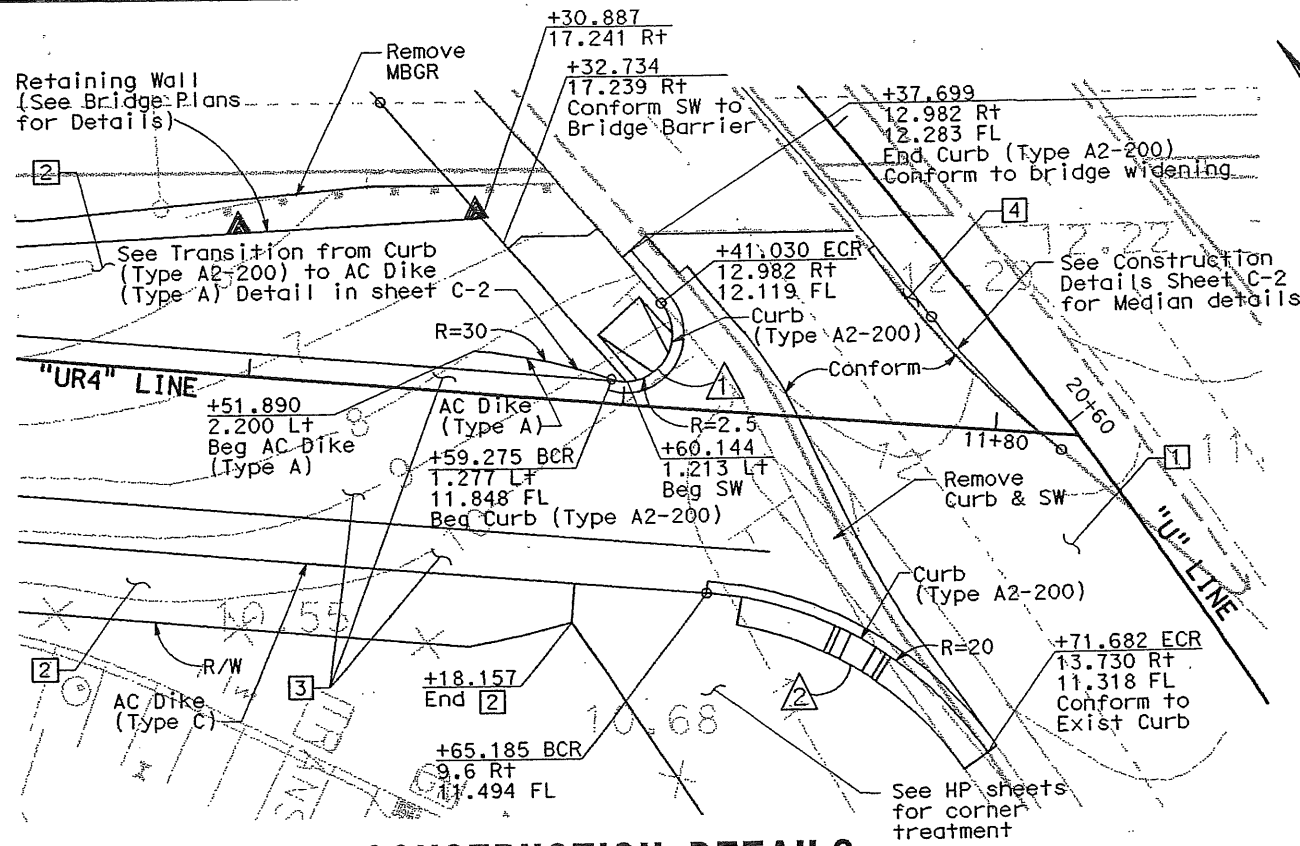
CITY OF EAST PALO ALTO
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 EAST PALO ALTO, CA 94303

CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612



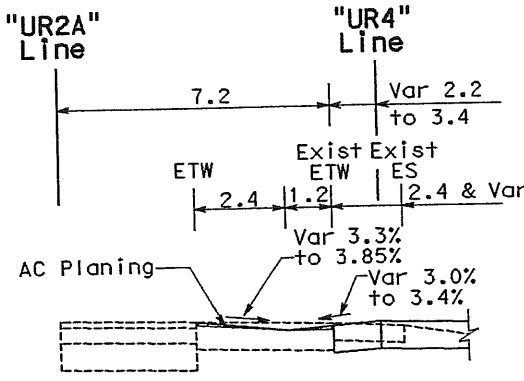
NOTES:

1. Stations and offsets are given to the face of curb for curb and curb ramp construction.
2. Radii are dimensioned to face of curb.
3. Pavement elevations are at even 20 meter stations intervals either on mainline control line or adjacent ramps control line, unless noted otherwise.
4. Pavement elevations along retaining wall are given to the top of fill.
5. For Pavement Structural Sections details, see sheet X-1.
6. For detail not shown, see Layout sheets



CONSTRUCTION DETAILS

SCALE 1:200



SECTION A-A

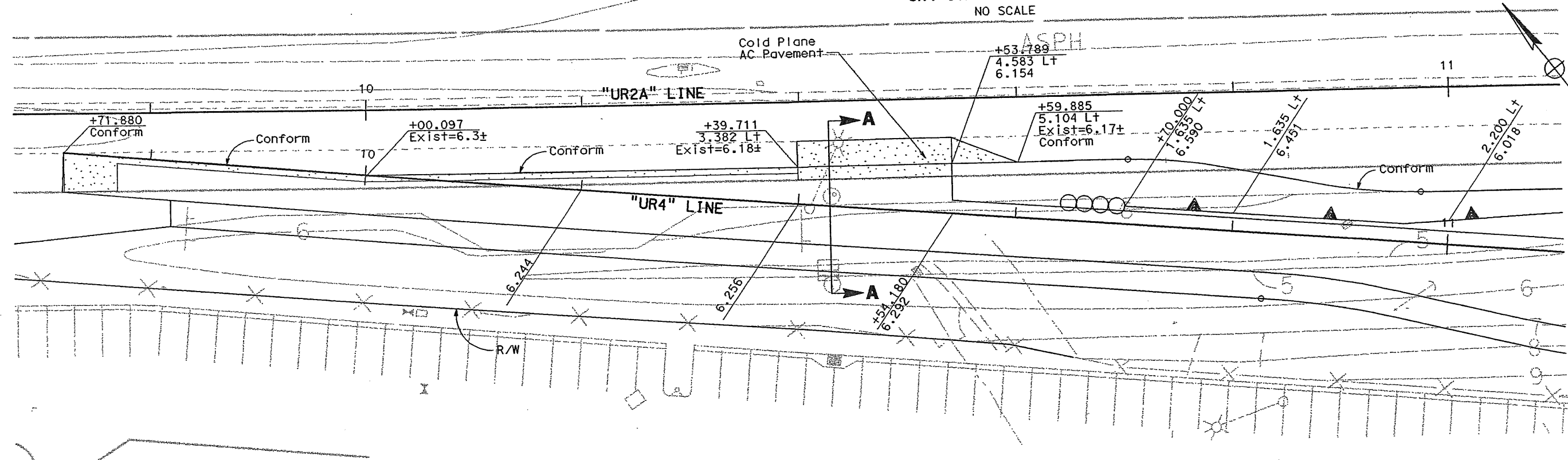
UR4 STA 10+40 TO 10+54
 NO SCALE

ABBREVIATIONS:

- BCR Begin Curb Return
- ECR End Curb Return

CURB RAMP DATA

NO	STATION	OFFSET	CASE
1	11+61.923	2.244 Lt	E
2	11+71.123	10.502 Rt	C



**UR2A - UR4 GORE
 PAVEMENT ELEVATION DETAILS**

SCALE 1:200

CONSTRUCTION DETAILS

SCALE: AS SHOWN

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

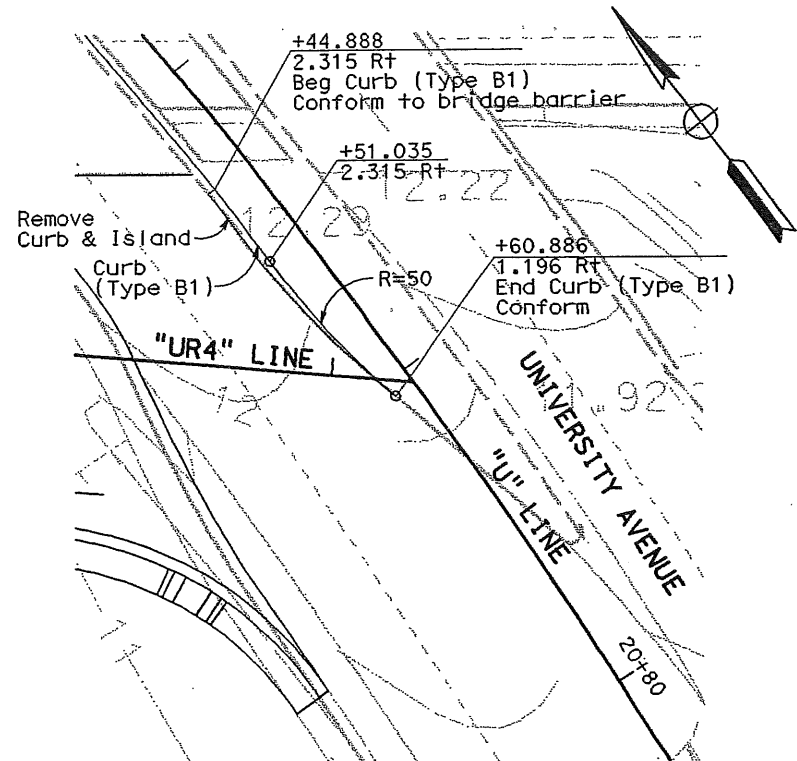
DESIGNED BY
CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
MICHAEL REYES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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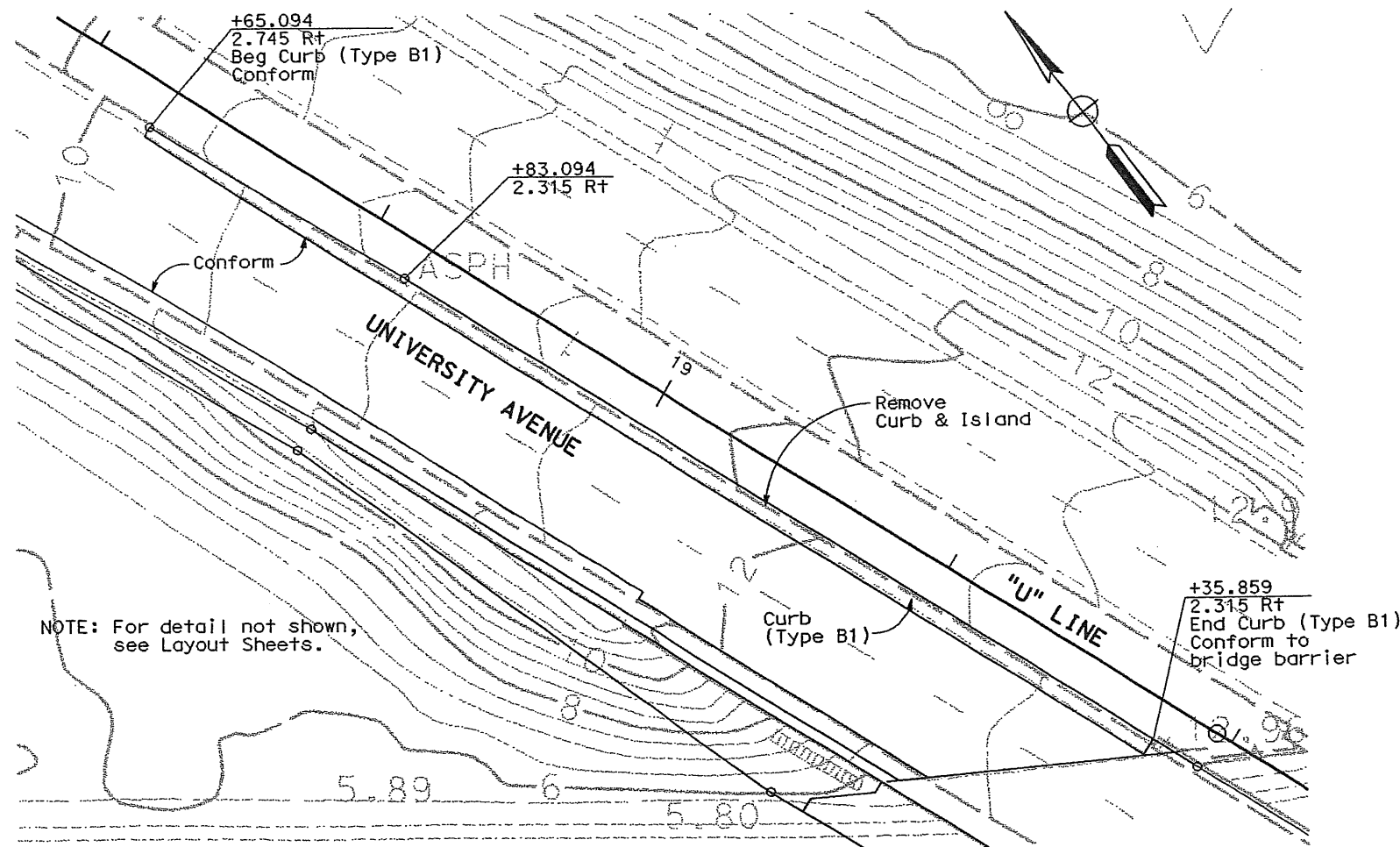
REVISOR
DATE
REVISED BY
DATE

IVS
JTP



MEDIAN DETAILS - UNIVERSITY AVENUE

SCALE 1:200

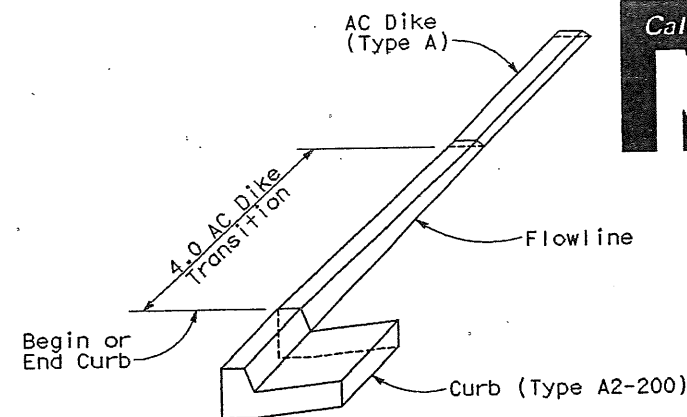


MEDIAN DETAILS - UNIVERSITY AVENUE

SCALE 1:200

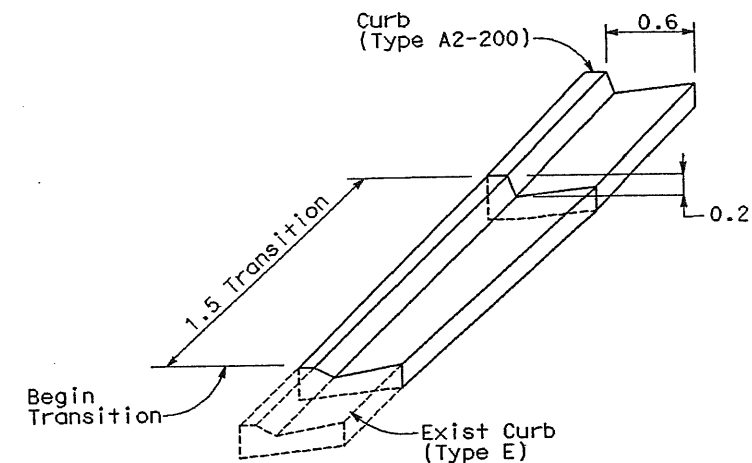
TYPE (B) 27 m BAY TAPER	TYPE (C) 36 m BAY TAPER	OFFSET DISTANCE FROM BASELINE
DISTANCE FROM BEGINNING	DISTANCE FROM BEGINNING	3.6 m
0	0	0
2.25	3.0	0.057
4.50	6.0	0.225
6.75	9.0	0.507
9.00	12.0	0.900
13.50	18.0	1.800
18.00	24.0	2.700
20.25	27.0	3.100
22.50	30.0	3.380
24.75	33.0	3.540
27.00	36.0	3.600

BAY TAPER DETAIL



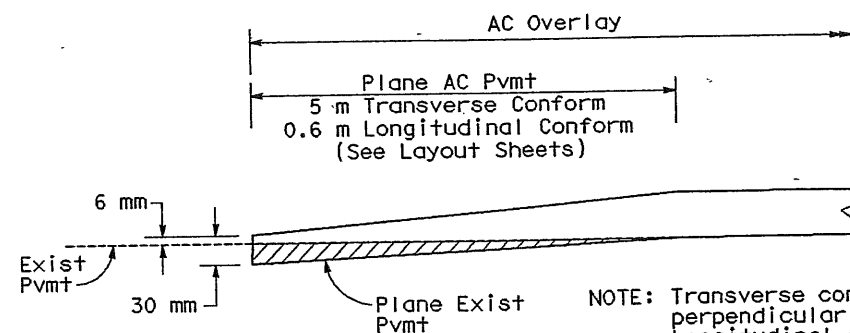
TRANSITION FROM CURB (TYPE A2-200) TO AC DIKE (TYPE A)

NO SCALE



TRANSITION FROM EXISTING CURB (TYPE E) TO CURB (TYPE A2-200)

NO SCALE



AC PLANING DETAIL

NO SCALE

NOTE: Transverse conform for conform perpendicular to traveled way. Longitudinal conform parallel to traveled way

CONSTRUCTION DETAILS

SCALE: AS SHOWN

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	11	103

James Pun 4/30/04
REGISTERED CIVIL ENGINEER

James T. Pun
No. C35305
Exp. 09/30/05
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		12	103

REGISTERED CIVIL ENGINEER
 James T. Pun
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

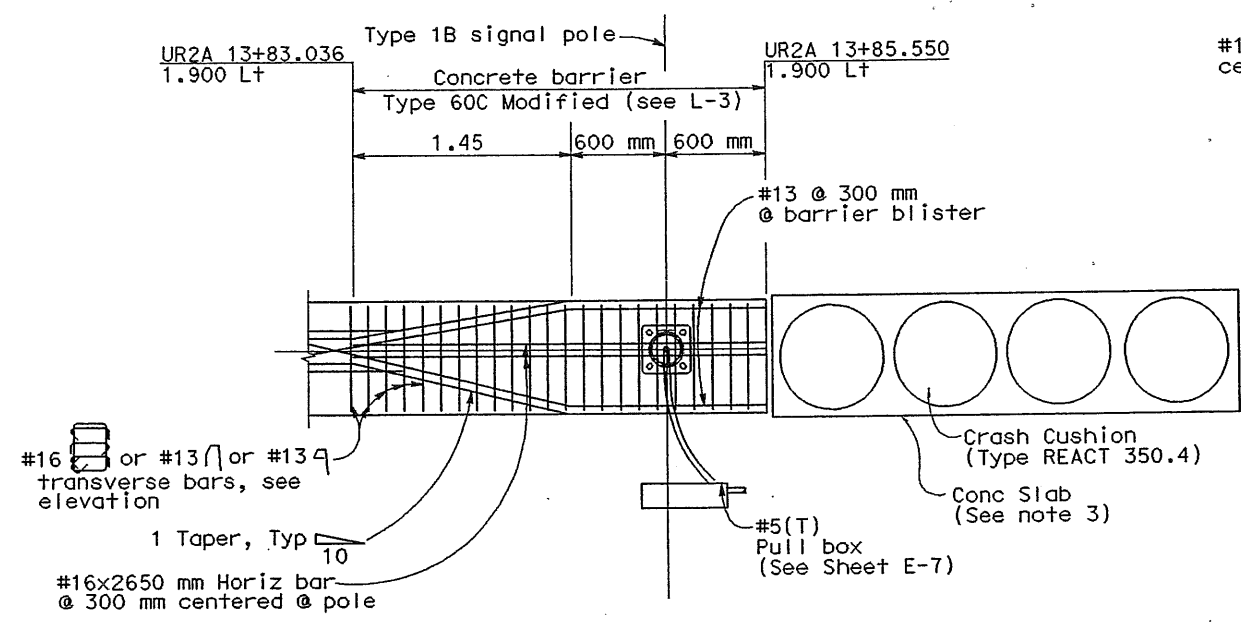
PLANS APPROVAL DATE 4/30/04

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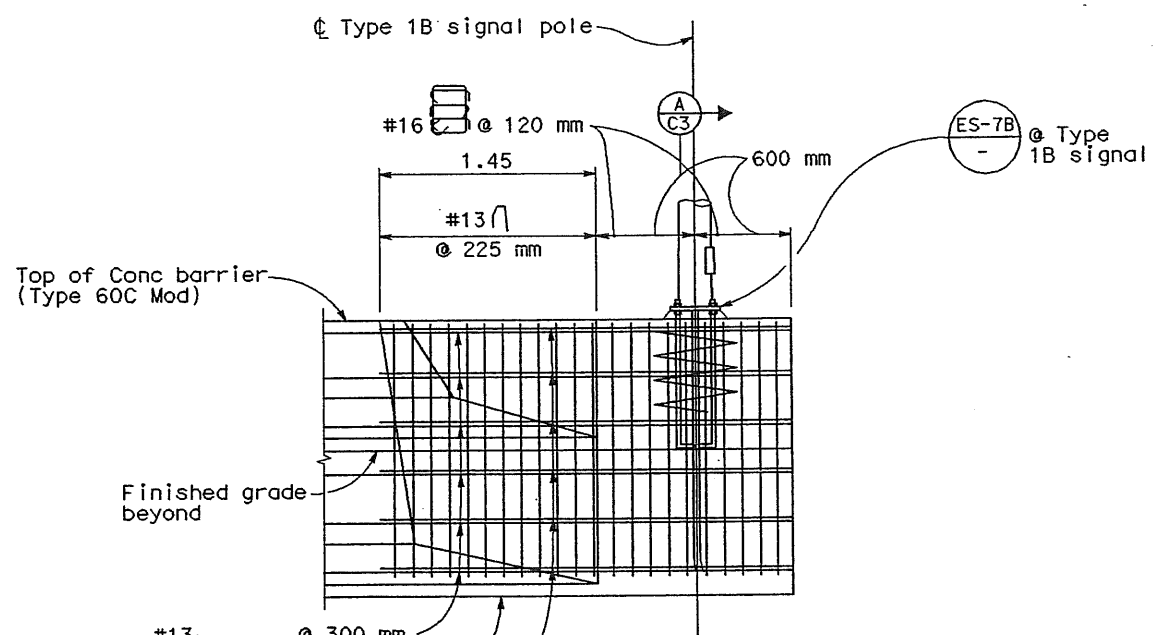
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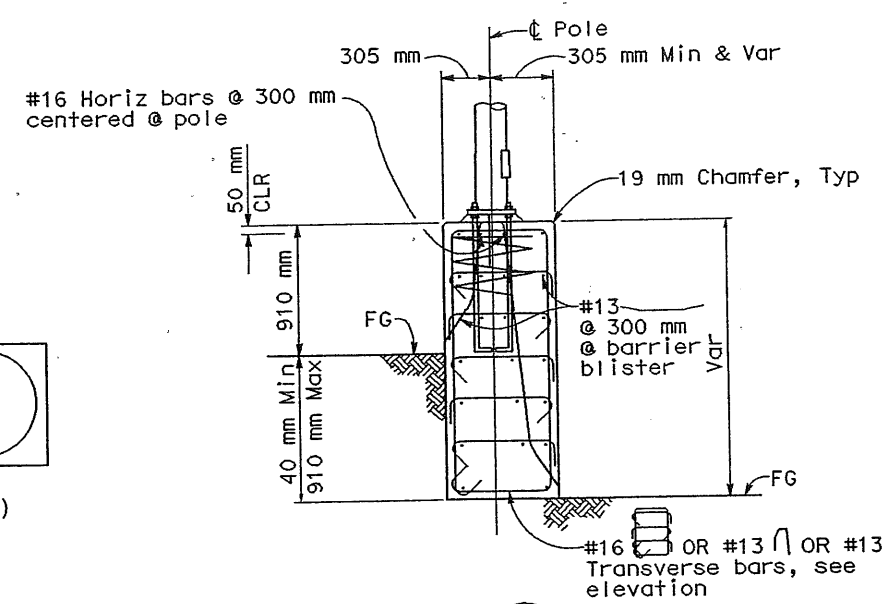


PLAN
NO SCALE



ELEVATION

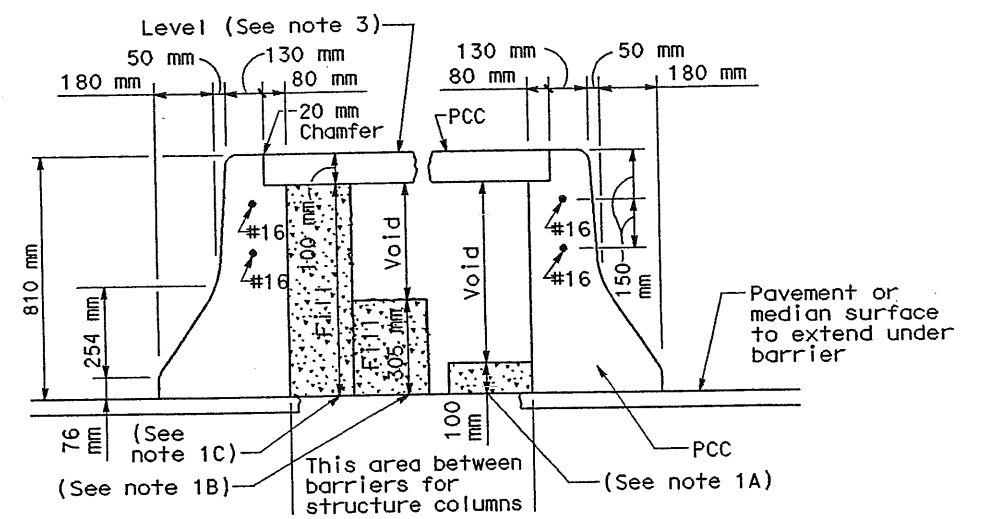
- NOTES:**
- All reinforcing is addition to the standard conc barrier type 60C reinforcing.
 - See E-7 for type 1B signal pole location.
 - Place the relocated crash cushion unit on the cured conc anchor slab as shown in Standard Plans A82C. Dimension of conc slab shall match exist slab.



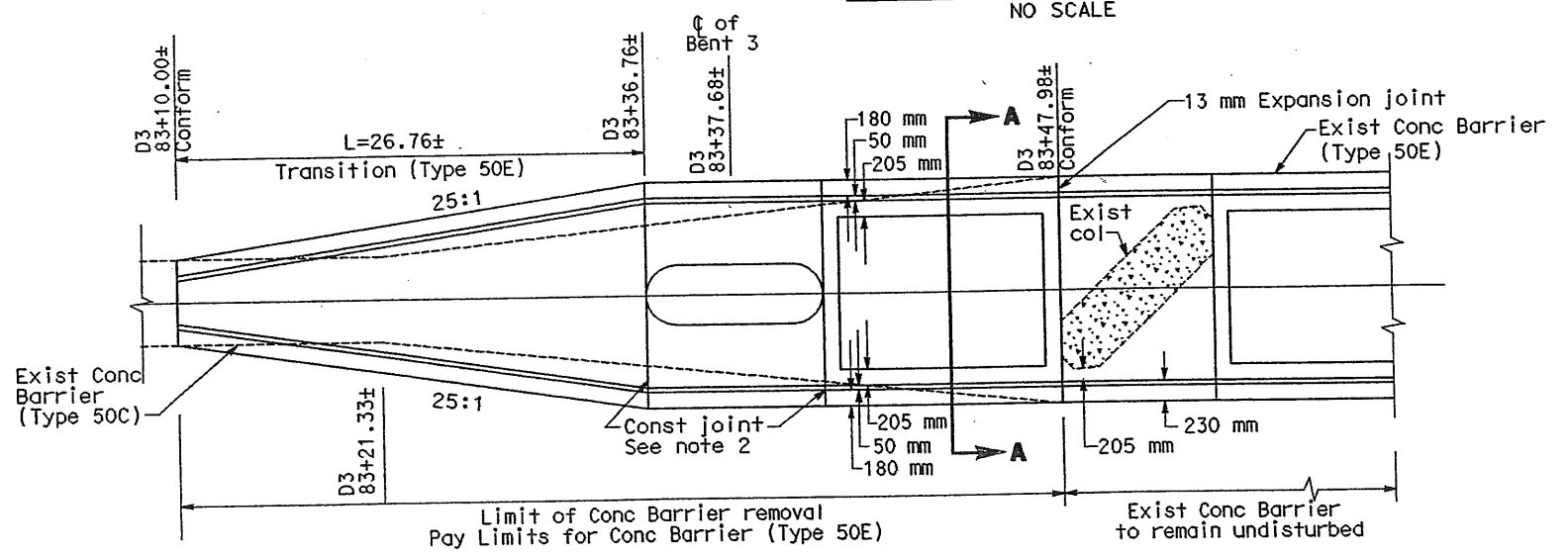
SECTION A
NO SCALE

NOTES:

- Contractor options for fill between Barrier walls:
 - Place 100 mm PCC at base between Barrier walls.
 - Place 305 mm of granular material at base between walls.
 - Place granular material from base to bottom of cap.
- Reinforcing steel shall extend continuous through construction joints.
- Adjust height of Barrier on low side of offset or superelevated roadways to provide level grade across top of Type 50E Barrier.



CONCRETE BARRIER (TYPE 50E)
SECTION A-A
NO SCALE



ROUTE 101 MEDIAN BARRIER TRANSITION
NO SCALE

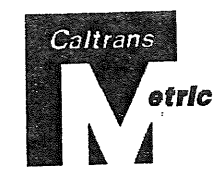
CONCRETE BARRIER TYPE 60C MODIFIED WITH TYPE 1B SIGNAL
NO SCALE

CONSTRUCTION DETAILS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

NO SCALE

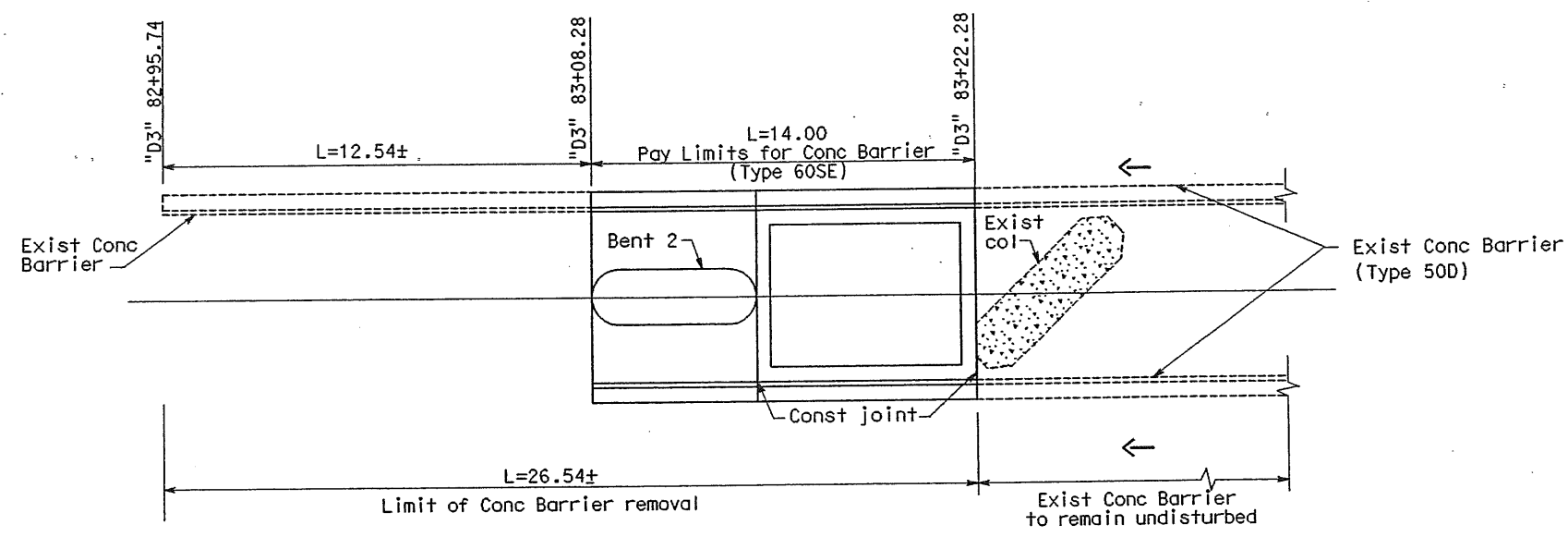
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 MICHAEL REYES
 CALCULATED/ DESIGNED BY JVS
 CHECKED BY JTP
 DATE REVISED BY 10/02
 DATE REVISED 10/02



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	13	103

James T. Pun 4/30/04
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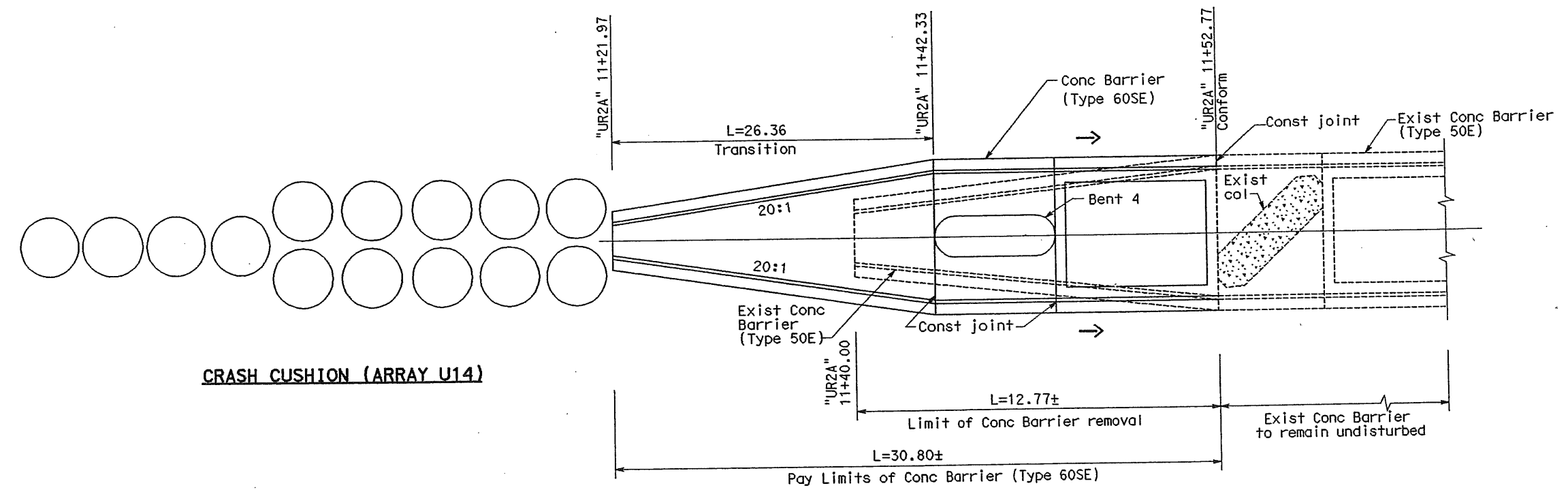
LEGEND:

→ Direction of traffic

NOTES:

1. See Standard Plans A76I for details not shown.
2. See Standard Plans A76B for transition Concrete Barrier Type 60 to Concrete Barrier Type 50.

CONCRETE BARRIER TRANSITION AT BRIDGE COLUMN (BENT 2)
CONCRETE BARRIER TYPE 60SE
 NO SCALE



CONCRETE BARRIER TRANSITION AT BRIDGE COLUMN (BENT 4)
CONCRETE BARRIER TYPE 60SE
 NO SCALE

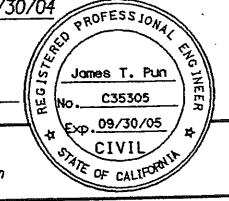
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

CONSTRUCTION DETAILS
 NO SCALE



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	14	103

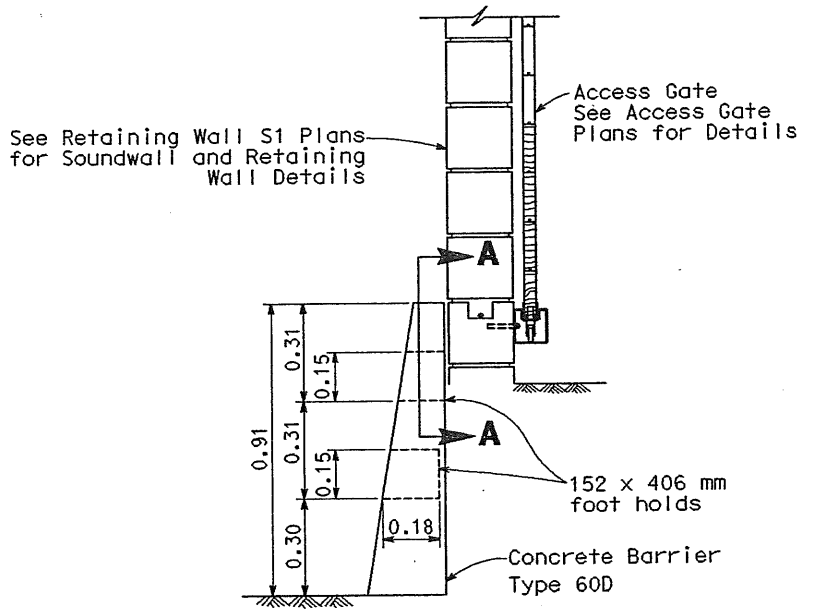
James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER



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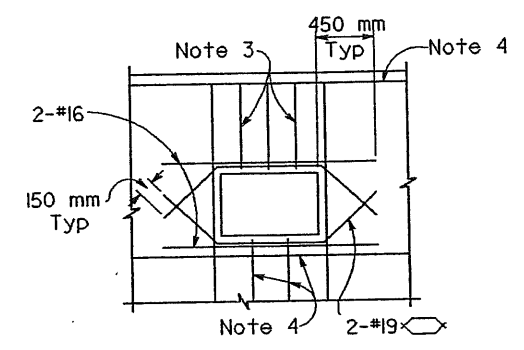


CONCRETE BARRIER AT ACCESS GATE

NO SCALE

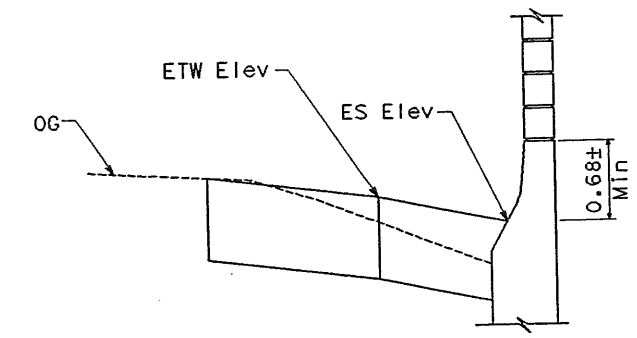
NOTES:

1. Section A-A is typical for both footholds.
2. All reinforcement detailed to be placed in addition to reinforcement shown on Standard Detail A76A for Type 60D Concrete Barrier.
3. Reinforcement to be same bar size, and $\frac{2}{3}$ the spacing of adjacent reinforcement shown on Standard Detail A76A for Type 60D Concrete Barrier.
4. Reinforcement to be same bar size and shape as adjacent reinforcement shown on Standard Detail A76A for Type 60D Concrete Barrier.



SECTION A-A

NO SCALE

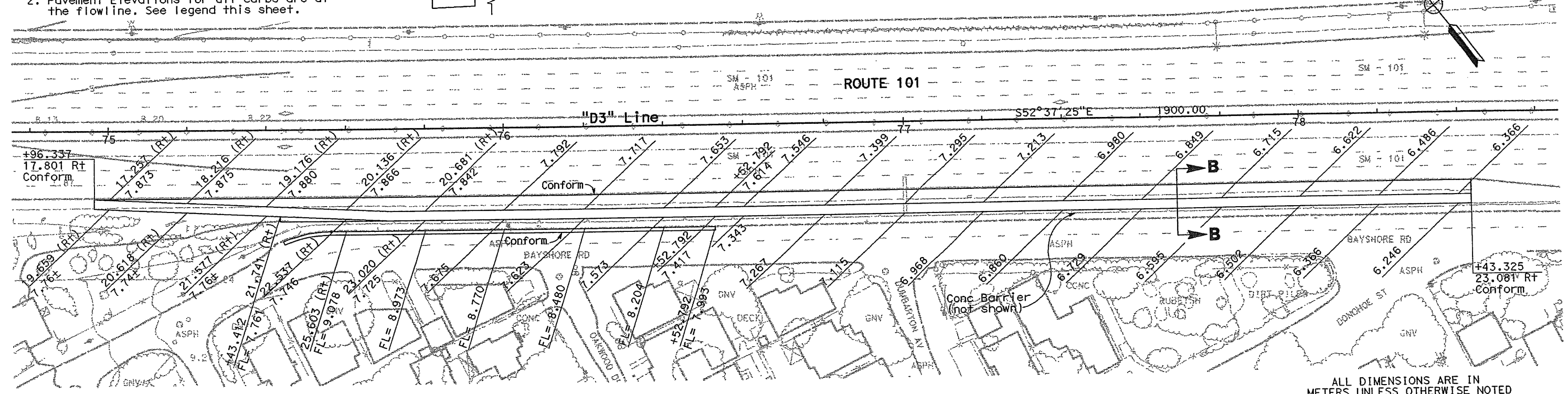
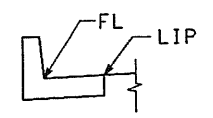


SECTION B-B

NO SCALE

- NOTES:**
1. Pavement Elevations are at even 20 meter stations on mainline control line, unless noted otherwise.
 2. Pavement Elevations for all curbs are at the flowline. See legend this sheet.

LEGEND



D3 - AUXILIARY LANE PAVEMENT ELEVATION DETAILS

SCALE 1:500

CONSTRUCTION DETAILS

SCALE: AS SHOWN

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DESIGNED BY MOJ 6/03
CHECKED BY JTP 6/03
REVISOR DATE

DESIGN OVERSIGHT
MICHAEL REYES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CALCULATED/ DESIGNED BY	CHECKED BY	DATE 6/03	REVISED BY	DATE 6/03
MOJ	JTP			

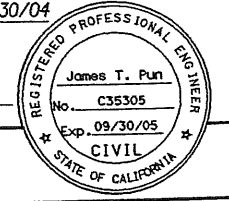
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	15	103

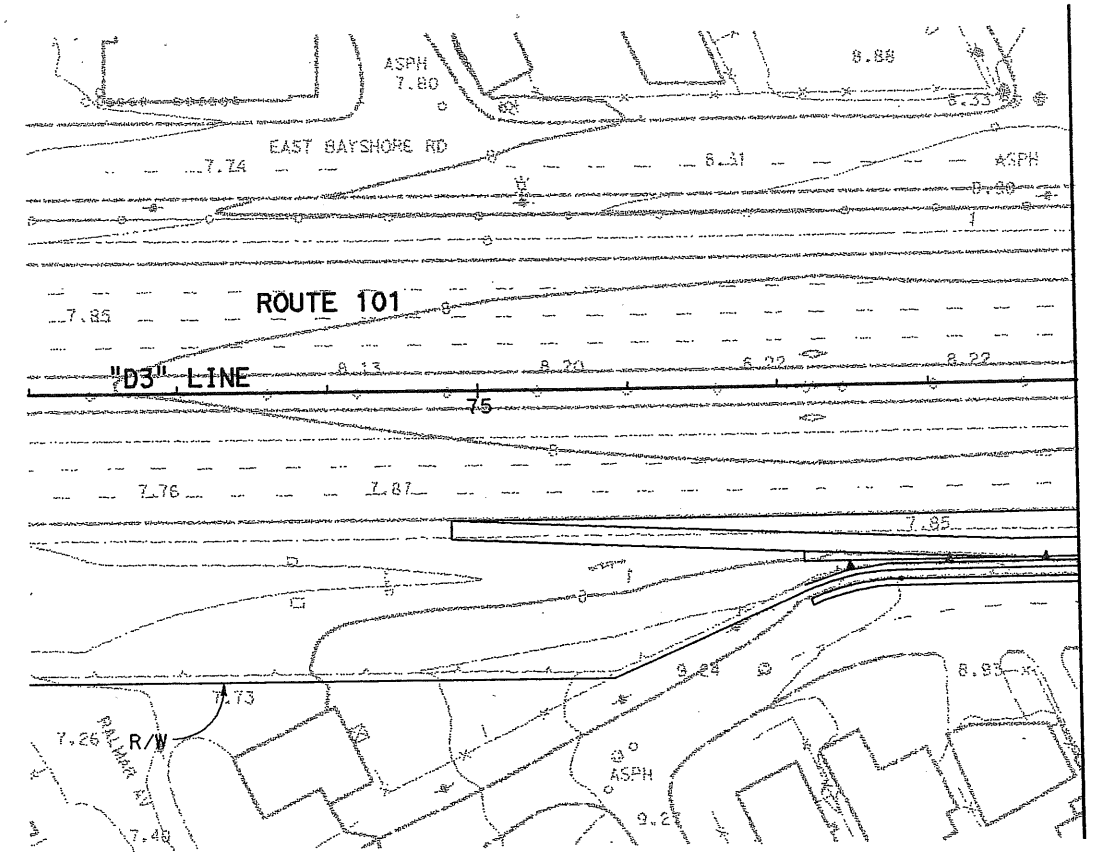
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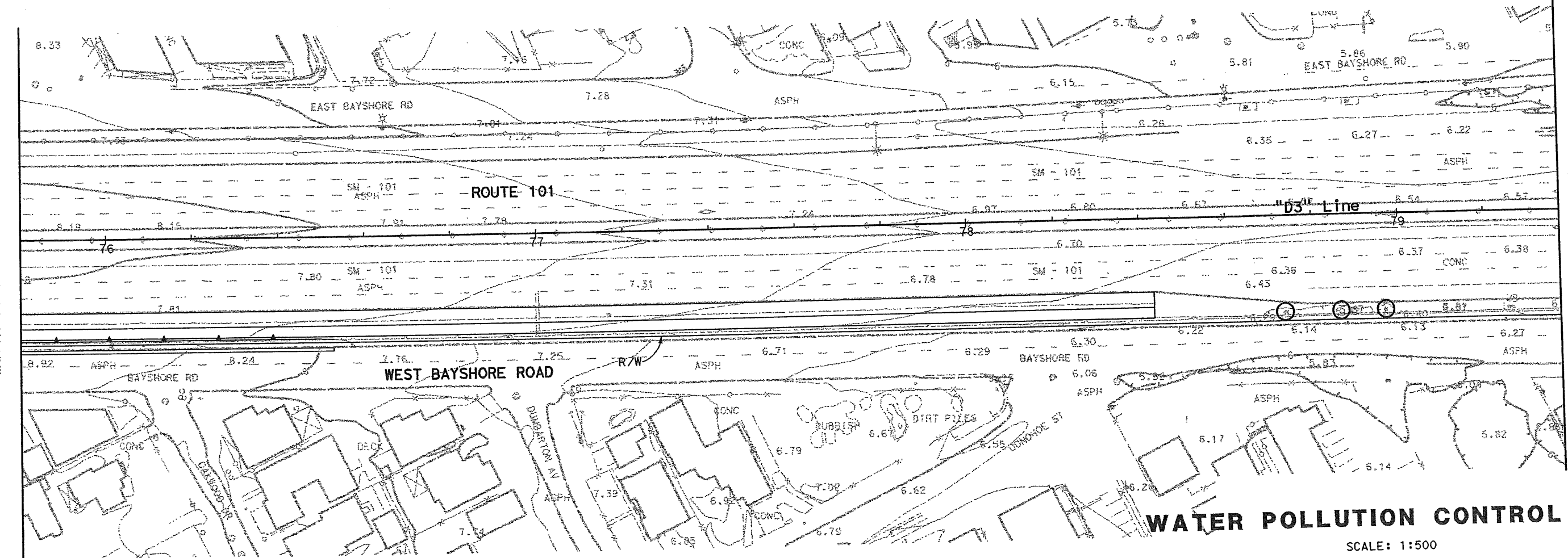
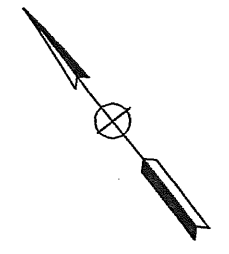
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Match line Sta 75+80

- LEGEND:**
- Temporary Drainage Inlet Protection
 - Temporary Erosion Control



See sheet WPC-2

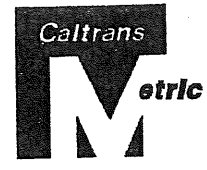
WATER POLLUTION CONTROL PLAN

SCALE: 1:500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
THIS PLAN ACCURATE FOR EROSION CONTROL ONLY.

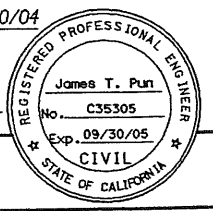
WPC-1

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Caltrans
 DESIGN OVERSIGHT
 DAVID YAM
 CHECKED BY JTP 6/03 DATE REVISED 2/04
 DESIGNED BY MOJ 6/03
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		16	103

James Pun 4/30/04
 REGISTERED CIVIL ENGINEER



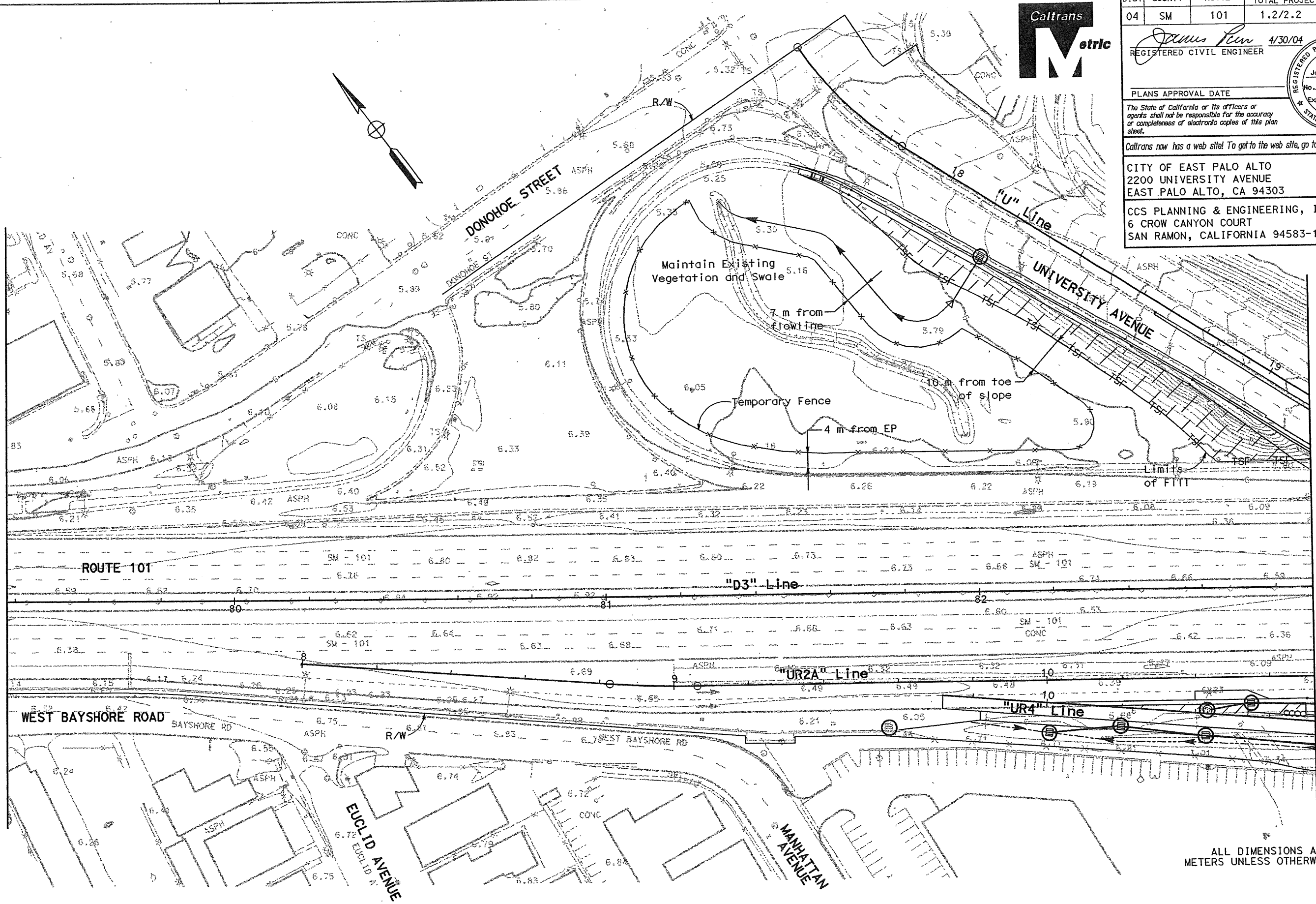
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See sheet WPC-1

See sheet WPC-3

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WATER POLLUTION CONTROL PLAN

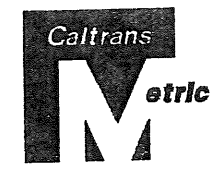
SCALE: 1:500

THIS PLAN ACCURATE FOR WATER POLLUTION CONTROL ONLY.

FOR NOTES ABBREVIATIONS AND/OR LEGEND SEE SHEET WPC-1

WPC-2

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 DESIGNED BY MOJ 6/03
 REVISIONS:
 IVS 2/04
 DATE REVISID 2/04



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04	SM	101	1.2/2.2	17	103

James Pun 4/30/04
 REGISTERED CIVIL ENGINEER

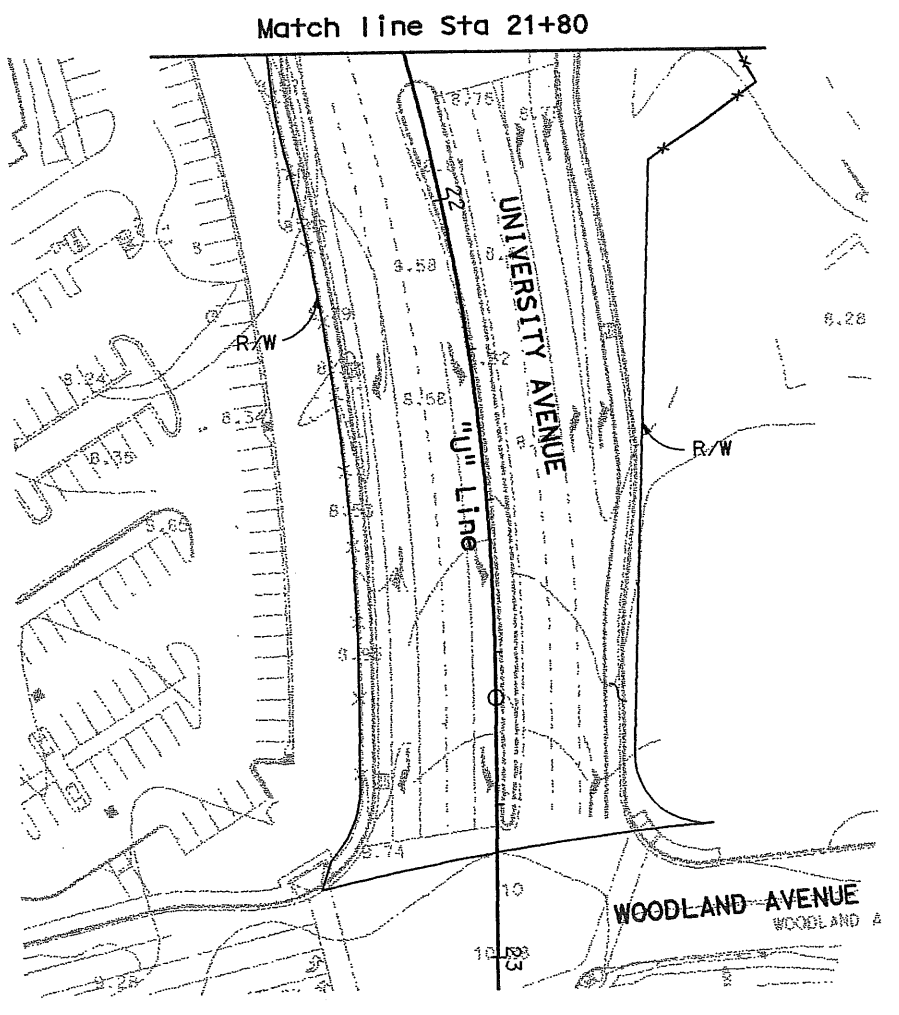
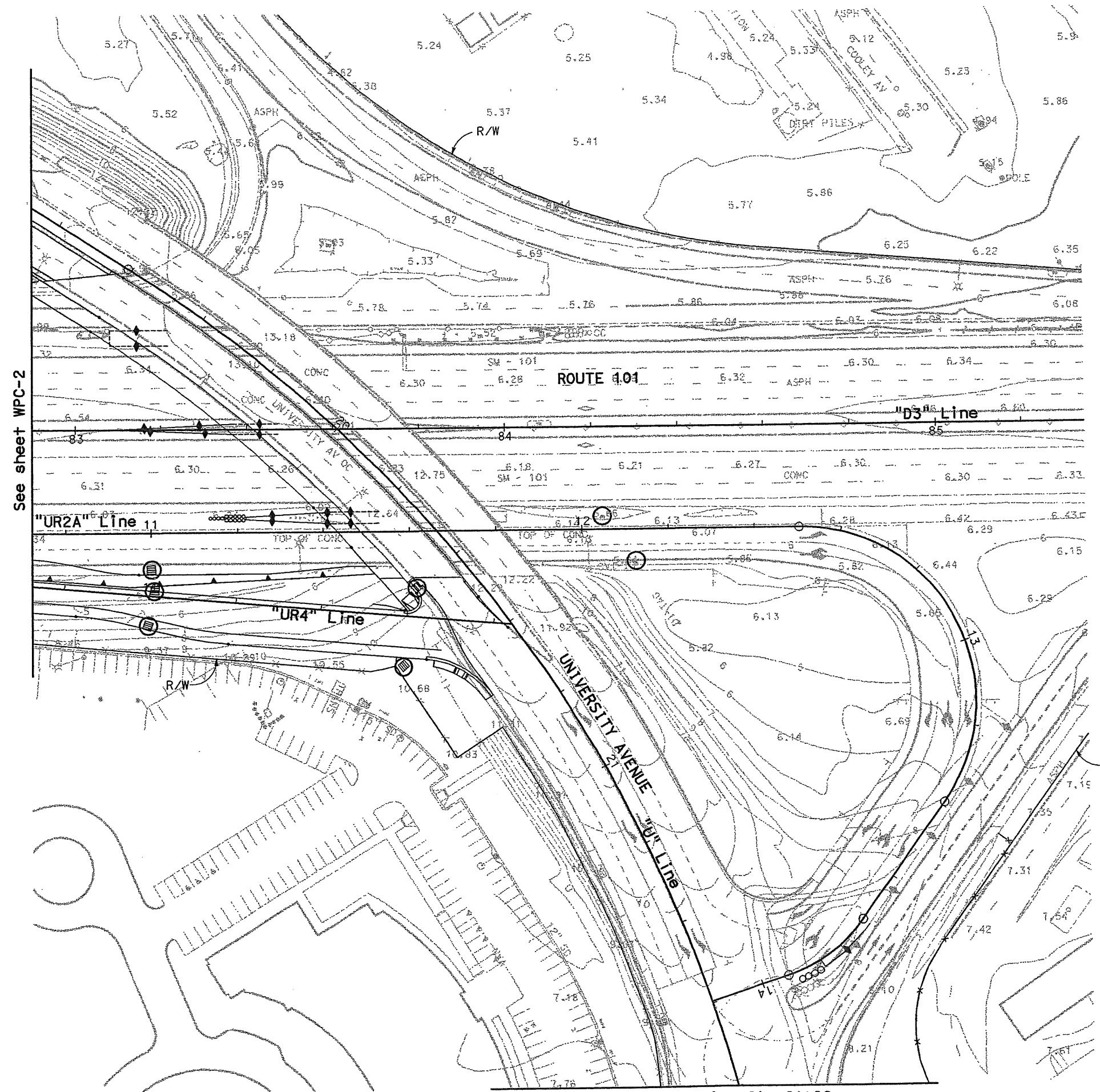
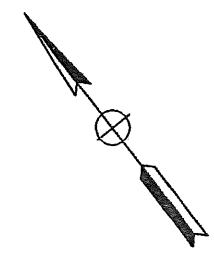
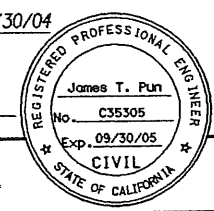
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WATER POLLUTION CONTROL PLAN

SCALE: 1:500

WPC-3

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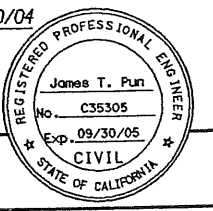
FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET WPC-1

Match line Sta 21+80



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	18	103

James T. Pun 4/30/04
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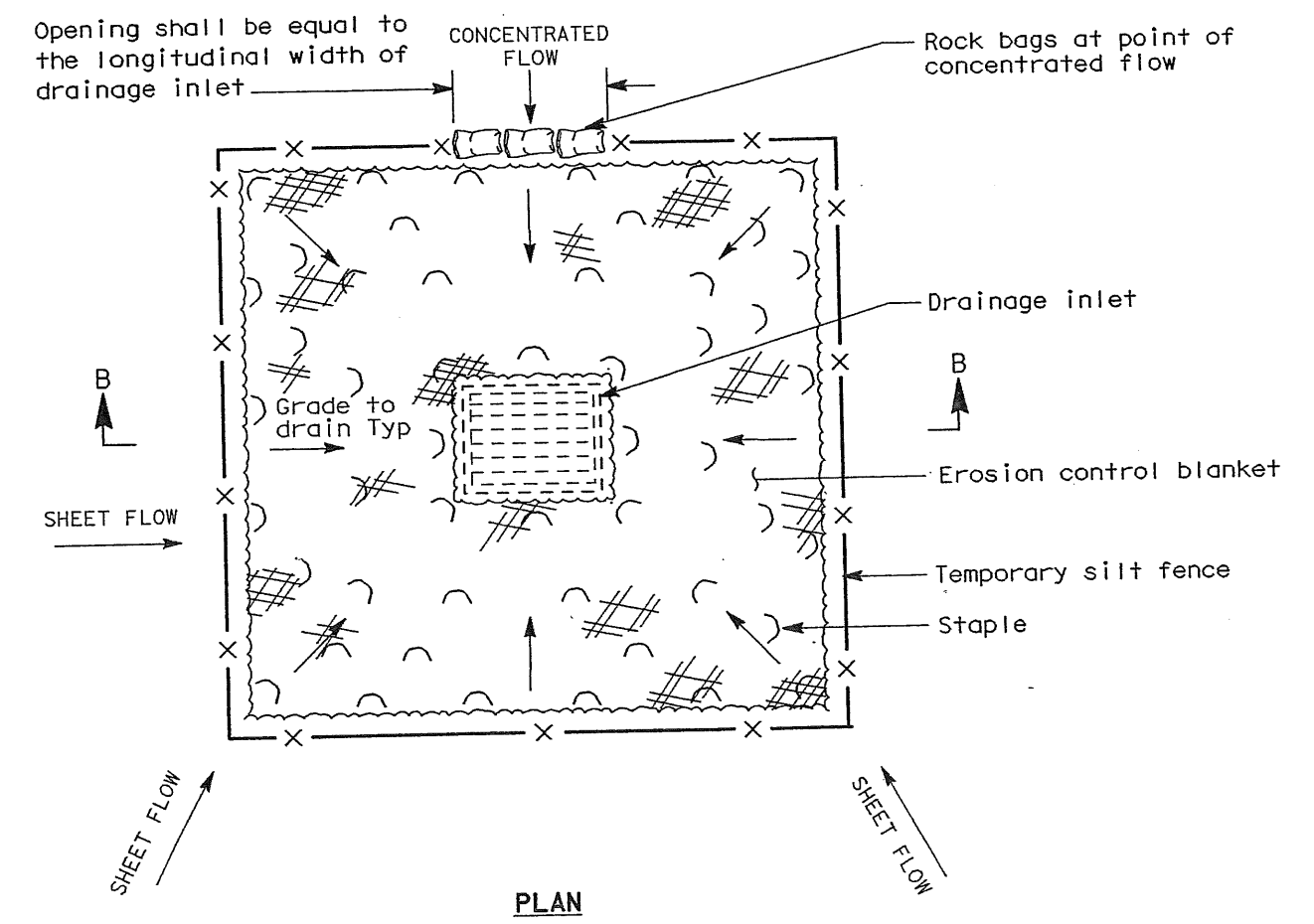
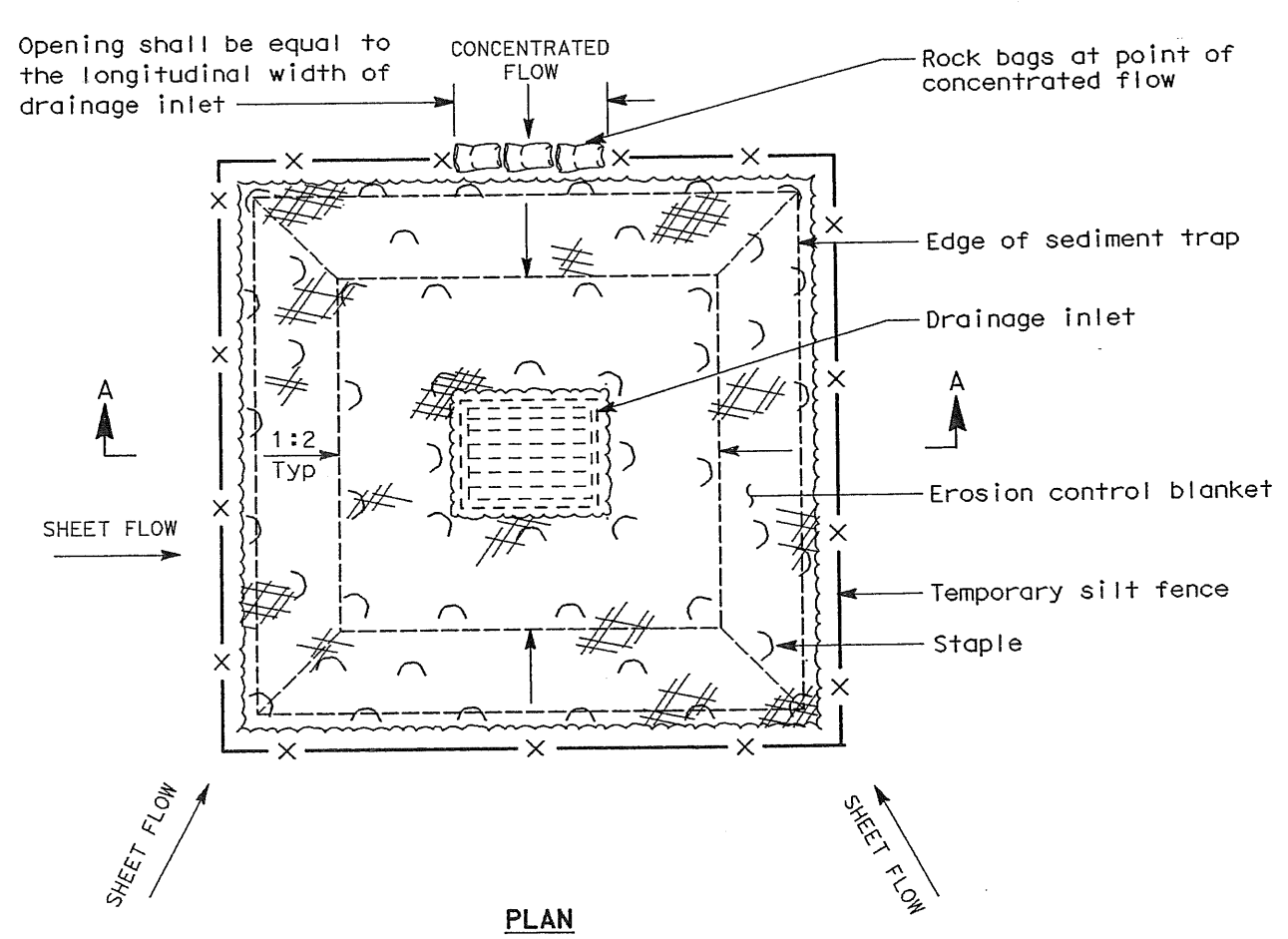
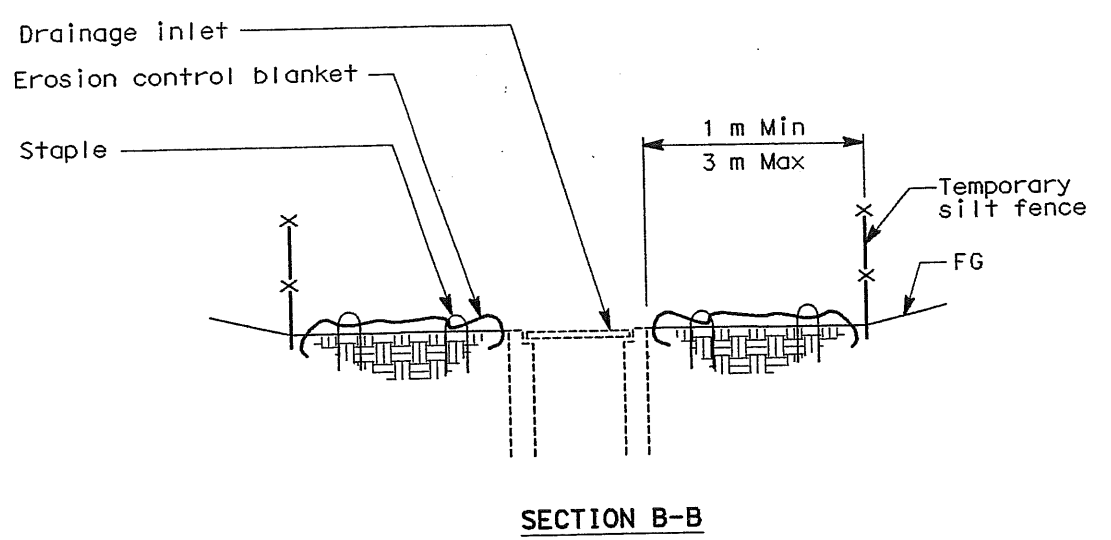
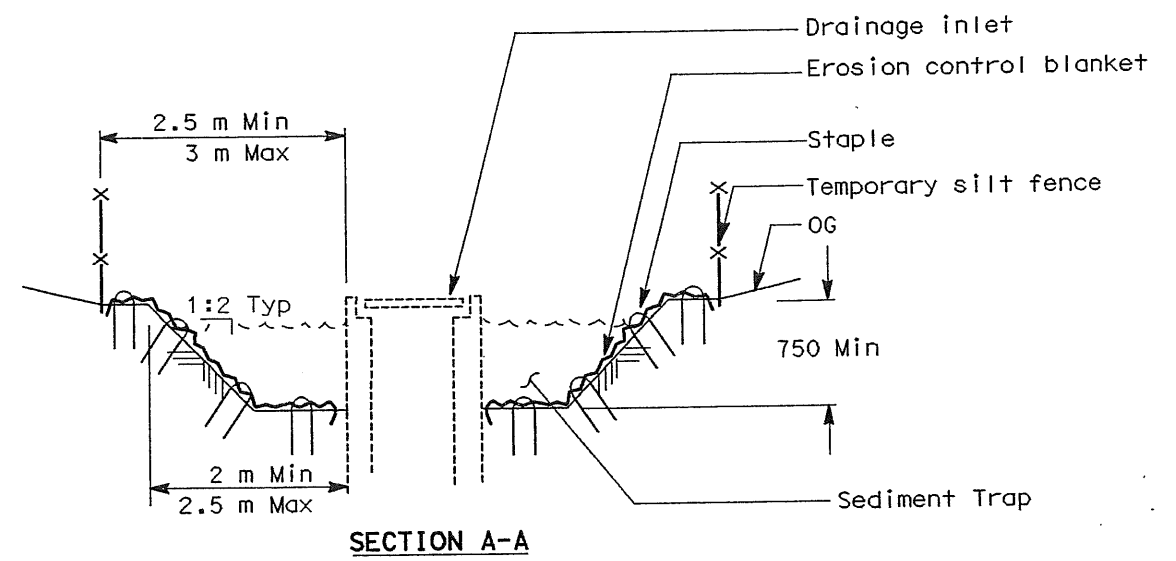
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DESIGN OVERSIGHT
DAVID YAM

DATE	REVISOR	DATE	REVISOR
4/03	IVS	4/03	JTP
CALCULATED/DESIGNED BY		CHECKED BY	



TEMPORARY DRAINAGE INLET PROTECTION (Type 1A)
(For areas where finished grade is not established)

TEMPORARY DRAINAGE INLET PROTECTION (Type 1B)
(For areas where finished grade is established)

TEMPORARY WATER POLLUTION CONTROL DETAILS
NO SCALE

All dimensions are in millimeters unless otherwise shown

DESIGNED BY
IJS
4/03

CHECKED BY
JTP
4/03

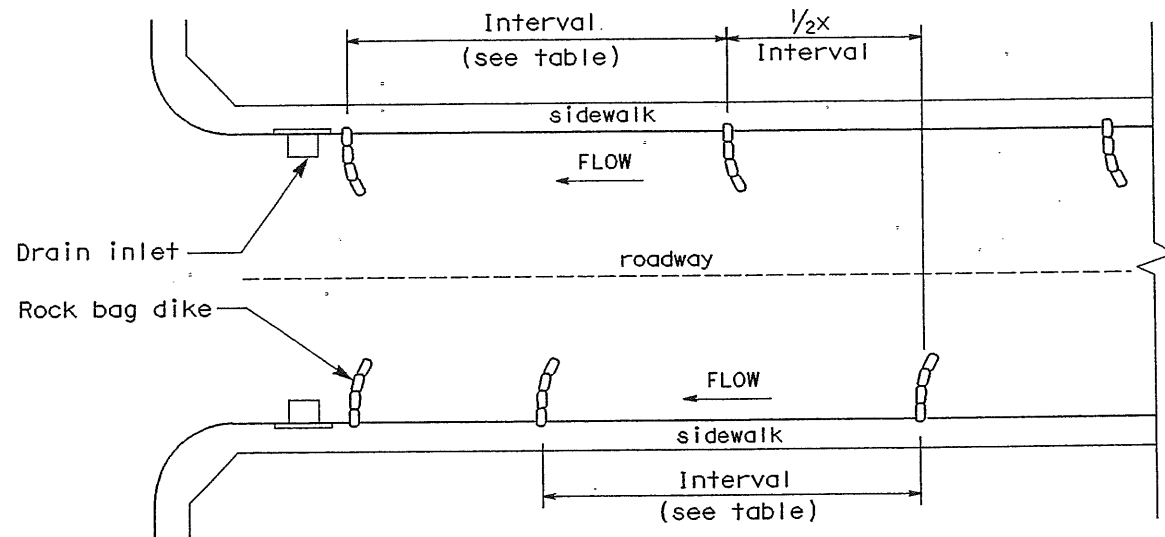
REVISOR
DATE

REVISOR
DATE

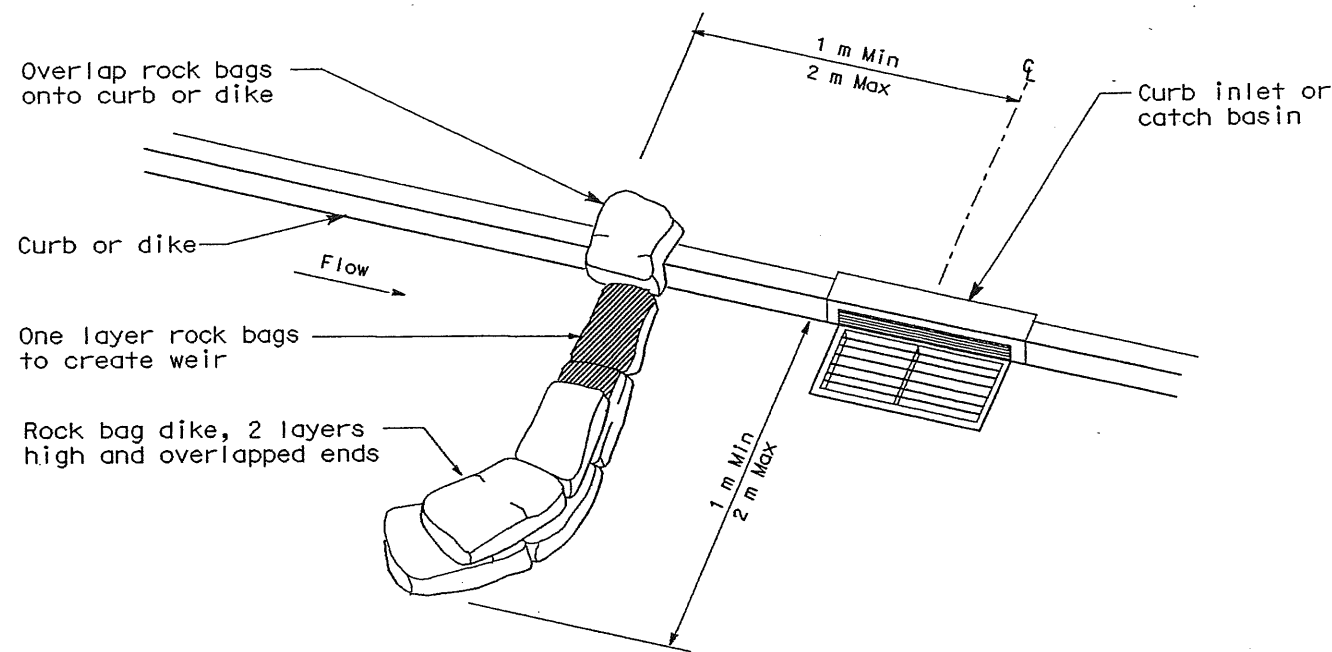
DESIGN OVERSIGHT
DAVID YAM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans



PLAN



PERSPECTIVE

ROCK BAG DIKE SPACING

SLOPE OF ROADWAY	INTERVAL (m)
10% or More	4
9.9% to 8.0%	7.5
7.9% to 6.0%	15
5.9% to 4.0%	22.5
3.9% to 1.0%	30
1.0% or Less	Only if erosion is prevalent

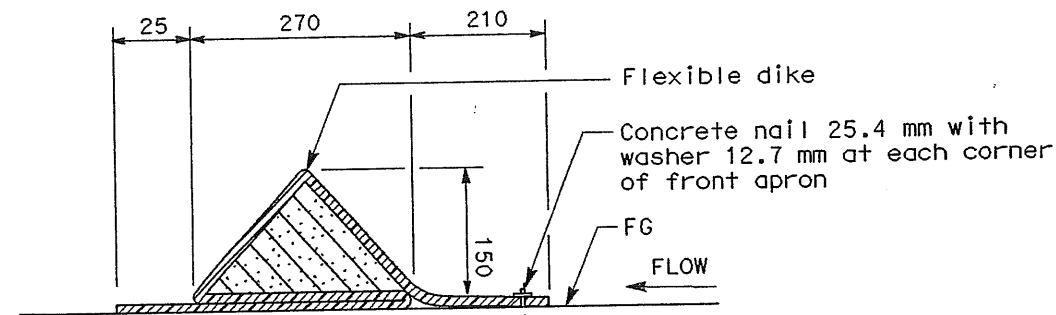
NOTES:

- Construct on gently sloping streets where water can pond and allow sediment to separate out of suspension.
- Place 2 layers of rock bags. Overlap bags and pack tightly together to eliminate gaps.
- Inspect and repair rock bag dikes after each storm event. Remove sediment before it reaches top of curb or rock bags.
- Install a minimum of 3 rock bag dikes upstream of each drainage inlet to be protected.

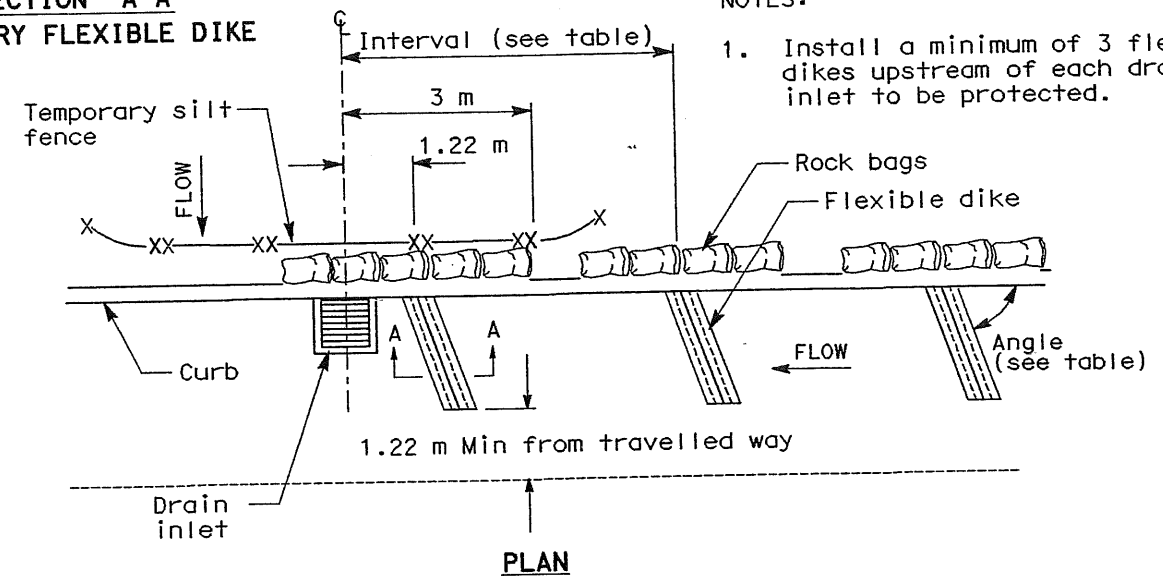
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2a)
For paved areas adjacent to sidewalks not exposed to traffic

TEMPORARY FLEXIBLE DIKE

SLOPE OF ROADWAY	1%	2%	3%	4%	5%
INTERVAL (m)	15.24	10.67	9.14	7.62	6.10
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
FLEXIBLE DIKE LENGTH (m)	1.82	1.82	1.82	1.82	1.82

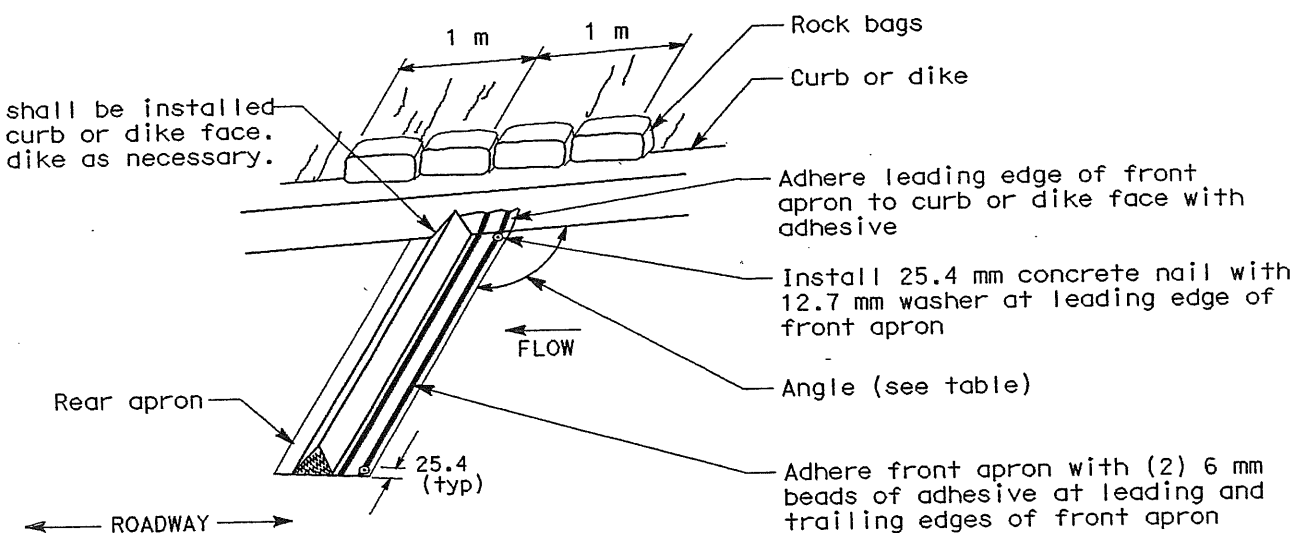


SECTION A-A
TEMPORARY FLEXIBLE DIKE



PLAN

Flexible dike shall be installed flush against curb or dike face. Trim flexible dike as necessary.



PERSPECTIVE

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2b)
for paved areas not exposed to traffic

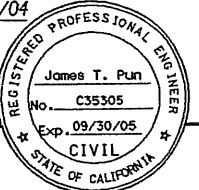
All dimensions are in millimeters unless otherwise shown

TEMPORARY WATER POLLUTION CONTROL DETAILS

NO SCALE

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		19	102

REGISTERED CIVIL ENGINEER
James T. Pun
4/30/04



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NOTES:

- Install a minimum of 3 flexible dikes upstream of each drainage inlet to be protected.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT: DAVID YAM

REVISOR: IVS 4/03, JTP 4/03

CHECKED BY: JTP

DESIGNED BY: IVS

DATE: 4/03

DATE REVISED: 4/03

Caltrans



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		20	103

REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

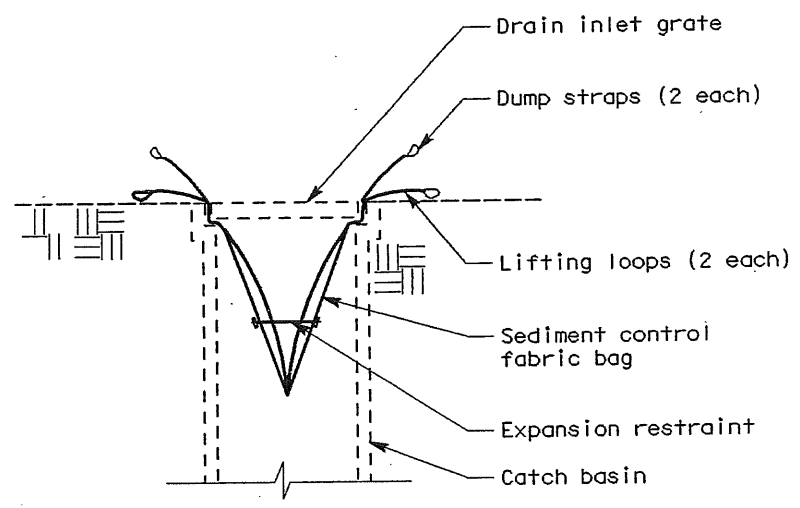
PLANS APPROVAL DATE

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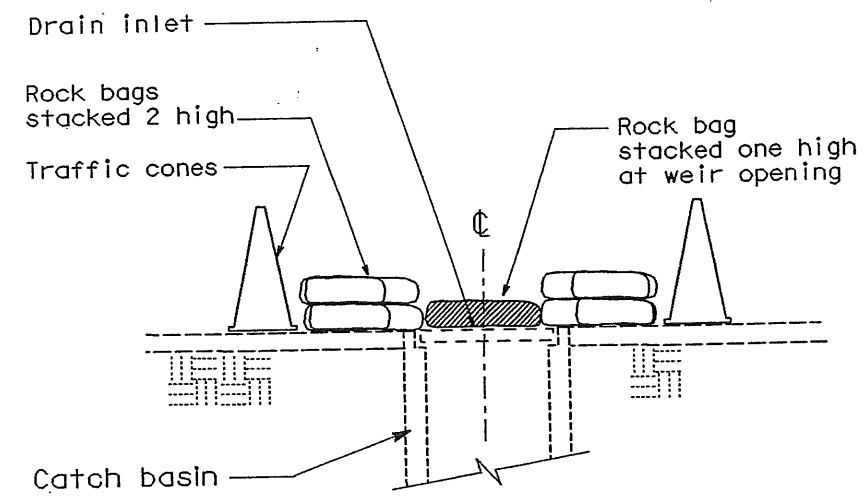
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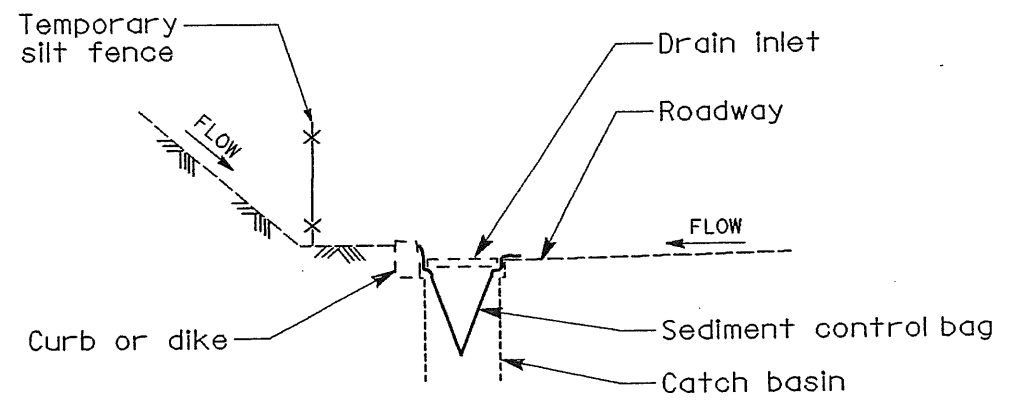
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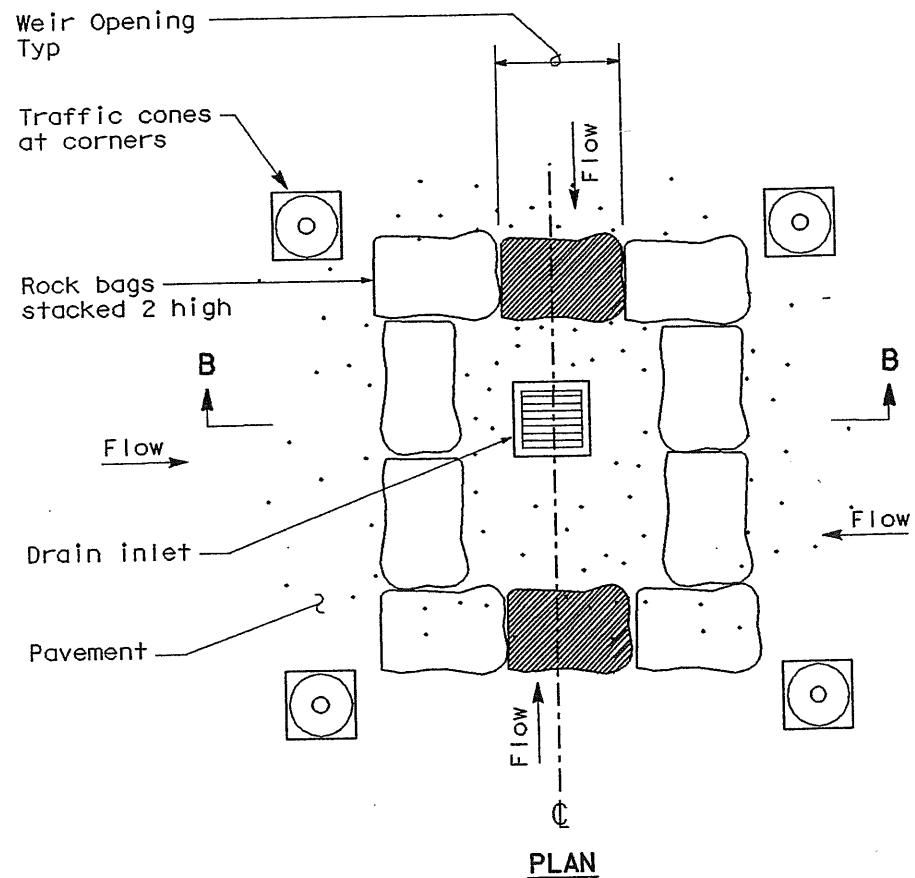
SECTION SEDIMENT CONTROL BAG



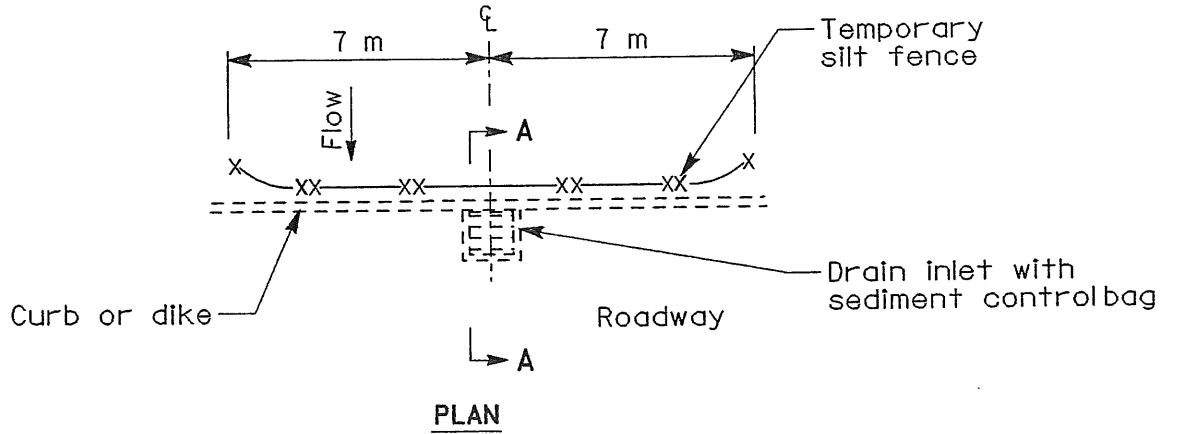
SECTION B-B



SECTION A-A



PLAN



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3)
 For paved areas exposed to traffic

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4)
 for paved areas not exposed to traffic

All dimensions are in millimeters unless otherwise shown

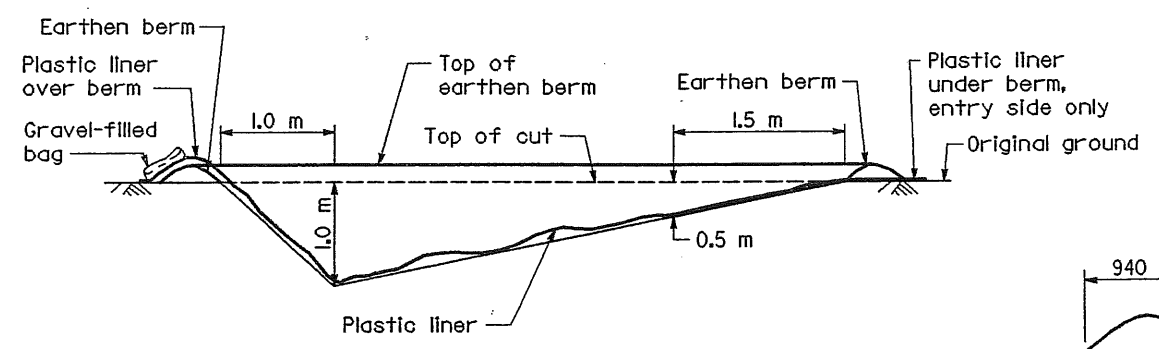
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 DAVID YAM
 DATE REVISIONS
 4/03
 4/03
 IVS
 JTP
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE REVISIONS
 DATE REVISIONS



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		21	103

REGISTERED CIVIL ENGINEER
 James T. Pun
 No. C35305
 Exp. 09/30/05
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 STATE OF CALIFORNIA

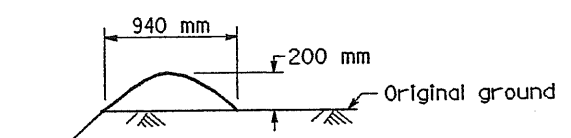
PLANS APPROVAL DATE: 4/30/04
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 CCS PLANNING & ENGINEERING, INC.
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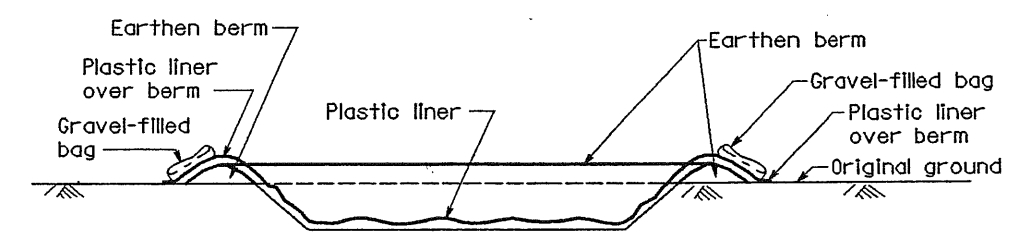
SECTION B-B

NOTES

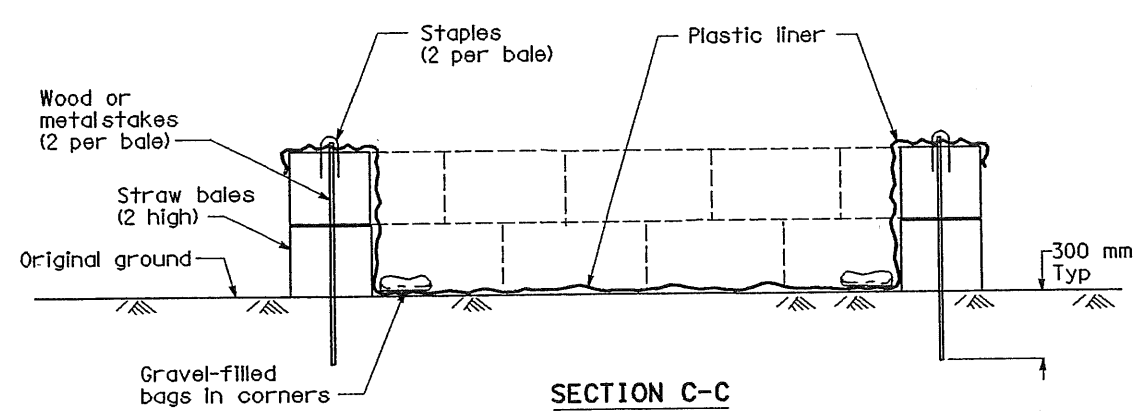
- The concrete washout sign shall be installed within 10 meters of the temporary concrete washout facility.
- Plastic liner anchored with gravel-filled bags is optional for below grade concrete washout installations.



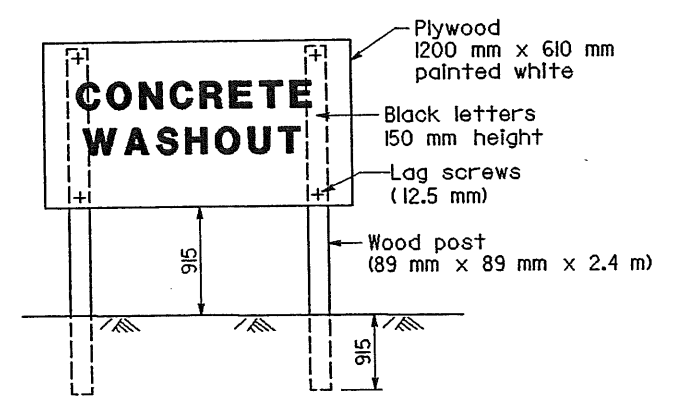
TYPICAL SECTION EARTHEN BERM



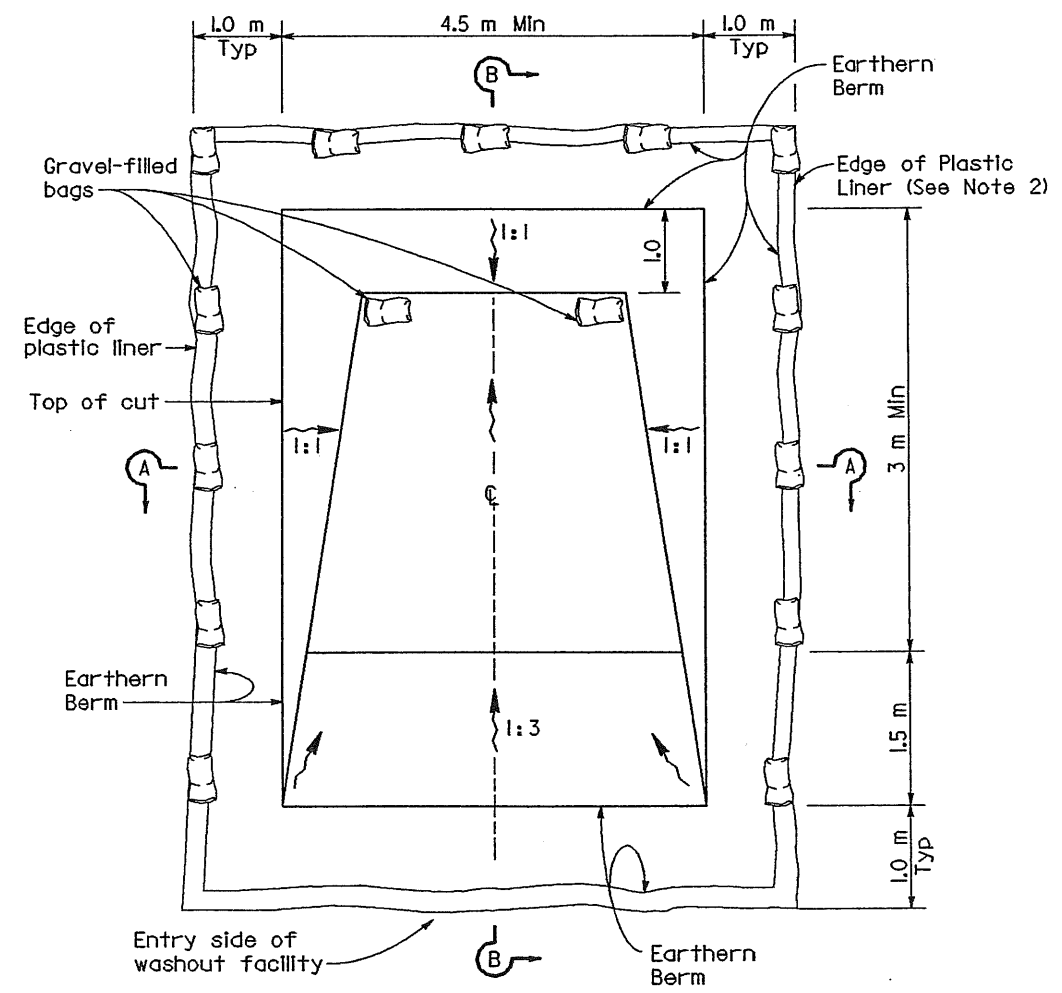
SECTION A-A



SECTION C-C

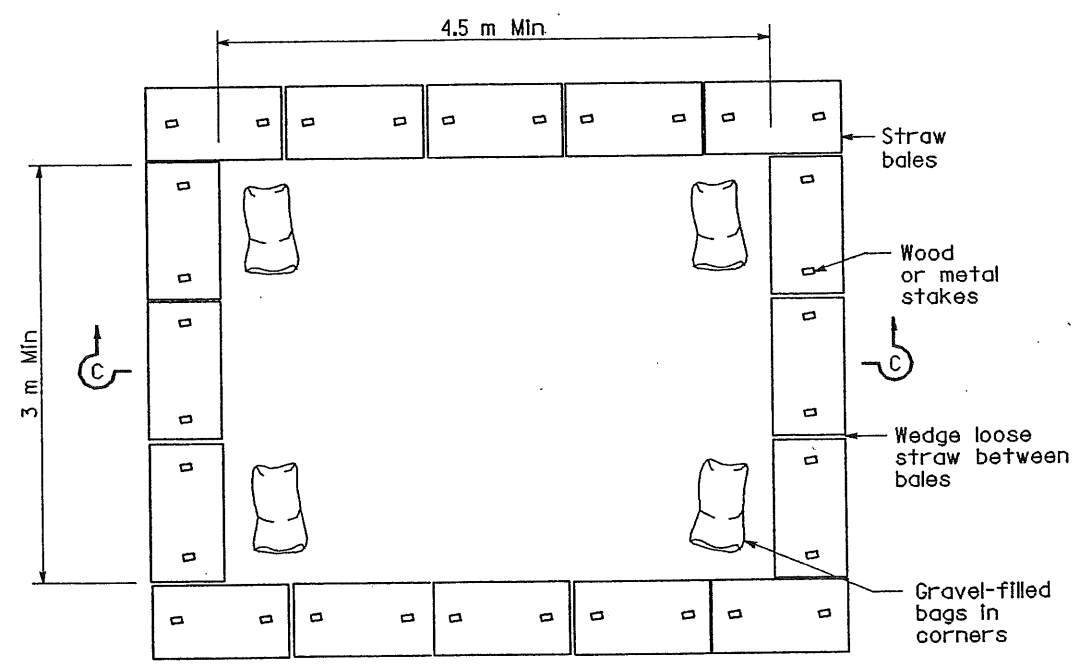


CONCRETE WASHOUT SIGN DETAIL



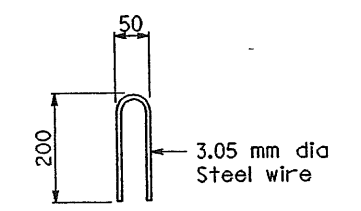
PLAN

TEMPORARY CONCRETE WASHOUT FACILITY (Below Grade)



PLAN

TEMPORARY CONCRETE WASHOUT FACILITY (On Grade)



STAPLE DETAIL

TEMPORARY WATER POLLUTION CONTROL DETAILS

NO SCALE

All dimensions are in millimeters unless otherwise shown

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans

DESIGN OVERSIGHT
 DAVID YAM

CALCULATED / DESIGNED BY
 IVS

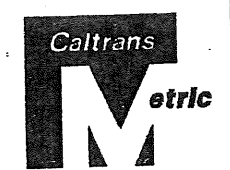
CHECKED BY
 JTP

REVISOR
 DATE

REVISED BY
 DATE

DATE
 4/03

DATE
 4/03



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		22	103

REGISTERED CIVIL ENGINEER
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 No. C35305
 Exp. 09/30/05
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 STATE OF CALIFORNIA

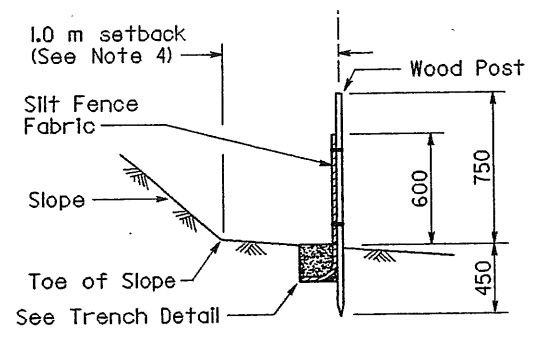
PLANS APPROVAL DATE

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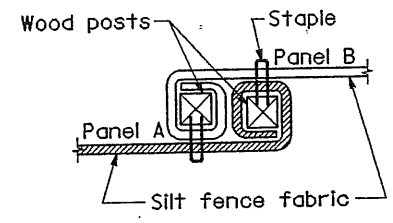
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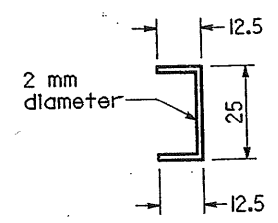
CCS PLANNING & ENGINEERING, INC.
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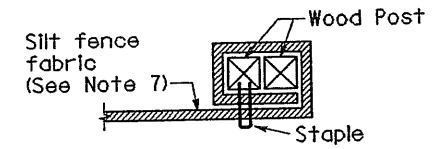
SECTION A-A
 TEMPORARY SILT FENCE



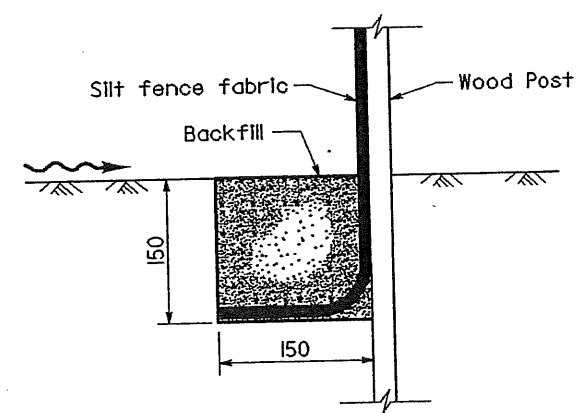
PLAN
 POST AT JOINTS



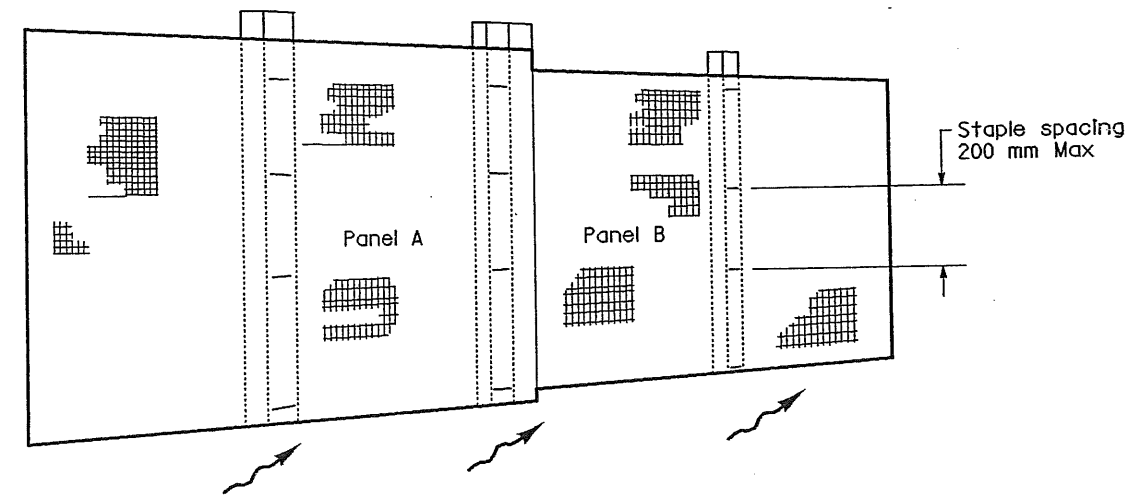
STAPLE DETAIL
 (See Note 8)



PLAN
 END POST DETAIL



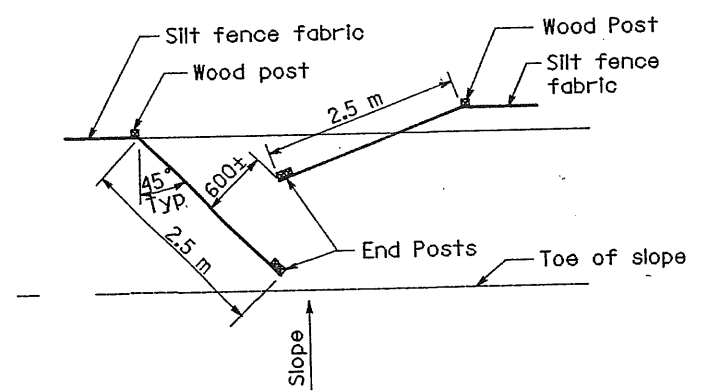
SECTION
 TRENCH DETAIL



PERSPECTIVE
 SILT FENCE PANELS AT JOINTS

NOTES

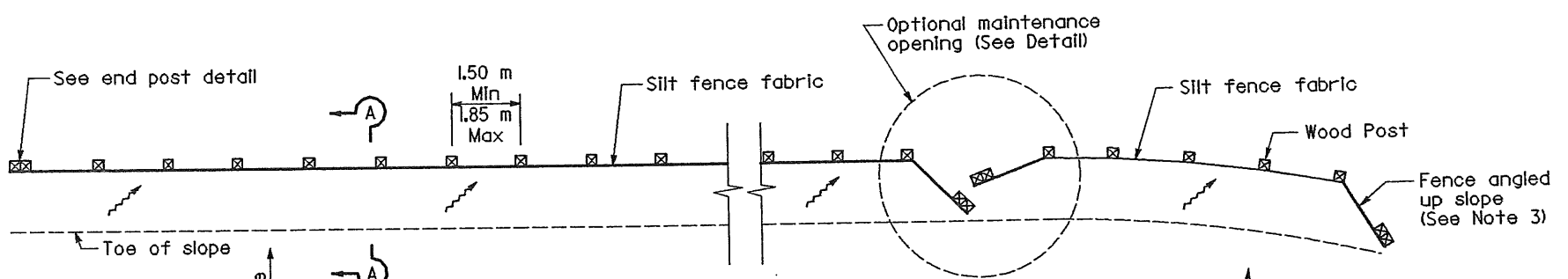
1. Install Temporary Silt Fence by first digging trench, driving posts, placing and securing fabric. Then backfill and tamp.
2. Reach length not to exceed 150 meters.
3. The down stream end of the Temporary Silt Fence shall have the last 2.5 meters angled up slope.
4. Setback dimensions may vary to fit field conditions.
5. Posts to overlap and fence fabric to fold around each post one full turn. Secure fabric with 4 staples for each post.
6. Posts shall be driven tightly together to prevent potential flow-through of sediment at the joint. The tops of the posts shall be secured to each other with wire.
7. For each end post, fence fabric shall be folded around two posts one full turn and secured with 4 staples.
8. Minimum of 4 staples shall be installed per post. Dimensions shown are typical.
9. Maintenance openings shall be constructed in a manner to ensure that sediment is retained by the temporary silt fence.
10. Joint sections shall not be placed at sump locations.



PLAN
 OPTIONAL MAINTENANCE OPENING DETAIL

LEGEND

	Tamped backfill
	Slope direction
	Direction of flow



PLAN
 TEMPORARY SILT FENCE

All dimensions are in millimeters unless otherwise shown
 NO SCALE

TEMPORARY WATER POLLUTION CONTROL DETAILS



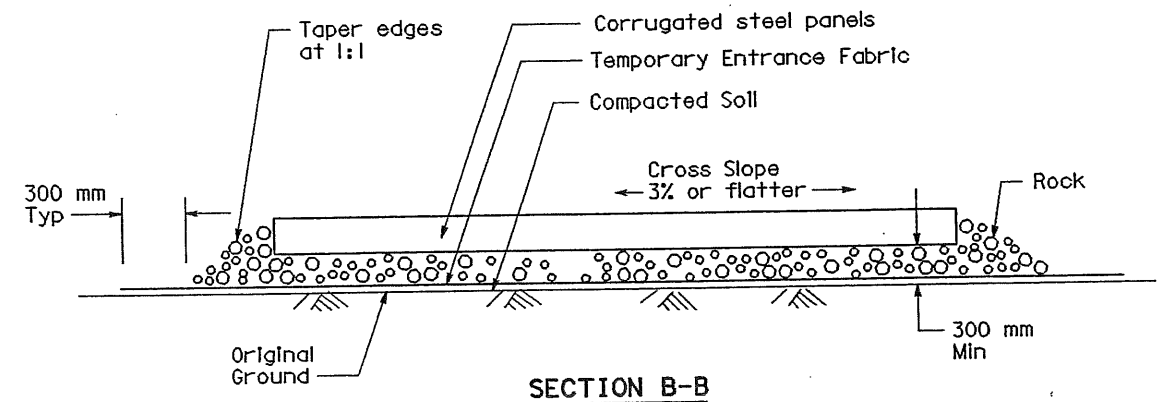
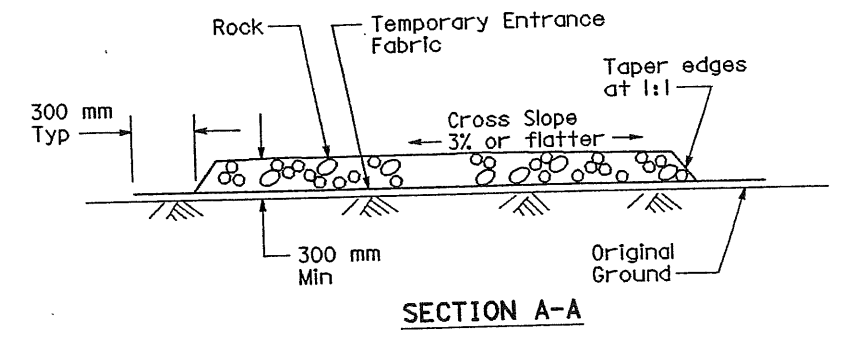
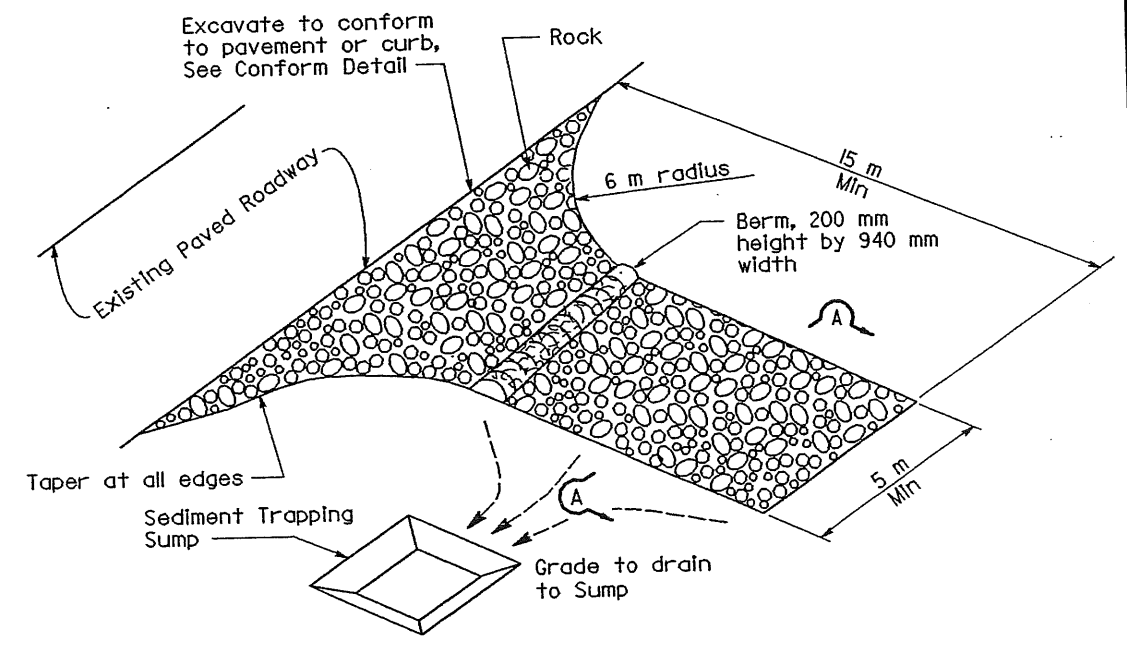
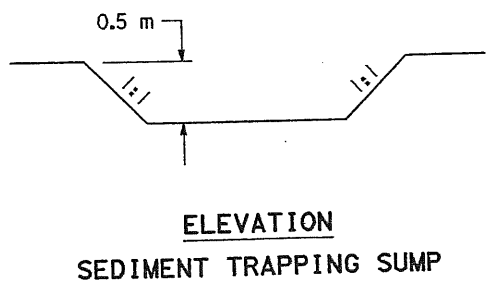
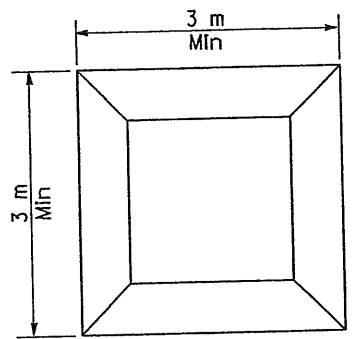
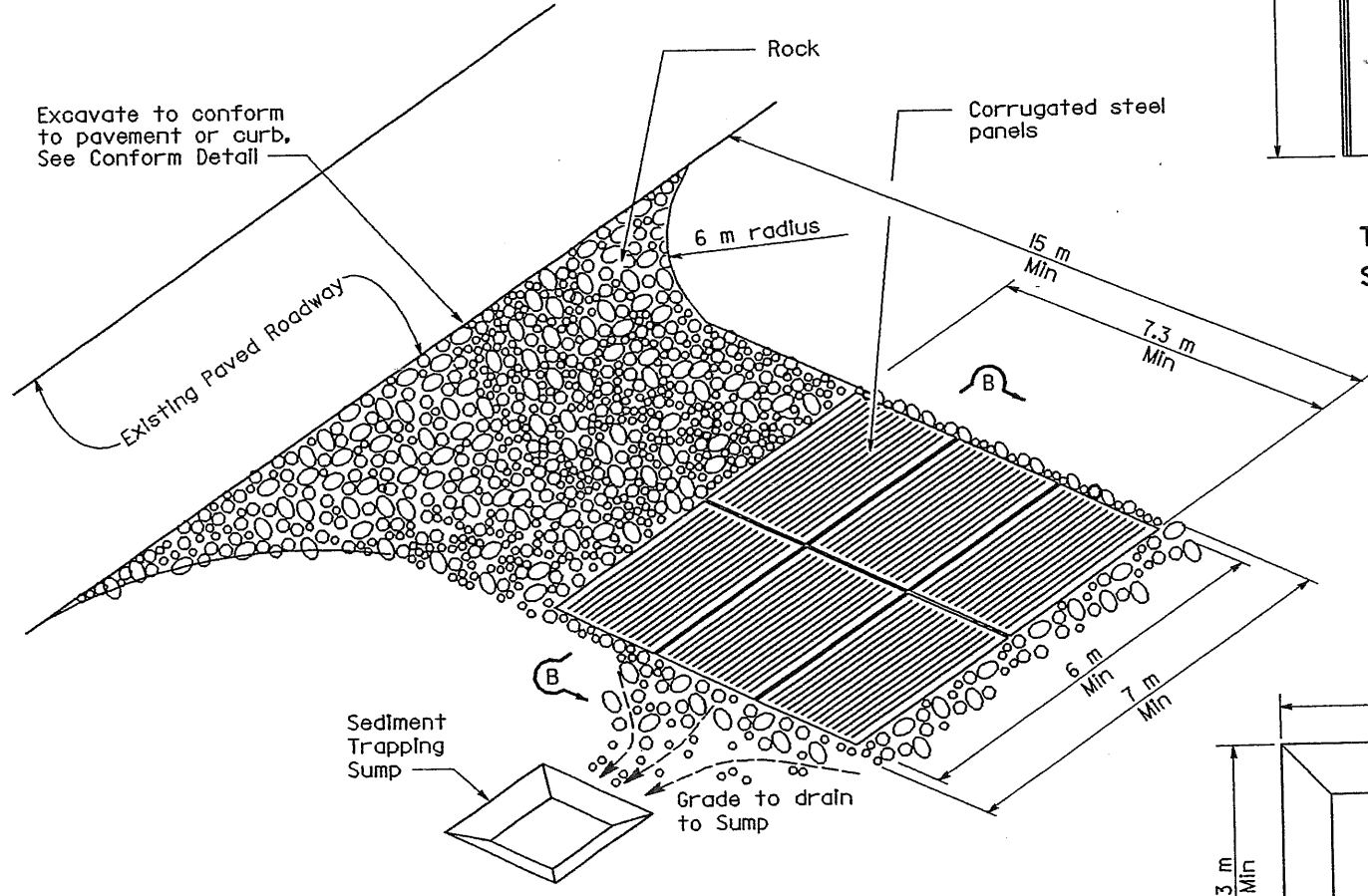
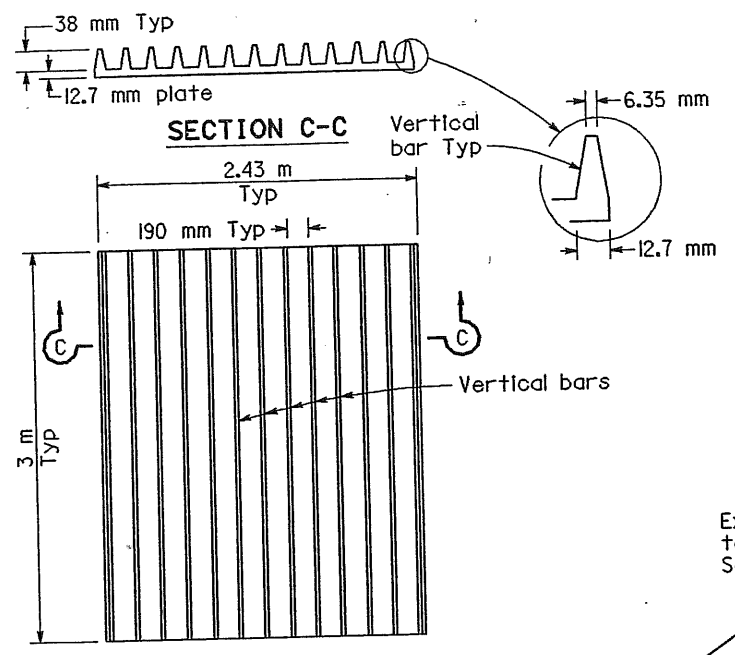
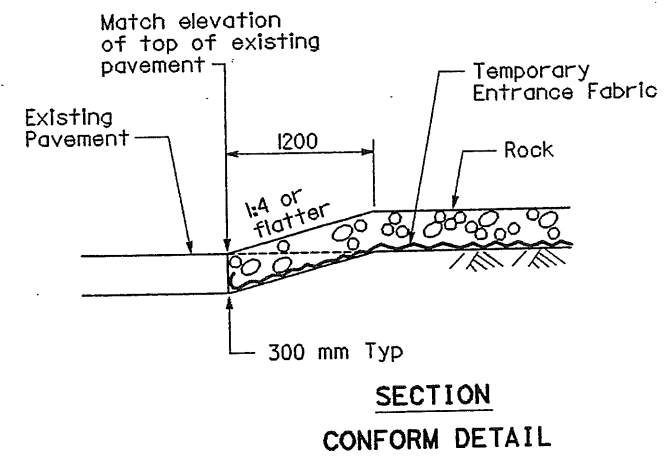
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	23	103

REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

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TEMPORARY WATER POLLUTION CONTROL DETAILS
NO SCALE

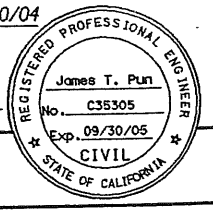
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 DAVID YAM
 CALCULATED/DESIGNED BY IVS 4/03
 CHECKED BY JTP 4/03
 DATE REVISIED BY
 DATE REVISIED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT		DATE	REVISOR
	MICHAEL REYES		6/03	6/03
Caltrans	CALCULATED/DESIGNED BY	CHECKED BY	DATE	REVISOR
	MOJ	JTP	6/03	6/03



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	24	103

James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER



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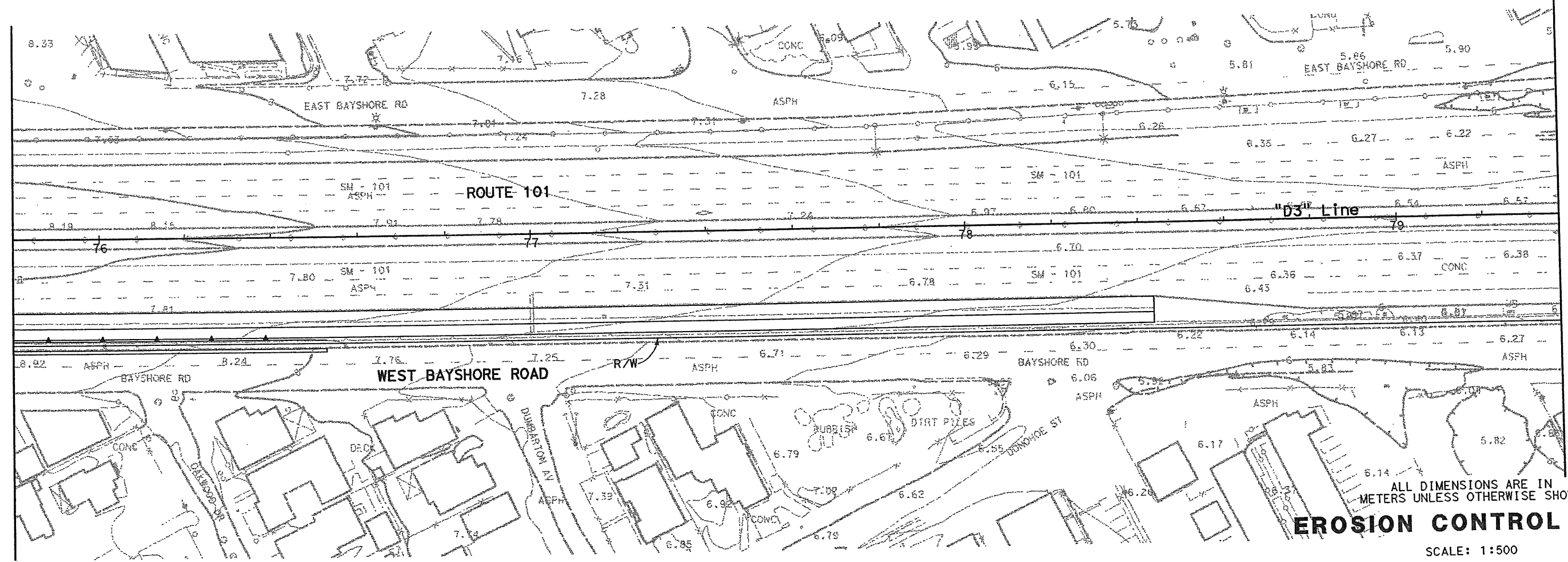
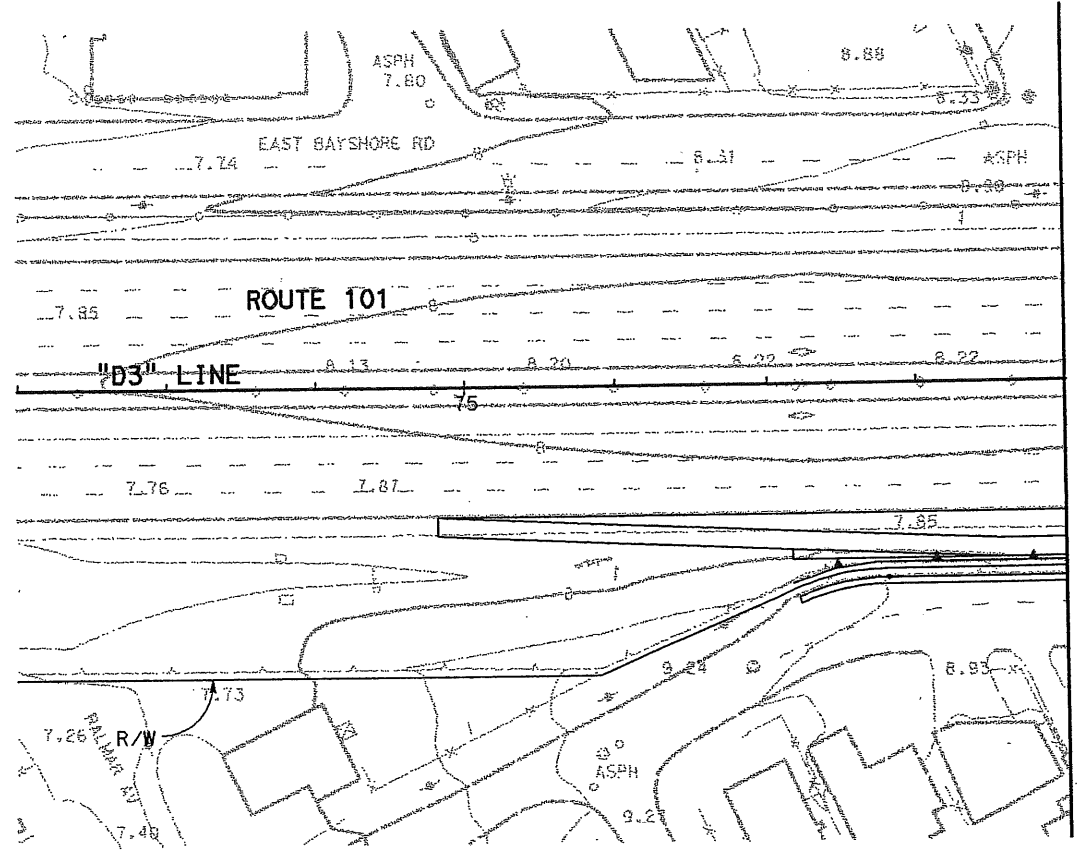
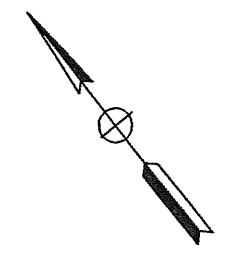
CCS PLANNING & ENGINEERING, INC.
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NOTE:

For Water Pollution Control Details not shown, see WPC sheets.

LEGEND:

- FR — Fiber Roll
- Erosion Control (Type D)



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

EROSION CONTROL PLAN

SCALE: 1:500

THIS PLAN ACCURATE FOR EROSION CONTROL ONLY.

See sheet EC-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT	CALCULATED/DESIGNED BY	DATE	REVISOR
Caltrans	DAVID YAM	MOJ	6/03	IVS
		JTP	6/03	DATE REVISED
				2/04



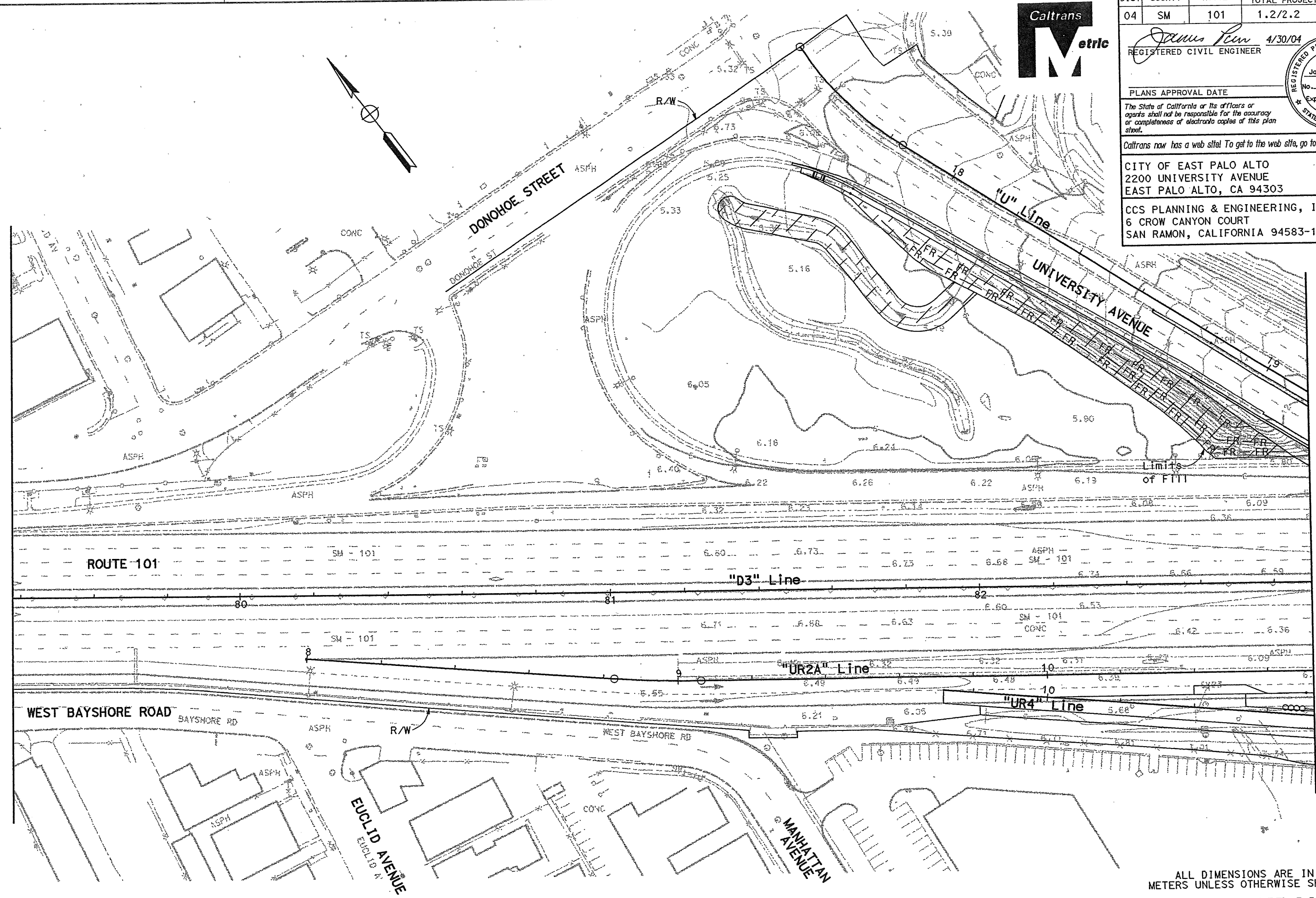
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		25	103

REGISTERED CIVIL ENGINEER
James T. Plun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

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See sheet EC-1

See sheet EC-3

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EROSION CONTROL PLAN

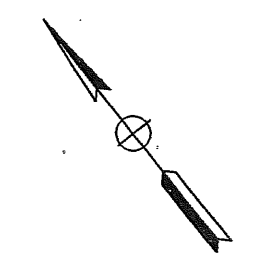
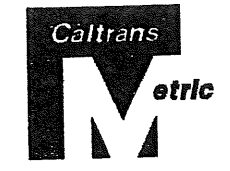
SCALE: 1:500

THIS PLAN ACCURATE FOR EROSION CONTROL ONLY.

FOR NOTES ABBREVIATIONS AND/OR LEGEND SEE SHEET EC-1

EC-2

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 DESIGN OVERSIGHT
 DAVID YAM
 DATE REVISIONS BY
 MOJ 6/03
 JTP 6/03
 DATE REVISIONS
 DATE REVISIONS



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		26	103

James Pun 4/30/04
 REGISTERED CIVIL ENGINEER
 James T. Pun
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

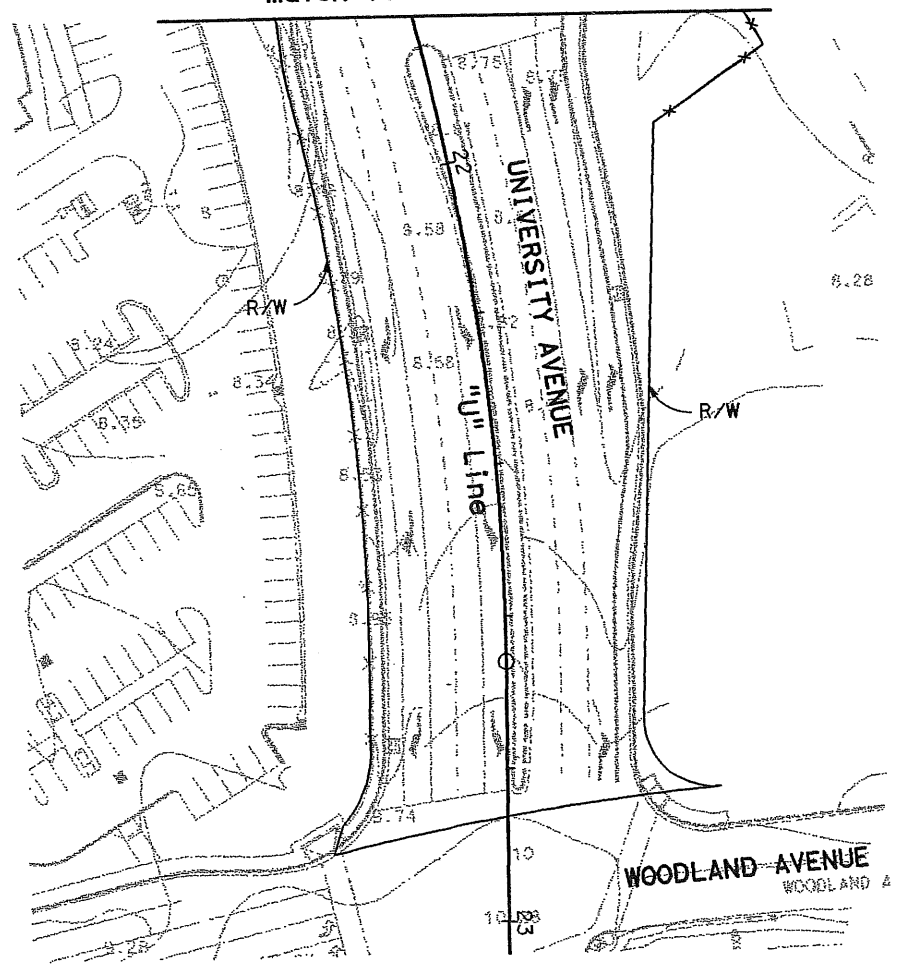
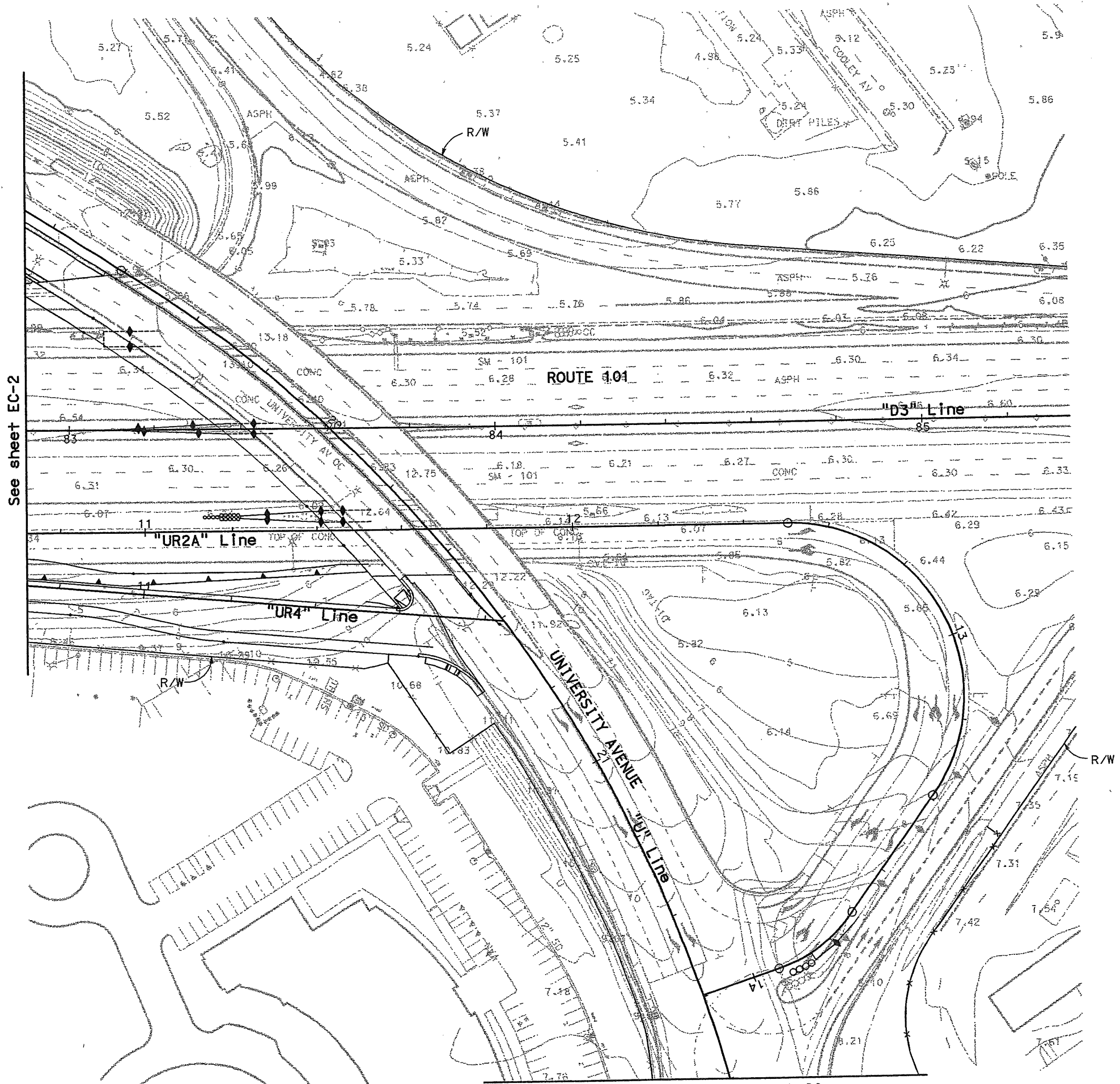
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Match line Sta 21+80

THIS PLAN ACCURATE FOR EROSION CONTROL ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET EC-1

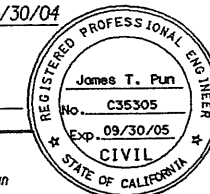
EROSION CONTROL PLAN

SCALE: 1:500



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	27	103

James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER



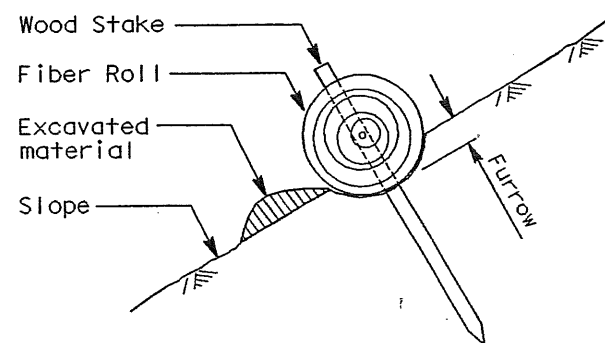
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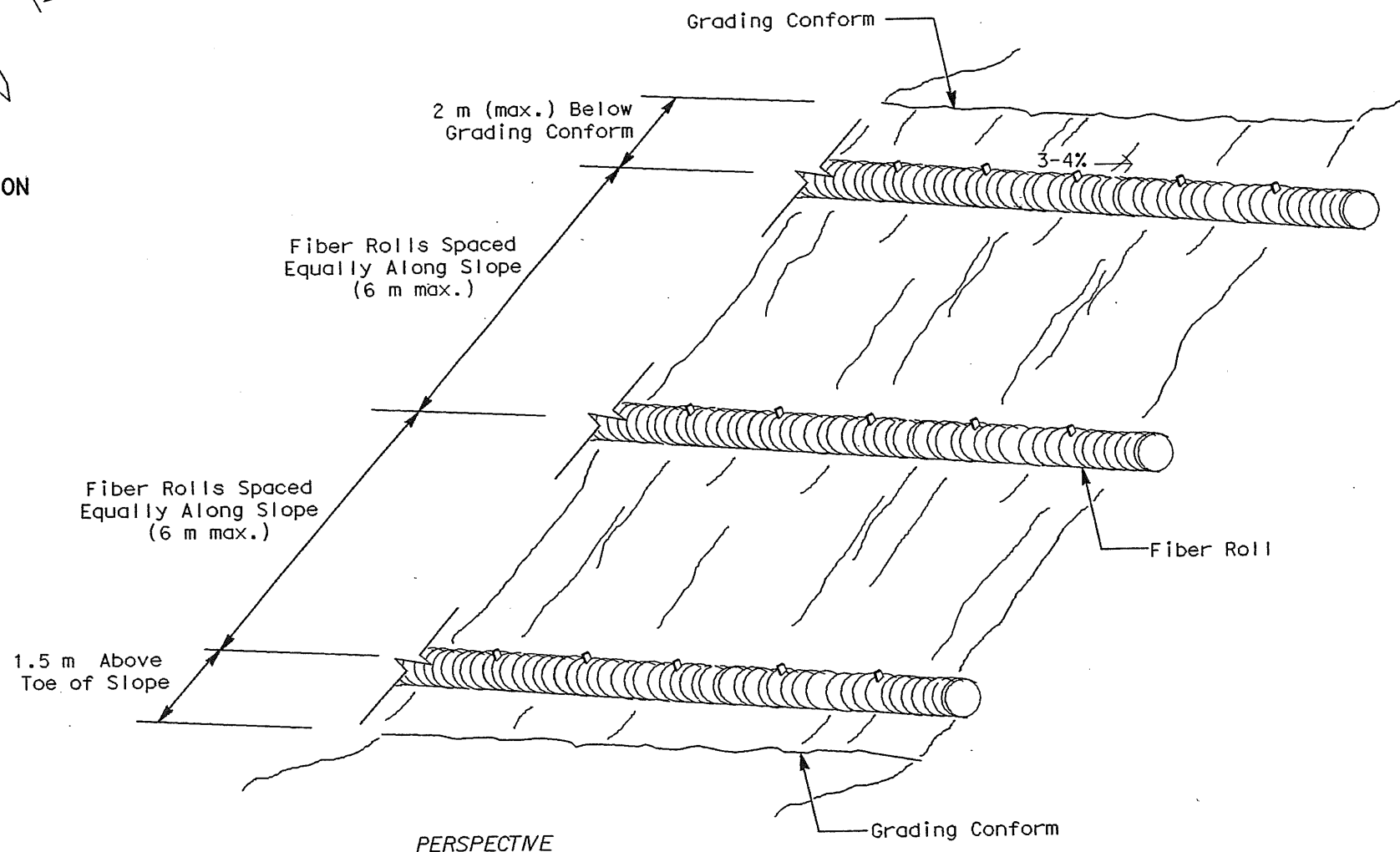
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SECTION
FIBER ROLLS INSTALLATION



PERSPECTIVE
FIBER ROLLS LAYOUT

DATE	REVISOR	DATE	REVISOR
4/03	IVS	4/03	JTP

DESIGNED BY: IVS
CHECKED BY: JTP
DESIGN OVERSIGHT: DAVID YAM

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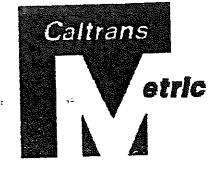
All dimensions are in millimeters unless otherwise shown

EROSION CONTROL DETAILS

NO SCALE

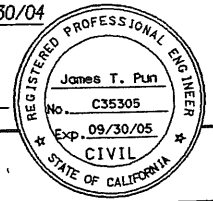
EC-4

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	DIXON LAU		DATE	DATE
Caltrans	CALCULATED/DESIGNED BY	CHECKED BY	MOJ	JTP
	JTP	JTP	11/02	11/02



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL SHEETS	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	28	103	

James Pun 4/30/04
REGISTERED CIVIL ENGINEER



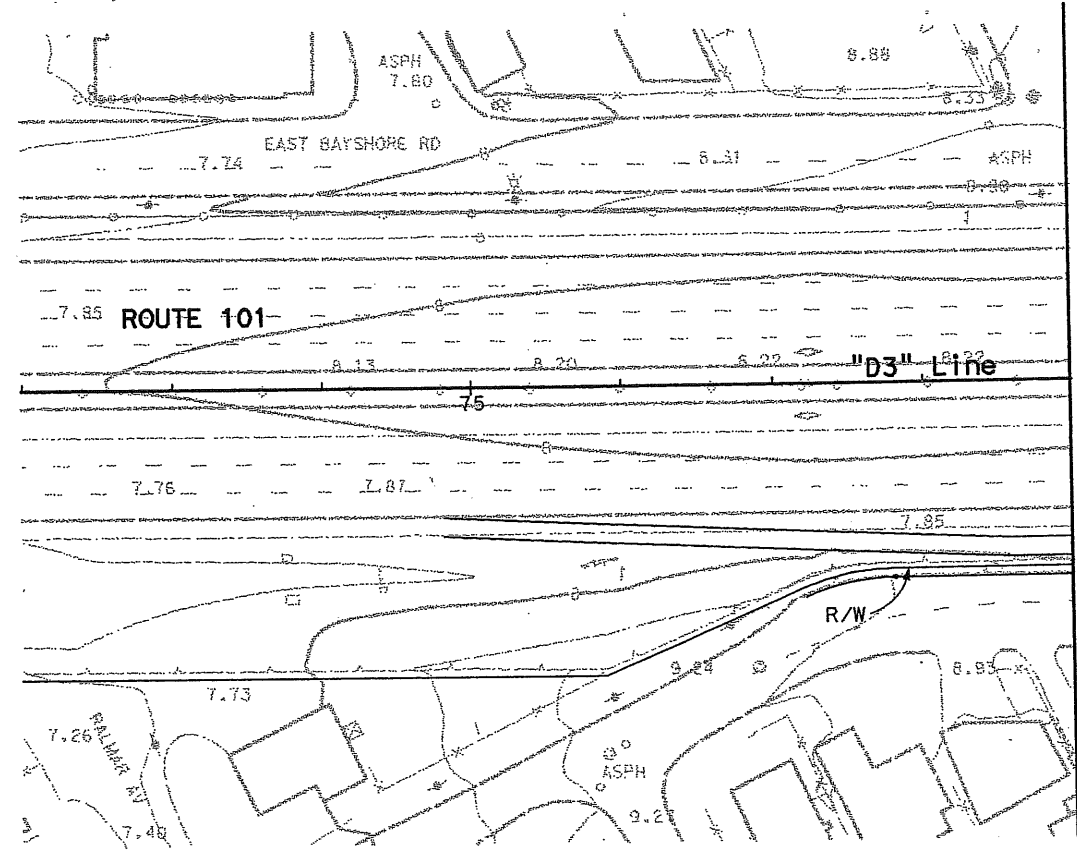
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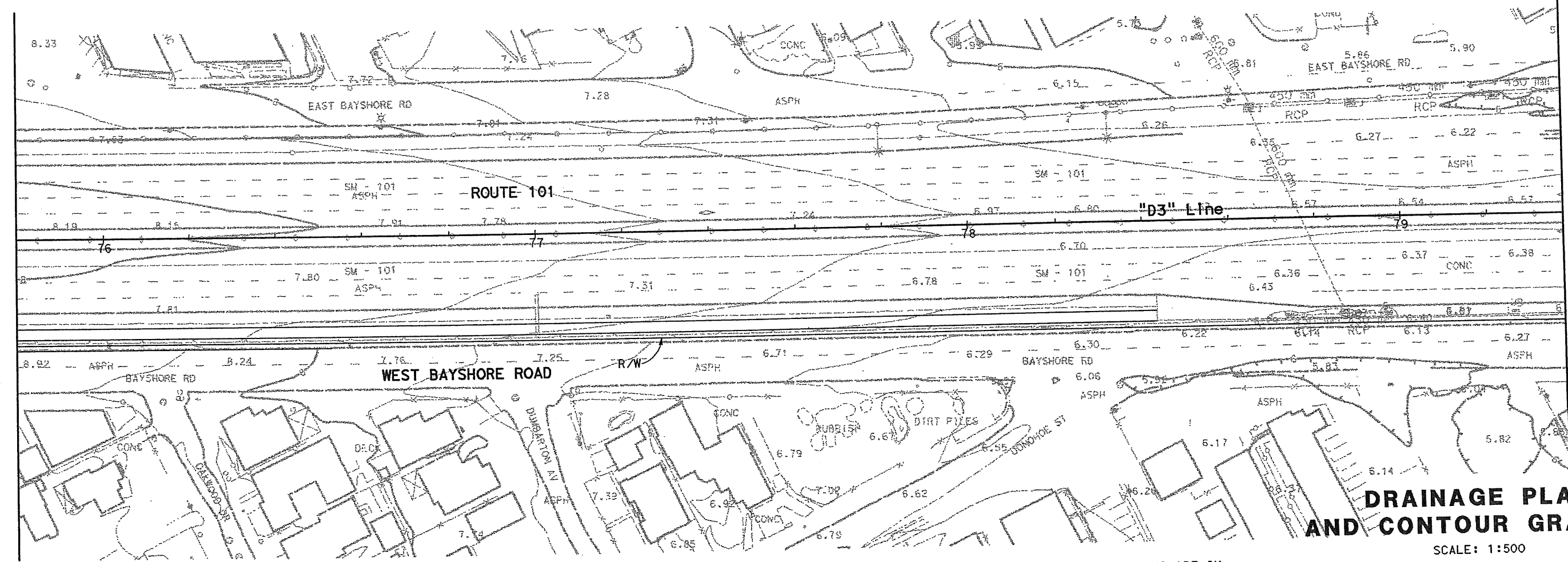
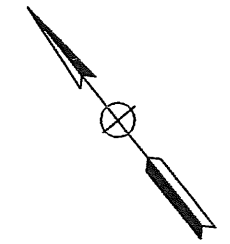
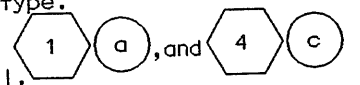
Match line Sta 75+80

LEGEND:

- Drainage System No.
- Drainage Unit
- Grade to drain
- Existing Drainage System
- Ditch Flowline
- Bioswale Flowline

NOTES:

1. Vertical datum used is NGVD-29.
2. See Drainage Quantities Sheet for grate and cover type.
3. All inlets have standard gutter depression except which have PCC apron. See D-6 for PCC apron detail.



Match line Sta 75+80

See sheet D-2

DRAINAGE PLAN AND CONTOUR GRADING

SCALE: 1:500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

THIS PLAN ACCURATE FOR DRAINAGE WORK AND CONTOUR GRADING ONLY.

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 DATE REVISIED
 MOJ 11/02
 JTP 11/02



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	29	103

James Pun 4/30/04
 REGISTERED CIVIL ENGINEER
 James T. Pun
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

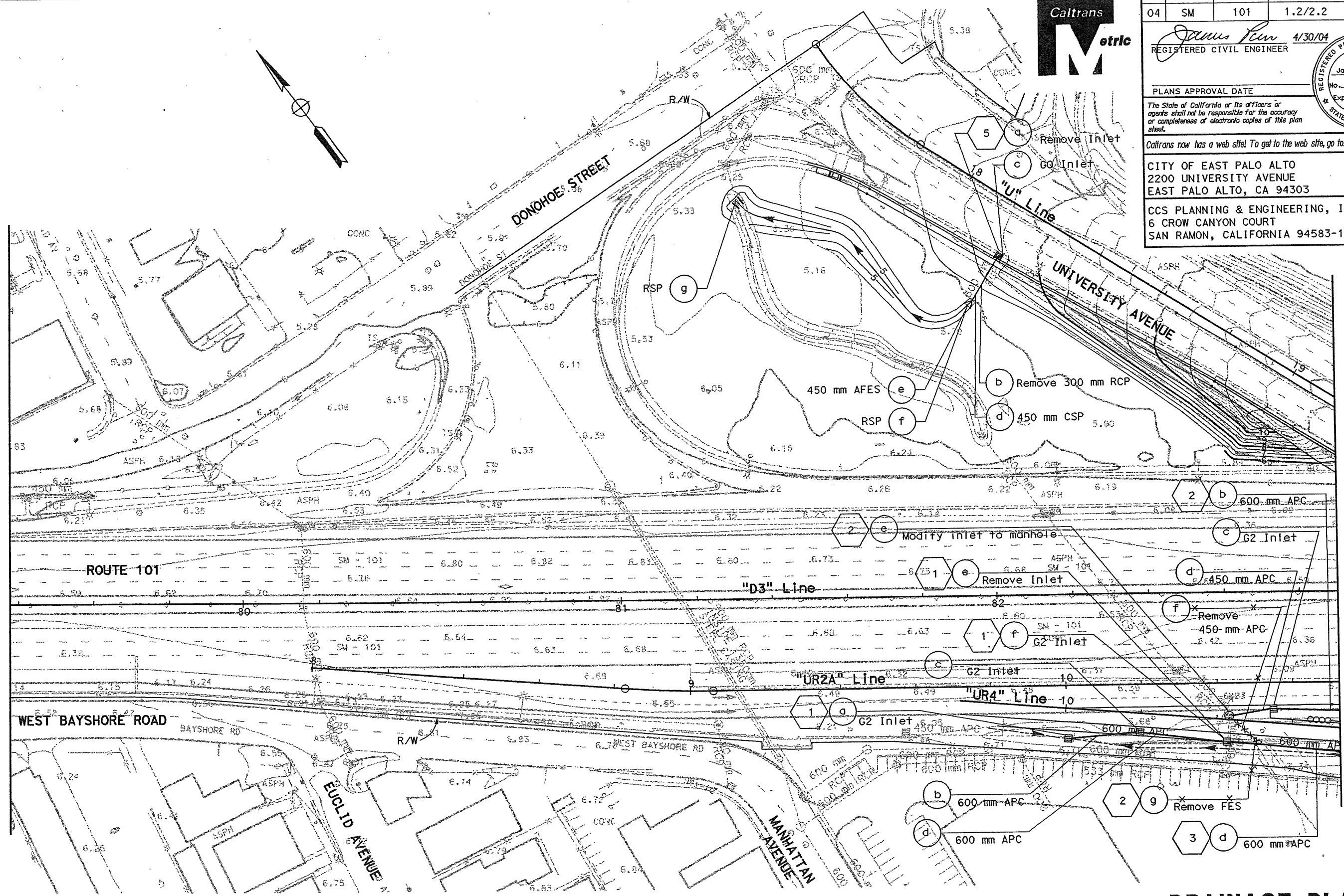
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See sheet D-1

See sheet D-3

DRAINAGE PLAN AND CONTOUR GRADING

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

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	30	103

REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

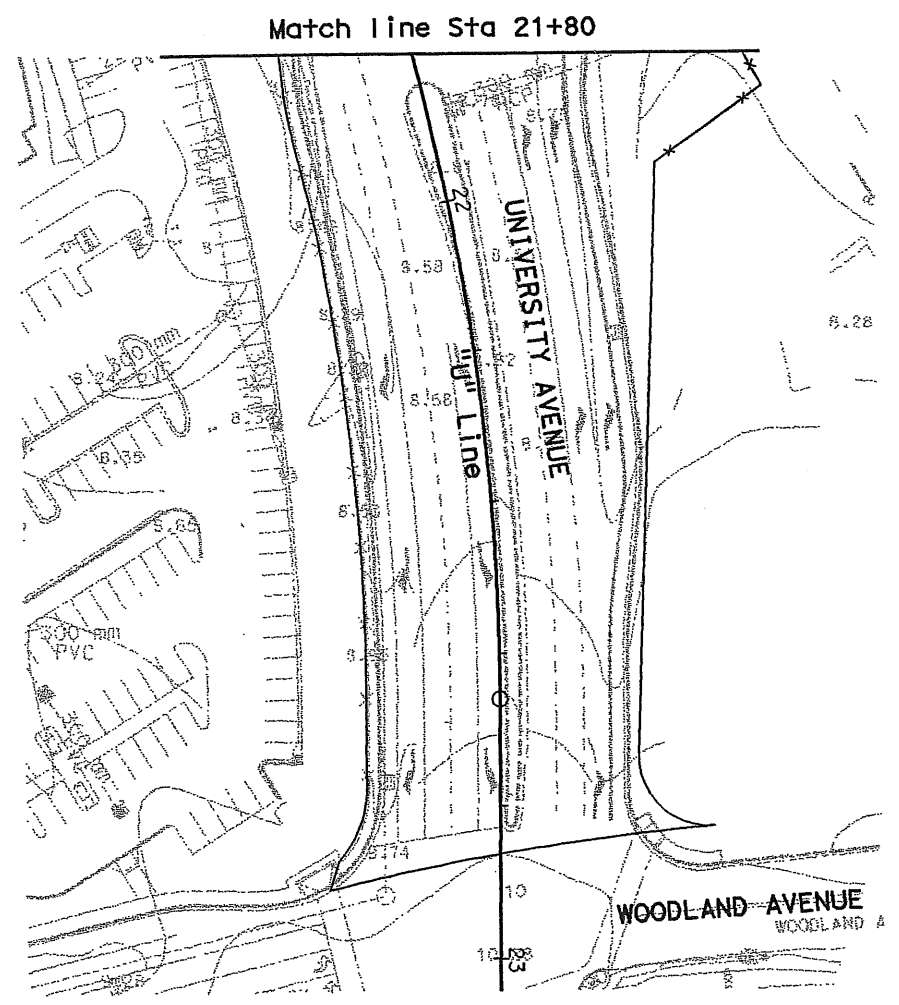
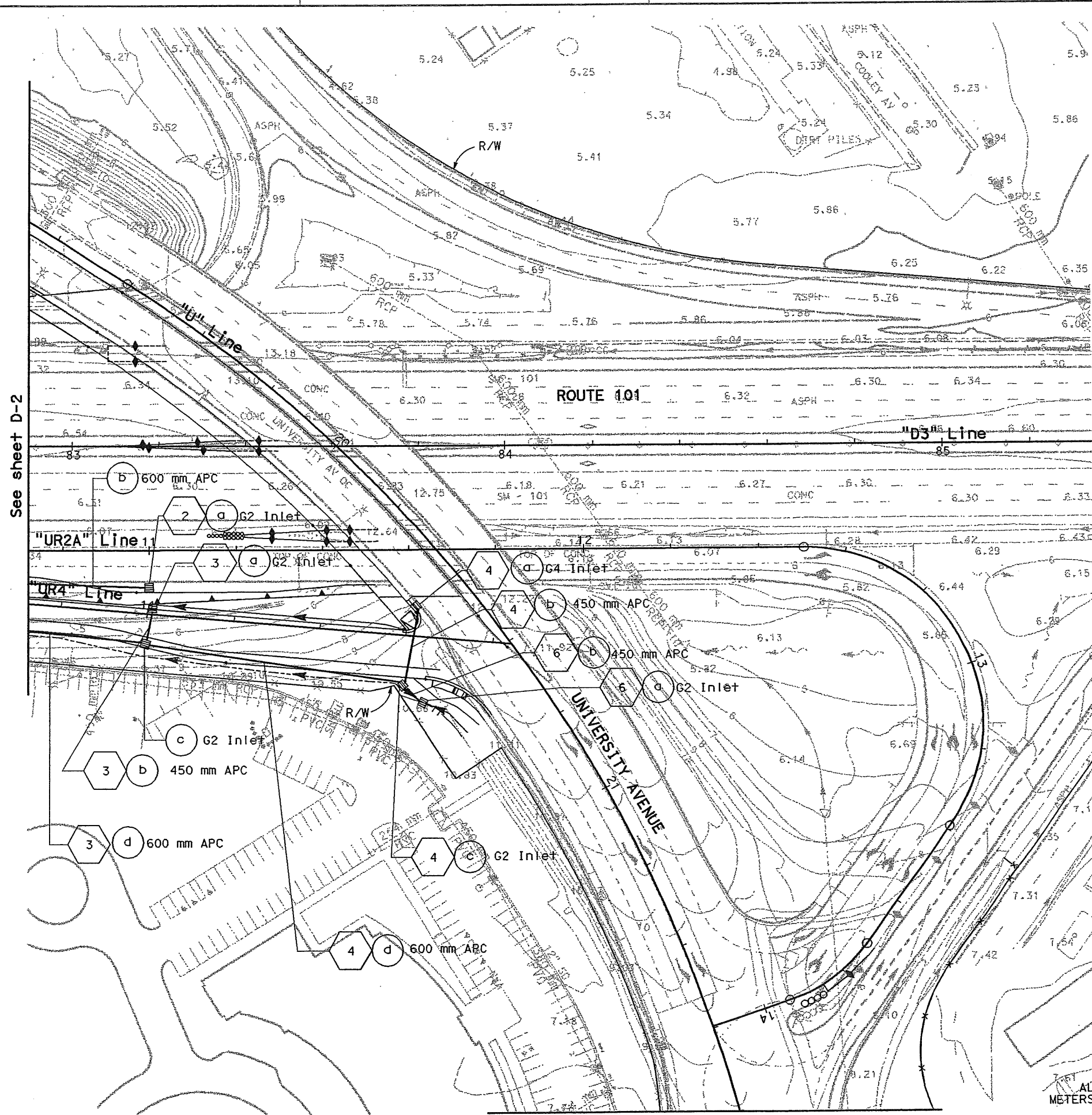
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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

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

DRAINAGE PLAN AND CONTOUR GRADING

SCALE: 1:500



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		31	103

James Pun 4/30/04
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

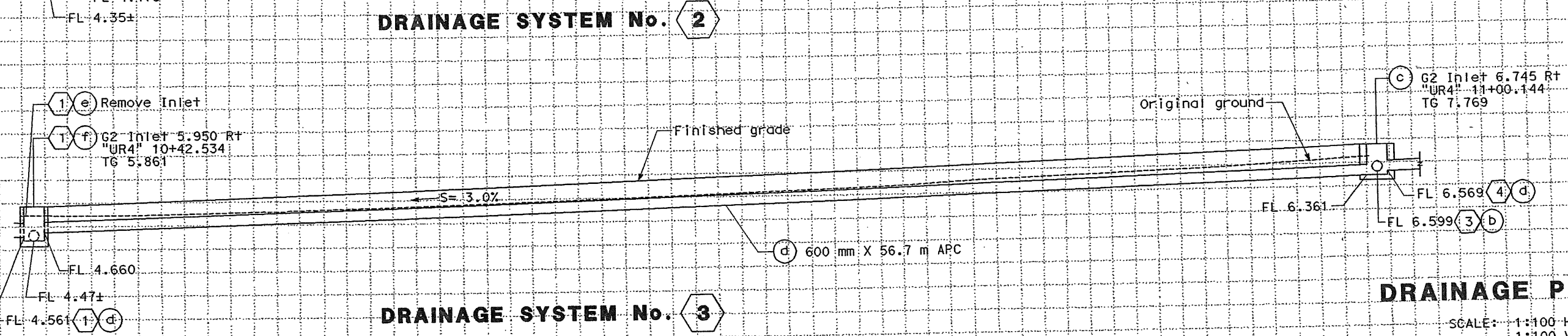
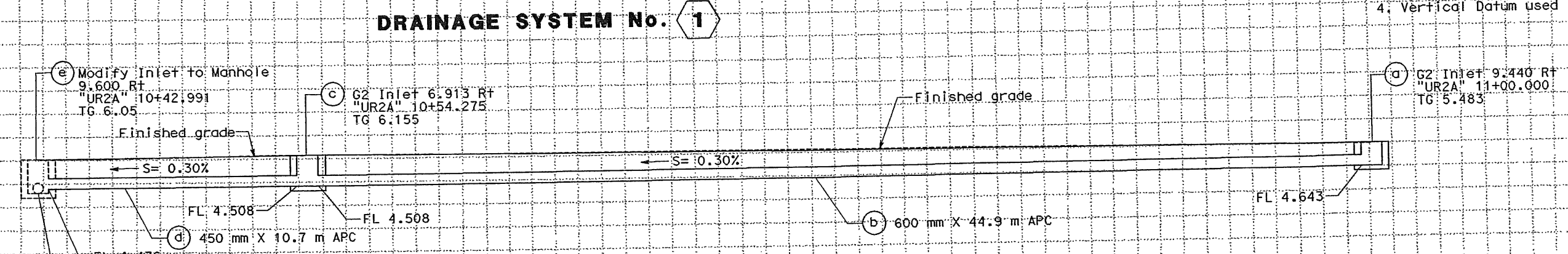
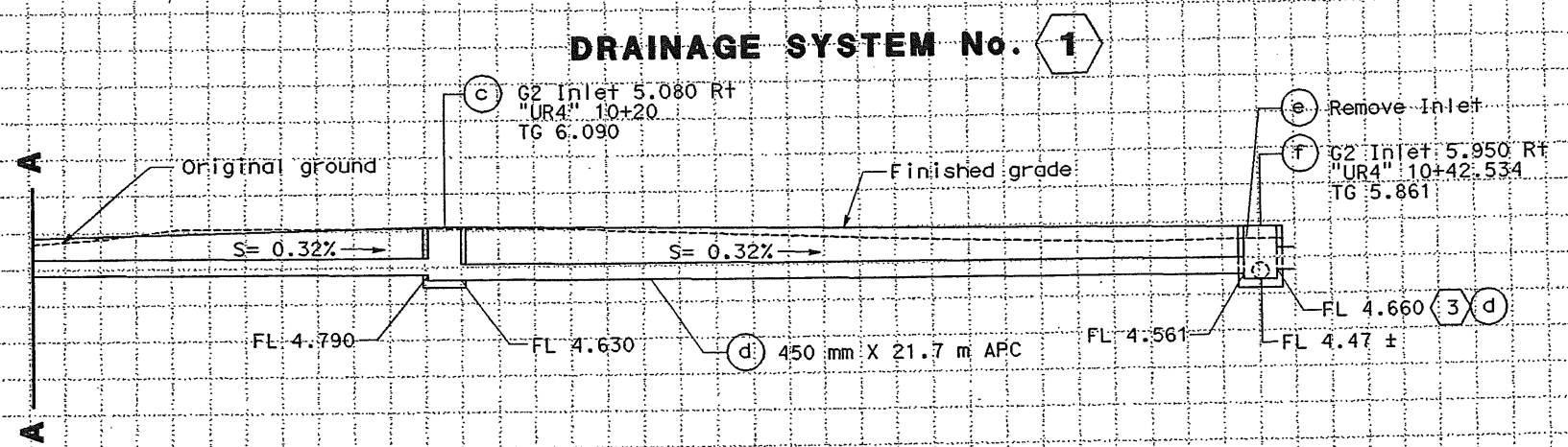
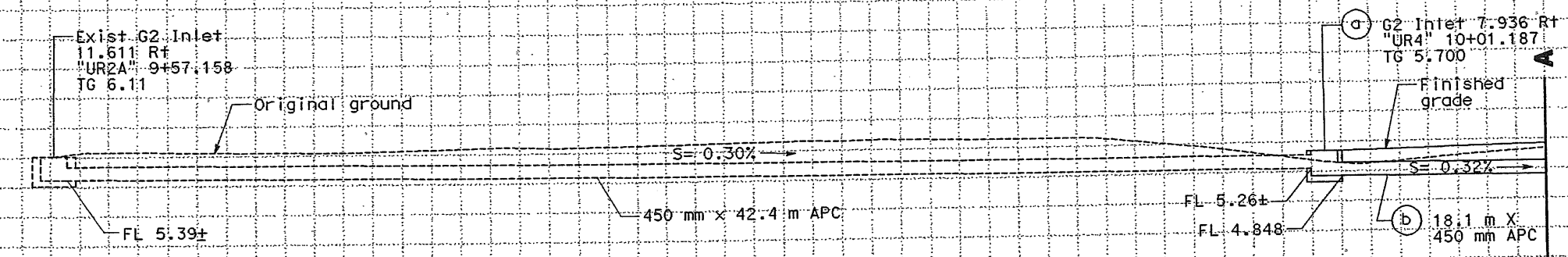
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REGISTERED PROFESSIONAL ENGINEER
James T. Pun
No. C35305
Exp. 09/30/05
CIVIL
STATE OF CALIFORNIA



- Notes:**
- All offsets are to the center of the inlet base.
 - Top of grade elevation does not include gutter depression.
 - Existing drainage locations are approximate only. Verify location and elevation before modifying existing drainage facilities.
 - Vertical Datum used is NGVD 29.

DRAINAGE PROFILES

SCALE: 1:100 Horiz
1:100 Vert

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DATE REVISIONS BY
MOJ 11/02
JTP 11/02

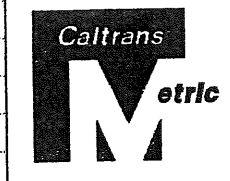
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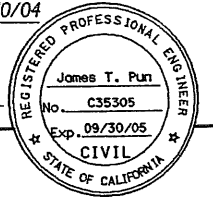
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Caltrans

Station	Exc	Emb
m ³		



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	32	103

James Pun 4/30/04
REGISTERED CIVIL ENGINEER



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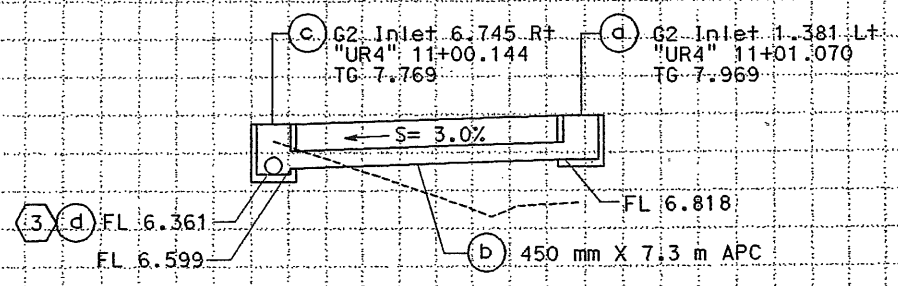
CCS PLANNING & ENGINEERING, INC.
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DATE	REVISOR	DATE	REVISOR
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MOJ 11/02	JTP	11/02	JTP
MOJ 11/02	JTP	11/02	JTP

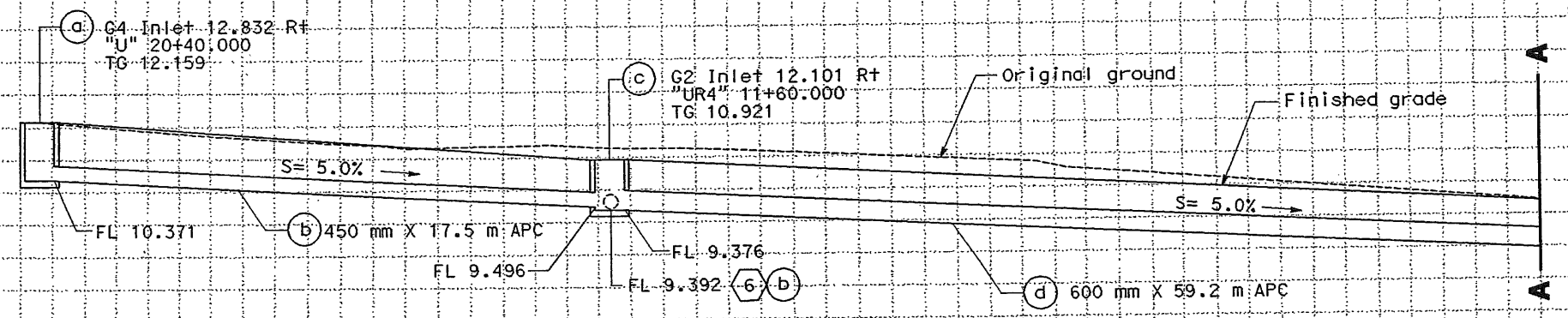
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MOJ 11/02	JTP	11/02	JTP
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DATE	REVISOR	DATE	REVISOR
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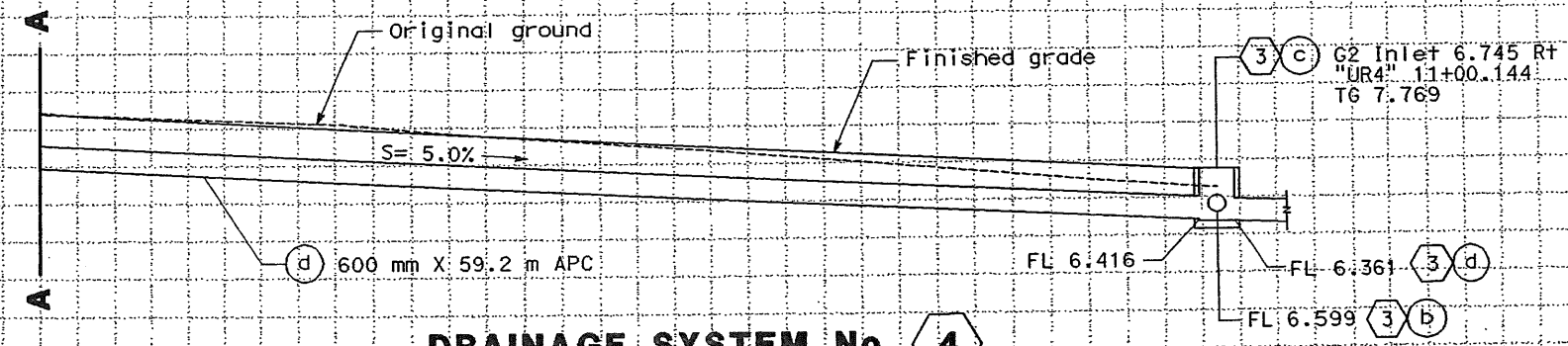
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MOJ 11/02	JTP	11/02	JTP
MOJ 11/02	JTP	11/02	JTP



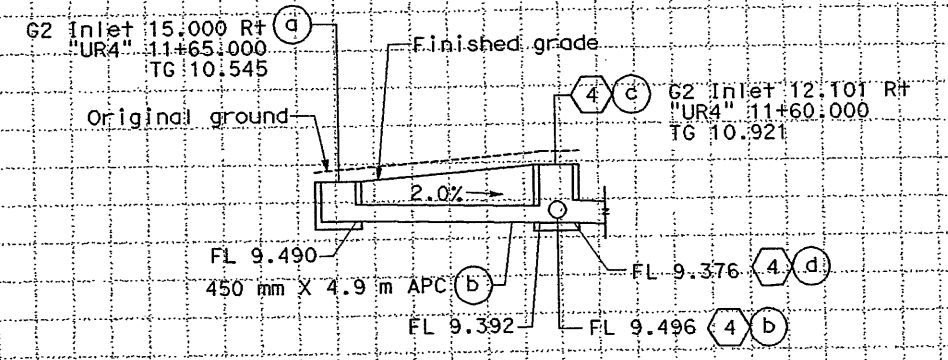
DRAINAGE SYSTEM No. 3



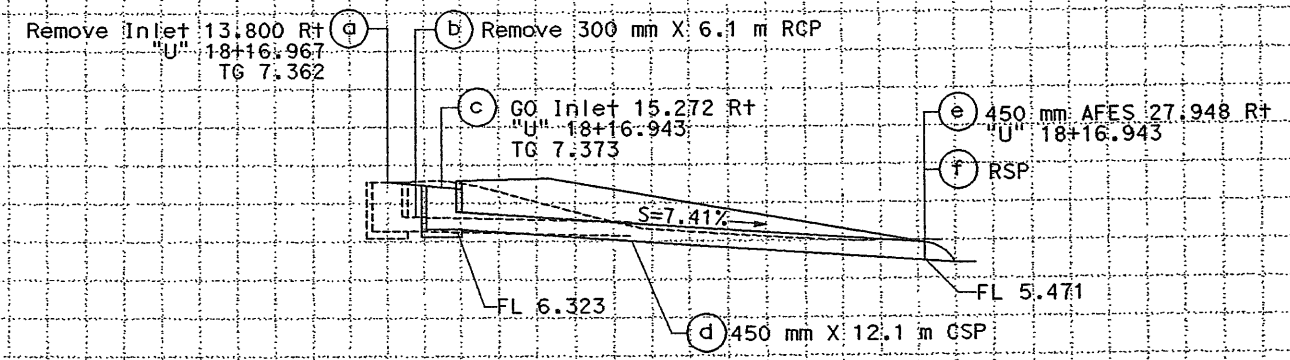
DRAINAGE SYSTEM No. 4



DRAINAGE SYSTEM No. 4



DRAINAGE SYSTEM No. 6



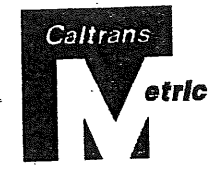
DRAINAGE SYSTEM No. 5

DRAINAGE PROFILES

SCALE: 1:100 Horiz
1:100 Vert

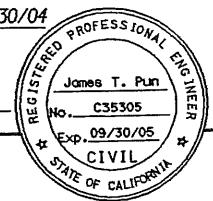
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	33	103

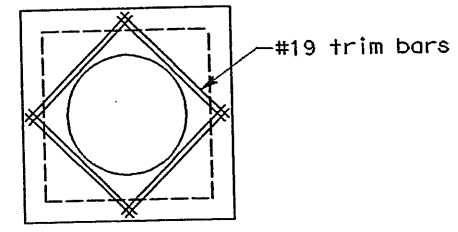
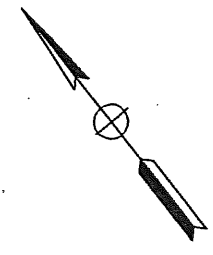
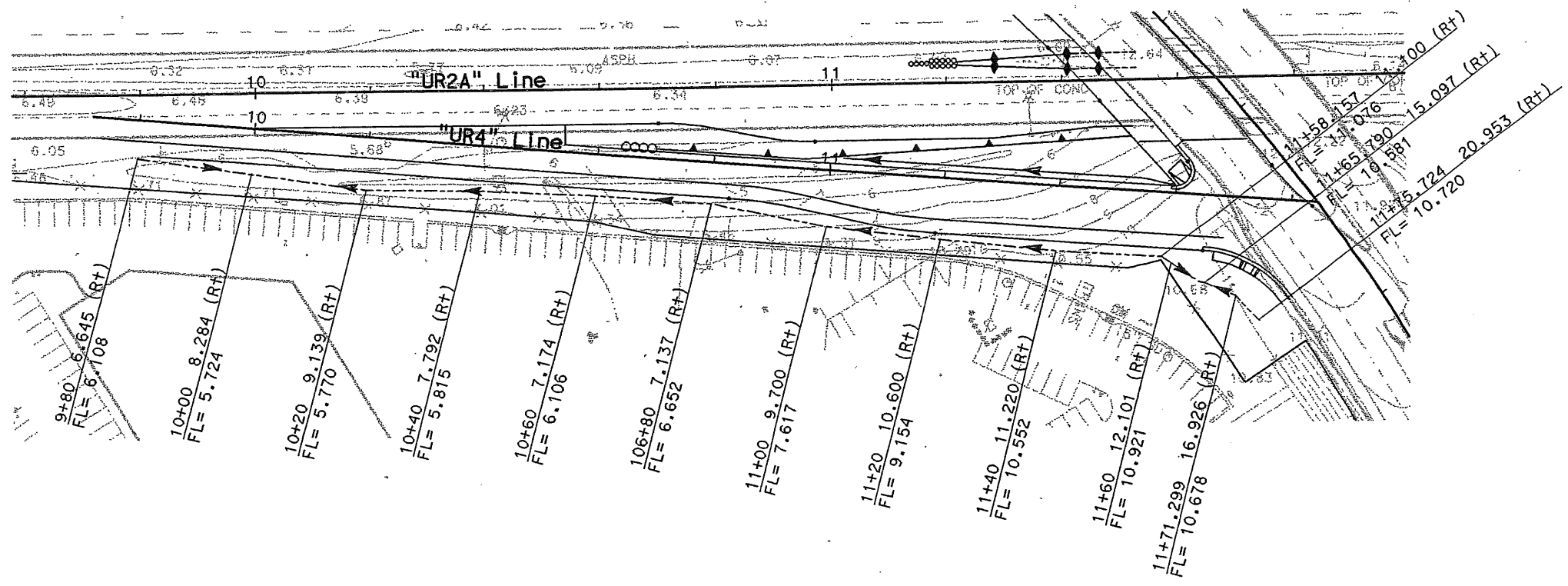
James Pun 4/30/04
 REGISTERED CIVIL ENGINEER



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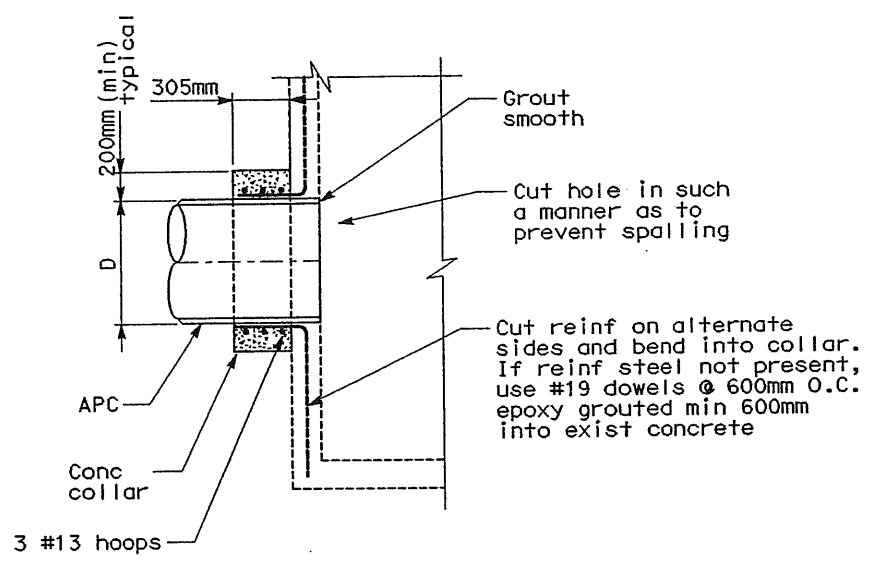
CCS PLANNING & ENGINEERING, INC.
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PLAN

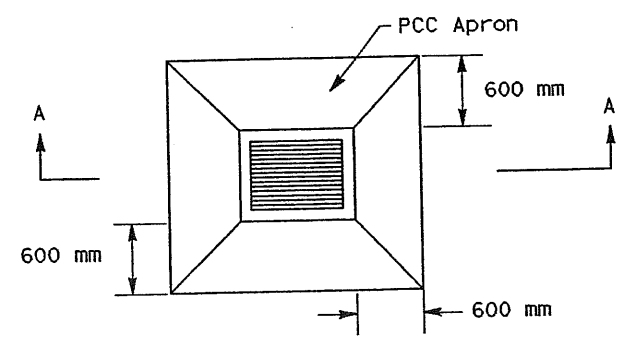
DITCH FLOWLINE ELEVATION DETAILS

SCALE 1:500

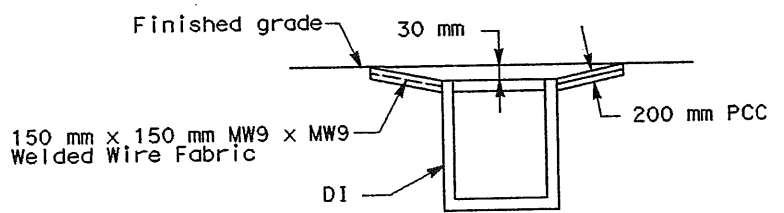


ELEVATION
PIPE CONNECTION TO EXISTING INLET

NTS



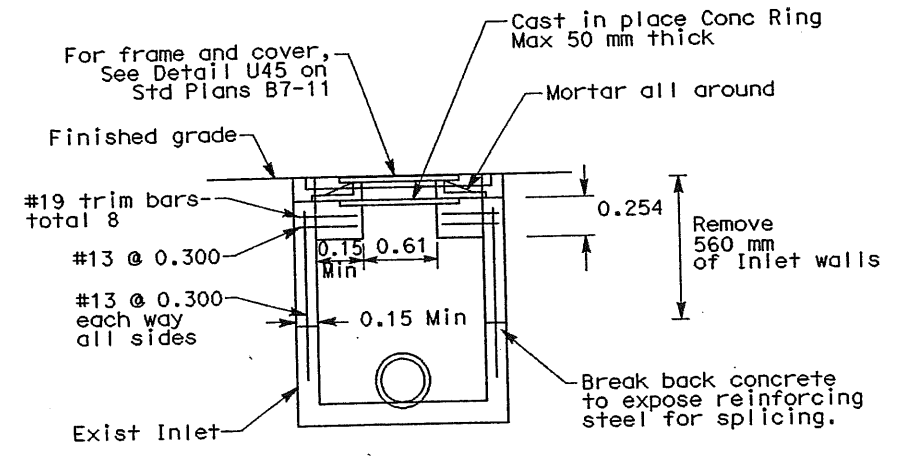
PLAN



SECTION A-A

PCC APRON

NTS



SECTION

MODIFY INLET TO MANHOLE



DRAINAGE DETAILS

NO SCALE

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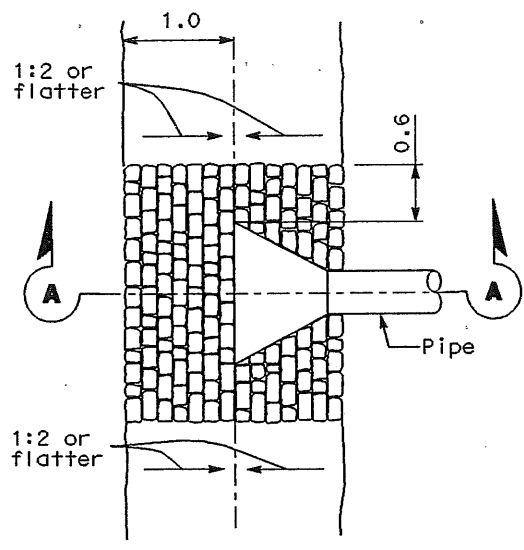
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	34	103

REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

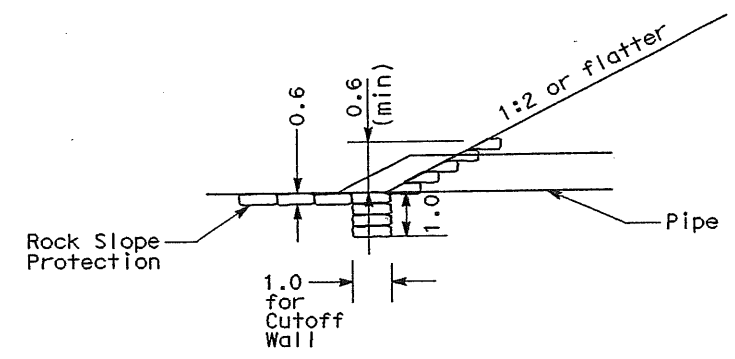
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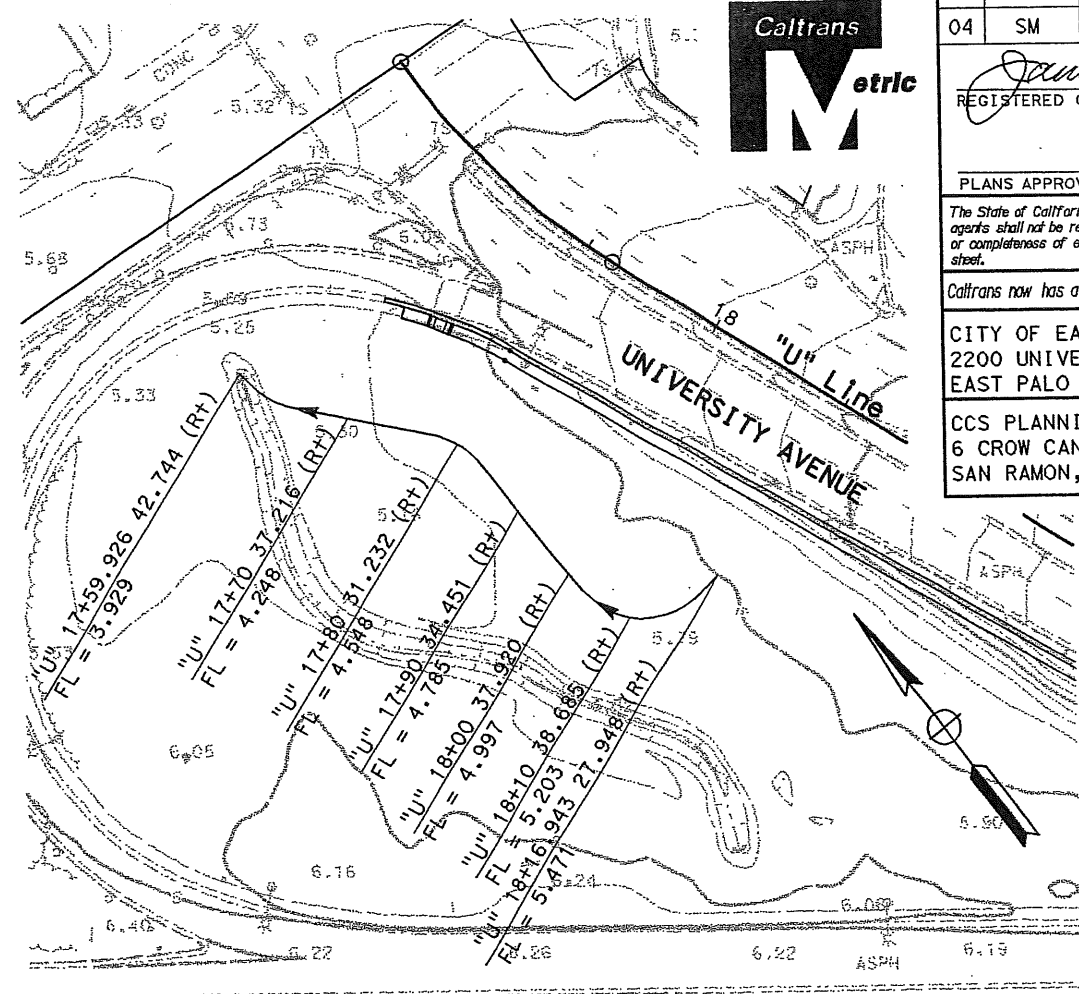
PLAN



SECTION A-A

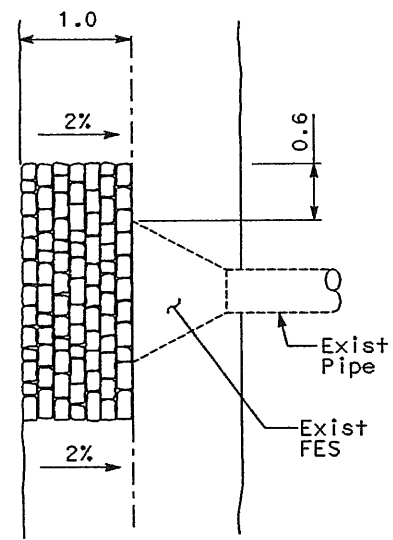
AFES WITH ROCK SLOPE PROTECTION

5(e)f

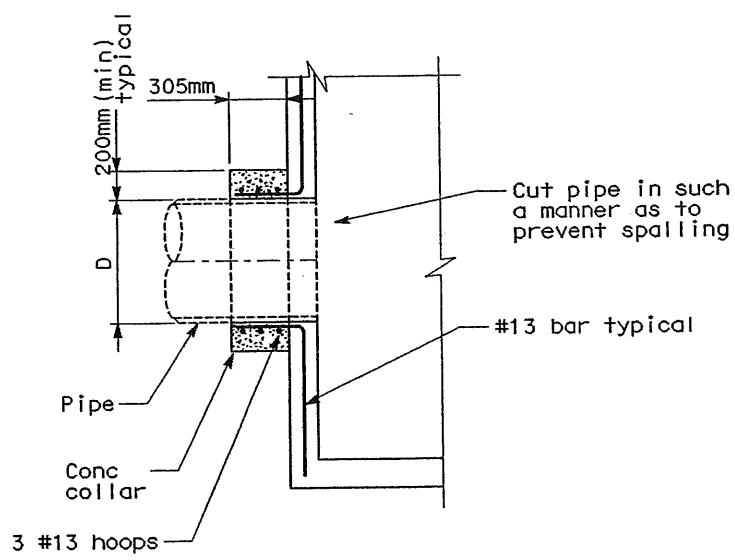


BIOSWALE FLOWLINE ELEVATION DETAILS

SCALE 1:500



PLAN



ELEVATION

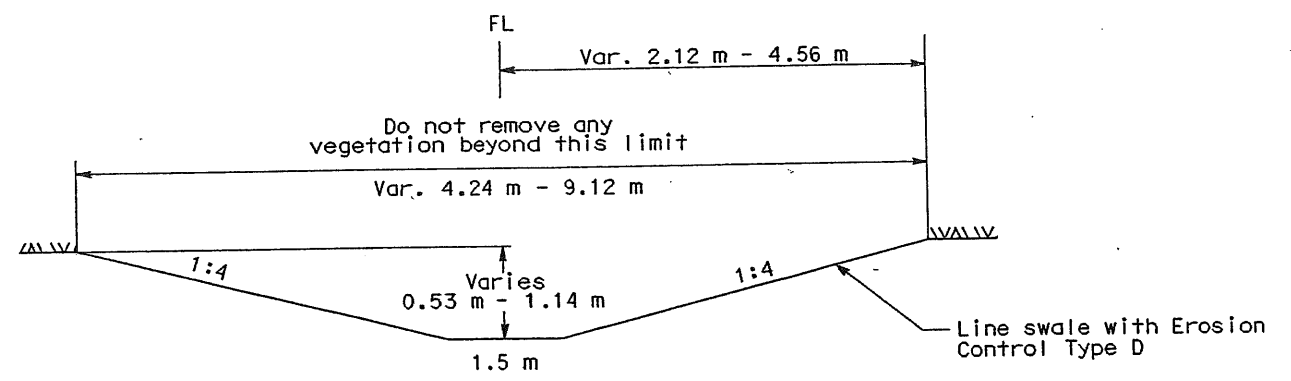
EXISTING PIPE CONNECTION TO G2 INLET

NTS

1(a) & 1(e)

ROCK SLOPE PROTECTION AT EXISTING FES

5(g)



BIOSWALE CROSS SECTION

NTS

DRAINAGE DETAILS

NO SCALE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED



James T. Pun 4/30/04
 REGISTERED CIVIL ENGINEER
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE _____

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NOTES:

- For minimum allowable class of RCP, see Standard Plan A62-D.
- (N) Not a separate pay item, for information only.
- All pipes shall have standard joints.

ABBREVIATIONS

- w/ - With
 SGD - Standard gutter depression

DESIGNATION	RCP	PLASTIC
	SIZE	SIZE
450 mm APC	450	450
600 mm APC	600	600

DRAINAGE QUANTITIES

DRAINAGE SYSTEM NO.	DRAINAGE UNIT	REMOVE CULVERT	REMOVE FLARED END SECTION	REMOVE INLET	MODIFY INLET TO MANHOLE	ALTERNATIVE PIPE CULVERT		450 mm CSP	450 mm AFES	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	MINOR CONCRETE (MINOR STRUCTURE)	MISCELLANEOUS IRON & STEEL	GRATES, COVERS AND FRAMES (N)			HEIGHT OF INLET "H" (N)	MAXIMUM COVER (N)	ROCK SLOPE PROTECTION	DESCRIPTION	STATION	DRAINAGE PLAN SHEET NO.	DRAINAGE PROFILE SHEET NO.	DRAINAGE SYSTEM NO.	DRAINAGE UNIT
						600 mm	450 mm						U-45	600-12	600-12X									
1	a									1.0	1.31	148							G2 Inlet w/apron		D-2	D-4	1	a
1	b						18.1												450 mm APC		D-2	D-4	1	b
1	c									0.8	1.86	148							G2 Inlet w/SGD	5.080 Rt UR4 10+20.000	D-2	D-4	1	c
1	d						21.7												450 mm APC		D-2	D-4	1	d
1	e			1															Remove Inlet	5.950 Rt UR4 10+42.534	D-2	D-4	1	e
1	f									0.8	1.80	148							G2 Inlet w/SGD	5.950 Rt UR4 10+42.534	D-2	D-4	1	f
2	a									0.8	1.61	148							G2 Inlet w/SGD	9.440 Rt UR4 11+00.000	D-3	D-4	2	a
2	b						44.9												600 mm APC		D-3	D-4	2	b
2	c									0.8	2.05	148							G2 Inlet w/SGD	6.913 Rt UR4 10+54.275	D-2	D-4	2	c
2	d						10.7												450 mm APC		D-2	D-4	2	d
2	e				1							200	1						Modify Inlet to Manhole	9.600 Rt UR2A 10+42.991	D-2	D-4	2	e
2	f	9.6																	Remove Culvert		D-2		2	f
2	g		1																Remove FES	4.9 Rt UR4 10+53	D-2		2	g
3	a									0.8	1.56	148							G2 Inlet w/SGD	1.381 Lt UR4 11+01.070	D-3	D-5	3	a
3	b						7.3												450 mm APC		D-3	D-5	3	b
3	c									0.8	1.81	148							G2 Inlet w/SGD	6.745 Rt UR4 11+00.144	D-3	D-5	3	c
3	d						56.7												600 mm APC		D-2	D-4	3	d
4	a									0.8	1.49	108			1	1.79			G4 Inlet w/SGD	12.832 Rt U 20+40.000	D-3	D-5	4	a
4	b						17.5												450 mm APC		D-3	D-5	4	b
4	c										1.95	148			1	1.55			G2 Inlet	12.101 Rt UR4 11+60.000	D-3	D-5	4	c
4	d						59.2												600 mm APC		D-3	D-5	4	d
5	a			1															Remove Inlet	13.800 Rt U 18+16.967	D-2	D-5	5	a
5	b	6.1																	Remove Culvert		D-2	D-5	5	b
5	c									0.8	1.00	108			1	1.05			G0 Inlet w/SGD	15.272 Rt U 18+16.943	D-2	D-5	5	c
5	d						12.1												450 mm CSP		D-2	D-5	5	d
5	e							1											450 mm AFES	27.948 Rt U 18+16.943	D-2	D-5	5	e
5	f																6.2		RSP	27.948 Rt U 18+16.943	D-2	D-5	5	f
5	g																1.8		RSP	42.744 Rt U 17+59.926	D-2		5	g
6	a									1.0	1.46	148				1.06			G2 Inlet w/apron	15.000 Rt UR4 11+65.000	D-3	D-5	6	a
6	b						4.9												450 mm APC		D-3	D-5	6	b
GRAND TOTAL		15.7	1	2	1	160.8	80.2	12.1	1	8.4	17.90	1748	1	9	2		8.0							

DRAINAGE QUANTITIES

DESIGNED BY MOJ 11/02
 CHECKED BY JTP 11/02
 REVISIONS BY DATE

DESIGN OVERSIGHT
 DIXON LAU

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	36	103

REGISTERED CIVIL ENGINEER
James Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 STATE OF CALIFORNIA

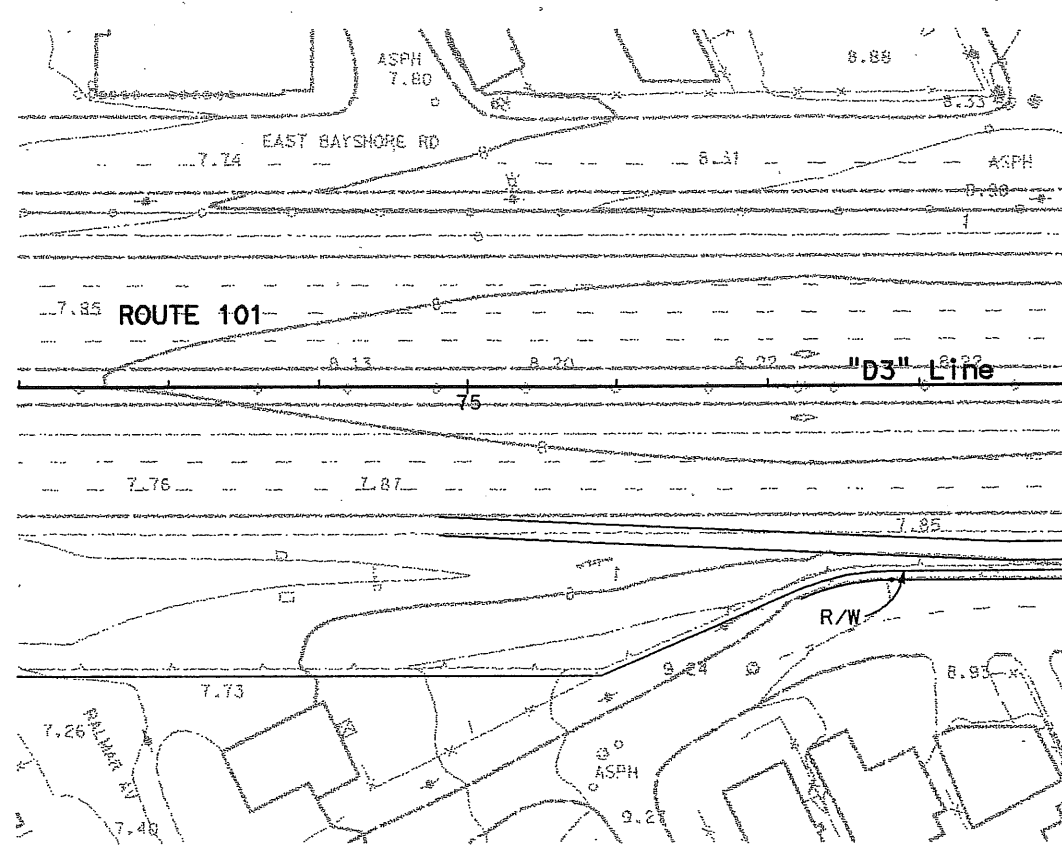
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 EAST PALO ALTO, CA 94303

CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612



Match line Sta 75+80

NOTES:

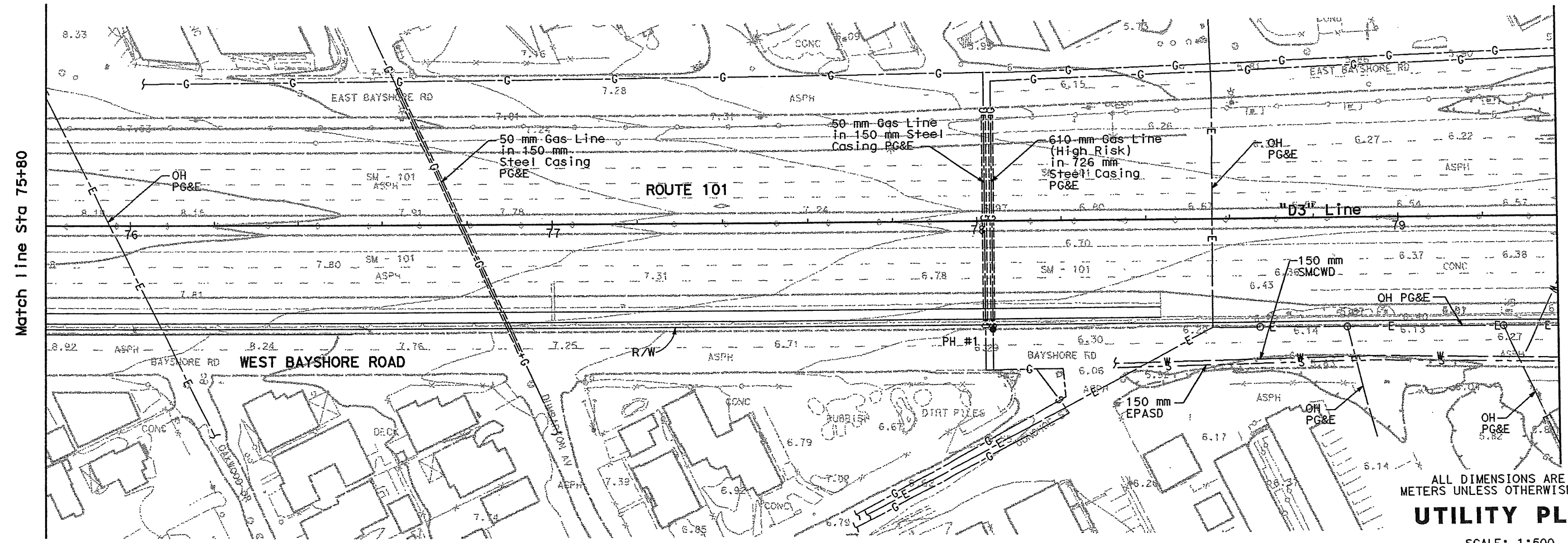
1. Except for pothole location as indicated, location of utilities is approximate. Information shown is based on owner's records.
2. For Caltrans Electrical systems, see Lighting plans
3. For Storm Drainage systems, see Drainage plans.
4. For Irrigation systems, see Irrigation plans.
5. All Utilities shown are existing unless noted otherwise.

ABBREVIATIONS

- | | |
|----------|----------------------------------|
| CEPA | City of East Palo Alto |
| EPASD | East Palo Alto Sanitary District |
| OH | Overhead Electrical |
| PAC BELL | Pacific Bell |
| PG&E | Pacific Gas & Electric Company |
| SMCWD | San Mateo County Water District |
| PH # | Pothole Number |

UTILITY LOCATIONS

POTHOLE LOCATION	NORTHING	EASTING	PAVEMENT ELEV	DEPTH	TYPE	SIZE (mm)	OWNER
1	608181.840	1854386.131	6.462	1.397	GAS	610	PG&E



Match line Sta 75+80

See sheet U-2

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

UTILITY PLAN

SCALE: 1:500

THIS PLAN ACCURATE FOR UTILITIES ONLY

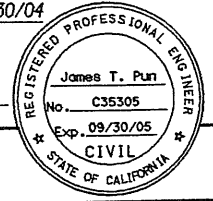
U-1

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 DATE REVISED
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	37	103

James T. Pun 4/30/04
 REGISTERED CIVIL ENGINEER

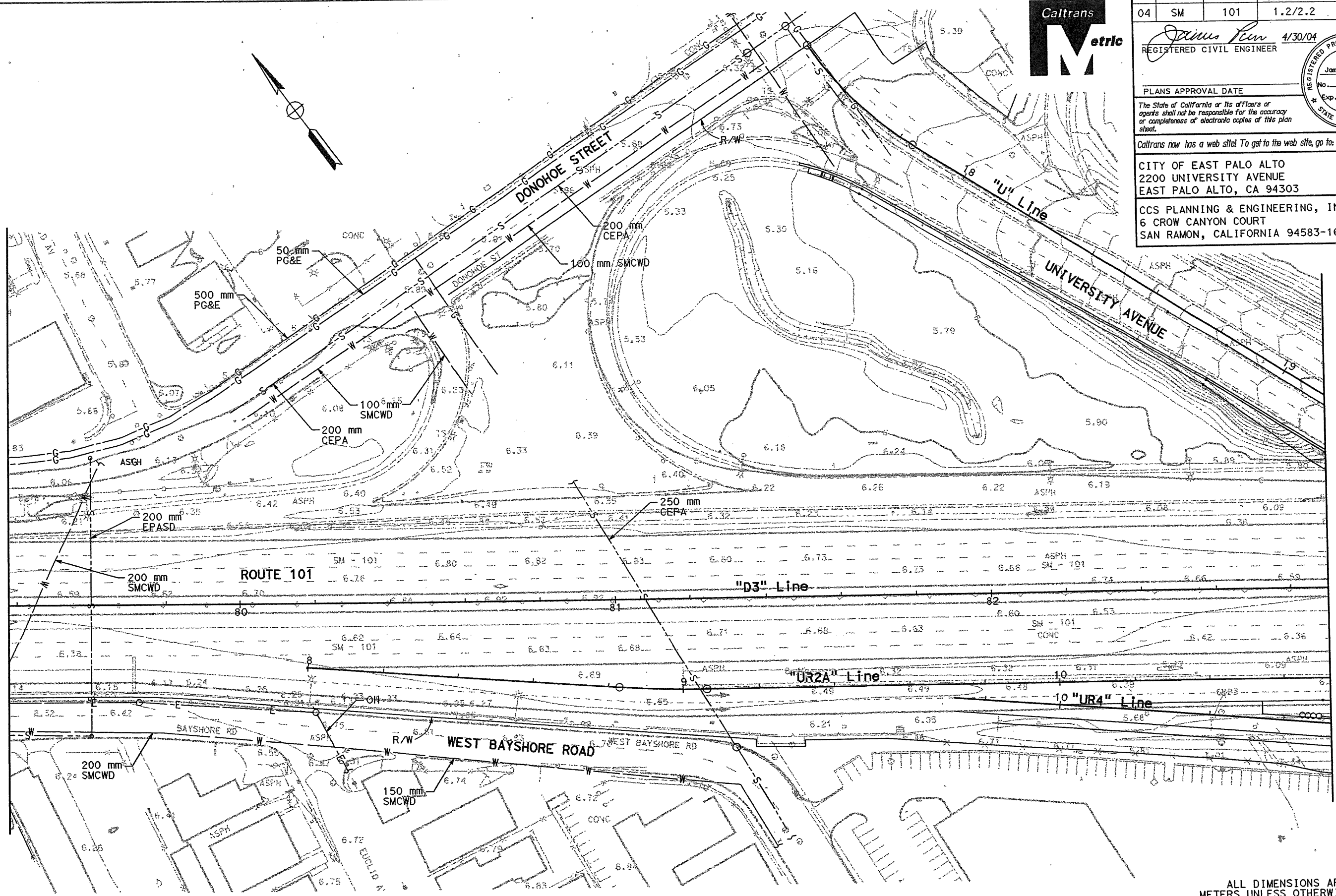


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See sheet U-1

See sheet U-3

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UTILITY PLAN

SCALE: 1:500

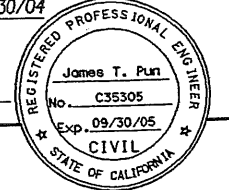
THIS PLAN ACCURATE FOR UTILITIES ONLY.

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



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	38	103

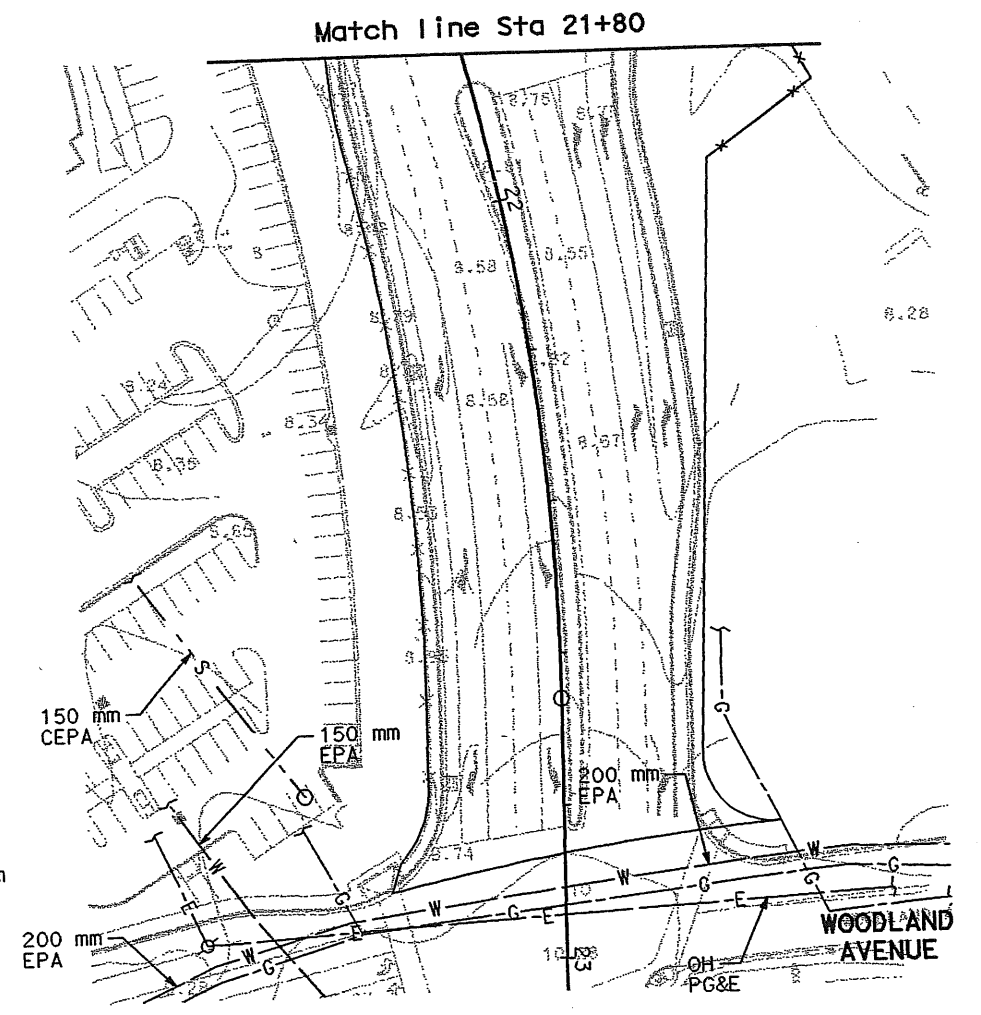
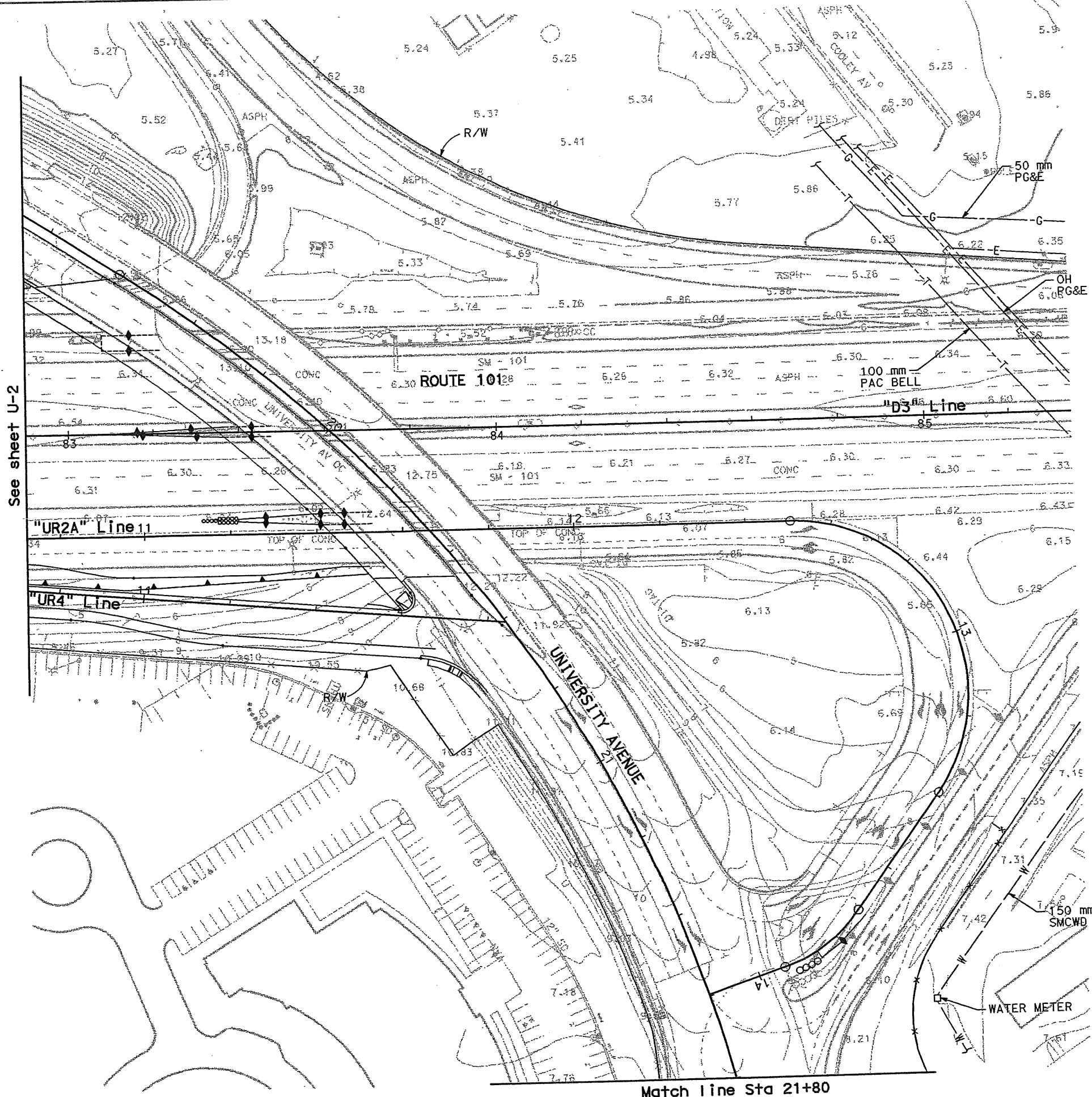
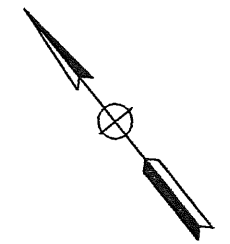
James Pun 4/30/04
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UTILITY PLAN

SCALE: 1:500

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	39	103

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James T. Pun 4/30/04
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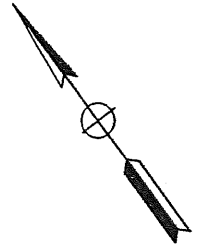
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 EAST PALO ALTO, CA 94303

CCS PLANNING & ENGINEERING, INC.
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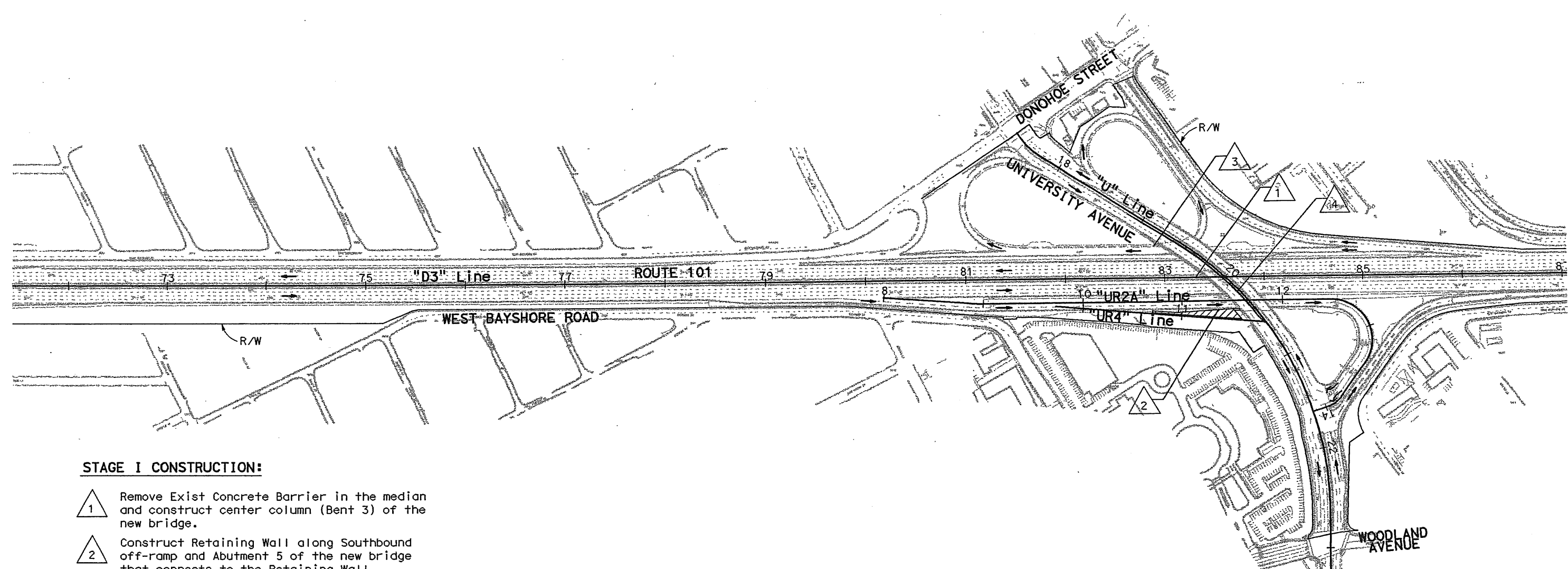
LEGEND

- Permanent construction this stage
- Direction of traffic
- Construction item number



STAGE I TRAFFIC:

- A. Shift Route 101 traffic out. Reduce lanes to 3.3 m and reduce inside shoulders to 0.6 m.
- B. Close right shoulder of Southbound off-ramp and reduce lanes to 3.3 m.
- C. Close right shoulder of Northbound on/off-ramp and reduce lane to 6.6 m.
- D. Reduce width of Westbound University Ave lanes to 3.6 m (along the bridge).



STAGE I CONSTRUCTION:

- 1 Remove Exist Concrete Barrier in the median and construct center column (Bent 3) of the new bridge.
- 2 Construct Retaining Wall along Southbound off-ramp and Abutment 5 of the new bridge that connects to the Retaining Wall.
- 3 Construct Abutment 1 and Retaining Wall of the new bridge on the East side.
- 4 Remove Exist Concrete Railing on the left side of Westbound bridge and replace with Concrete Barrier Type 732. Reconstruct median island.

STAGE CONSTRUCTION
STAGE 1
 SCALE: 1:2000

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THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY

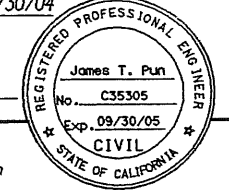
SC-1

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04	SM	101	1.2/2.2	40	103

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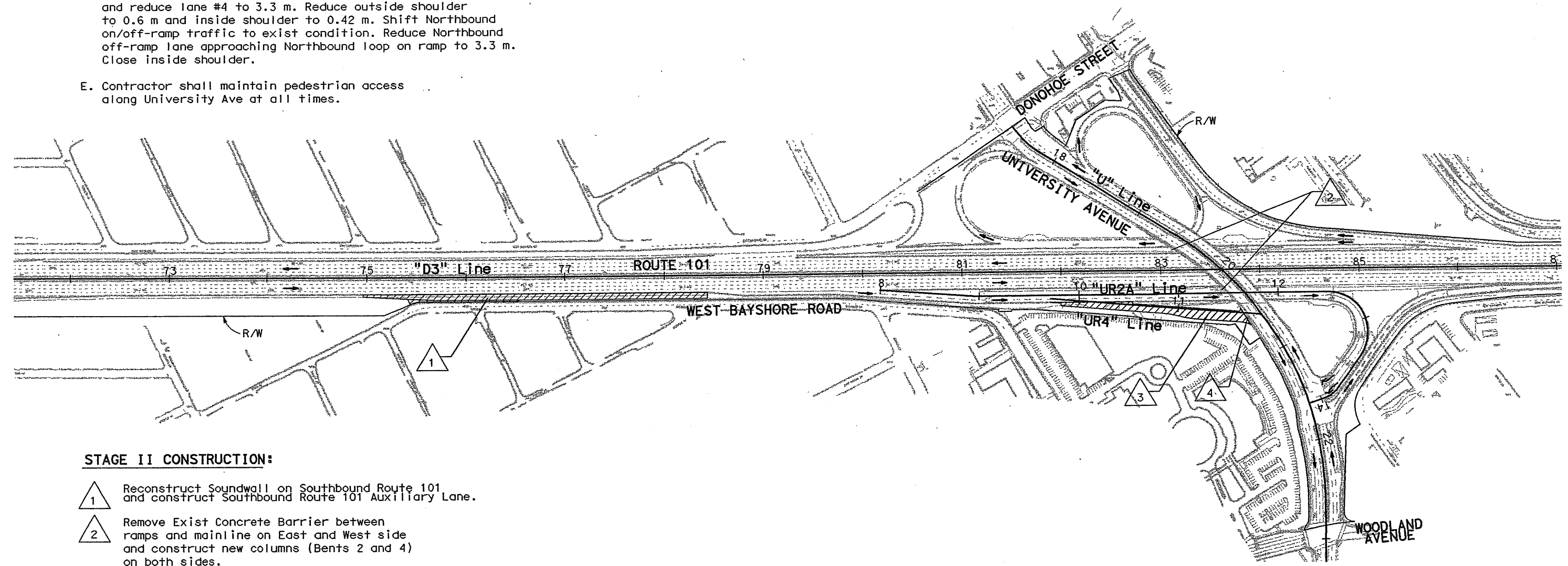
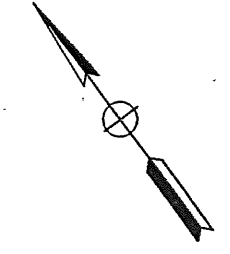
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STAGE II TRAFFIC:

- A. Shift Route 101 traffic toward median. Reduce lanes to 3.3 m and reduce outside shoulder to 0.5 m.
- B. Shift West Bayshore Rd traffic to the west. Reduce Northbound lane to 3.3 m and Southbound lane to 4.4.
- C. Shift Southbound Route 101 traffic to Exist condition. Reduce outside shoulder to 1.2 m and inside shoulder to 0.42 m. Shift Southbound loop off-ramp traffic to the outside, reduce lanes to 3.3 m and close left and right shoulders.
- D. Shift Northbound Route 101 traffic to Exist condition and reduce lane #4 to 3.3 m. Reduce outside shoulder to 0.6 m and inside shoulder to 0.42 m. Shift Northbound on/off-ramp traffic to exist condition. Reduce Northbound off-ramp lane approaching Northbound loop on ramp to 3.3 m. Close inside shoulder.
- E. Contractor shall maintain pedestrian access along University Ave at all times.



STAGE II CONSTRUCTION:

- 1 Reconstruct Soundwall on Southbound Route 101 and construct Southbound Route 101 Auxiliary Lane.
- 2 Remove Exist Concrete Barrier between ramps and mainline on East and West side and construct new columns (Bents 2 and 4) on both sides.
- 3 Construct the new Southbound diagonal off-ramp.
- 4 Remove Exist Sidewalk on University Ave at the new Southbound off-ramp terminus upon completion of Southbound diagonal off-ramp. Construct temporary curb ramp. See sheet TH-2.

FOR LEGEND,
 SEE SHEET SC-1

STAGE CONSTRUCTION
STAGE 2
 SCALE: 1:2000

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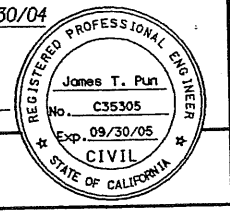
SC-2

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04	SM	101	1.2/2.2	41	1103

REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
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 STATE OF CALIFORNIA

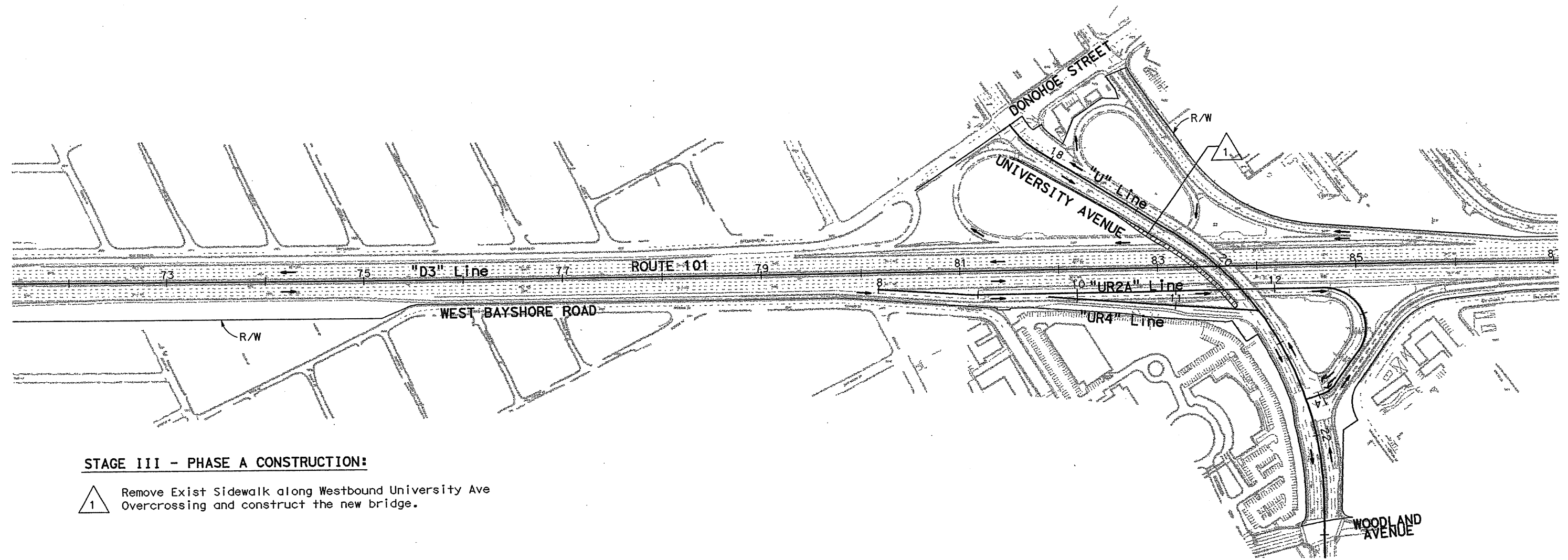
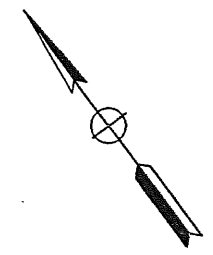


STAGE III - PHASE A TRAFFIC:

- A. Reduce width of WB University Ave lanes to 3.5 m and close outside shoulder.
- B. Shift Southbound Route 101 and West Bayshore Rd traffic along Auxiliary lane to permanent condition. See sheet PD-1.
- C. Contractor shall maintain pedestrian access along University Ave at all times.

NOTES:

1. During erection and removal of falsework of Westbound University Avenue Sidewalk structure, Route 101 mainline, Southbound loop off-ramp and northbound loop on- and off-ramp will be temporarily closed (night time closure only). The new Southbound diagonal off-ramp can be temporarily utilized as a detour route at this time. See Standard Plans T10A and T14 for traffic control system for closures. See sheets CS-2 and CS-3 for detour plan.
2. Other than for detour purpose only, the new Southbound diagonal off-ramp ("UR4" Line) shall not be opened to traffic use while Temporary Railing (Type K) is in place for construction of the overcrossing widening.



STAGE III - PHASE A CONSTRUCTION:

- 1 Remove Exist Sidewalk along Westbound University Ave Overcrossing and construct the new bridge.

FOR LEGEND,
SEE SHEET SC-1

STAGE CONSTRUCTION
STAGE 3- PHASE A
 SCALE: 1:2000

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SC-3



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	SM	101	1.2/2.2	42	103

James T. Pun 4/30/04
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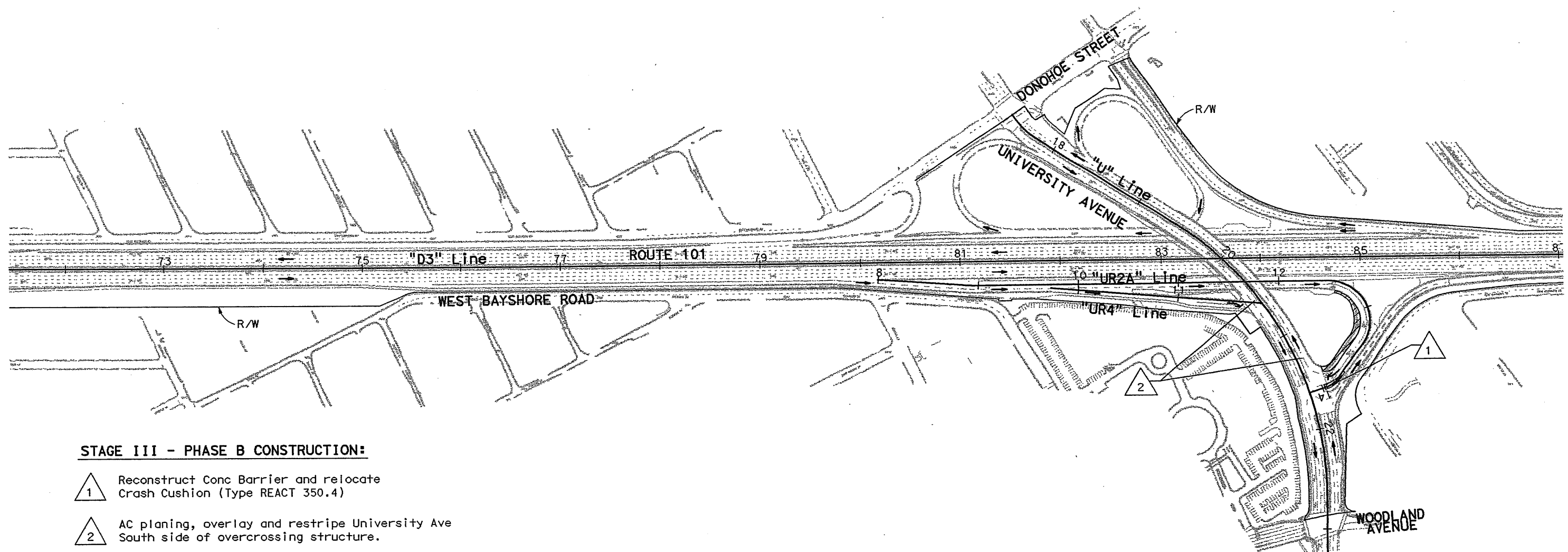
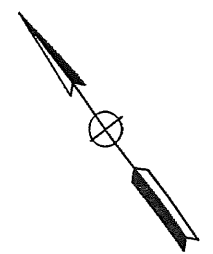
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 REGISTERED PROFESSIONAL ENGINEER
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STAGE III - PHASE B TRAFFIC:

- A. Shift Southbound off-ramp to Westbound University Ave traffic to the new diagonal off-ramp.
- B. Close outside lane of Southbound loop off-ramp and assign this ramp for Eastbound University Ave traffic only. See sheets PD-2 and PD-3.
- C. Shift all traffic to permanent roads. See sheets PD-1 through PD-3.



STAGE III - PHASE B CONSTRUCTION:

- 1 Reconstruct Conc Barrier and relocate Crash Cushion (Type REACT 350.4)
- 2 AC planing, overlay and restripe University Ave South side of overcrossing structure.

FOR LEGEND,
 SEE SHEET SC-1

STAGE CONSTRUCTION
STAGE 3- PHASE B
 SCALE: 1:2000

SC-4

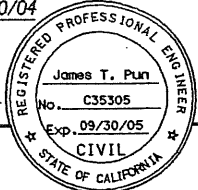
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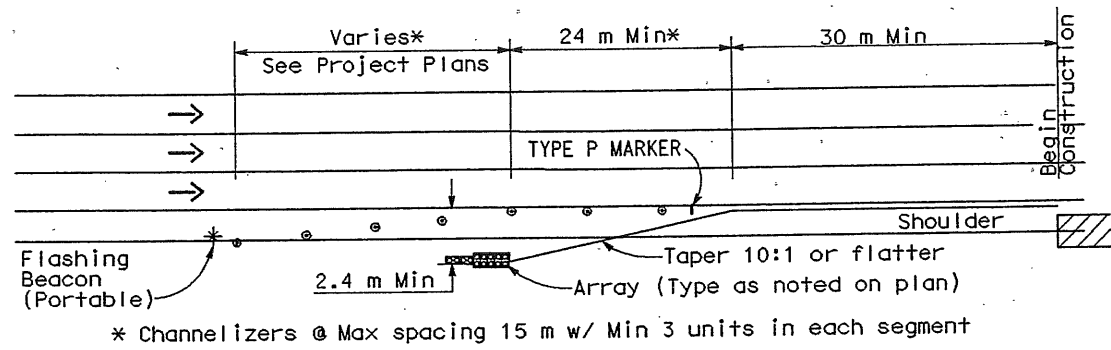
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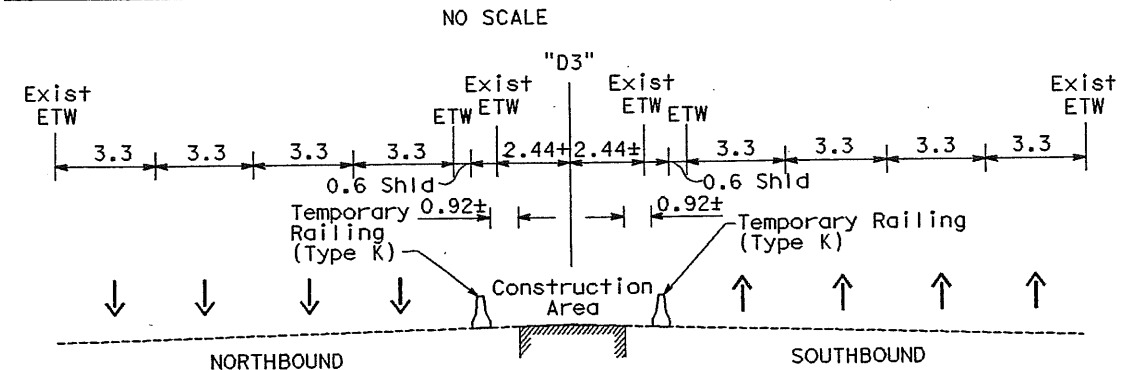
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LEGEND

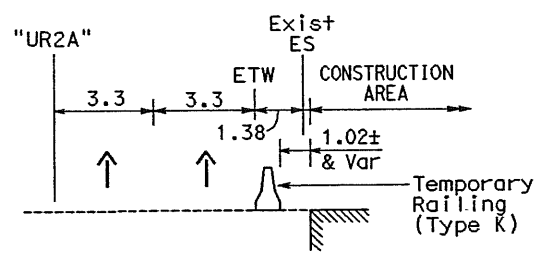
- Channelizers (Surface Mounted)
- ◆ Temporary Railing (Type K)
- ◆ Temporary Railing (Type K) from previous stage
- * Flashing Beacon (portable)
- Temporary Crash Cushion, Sand Filled Array (Type noted on plans)
- † Construction Area Sign
- † Construction Area Sign from previous stage
- XX Construction Area Sign number
- (NO.) Temporary Traffic Stripe (paint) detail
- Existing Sign to remain
- ▲ Relocate Roadway Sign
- Remove Roadway Sign
- Reset Roadway Sign
- ⊥ Type III Barricade (with warning lights)
- ▨ Permanent Construction this stage
- Direction of traffic
- MOD Modified sign



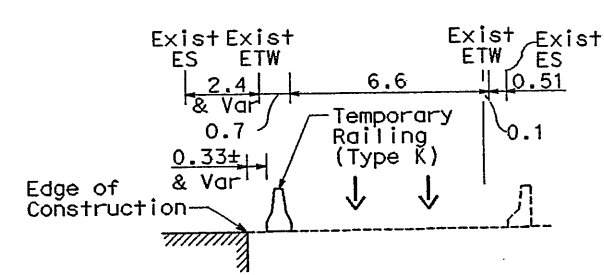
TYPICAL LONG TERM SHOULDER CLOSURE DETAIL



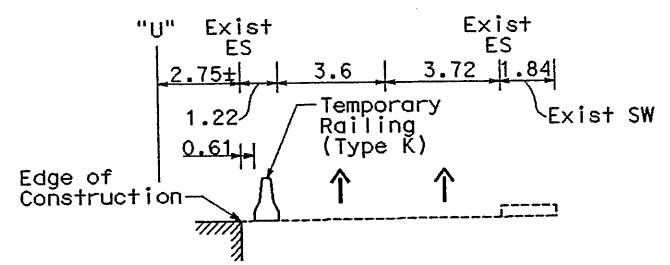
**TYPICAL SECTION A-A
ROUTE 101-STAGE 1**



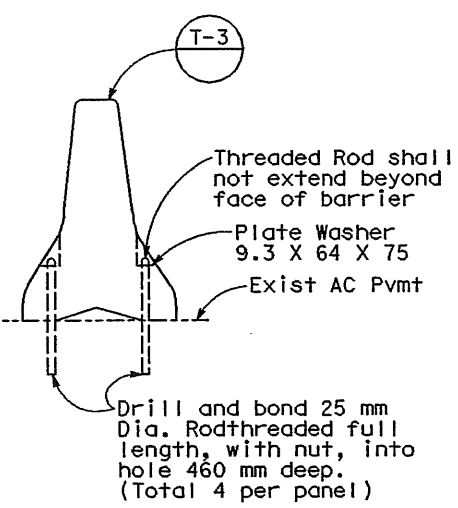
**TYPICAL SECTION B-B
SOUTHBOUND OFF-RAMP
STAGE 1**



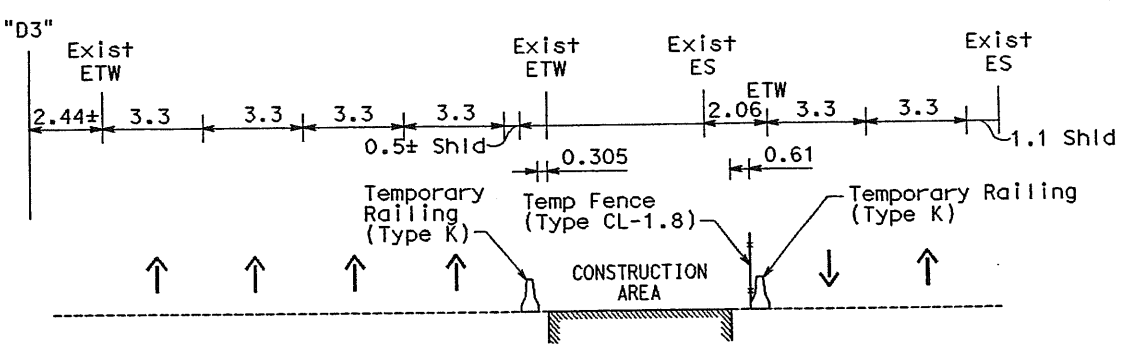
**TYPICAL SECTION C-C
NORTHBOUND ON/OFF-RAMP
STAGE 1**



**TYPICAL SECTION D-D
WESTBOUND UNIVERSITY AVENUE
STAGE 1**



**TEMPORARY RAILING (TYPE K)
DOWELING DETAILS**



**TYPICAL SECTION E-E
SOUTHBOUND ROUTE 101
STAGE 2 WEST BAYSHORE ROAD
STAGE 2**

TRAFFIC HANDLING PLAN

NO SCALE

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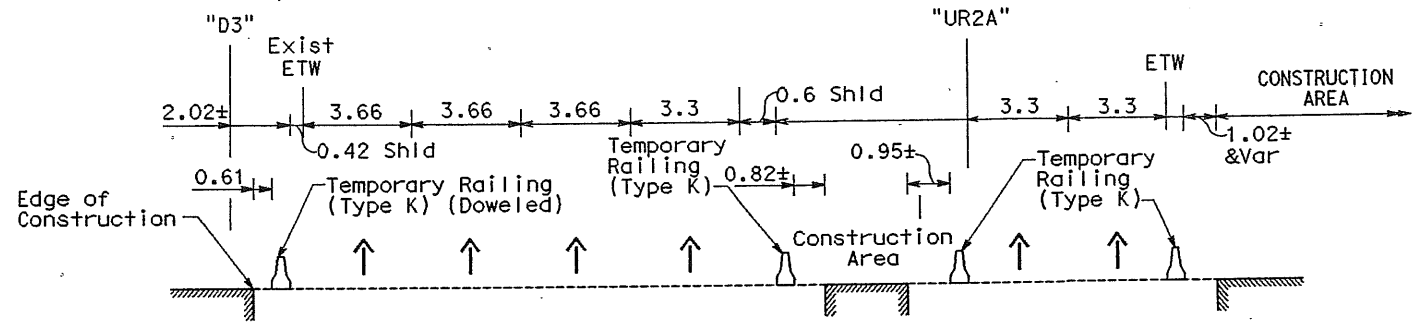
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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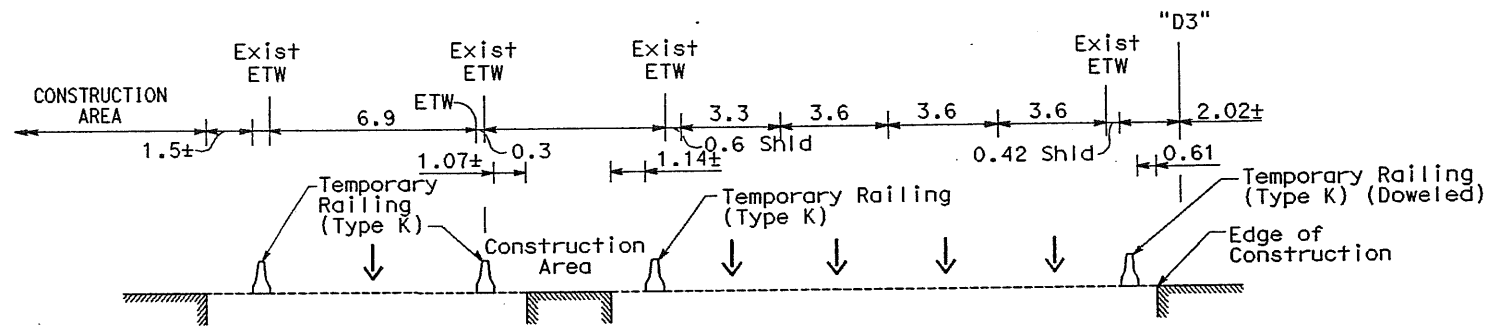
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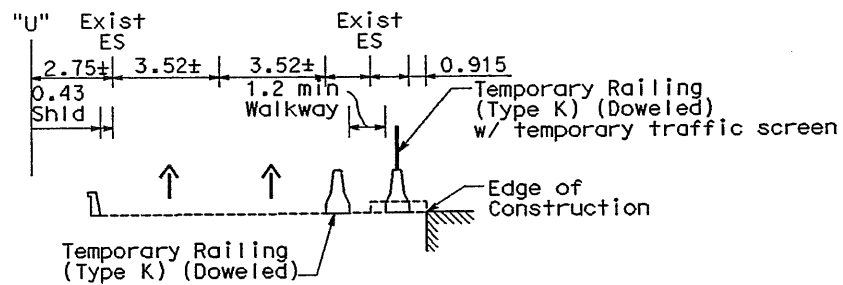
**SOUTHBOUND ROUTE 101
STAGE 2** **SOUTHBOUND OFF-RAMP
STAGE 2**
STA 10+54 TO 11+58

TYPICAL SECTION F-F
NO SCALE

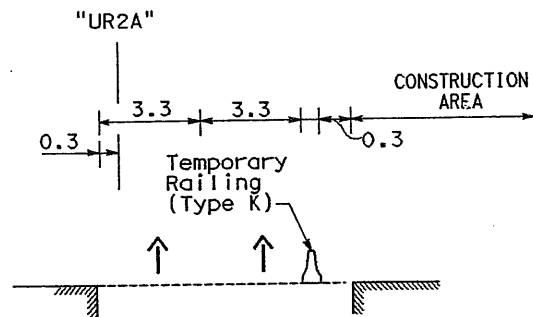


**NORTHBOUND ON/OFF-RAMP
STAGE 2** **NORTHBOUND ROUTE 101
STAGE 2**

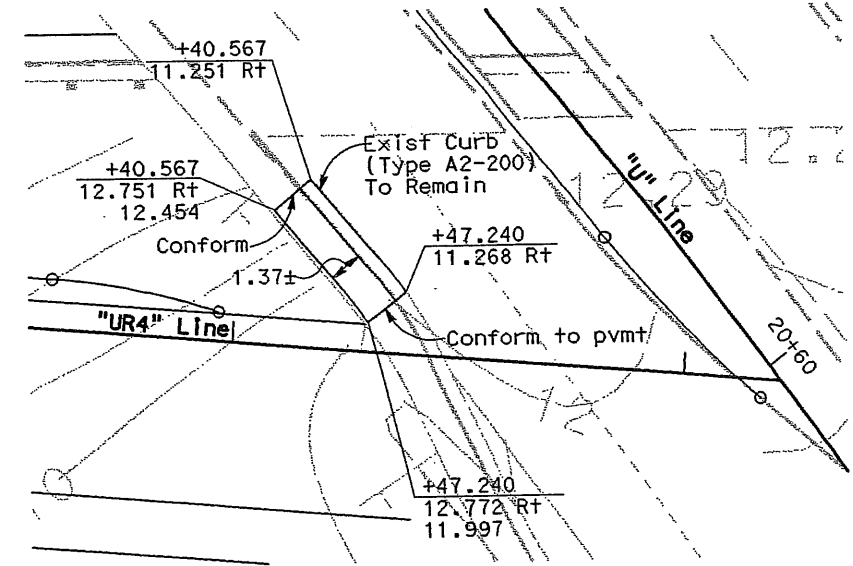
TYPICAL SECTION G-G
NO SCALE



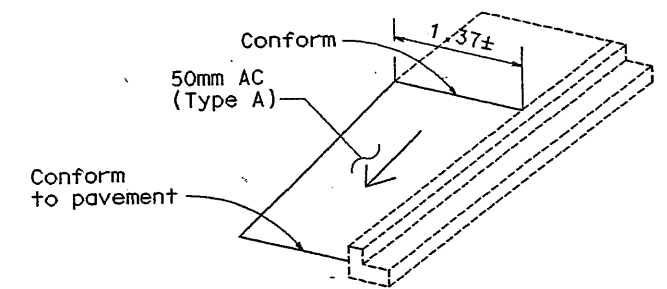
TYPICAL SECTION H-H
**WESTBOUND UNIVERSITY AVENUE
STAGE 3-PHASE 1**
NO SCALE



TYPICAL SECTION I-I
**SOUTHBOUND OFF-RAMP
STAGE 2**
STA 9+40 TO 10+54
NO SCALE



TEMPORARY CURB RAMP
NO SCALE



**TEMPORARY CURB RAMP
ISOMETRIC DETAIL**
NO SCALE

TRAFFIC HANDLING PLAN
NO SCALE

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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		45	103

James Pun 4/30/04
 REGISTERED CIVIL ENGINEER

James T. Pun
 No. C35305
 Exp. 09/30/05
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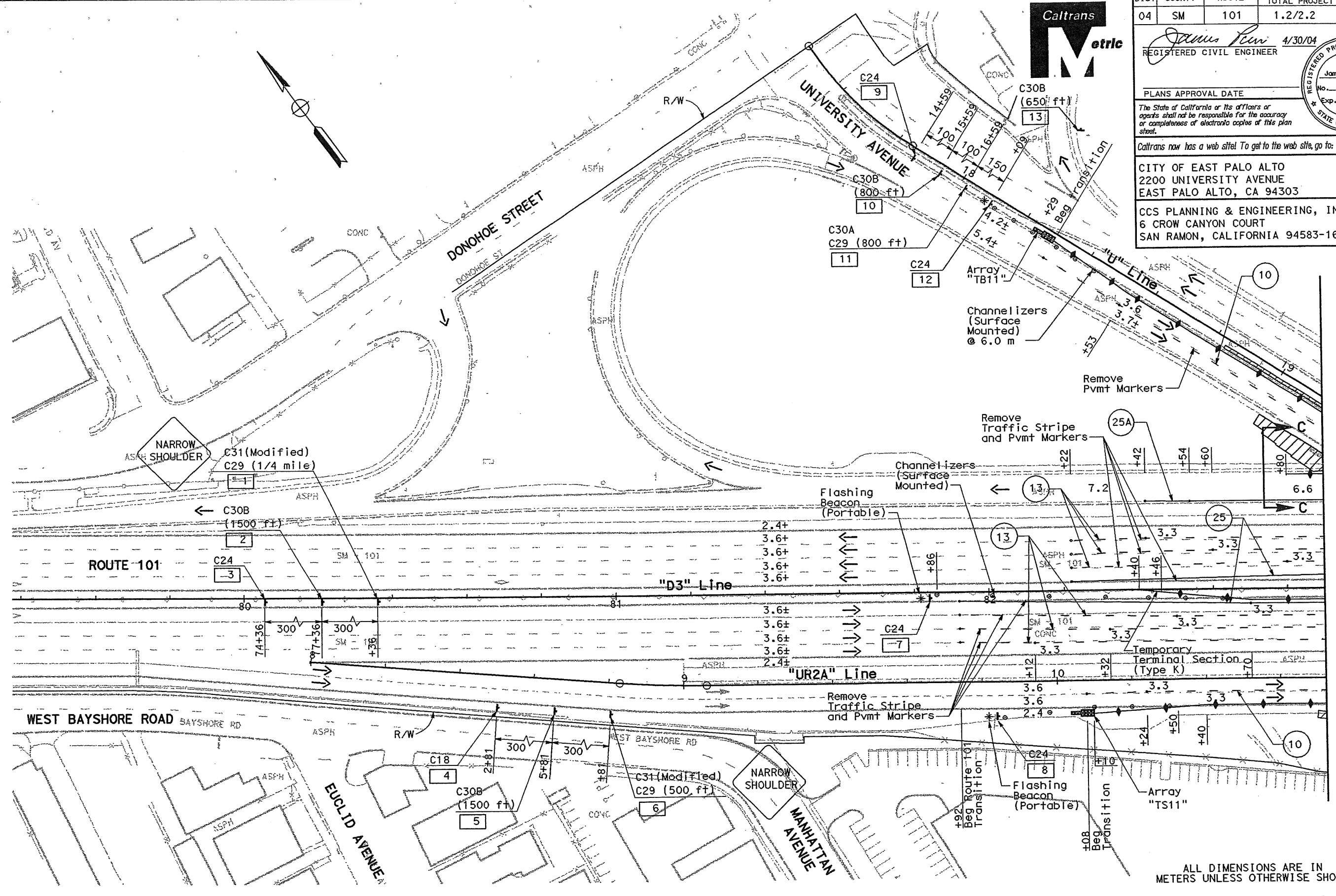
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See sheet TH-4

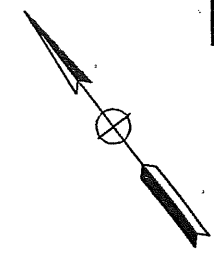
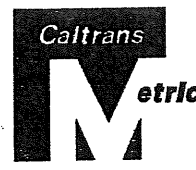
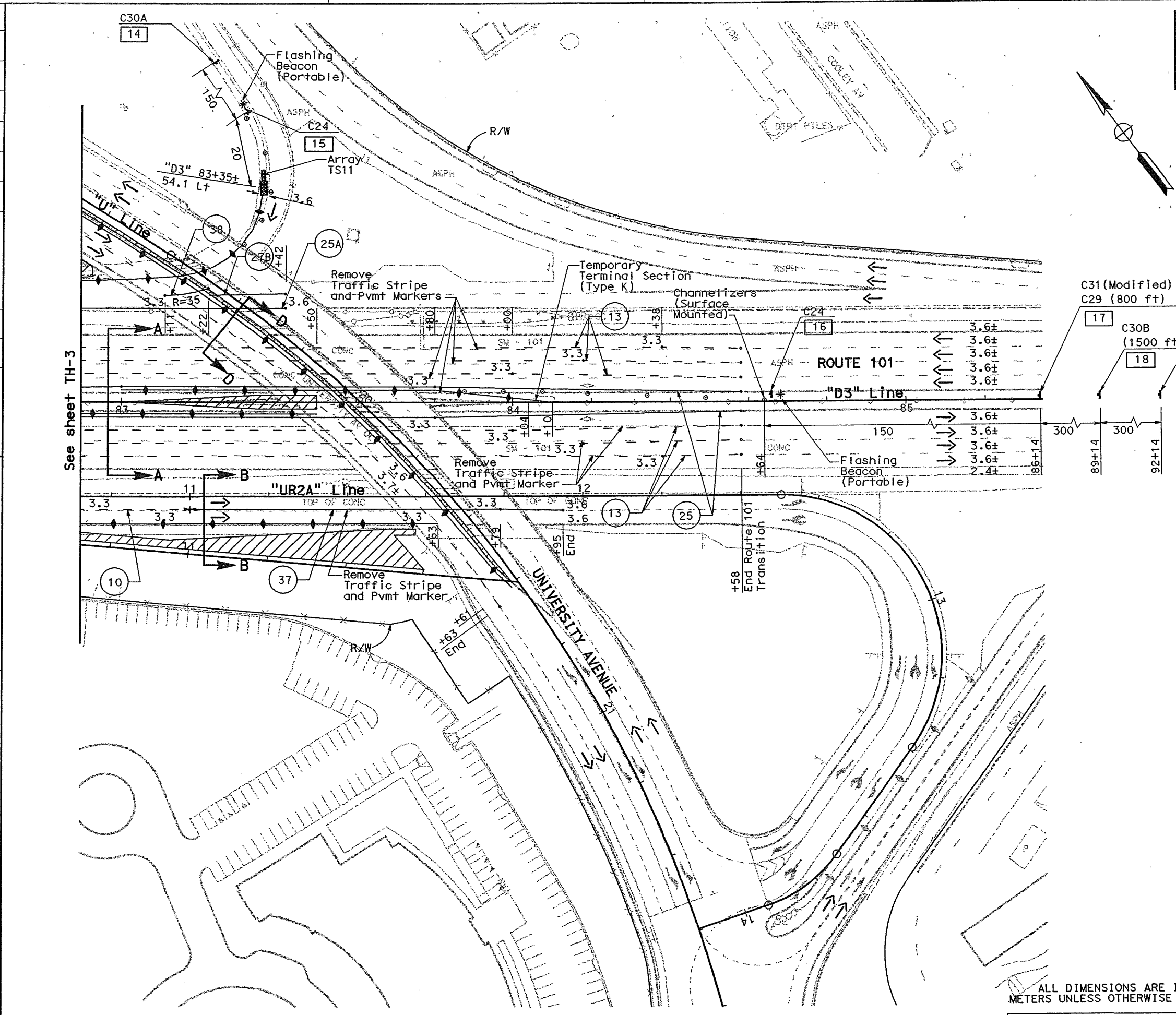
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TRAFFIC HANDLING PLAN
STAGE 1
 SCALE: 1:500

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 DATE REVISIONS
 DATE REVISIONS



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	SM	101	1.2/2.2	46	103

REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE

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 EAST PALO ALTO, CA 94303

CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET TH-1

TRAFFIC HANDLING PLAN
STAGE 1
 SCALE: 1:500

DATE	REVISOR	DATE	REVISOR
1/02	IVS	1/02	JTP
CALCULATED/DESIGNED BY		CHECKED BY	
MICHAEL REYES		MICHAEL REYES	

DESIGN OVERSIGHT
MICHAEL REYES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans



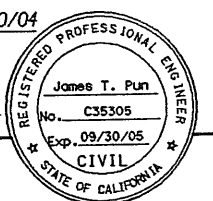
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	47	103	

James Lee 4/30/04
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

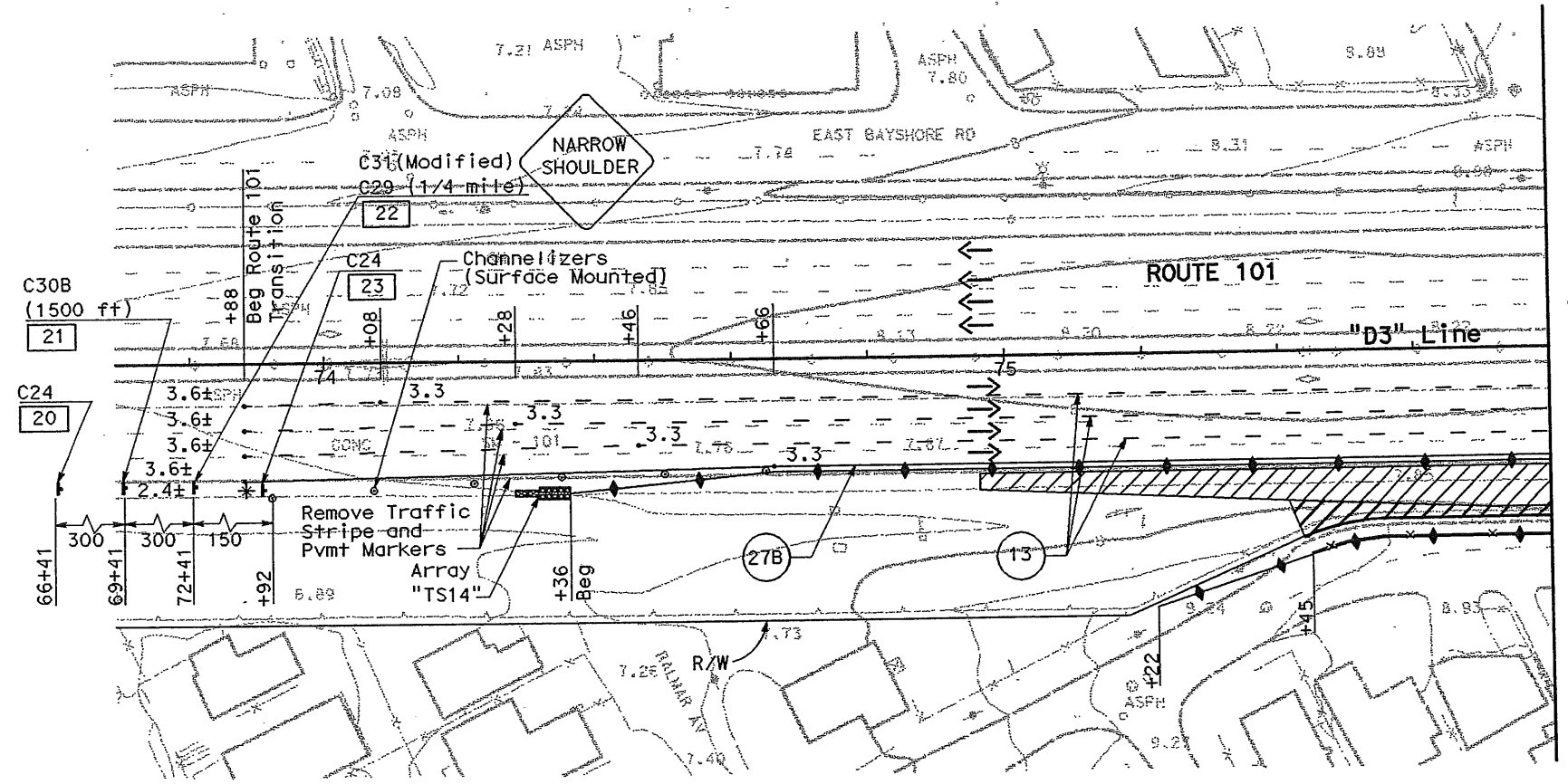
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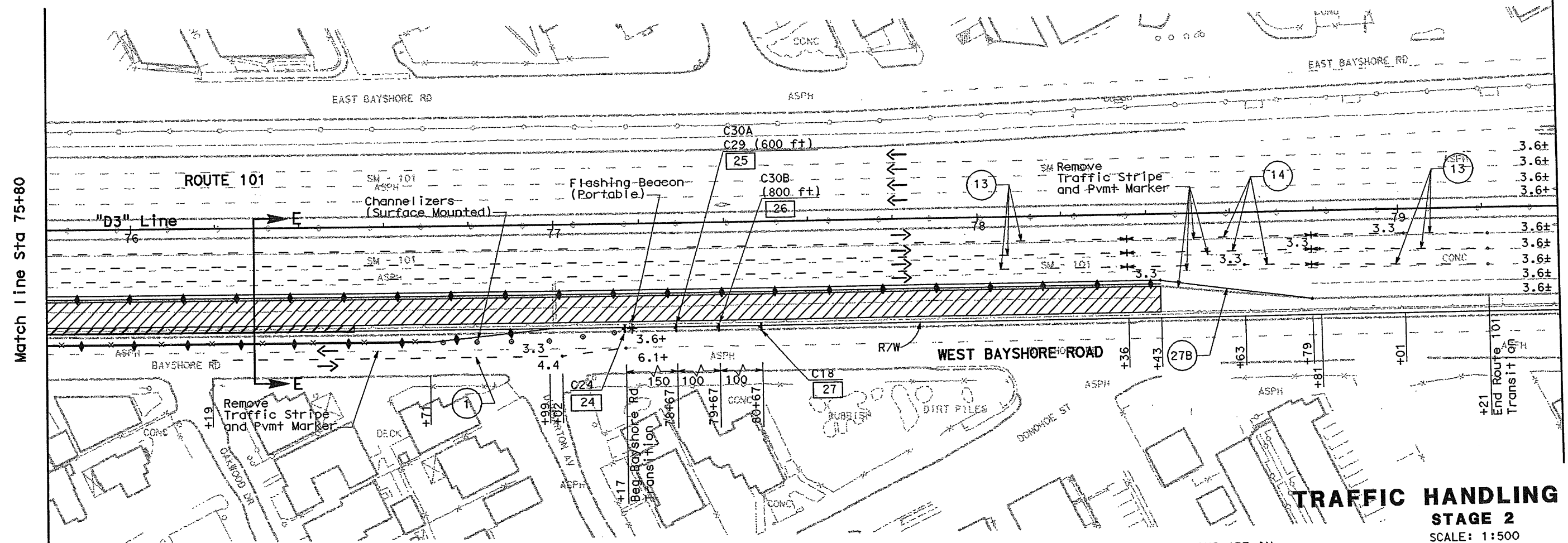
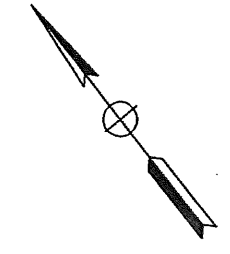


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EAST PALO ALTO, CA 94303

CCS PLANNING & ENGINEERING, INC.
6 CROW CANYON COURT
SAN RAMON, CALIFORNIA 94583-1612



Match line Sta 75+80



Match line Sta 75+80

See sheet TH-6

TRAFFIC HANDLING PLAN
STAGE 2
SCALE: 1:500

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

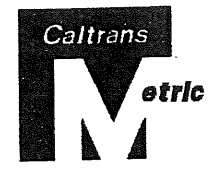
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

TH-5

DESIGN OVERSIGHT
MICHAEL REYES

CALCULATED/
 DESIGNED BY
 CHECKED BY
 DATE REVISIONS
 DATE REVISIONS

DATE REVISIONS
 DATE REVISIONS



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	48	103

REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE

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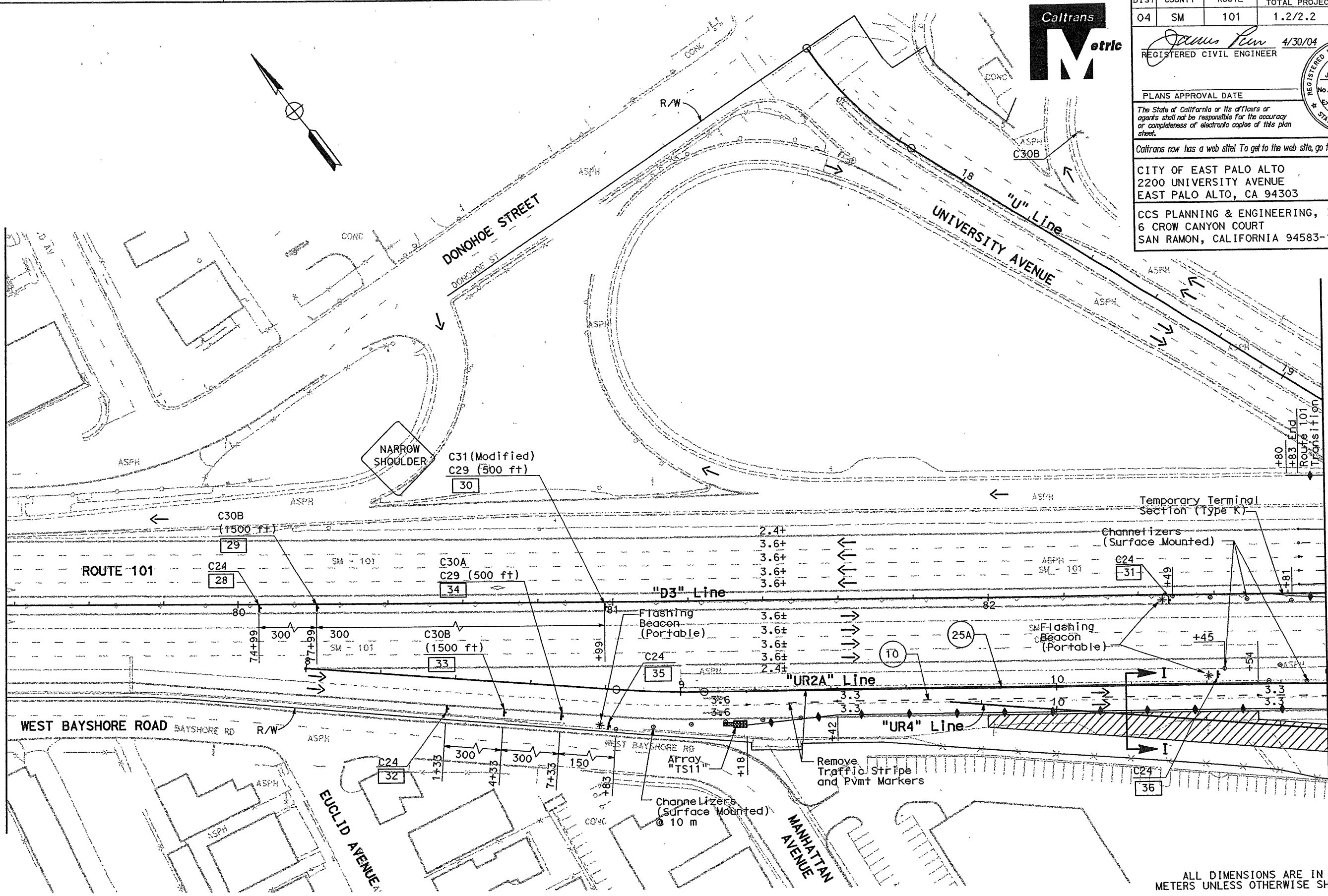
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 EAST PALO ALTO, CA 94303

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 SAN RAMON, CALIFORNIA 94583-1612

See sheet TH-5

See sheet TH-7



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

TRAFFIC HANDLING PLAN
STAGE 2
 SCALE: 1:500

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET TH-1

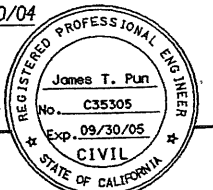
TH-6

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Caltrans
 DESIGN OVERSIGHT
MICHAEL REYES
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 IVS
 CHECKED BY
 JTP
 DATE REVISED BY
 DATE REVISED
 DATE REVISED
 DATE REVISED



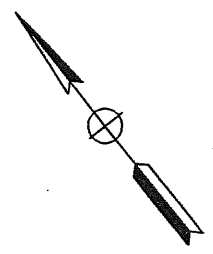
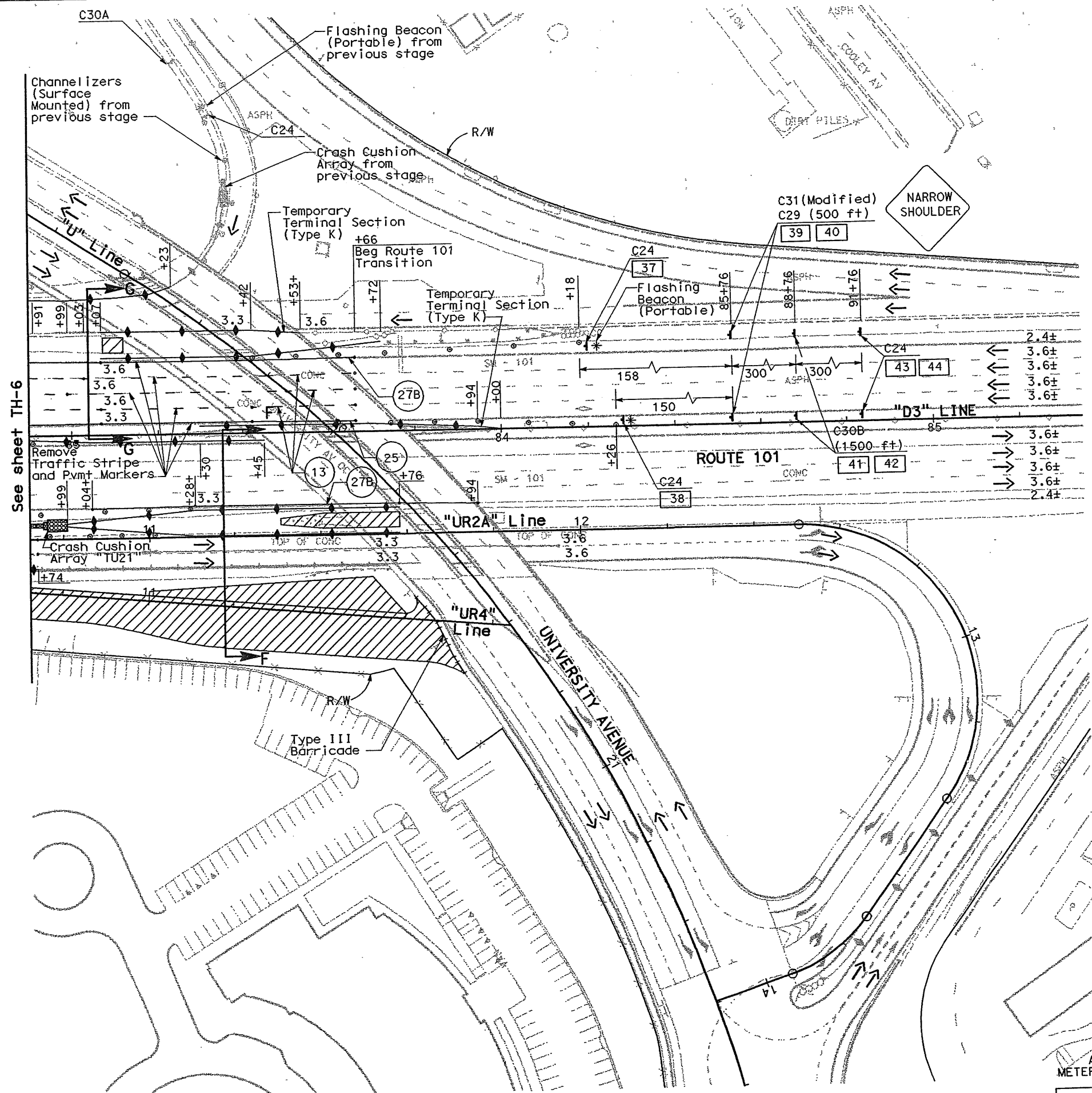
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	49	103

James T. Pun 4/30/04
 REGISTERED CIVIL ENGINEER



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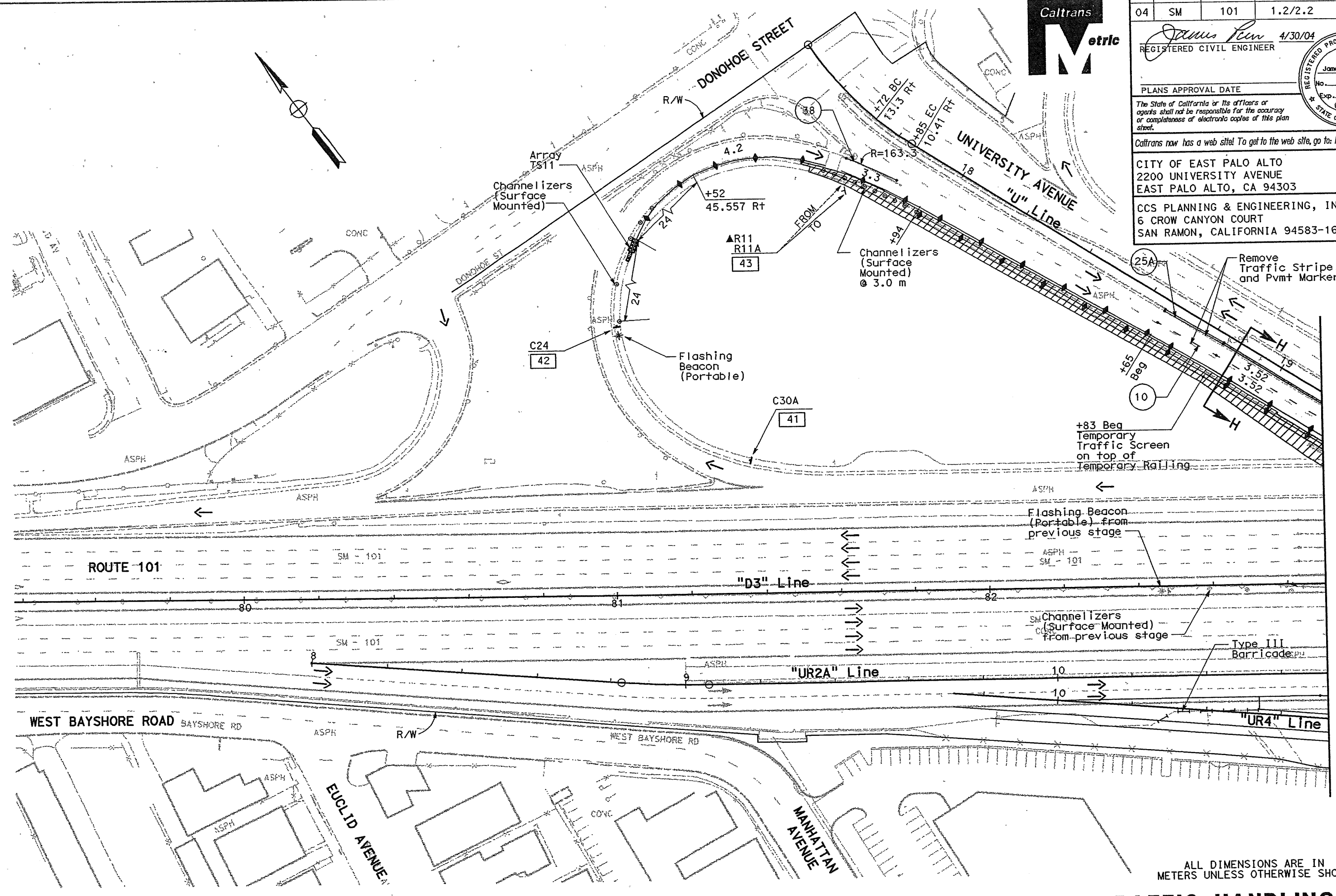
TRAFFIC HANDLING PLAN
STAGE 2
 SCALE: 1:500

TH-7

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Caltrans
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MICHAEL REYES
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 DATE REVISIED
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 DATE REVISIED
 DATE REVISIED

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		50	103

James T. Pun 4/30/04
 REGISTERED CIVIL ENGINEER
 PLANS APPROVAL DATE
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 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612



See sheet TH-9

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

TRAFFIC HANDLING PLAN
STAGE 3-PHASE A
 SCALE: 1:500

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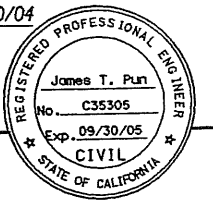
FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET TH-1

TH-8



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	51	102

James Pun 4/30/04
 REGISTERED CIVIL ENGINEER



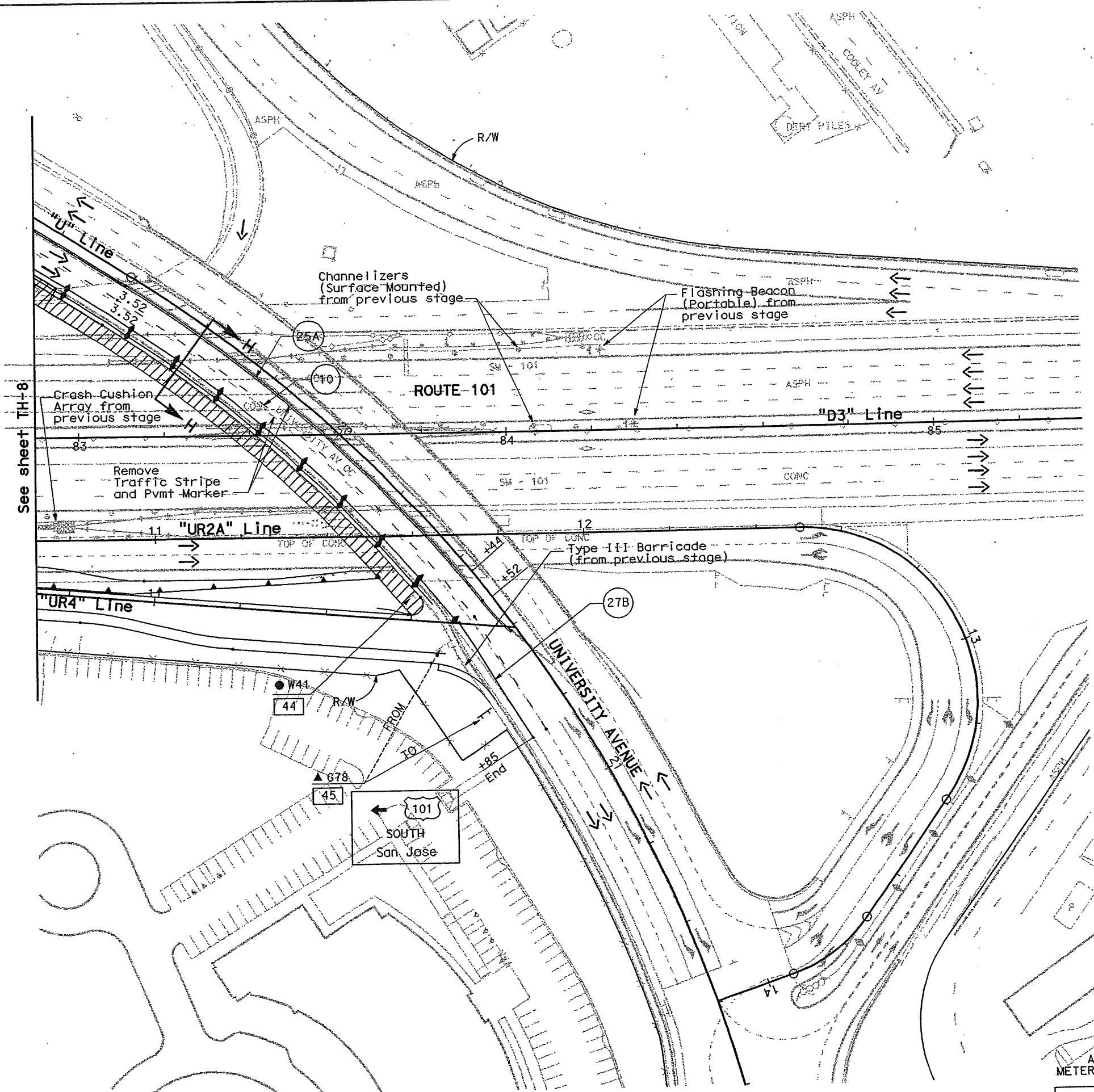
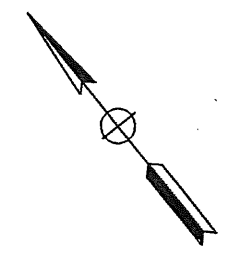
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FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET TH-1

TRAFFIC HANDLING PLAN
STAGE 3-PHASE A
 SCALE: 1:500

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	52	103

James Puri 4/30/04
 REGISTERED CIVIL ENGINEER
 James T. Puri
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE

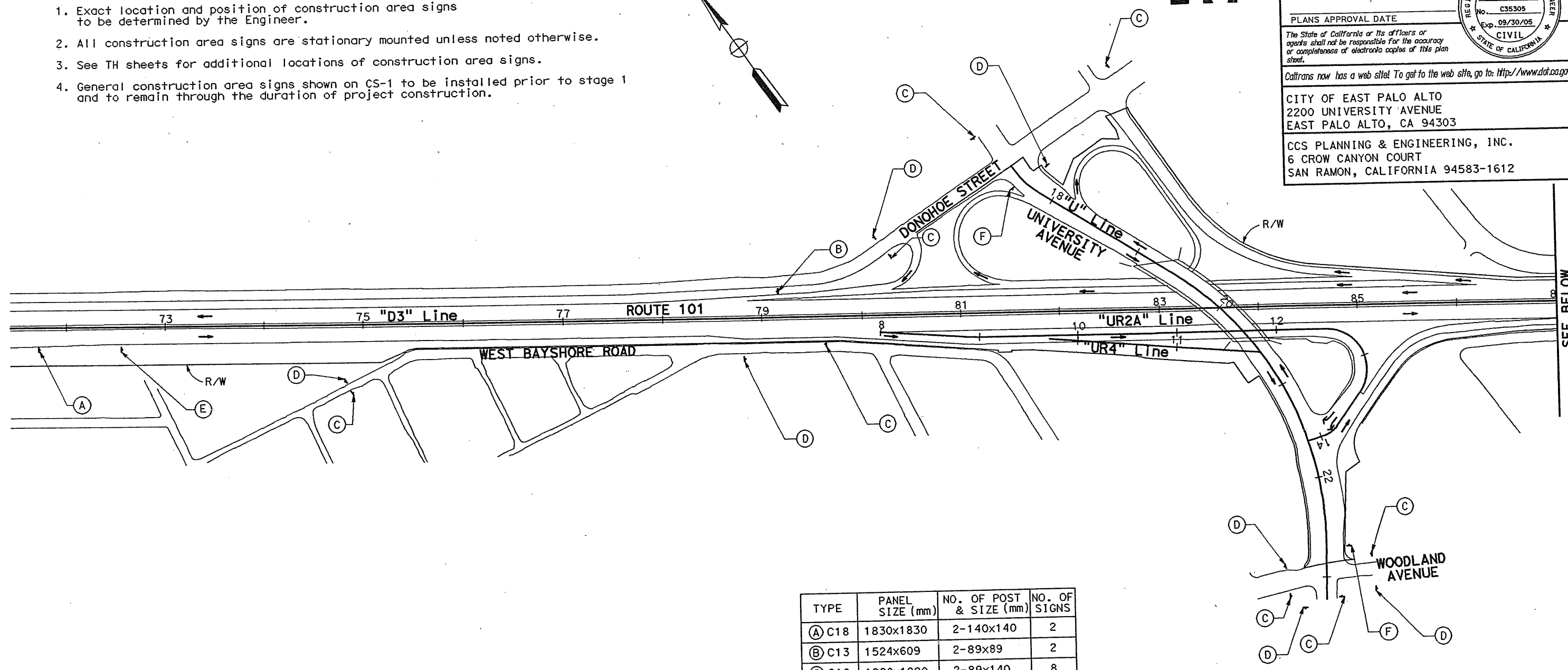
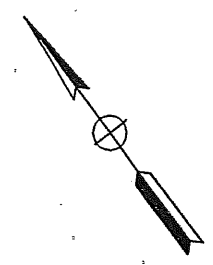
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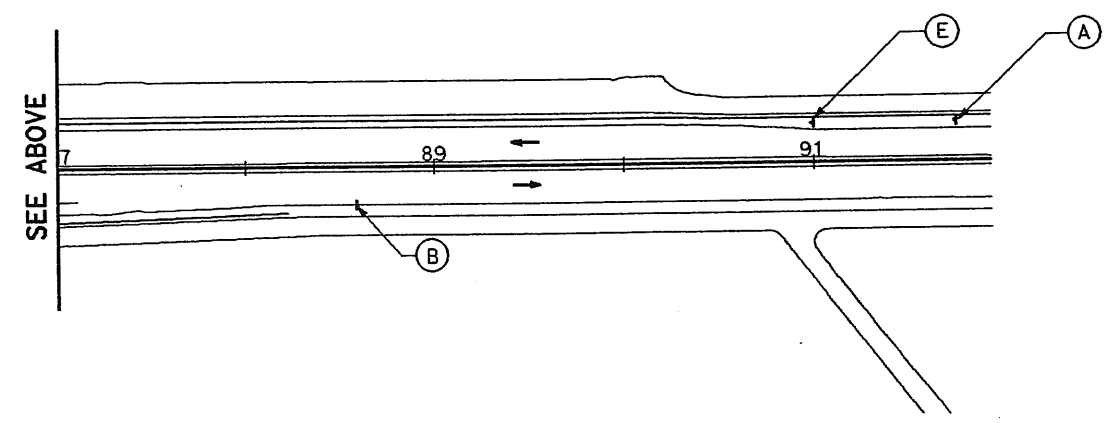
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- NOTE:**
1. Exact location and position of construction area signs to be determined by the Engineer.
 2. All construction area signs are stationary mounted unless noted otherwise.
 3. See TH sheets for additional locations of construction area signs.
 4. General construction area signs shown on CS-1 to be installed prior to stage 1 and to remain through the duration of project construction.



TYPE	PANEL SIZE (mm)	NO. OF POST & SIZE (mm)	NO. OF SIGNS
(A) C18	1830x1830	2-140x140	2
(B) C13	1524x609	2-89x89	2
(C) C18	1220x1220	2-89x140	8
(D) C13	1067x458	2-89x89	7
(E) C40	2743x1067	2-89x140	2
(F) C40	1829x914	2-89x140	2



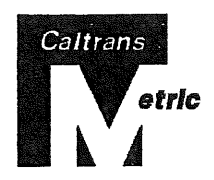
SEE BELOW

CONSTRUCTION AREA SIGNS
 SCALE: 1:2000

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CS-1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	53	103

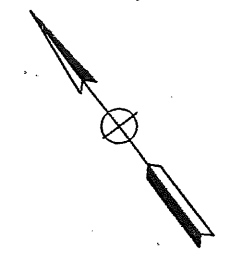


NOTES:

- See Standard Plan T10 for freeway closure. See Standard Plan T14 for ramp closure.
- Locations of construction area signs shown are approximate only. Exact locations to be determined by the engineer.
- Conflicting signs shall be covered when not in use.
- Detour signs to be covered or removed when not in use.
- Information signs shall be installed a minimum of 72 hours prior to freeway/ramp closure.
- Contractor shall maintain emergency vehicle access at all times.

LEGEND

- █ Freeway/Ramp closure
- ← Detour direction
- ↑ Detour sign



James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER

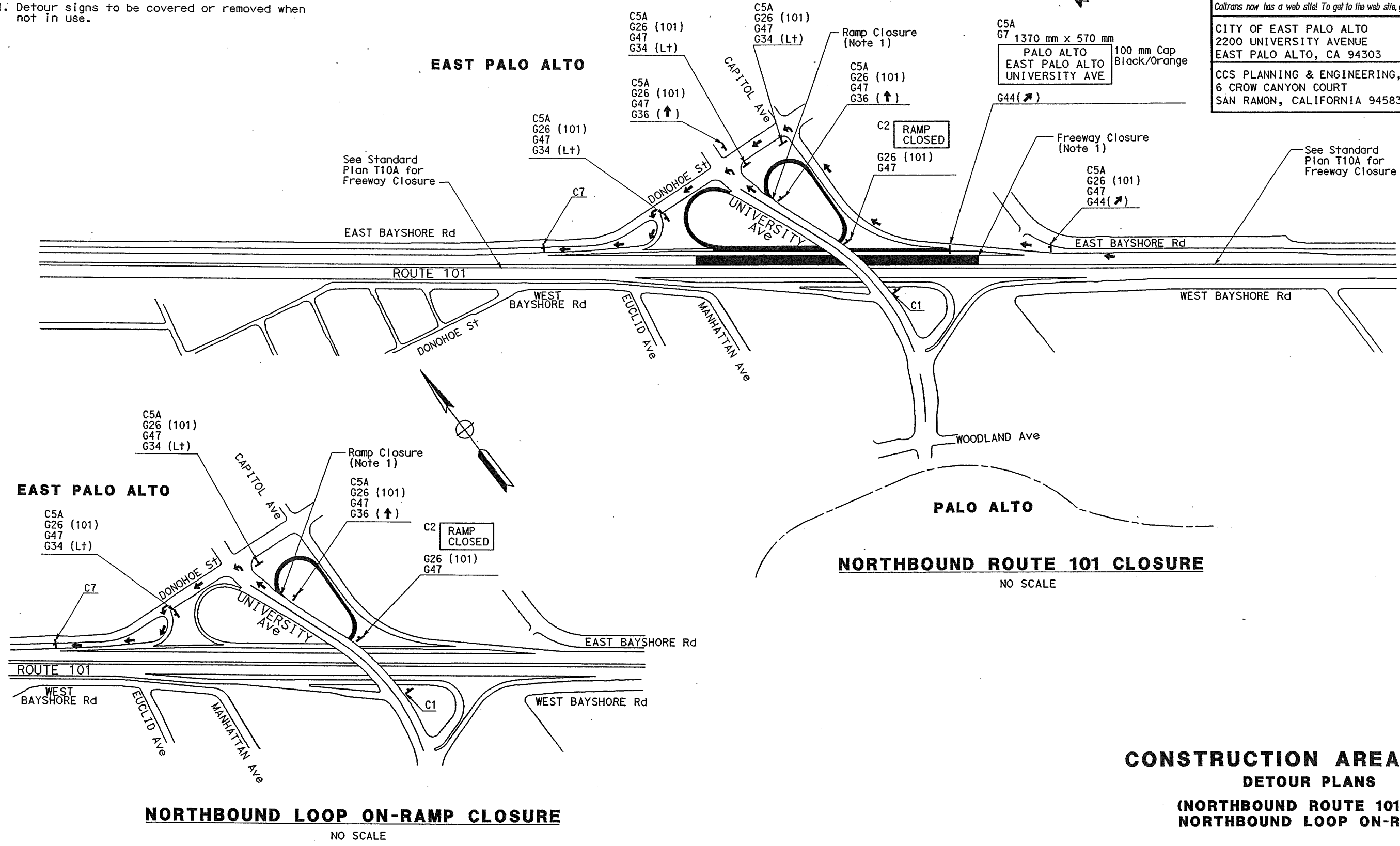
PLANS APPROVAL DATE

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NORTHBOUND LOOP ON-RAMP CLOSURE
NO SCALE

NORTHBOUND ROUTE 101 CLOSURE
NO SCALE

**CONSTRUCTION AREA SIGNS
DETOUR PLANS
(NORTHBOUND ROUTE 101 AND
NORTHBOUND LOOP ON-RAMP)**

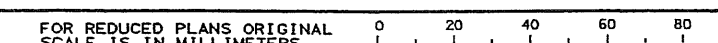
DESIGNED BY	REVISOR	DATE
DESIGNED BY	REVISOR	DATE
CHECKED BY	REVISOR	DATE
CHECKED BY	REVISOR	DATE

DESIGN OVERSIGHT
MICHAEL REYES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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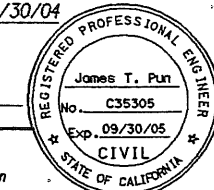
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	54	103

James Pun 4/30/04
 REGISTERED CIVIL ENGINEER

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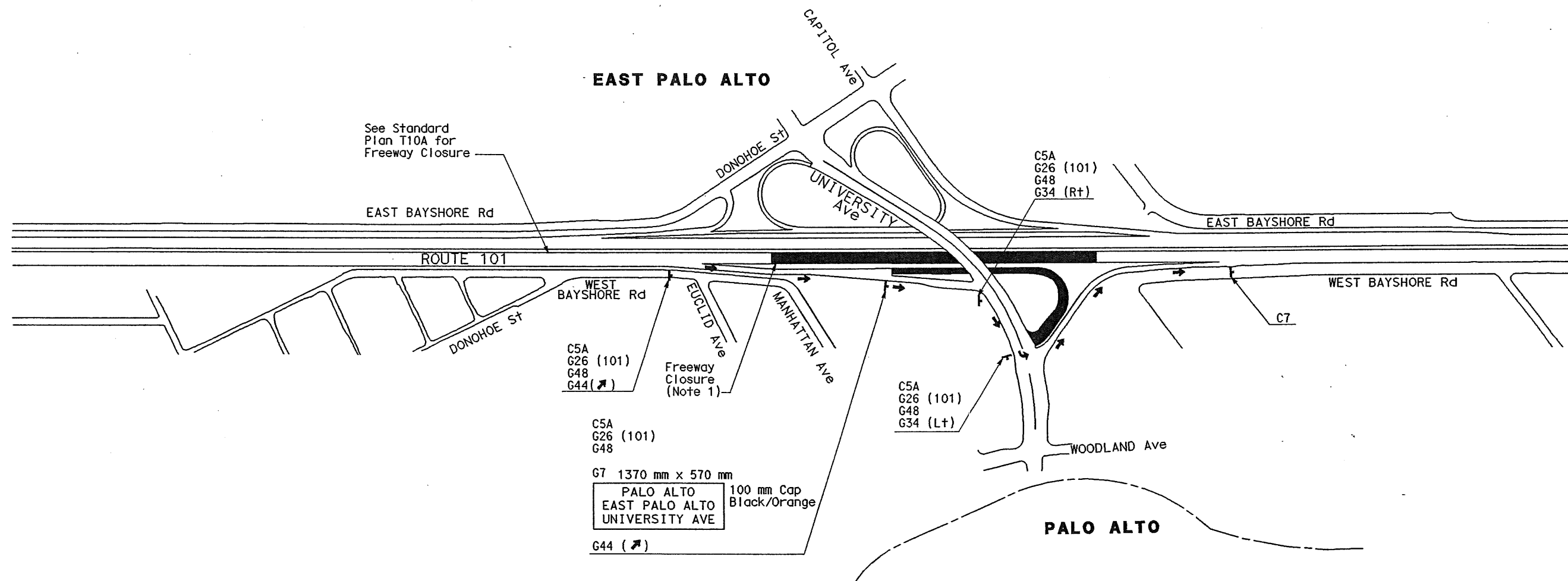
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DATE	REVISOR	REVISION
11/02	IVS	JTP

DESIGN OVERSIGHT
 MICHAEL REYES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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SOUTHBOUND ROUTE 101 CLOSURE
 NO SCALE

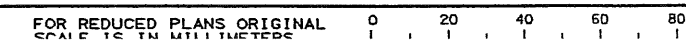
**CONSTRUCTION AREA SIGNS
 DETOUR PLANS
 (SOUTHBOUND ROUTE 101)**

FOR NOTES AND LEGEND,
 SEE SHEET CS-2

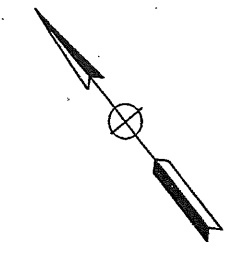
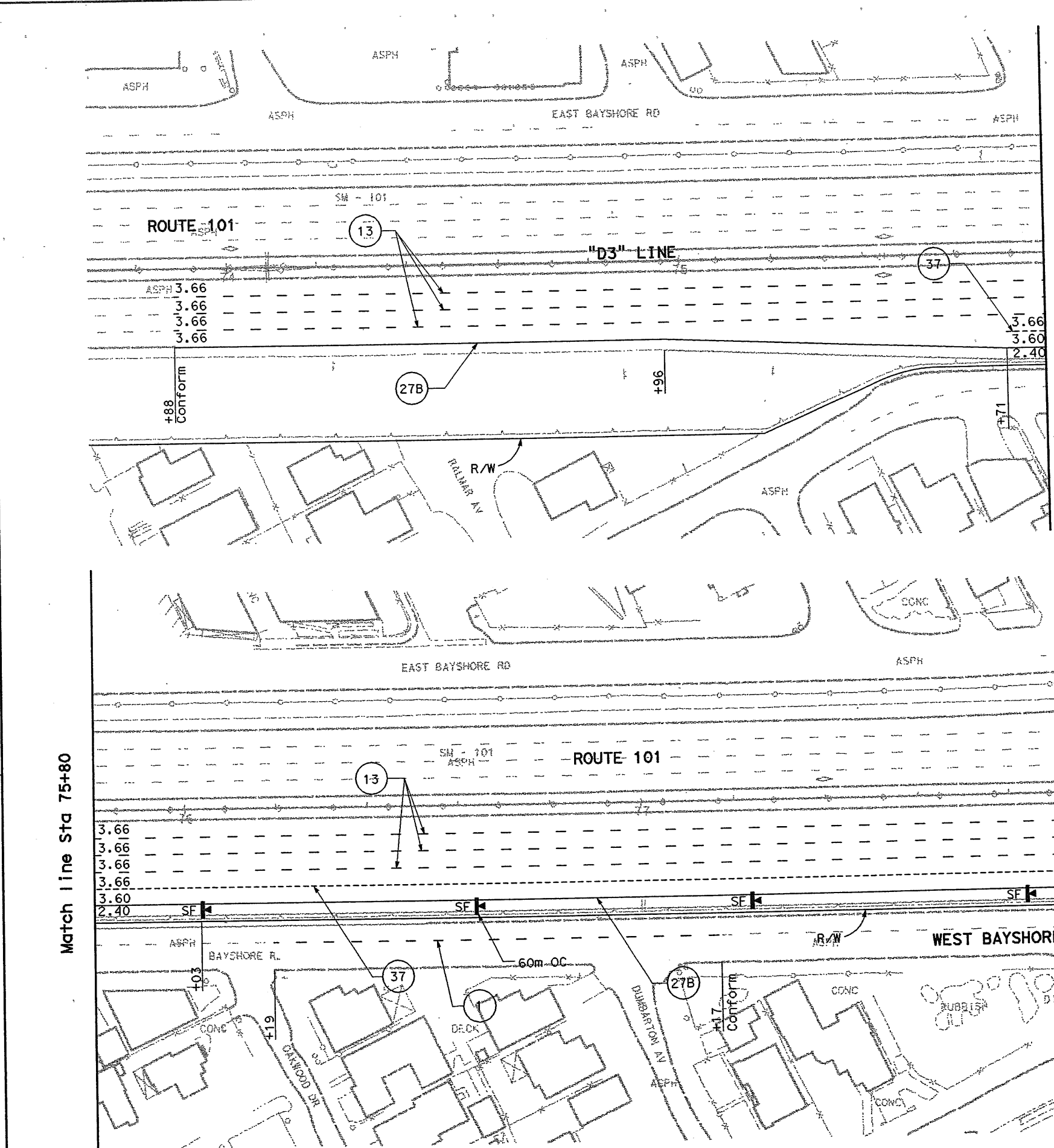
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CS-3



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 WILLIAM UESUGI



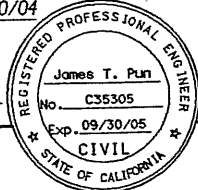
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	55	103

James T. Pun 4/30/04
 REGISTERED CIVIL ENGINEER

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LEGEND:

- (25A) Pavement Delineation detail
- Change of Pavement Delineation detail
- /// Remove existing traffic stripe
- ▷ G Delineator (Class 1) - Type (E,F,G & I)
- | K-1 Object Marker - Type (K-1 & L-1)
- S ▷ "SIGNAL AHEAD" Pavement Markings
- ▷ SF Sound Wall Delineators Mounted on Sound Wall (See Mounting Details on Sheet S-5)

NOTES:

1. All Pavement Striping, Legends and Markings shall be thermoplastic unless otherwise noted.
2. All crosswalks are 3 meters wide, unless otherwise noted.
3. See Pavement Delineation Quantities for exact location of Pavement Markings
4. All arrows shall be placed with its point 6.10 m preceding the limit line and crosswalk.

CALIFORNIA DEPARTMENT OF TRANSPORTATION			
APPROVED	FOR STRIPING AFFECTING STATE FACILITIES	DATE	
APPROVED	FOR STRIPING AFFECTING STATE FACILITIES	DATE	
CD	RTE	PM	PERMIT No

Match line Sta 75+80

See sheet PD-2

PAVEMENT DELINEATION PLAN
 SCALE: 1:500

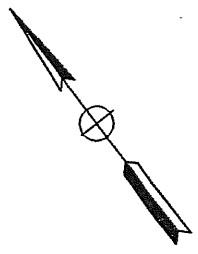
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PD-1

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Caltrans
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 WILLIAM UESUGI
 DATE REVISIONS BY DATE REVISIONS BY DATE REVISIONS BY
 4/02 IVS 4/02 JTP 4/02

CALIFORNIA DEPARTMENT OF TRANSPORTATION			
APPROVED	FOR SIGNING AFFECTING STATE FACILITIES	DATE	
APPROVED	FOR STRIPING AFFECTING STATE FACILITIES	DATE	
CD	RTE	PM	PERMIT NO.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	56	103

James T. Pun 4/30/04
 REGISTERED CIVIL ENGINEER

James T. Pun
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

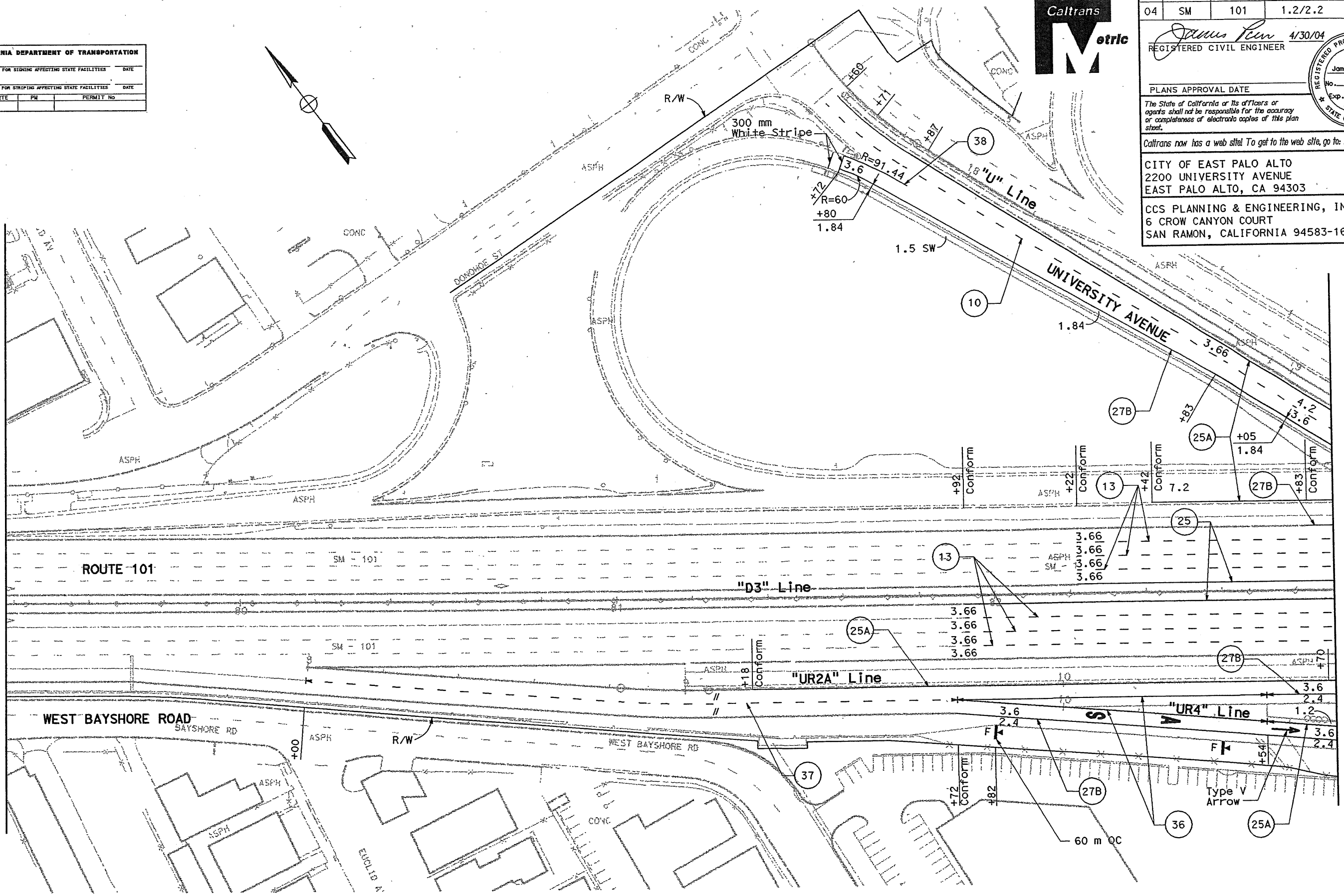
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See sheet PD-1

See sheet PD-3

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FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION ONLY

PAVEMENT DELINEATION PLAN
 SCALE: 1:500

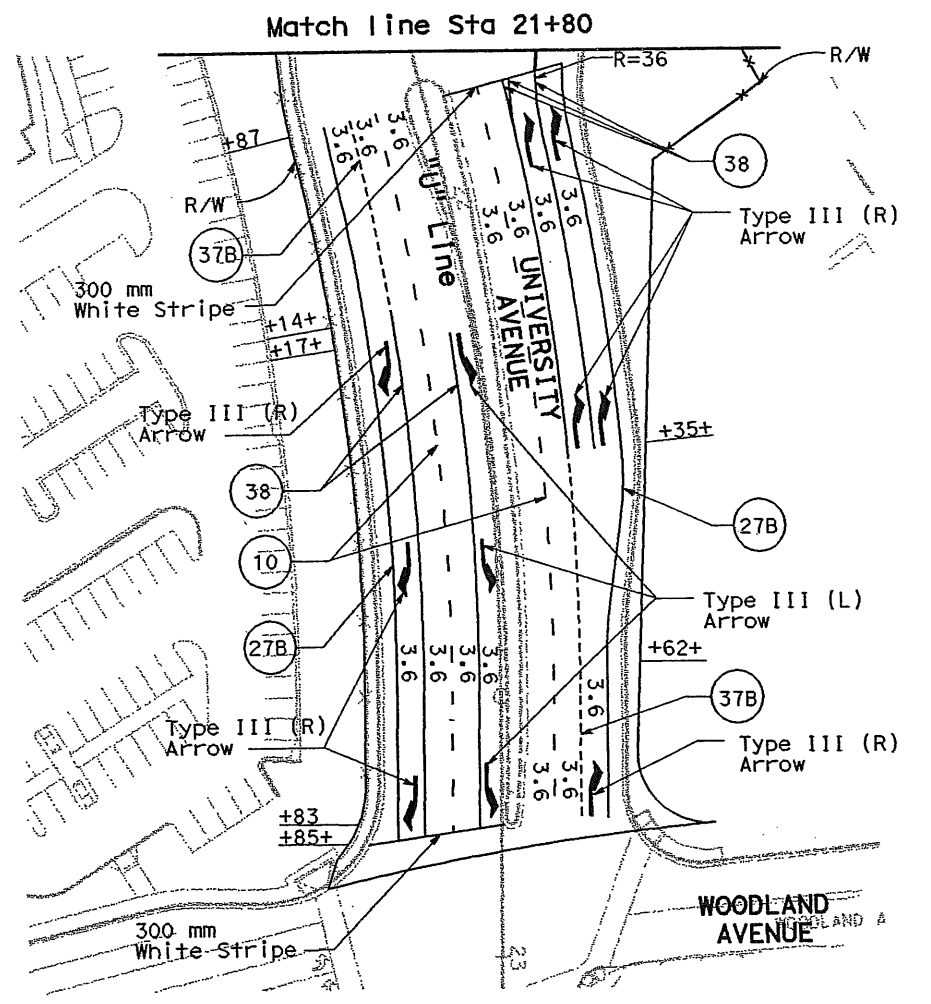
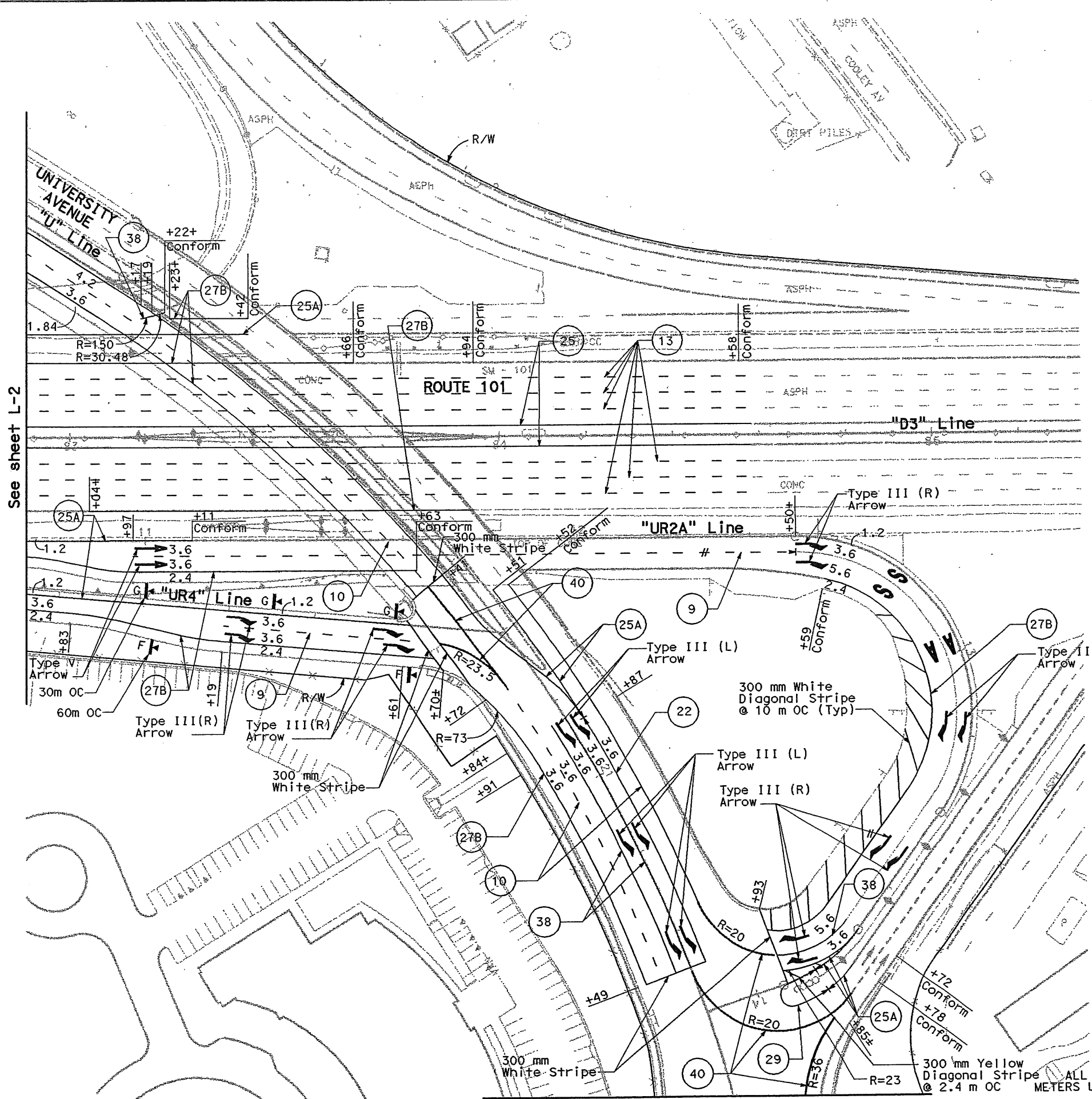


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	57	103

REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

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 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612

CALIFORNIA DEPARTMENT OF TRANSPORTATION			
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APPROVED	FOR STRIPING AFFECTING STATE FACILITIES	DATE	
CO	RTE	PM	PERMIT No



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 DESIGN OVERSIGHT
 WILLIAM UESUGI
 DATE REVISED BY
 DATE 4/02
 DESIGNED BY
 IVS
 CHECKED BY
 JTP
 DATE REVISED
 4/02

Match line Sta 21+80
 THIS PLAN ACCURATE FOR PAVEMENT DELINEATION ONLY

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FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET PD-1

PAVEMENT DELINEATION PLAN

SCALE: 1:500

PD-3



MINOR CONCRETE

SHEET No.	STATION	LOCATION	CONCRETE SIDEWALK m ²	CURB RAMP EA	CURB	
					A2-200 m	B-1 m
L-2	U 17+65.16 TO 19+22.40	Rt			162.12	
L-2	U 18+65.09 TO 19+35.86	Rt				70.77
L-2	U 17+70	Rt		1		
L-2	U 17+67.62 TO 19+17.99	Rt	272.81			
L-3	UR4 11+65.19 TO U 20+71.68	Rt			17.72	
L-3	UR4 11+59.28 TO U 20+41.03	Lt			9.69	
L-3	U 20+46.16 TO 20+60.89	Rt				14.74
L-3	UR4 11+60.14 TO 11+65.19	Lt & Rt		2		
L-3	UR4 11+60.14 TO U 20+32.73	Lt	19.95			
L-3	UR4 11+65.19 TO U 20+71.68	Rt	10.76			
TOTAL			303.52	3	189.53	85.51

CONCRETE BARRIER

SHEET No.	STATION	BARRIER TYPE 50E	BARRIER TYPE 60SE	BARRIER TYPE 60C	BARRIER TYPE 60C Mod
		m	m	m	m
L-3	D3 83+10.00 TO 83+48.00	40			
L-3	D3 83+08.28 TO 83+22.28		14		
L-3	UR2A 11+21.97 TO 11+52.77		31		
L-3	UR2A 13+71.94 TO 13+85.55			12	3
TOTAL		40	45	12	3

PLACE AC DIKE

STATION	LOCATION	AC DIKE TYPE A	AC DIKE TYPE C	AC (TYPE A) *
		m	m	TONNE
UR4 10+54.18 TO 11+65.19	Rt		113	2.44
UR4 11+51.888 TO 11+59.28	Lt	8		0.59
TOTAL		8	113	3.03

* See Roadway Quantities for Grand Total.

PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)

STATION	LOCATION	AREA	AC (TYPE A) *	DESCRIPTION
		m ²	TONNE	
UR2A 9+60 TO UR4 9+77	Rt	17.19	2.06	LINED SIDE SLOPE
UR4 9+77 TO 9+82	Rt	56.40	6.77	LINED SIDE SLOPE
UR4 9+82 TO 11+60	Rt	969.61	116.35	LINED SIDE SLOPE
UR4 10+54 TO 11+52	Lt	229.11	27.49	LINED SIDE SLOPE
UR4 11+00 TO 11+52	Lt	222.14	26.66	LINED SIDE SLOPE
UR4 11+52 TO 11+60	Lt	33.36	4.00	LINED SIDE SLOPE
TOTAL		1527.81	183.34	

* See Roadway Quantities for Grand Total.

REMOVE CONCRETE

STATION	LOCATION	REMOVE CONCRETE			
		CURB m ³	SIDEWALK m ³	MEDIAN m ³	CONCRETE BARRIER m
U 17+65.16 TO 19+05.16	Rt	21.87	18.23		
U 20+37.70 TO 20+71.68	Rt	5.27	4.66		
U 18+65.09 TO 19+35.86	Rt	10.79		0.94	
U 20+46.16 TO 20+60.89	Rt	2.28		0.15	
D3 75+44.25 TO 76+52.79	Rt	6.98			
D3 83+10.00 TO 83+48.00	Lt & Rt				39
D3 82+95.74 TO 83+22.28	Lt				28
UR2A 11+40.00 TO 11+52.77	Lt				13
UR2A 13+71.94 TO 13+88.53	Lt				17
TOTAL		47.19	22.89	1.09	97

EARTHWORK QUANTITIES

LOCATION	ROADWAY EXCAVATION		EMBANKMENT (N) m ³	IMPORTED BORROW m ³	
	TYPE Y ADL**	ROADWAY EXCAVATION m ³			
	D3 75+65.00 TO 78+43.33	807.61		0.00	0.00
UR4 9+71.88 TO 11+65.19	147.14		2418.57	2271.43	
U 17+65.16 TO 19+17.99		610.73	805.93	195.20	
U 20+32.73 TO 20+71.68		9.61	20.72	11.11	
TOTAL		954.75	620.34	3245.22	1888.09

(N)= Not a separate pay item, for information only.

** Aerially Deposited Lead

CRASH CUSHION

SHEET No.	STATION	SALVAGE CRASH CUSHION	RELOCATE CRASH CUSHION (TYPE REACT)	CRASH CUSHION	
		EA	EA	SAND FILLED ARRAY "U14"	ADIEM EA
L-2	UR4 10+70.00				1
L-3	UR2A 13+85.55		1		
L-3	UR2A 11+40.00	14		1	
TOTAL		14	1	1	1

PLANE ASPHALT CONCRETE PAVEMENT

SHEET No.	STATION	AREA
		m ²
L-2	UR4 9+72 TO 10+60	96.60
L-3	U 20+38 TO 22+83	846.95
TOTAL		943.55

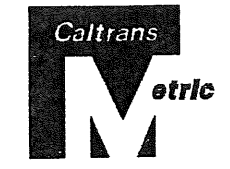
OBLITERATE SURFACING

SHEET No.	STATION	AREA
		m ²
L-2/3	UR4 40+14 TO 10+97	106.91
TOTAL		106.91

ROADWAY QUANTITIES

STATION	AC (TYPE A)	AC (TYPE A) 12.5 mm Max GRADING	AB (CI 3)	
	TONNE	TONNE	m ³	
D3 75+65.00 TO 78+43.33	2074.32		18.60	
UR4 9+71.88 TO 11+65.19	1423.06			
U 17+67.62 TO 20+71.68	259.92		45.53	
U 20+32.73 TO 22+83.00		593.52		
FROM PLACE AC DIKE	3.03			
FROM PLACE AC (MISC AREA)	183.34			
TOTAL		3943.67	593.52	64.13

SUMMARY OF QUANTITIES



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	58	103

James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER

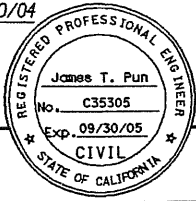
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EAST PALO ALTO, CA 94303

CCS PLANNING & ENGINEERING, INC.
6 CROW CANYON COURT
SAN RAMON, CALIFORNIA 94583-1612



REVISSED BY DATE 11/02
 CHECKED BY JTP 11/02
 DESIGN OVERSIGHT MICHAEL REYES
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA - Caltrans

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 MICHAEL REYES
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 JTP 11/02
 DATE REVISIONS



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	59	103

REGISTERED CIVIL ENGINEER
 James T. Pun
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 4/30/04

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METAL BEAM GUARD RAILING

SHEET No.	STATION	LOCATION	REMOVE MBGR
			m
L-3	UR2A 11+36.12 TO 11+56.14	R+	20
TOTAL			20

TEMPORARY TRAFFIC SCREEN

SHEET No.	STATION	LENGTH
		m
TH-8/9	U 18+83 TO 20+44	161
TOTAL		161

REMOVE TRAFFIC STRIPE, PAVEMENT MARKING & PAVEMENT MARKER

SHEET No.	STATION	REMOVE TRAFFIC STRIPE	REMOVE YELLOW TRAFFIC STRIPE	REMOVE PAVEMENT MARKING	REMOVE PAVEMENT MARKER
		THERMOPLASTIC	THERMOPLASTIC	THERMOPLASTIC	EA
		m	m	m ²	EA
TH-3/7	D3 74+88 TO 84+58	752	700	0	1124
TH-3/7	UR2A 8+00 TO 13+93	534	228	65.94	220
TH-3/9	U 17+60 TO 22+85	143	0	2.25	138
TOTAL		1429	928	68.19	1482

TEMPORARY FENCE

SHEET No.	STATION	LENGTH
		m
TH-5	D3 75+22 TO 76+99	183
WPC-2	U 17+802 TO 20+50	322
TOTAL		505

TEMPORARY RAILING & TERMINAL SECTION (TYPE K)

SHEET No.	STATION	LOCATION	TEMPORARY RAILING	TEMPORARY TERMINAL SECTION
			m	EA
TH-3/4	D3 82+40 TO 84+00	R+	109.8	1
TH-4	D3 83+00 TO 84+30	L+	109.8	1
TH-3/4	D3 82+80 TO 83+36.5 (NB LOOP ON-RAMP)	L+	67.1	
TH-3/4	UR2A 10+10 TO 11+63	R+	158.6	
TH-3/4	U 18+29 TO 20+61	R+	231.8	
TH-5	D3 75+22 TO 76+99 (WEST BAYSHORE RD)	R+	183.0	
TH-5	D3 74+36 TO 78+43	R+	408.7	
TH-6/7	D3 82+75 TO 83+45	R+	67.1	1
TH-7	D3 83+30 TO 84+00	L+	67.1	1
TH-6/7	UR2A 9+18 TO 10+74	R+	158.6	
TH-7	UR2A 10+81 TO 11+58	L+	158.6	
TH-6/7	D3 82+80 TO 83+23 (NB LOOP ON-RAMP)	L+	48.8	1
TH-7	D3 83+07 TO 83+72	L+	67.1	
TH-7	D3 83+07 TO 83+54	L+	42.7	
TH-8	NB LOOP OFF-RAMP TO U 17+72	R+	61.0	
TH-8/9	U 17+94 TO 20+52	R+	512.4	
TOTAL			2452.2	5

TEMPORARY PAVEMENT DELINEATION

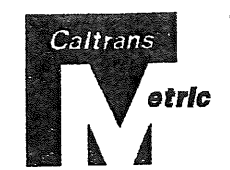
SHEET No.	STATION	LOCATION	DETAIL No.	TRAFFIC STRIPE (PAINT)	PAVEMENT MARKER	CHANNELIZER	TRAFFIC STRIPE (TAPE)
				m	EA	EA	m
TH-3/4	D3 81+92 TO 84+58	L+ & R+	13		516	14	
TH-3/4	D3 81+92 TO 84+58	L+ & R+	25		36		502
TH-3/4	D3 82+42 TO 83+42	L+	25A		14	5	100
TH-3/4	UR2A 10+08 TO 11+00	R+	10		45	5	
TH-3/4	U 18+29 TO 20+63	R+	10		112	6	
TH-4	D3 83+11 TO 83+22	L+	38		2		11
TH-4	D3 83+22 TO 83+42	L+	27B				20
TH-4	UR2A 11+00 TO 11+95	R+	37		11		19
TH-5	D3 76+19 TO 77+17	R+	1	98		6	
TH-5	D3 73+88 TO 79+21	R+	13		504	6	
TH-5	D3 73+88 TO 78+79	R+	27B				491
TH-5	D3 78+36 TO 78+79	R+	14		48		
TH-6/7	D3 82+49 TO 83+00	R+				6	
TH-6/7	D3 82+82 TO 84+26	L+	13		90	13	
TH-6/7	D3 82+82 TO 83+66	L+	25		6		84
TH-6/7	D3 82+82 TO 83+66	L+	27B				84
TH-6/7	UR2A 10+45 TO 11+11	L+				12	
TH-6/7	UR2A 8+83 TO 10+74	R+	10		74	6	
TH-6/7	UR2A 9+18 TO 10+74	R+	25A		22		156
TH-7	UR2A 10+87 TO 11+58	L+	27B				71
TH-8	NB LOOP OFF-RAMP TO U 17+94	R+				15	
TH-8/9	U 18+65 TO 20+85	R+	10		76		
TH-8/9	U 18+65 TO 20+62	R+	25A	197	27		
TH-9	U 20+52 TO 20+85	R+	27B	33			
TH-8	U 17+72 TO 17+85	R+	38	15	3		
TOTAL				343	1586	94	1538

TRAFFIC HANDLING DEVICES

STAGE	FLASHING BEACON (PORTABLE)	TYPE III BARRICADE	TEMPORARY CRASH CUSHION MODULE	PORTABLE CHANGEABLE MESSAGE SIGN
	EA	EA	EA	EA
STAGE 1	5	0	33	
STAGE 2	7	5	46	
STAGE 3 PHASE A	1	5	11	
TOTAL	13	10	90	2

SUMMARY OF QUANTITIES

EROSION CONTROL



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	60	103

STATION	LOCATION	EROSION CONTROL (TYPE D)							FIBER ROLL
		AREA	STRAW	FIBER	COMPOST	PURE LIVE SEED		STABILIZING EMULSION	
						LEGUME SEED	NON-LEGUME SEED		
HECTARE	TONNE	KG	KG	KG	KG	KG	m		
U 17+60 TO 19+20	R+	0.15	0.62	99.03	290.89	2.79	4.64	21.66	290
UR2A 11+80 TO 14+00	R+								
TOTAL		0.15	0.62	99.03	290.89	7.43		21.66	290

James T. Pun 4/30/04
 REGISTERED CIVIL ENGINEER
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

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IRRIGATION CROSSOVERS

STATION	CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT				25 mm WATER LINE CROSSOVER (N)	40 mm WATER LINE CROSSOVER (N)	25 mm SPRINKLER CONTROL CROSSOVER (N)
	SIDE		m				
	L+	R+	200 mm	50 mm			
UR4 11+54	2.3	13.0	15.3		X		X
U 20+48	15.6	24.4	40.0			X	
UR2A 13+15		6.0		6.0	X		
UR2A 13+30		6.0		6.0	X		
TOTAL			55.3	12.0			

EXTEND IRRIGATION CROSSOVERS

STATION	SIDE		EXTEND CONDUIT 200 mm (m)	WATER LINE CROSSOVER (N) (mm)	SPRINKLER CONTROL CROSSOVER (N) (mm)
	L+	R+			
	m				
UR2A 12+93.37		X	3.6	75	50
UR2A 13+49.74		X	3.6	75	50
TOTAL			7.2		

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(N)= Not a separate pay item, for information only.
 X - Denotes requirements

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PAVEMENT DELINEATION QUANTITIES

SHEET NO.	STATION	LOCATION	DETAIL	PAVEMENT MARKERS					THERMOPLASTIC TRAFFIC STRIPE					THERMOPLASTIC PAVEMENT MARKINGS (m ²)	DELINEATORS PAVEMENT (EA)	OBJECT MARKERS (EA)
				RETROREFLECTIVE				NON REFLECTIVE (EA)	100 mm (m)	200 mm (m)	200 mm BROKEN					
				TYPE D (EA)	TYPE C (EA)	TYPE G (EA)	TYPE H (EA)				(3.66-0.92) (m)	(5.18-2.14) (m)	(1.83-0.3) (m)			
PD-1	D3 76+03 TO 78+43	R+	F													
PD-1	D3 73+88 TO 78+79	R+	27B					491								
PD-1	D3 75+71 TO 78+81	R+	37		68					310						
PD-1	D3 73+88 TO 78+37	R+	13			93										
PD-1	D3 78+81 TO 79+21	R+	13			9										
PD-1	D3 78+37 TO 78+81	R+	14		12											
PD-1	D3 78+81 TO 79+25	R+	38B			14			44							
PD-1	D3 76+19 TO 77+17	R+	1								98					
PD-2	UR4 9+82 TO 10+42	R+	F												2	
L-2	UR4 10+70	R+	R													1
PD-2	UR4 10+06	R+	SIGNAL AHEAD SYMBOL										5.85			
PD-2	UR4 10+54	R+	TYPE V ARROW										3.06			
PD-2	U 17+72	R+	CROSSWALK										3.75			
PD-2/3	UR4 9+72 TO 11+69	R+	27B					197								
PD-2/3	UR2A 10+54 TO 11+63	R+	27B					110								
PD-2/3	U 17+72 TO 20+41	R+	27B					269								
PD-2/3	U 17+60 TO 20+41	R+	10			20										
PD-2	UR2A 9+72 TO 10+54	R+	36			23			166							
PD-2	U 17+71 TO 17+87	R+	38			3			19							
PD-2	UR2A 8+00 TO 9+72	R+	37		38						173					
PD-2/3	UR2A 9+18 TO 11+11	R+	25A				27	193								
PD-2/3	UR4 10+54 TO 11+61	R+	25A				15	108								
PD-2/3	U 17+60 TO 20+51	R+	25A				40	291								
PD-2/3	D3 82+42 TO 83+42	L+	25A				14	100								
PD-2/3	D3 81+92 TO 84+58	R+	25				19	266								
PD-2/3	D3 82+22 TO 84+58	L+	25				17	236								
PD-2/3	D3 81+92 TO 84+58	R+	13			55			220							
PD-2/3	D3 82+22 TO 84+58	R+	13			49			192							
PD-3	UR4 11+01 TO 11+61	R+	F & G												5	
PD-3	UR4 11+61	R+	K-1													1
L-3	UR2A 11+20	R+	R													1
PD-3	UR4 11+19	R+	TYPE III (R) ARROW										7.80			
PD-3	UR4 11+53	R+	TYPE III (R) ARROW										7.80			
SHEET TOTAL				0	118	266	132	963	2261	229	483	98	0	28.26	12	3

SUMMARY OF QUANTITIES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 MICHAEL REYES
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE 1/02
 REVISOR 1/02
 DATE 3/04
 REVISOR 3/04

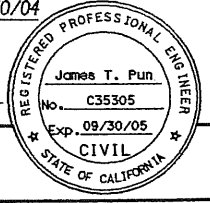
TEMPORARY EROSION CONTROL

STATION	LOCATION	TEMPORARY EROSION CONTROL	DRAINAGE INLET PROTECTION	SILT FENCE	TEMPORARY CONCRETE WASHOUT FACILITY	TEMPORARY CONSTRUCTION ENTRANCE
		m ²	EA	m	EA	EA
U 17+80 TO 20+50	R+	1032	3	127		
UR2A 9+70 TO UR4 11+60	L+ & R+	113	10			
D3 78+70 TO 79+00	R+		3			
UR2A 12+00 TO 12+20	L+ & R+		2			
VARIOUS					2	3
TOTAL		1146	18	127	2	3



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	61	103

James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER



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PAVEMENT DELINEATION QUANTITIES

SHEET NO.	STATION	LOCATION	DETAIL	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE					THERMOPLASTIC PAVEMENT MARKING	DELINEATOR (CLASS 1)	OBJECT MARKER	
				RETROREFLECTIVE				NON REFLECTIVE	100 mm	200 mm	200 mm BROKEN		100 mm BROKEN				
				TYPE D	TYPE C	TYPE G	TYPE H				(3.66-0.92)	(5.18-2.14)	(1.83-0.3)				
													EA				EA
PD-3	UR2A 10+98	R+	TYPE V ARROW										6.12				
PD-3	UR2A 12+75	R+	SIGNAL AHEAD SYMBOL										11.70				
PD-3	UR2A 13+14	R+	TYPE III (R) ARROW										7.80				
PD-3	UR2A 13+50	R+	TYPE III (R) ARROW										7.80				
PD-3	UR2A 13+84	R+	TYPE III (R) ARROW										7.80				
PD-3	U 20+84	R+	TYPE III (L) ARROW										7.80				
PD-3	U 21+13	R+	TYPE III (L) ARROW										7.80				
PD-3	U 21+39	R+	TYPE III (L) ARROW										7.80				
PD-3	U 22+17	R+	TYPE III (L&R) ARROW										7.80				
PD-3	U 22+45	R+	TYPE III (L&R) ARROW										7.80				
PD-3	U 22+75	R+	TYPE III (L&R) ARROW										7.80				
PD-3	U 22+83	L+	TYPE III (R) ARROW										3.90				
PD-3	U 22+35	L+	TYPE III (R) ARROW										7.80				
PD-3	U 21+98	L+	TYPE III (R) ARROW										7.80				
PD-3	UR2A 12+50	R+	TYPE III (R) ARROW										7.80				
PD-3	UR4 11+61	R+	CROSSWALK										10.80				
PD-3	U 21+49	R+	STOP BAR										4.32				
PD-3	UR2A 13+93	R+	STOP BAR										5.25				
PD-3	U 22+83	R+	STOP BAR										5.55				
PD-3	U 21+87	L+	STOP BAR										5.10				
PD-3	U 20+41	R+	STOP BAR										3.00				
PD-3	UR2A 12+75 TO 13+93	R+	WHITE DIAGONAL STRIPE										23.28				
PD-3	UR2A 13+72 TO 13+93	R+	YELLOW DIAGONAL STRIPE										3.00				
PD-3	U 20+87 TO 21+49	R+	22					18			126						
PD-3	UR2A 13+85 TO 13+95	R+	29					8			100						
PD-3	U 20+60 TO 21+49	R+	27B								87						
PD-3	U 21+87 TO 22+85	R+	27B								95						
PD-3	U 21+87 TO 22+85	L+	27B								96						
PD-3	UR2A 12+59 TO 13+93	R+	27B								111						
PD-3	D3 82+83 TO 83+66	L+	27B								83						
PD-3	D3 83+04 TO 83+94	L+	27B								90						
PD-3	U 20+41 TO 20+72	R+	40										28				
PD-3	UR4 11+69 TO U 20+72	R+	40										19				
PD-3	UR2A 13+93 TO U 21+36	R+	40										23				
PD-3	U 21+49 TO UR2A 13+80	R+	40										46				
PD-3	U 21+87 TO UR2A 13+82	L+	40										22				
PD-3	U 20+72 TO 21+49	R+	10														
PD-3	U 20+52 TO 21+36	L+	10														
PD-3	U 21+87 TO 22+83	R+ & L+	10														
PD-3	D3 83+17 TO 83+22	L+	38														
SHEET TOTAL				26	0	28	0	145	788	6	0	0	138	175.62	0	0	

SUMMARY OF QUANTITIES



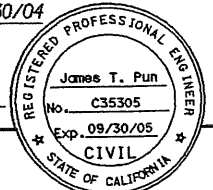
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 SAN RAMON, CALIFORNIA 94583-1612

RECONSTRUCT CHAIN LINK FENCE

SHEET No.	STATION	TYPE CL-1.8 25 mm X 25 mm MESH
		m
L-3	U 22+00 TO UR2A 13+38	90
TOTAL		90

PAVEMENT DELINEATION QUANTITIES

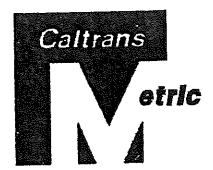
SHEET NO.	STATION	LOCATION	DETAIL	PAVEMENT MARKER					THERMOPLASTIC TRAFFIC STRIPE					THERMOPLASTIC PAVEMENT MARKING m ²	DELINEATOR (CLASS 1) EA	OBJECT MARKER EA	
				RETROREFLECTIVE				NON REFLECTIVE EA	100 mm m	200 mm m	200 mm BROKEN		100 mm BROKEN				
				TYPE D	TYPE C	TYPE G	TYPE H				(3.66-0.92)	(5.18-2.14)	(1.83-0.3)				
				EA	EA	EA	EA				m	m	m				m
PD-3	U 20+84 TO 21+49	R+	38			18					130						
PD-3	U 22+14 TO 22+85	R+	38			10					69						
PD-3	U 22+17 TO 22+83	R+	38			10					66						
PD-3	U 21+87 TO 22+35	L+	38			14					100						
PD-3	U 21+87 TO 21+94	L+	38			2					9						
PD-3	UR2A 13+72 TO 13+93	R+	38			3					19						
PD-3	U 22+35 TO 22+83	L+	37B			12					48						
PD-3	U 21+87 TO 22+14	R+	37B			6					27						
PD-3	U 20+51 TO 20+87	R+	25A				6		37								
PD-3	U 20+51 TO 20+87	L+	25A				5		36								
PD-3	UR2A 13+72 TO 13+93	R+	25A				3		21								
PD-3	UR2A 13+72 TO 13+85	R+	25A				2		14								
PD-3	UR2A 13+78 TO 13+85	L+	25A				2		8								
PD-3	UR2A 10+97 TO 12+50	R+	9			4						46					
PD-3	UR4 11+19 TO 11+65	R+	9			11						153					
SHEET TOTAL				0	0	90	18	0	116	393	75	199	0	0	0	0	
TOTAL				26	118	384	150	1108	3165	628	558	297	138	203.88	12	3	

DATE REVISIONS	DATE REVISIONS
4/02	4/02
IVS	JTP
CALCULATED/DESIGNED BY	CHECKED BY
JERILYN STRUVEN	JTP

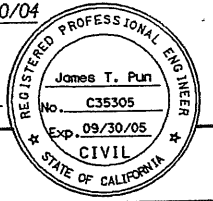
DESIGN OVERSIGHT
JERILYN STRUVEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	63	103



James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER



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SAN RAMON, CALIFORNIA 94583-1612

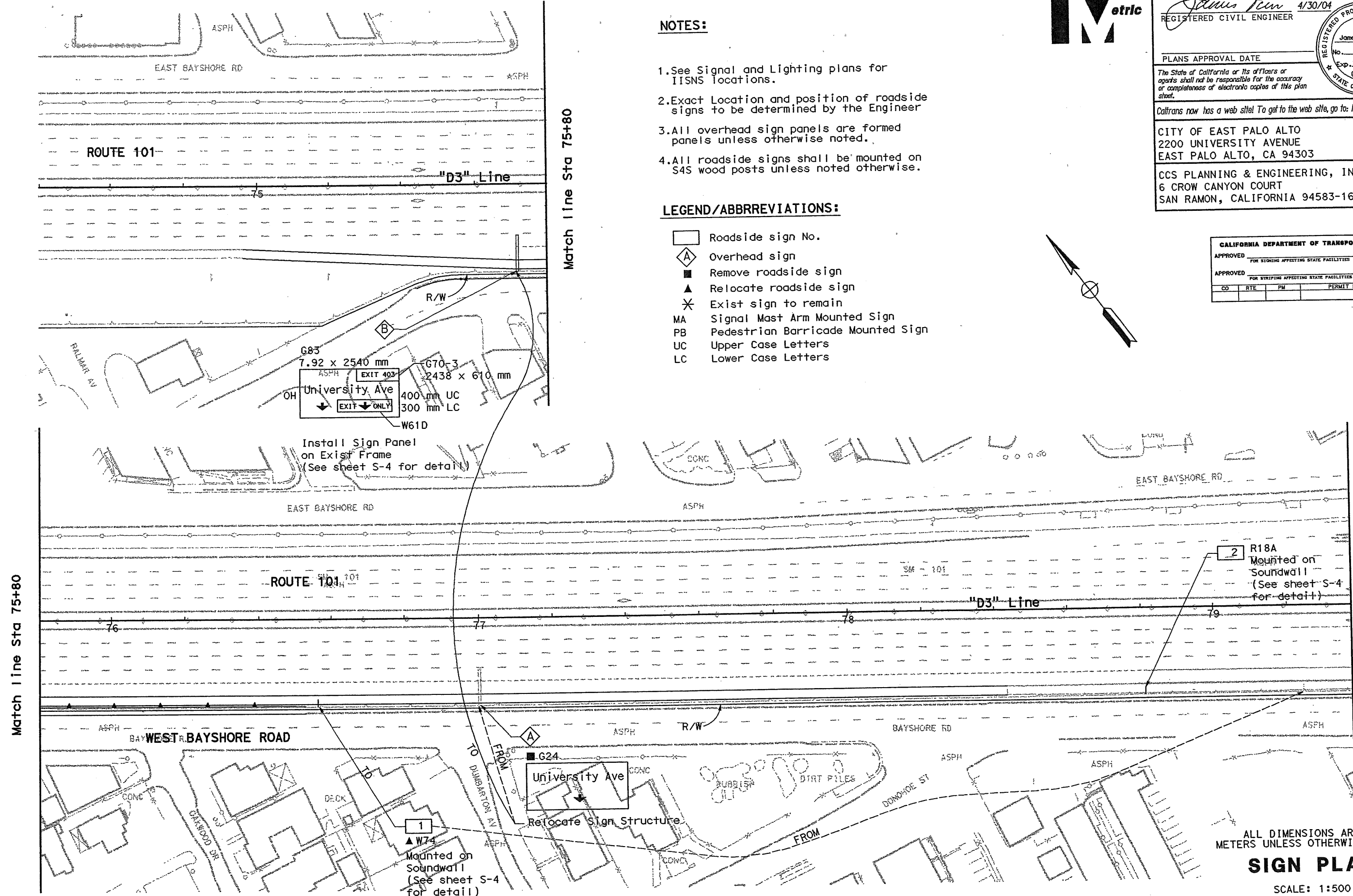
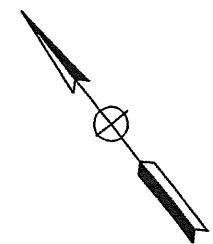
CALIFORNIA DEPARTMENT OF TRANSPORTATION				
APPROVED	FOR SIGNING AFFECTING STATE FACILITIES			DATE
APPROVED	FOR STRIPING AFFECTING STATE FACILITIES			DATE
CO	RTE	PM	PERMIT No	

NOTES:

1. See Signal and Lighting plans for IISNS locations.
2. Exact Location and position of roadside signs to be determined by the Engineer
3. All overhead sign panels are formed panels unless otherwise noted.
4. All roadside signs shall be mounted on S4S wood posts unless noted otherwise.

LEGEND/ABBREVIATIONS:

- Roadside sign No.
- ◇ Overhead sign
- Remove roadside sign
- ▲ Relocate roadside sign
- ✱ Exist sign to remain
- MA Signal Mast Arm Mounted Sign
- PB Pedestrian Barricade Mounted Sign
- UC Upper Case Letters
- LC Lower Case Letters



Match line Sta 75+80

Match line Sta 75+80

See sheet S-2

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

SIGN PLAN

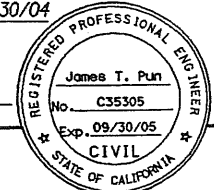
SCALE: 1:500

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	64	103

James T. Pun 4/30/04
REGISTERED CIVIL ENGINEER



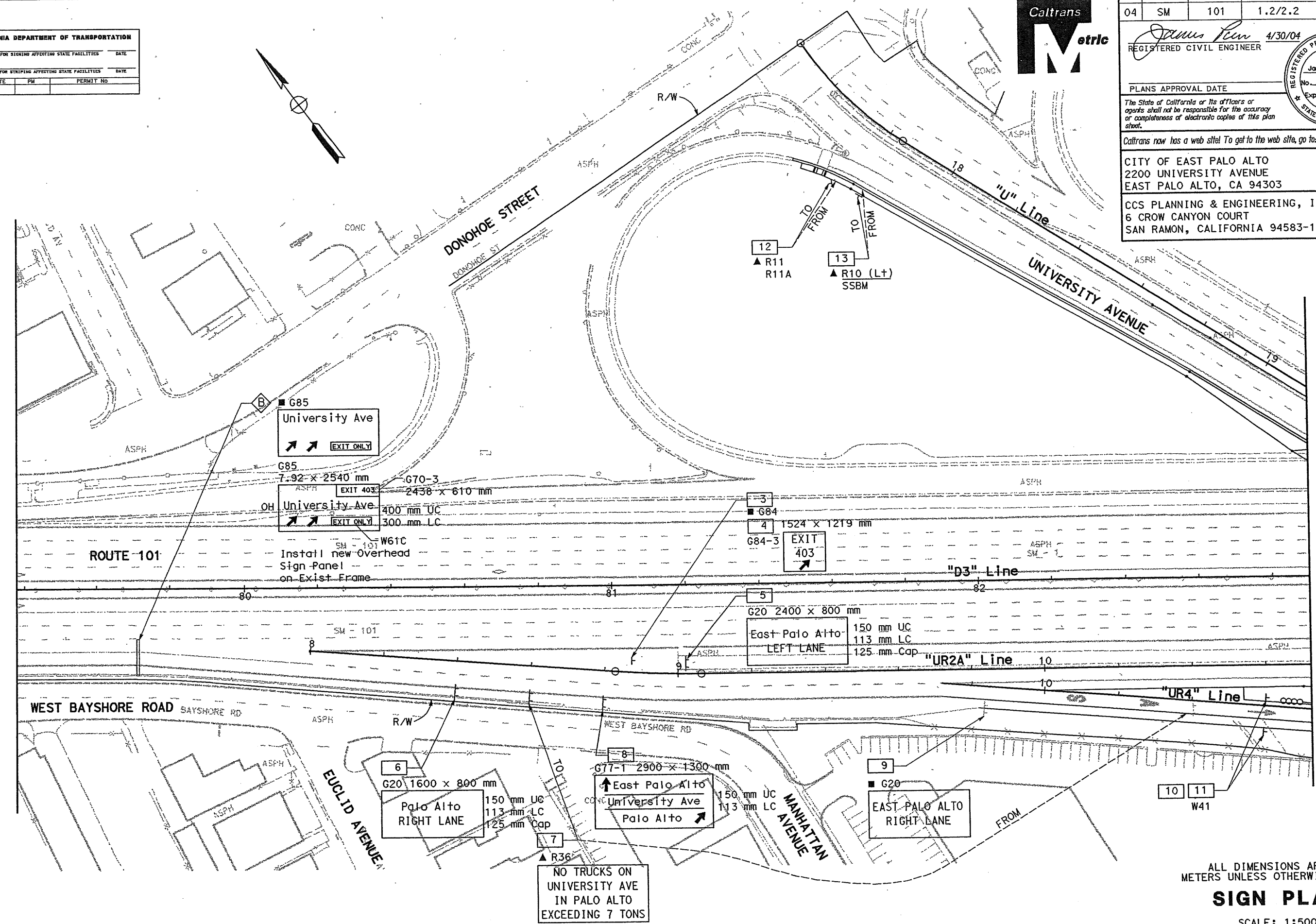
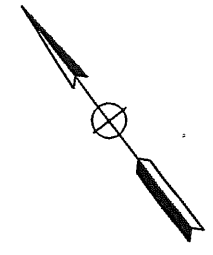
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See sheet S-1

See sheet S-3

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FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET S-1

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SIGN PLAN

SCALE: 1:500

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 REVISIONS:
 DATE 4/02 REVISOR IVS 4/02
 DATE 4/02 REVISOR JTP 4/02
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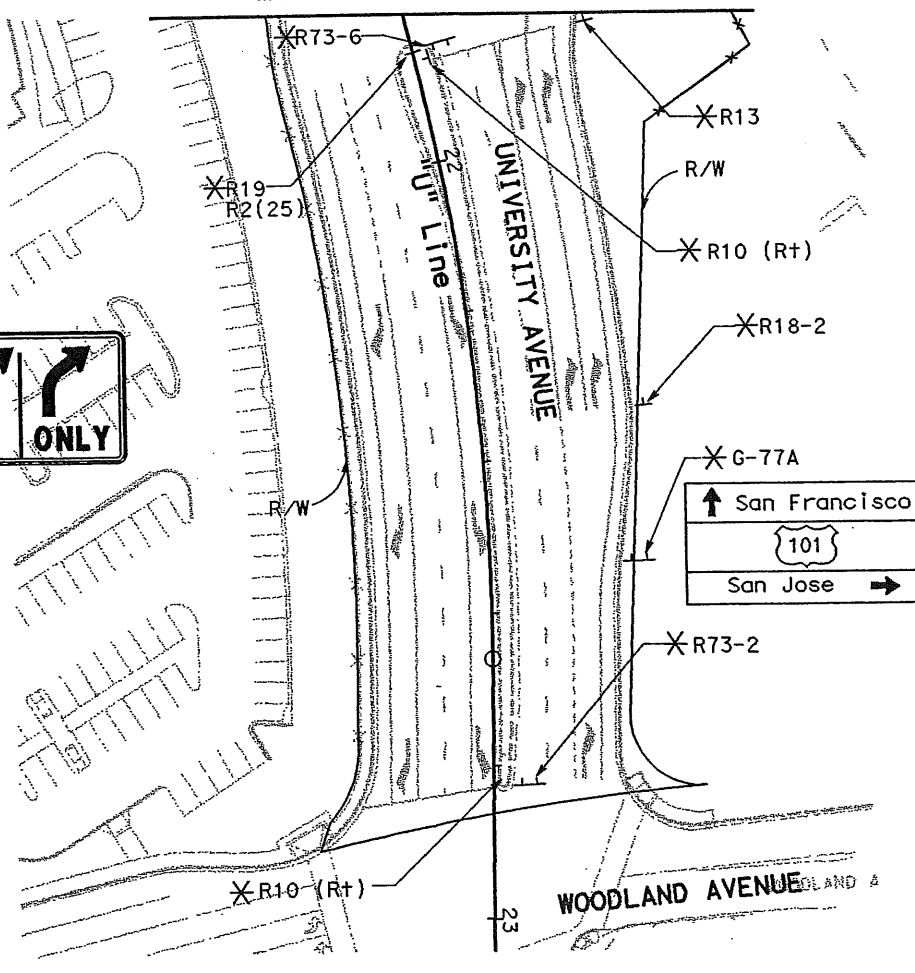
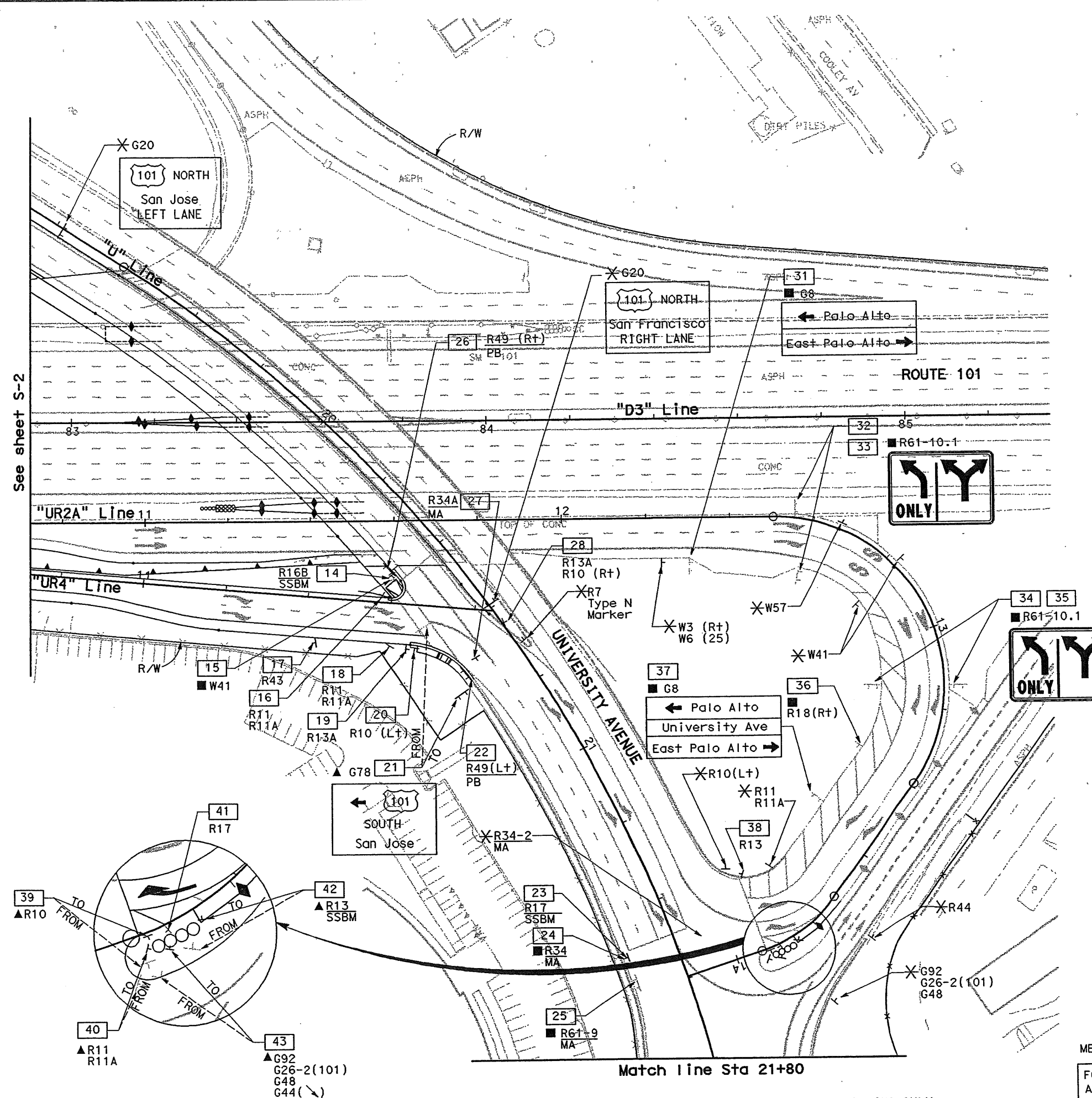
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	65	103

REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE SHEET S-1

SIGN PLAN

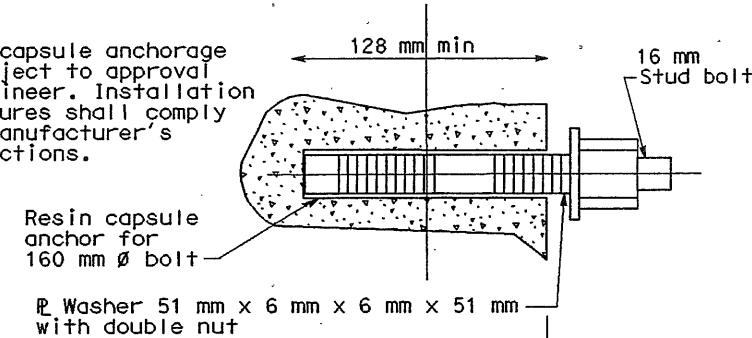
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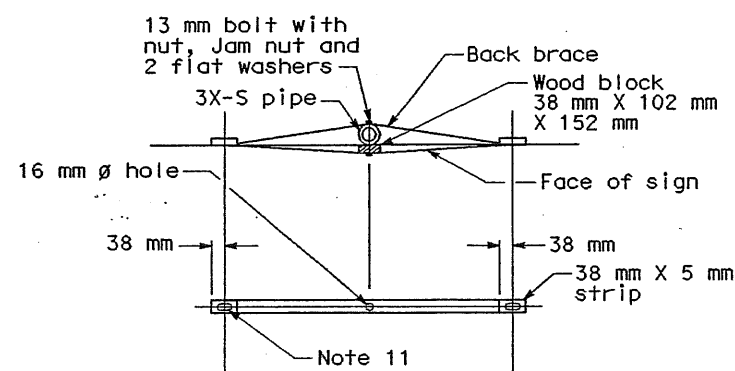
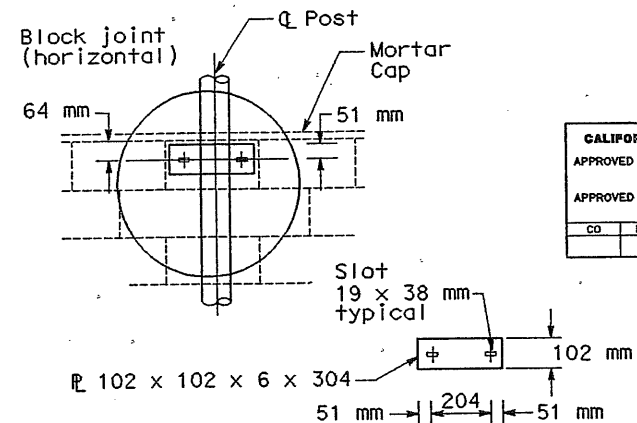
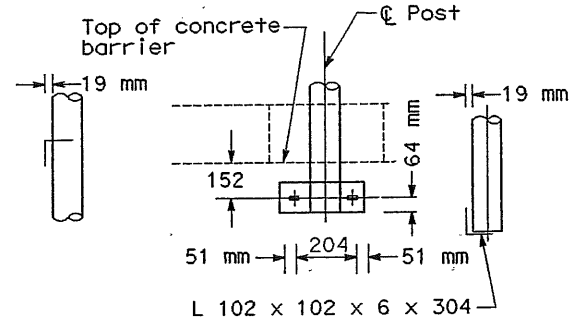
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 DESIGN OVERSIGHT
 JERILYN STRUYEN
 DATE REVISIONS
 1/02
 1/02
 DATE REVISIONS
 1/02
 1/02
 DATE REVISIONS
 1/02
 1/02

Notes:

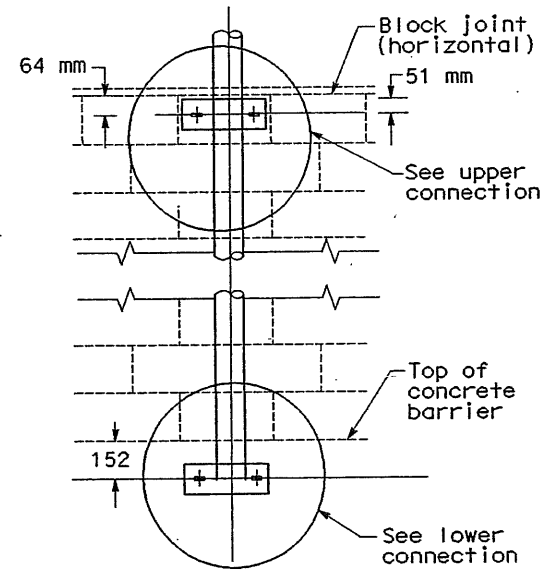
Resin capsule anchorage is subject to approval of engineer. Installation procedures shall comply with manufacturer's instructions.



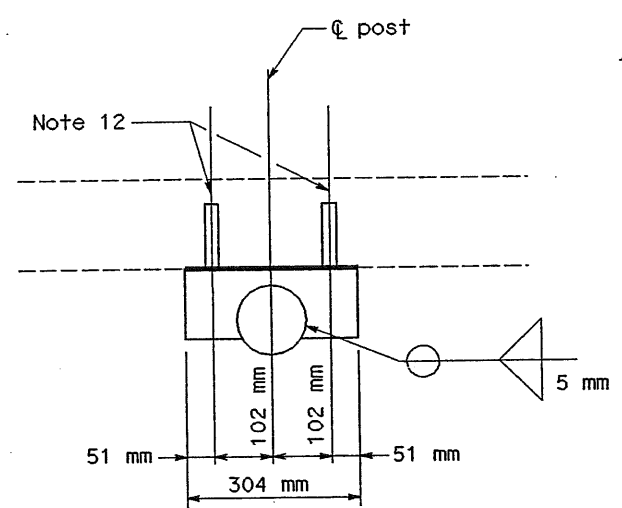
RESIN CAPSULE TYPE BOLT ANCHORAGE



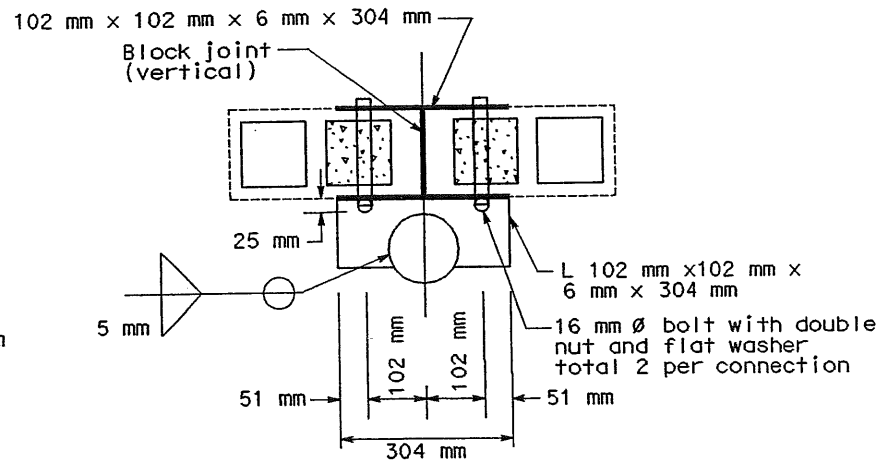
BACK BRACING DETAIL



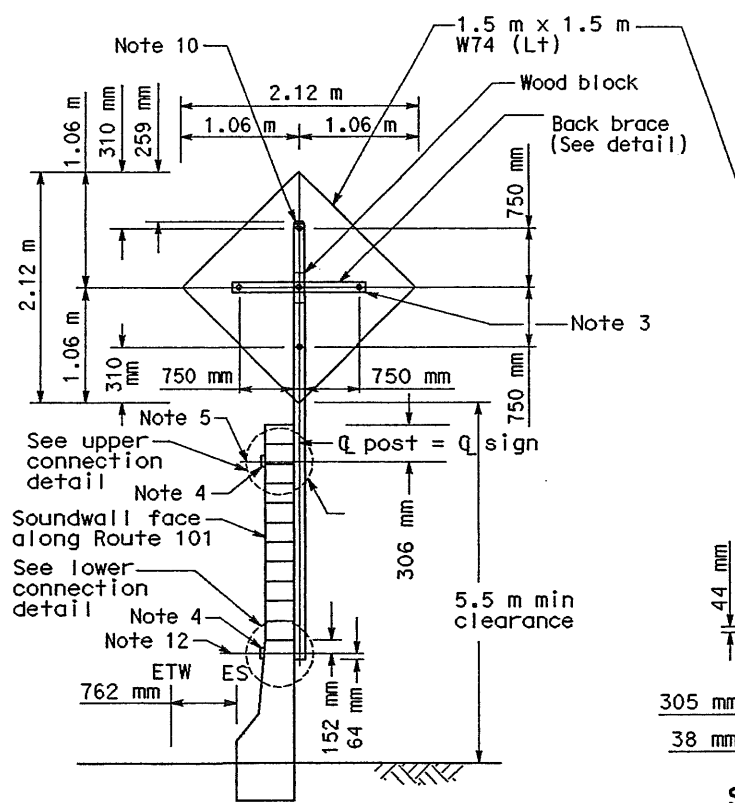
PART SIDE ELEVATION



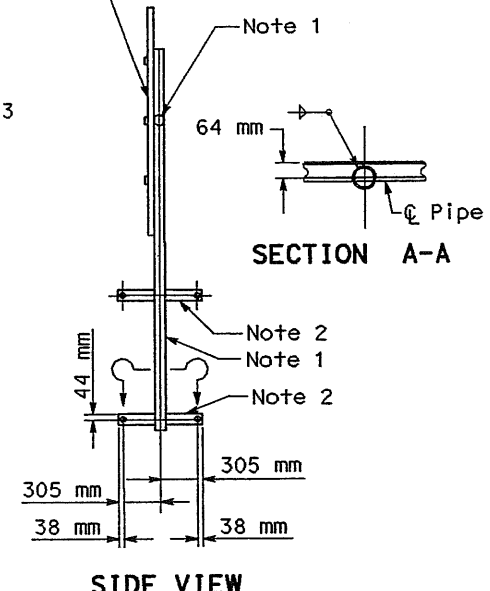
LOWER CONNECTION



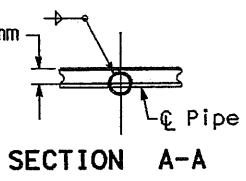
UPPER CONNECTION



FRONT VIEW



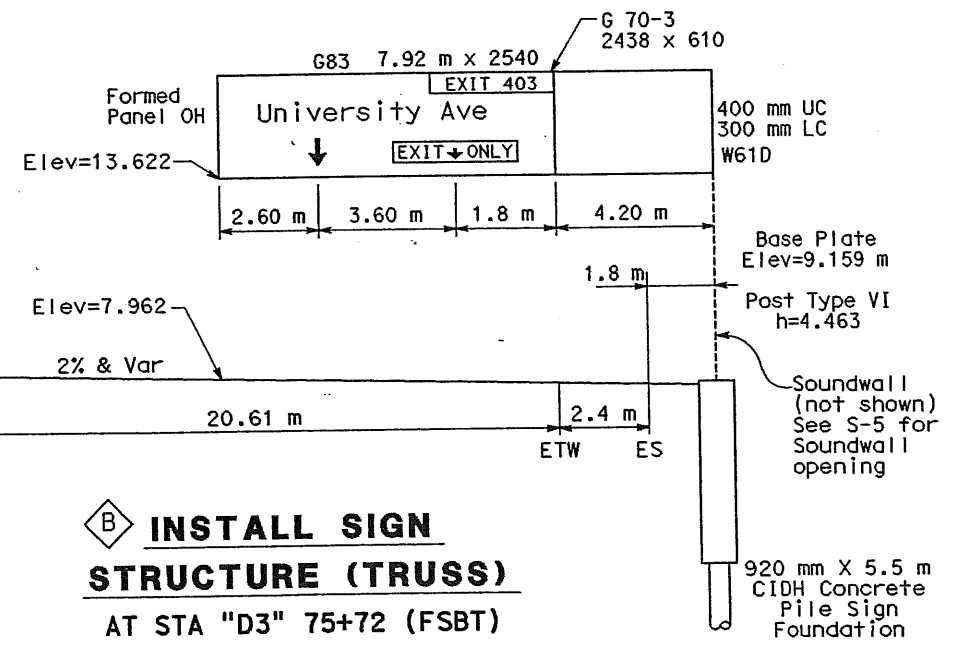
SIDE VIEW



SECTION A-A

Notes:

- 76 mm standard pipe at 7.58 m.
- ∟76 mm X 76 mm X 5 mm.
- All bolts 13 mm ∅ in 16 mm ∅ holes except as noted. Standard washer under nut is required.
- Plate washer 6 mm X 76 mm X 76 mm.
- ∅ 19 mm ∅ hole for 16 mm anchor bolts.
- For details not shown see standard plans.
- All steel to be galvanized after fabrication.
- Holes in concrete to be made with non-percussion type drill.
- Locate post 1.52 m or more from vertical expansion joint.
- Seal weld ∅ (3 mm Min) to top of post. ∅ shall be 3 mm Min.
- 16 mm X 44 mm slot for 13 mm ∅ bolt with nut, flat and lock washers.
- ∅ anchor bolt (see resin capsule type bolt anchorage detail).



INSTALL SIGN STRUCTURE (TRUSS) AT STA "D3" 75+72 (FSBT)

SIGN DETAILS

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		66	103

Caltrans
Metric
 REGISTERED CIVIL ENGINEER
 James T. Pun 4/30/04
 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	67	103

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 No. C35305
 Exp. 09/30/05
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE

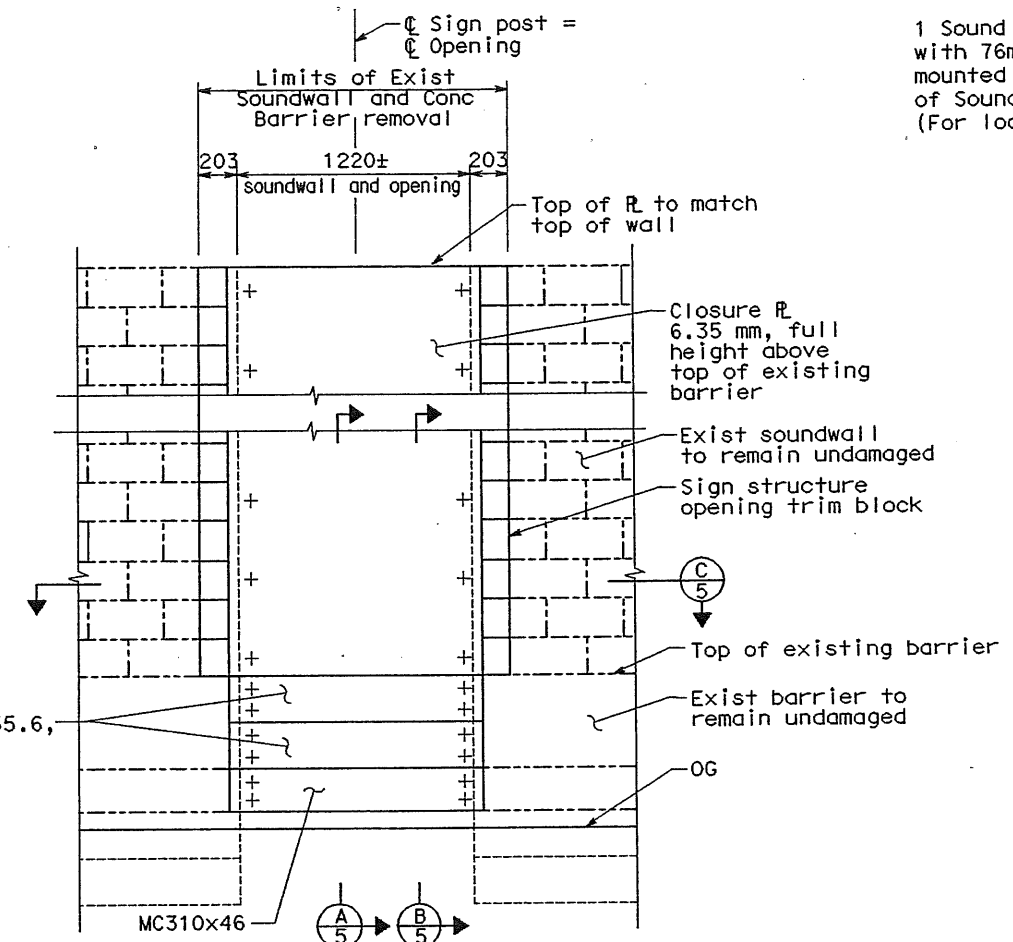
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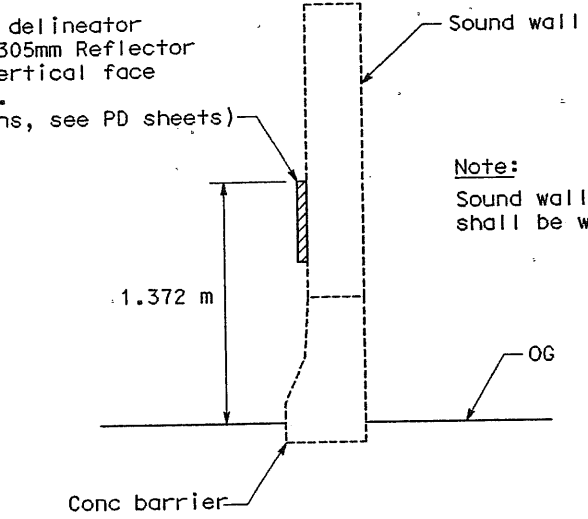
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SIGN STRUCTURE OPENING ELEVATION
 NO SCALE



SOUND WALL DELINEATOR SOUND WALL MOUNTING DETAIL
 NO SCALE

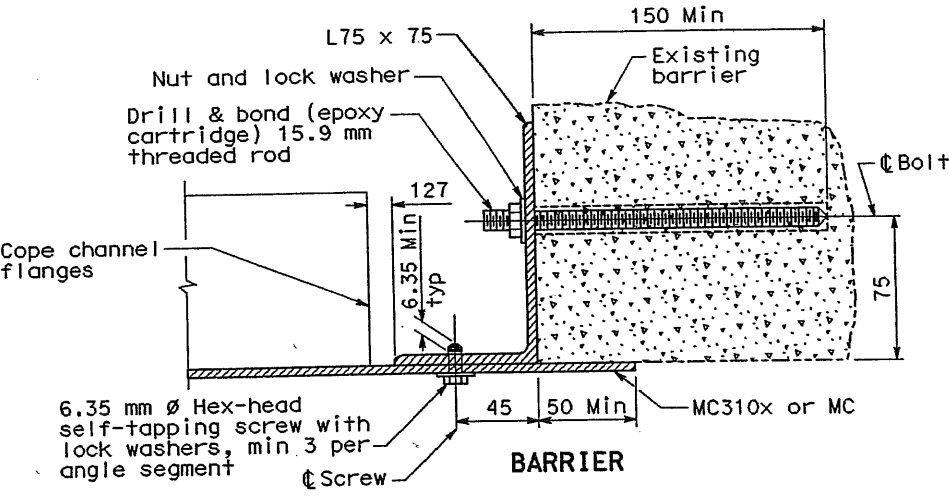
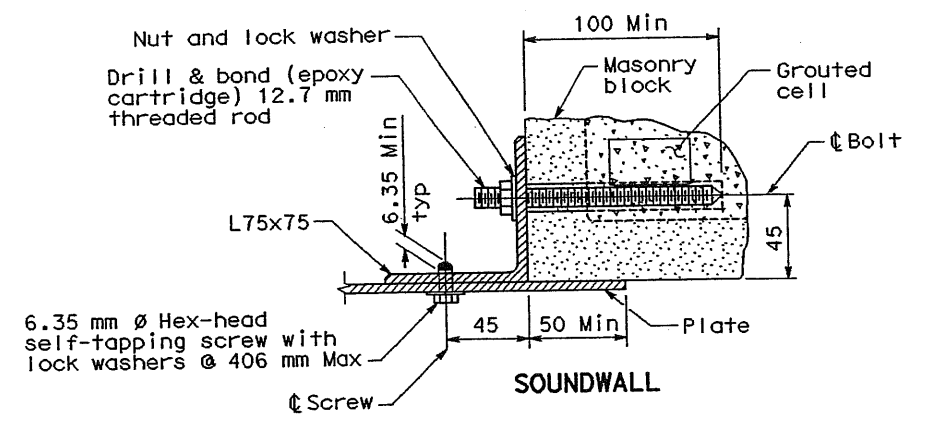
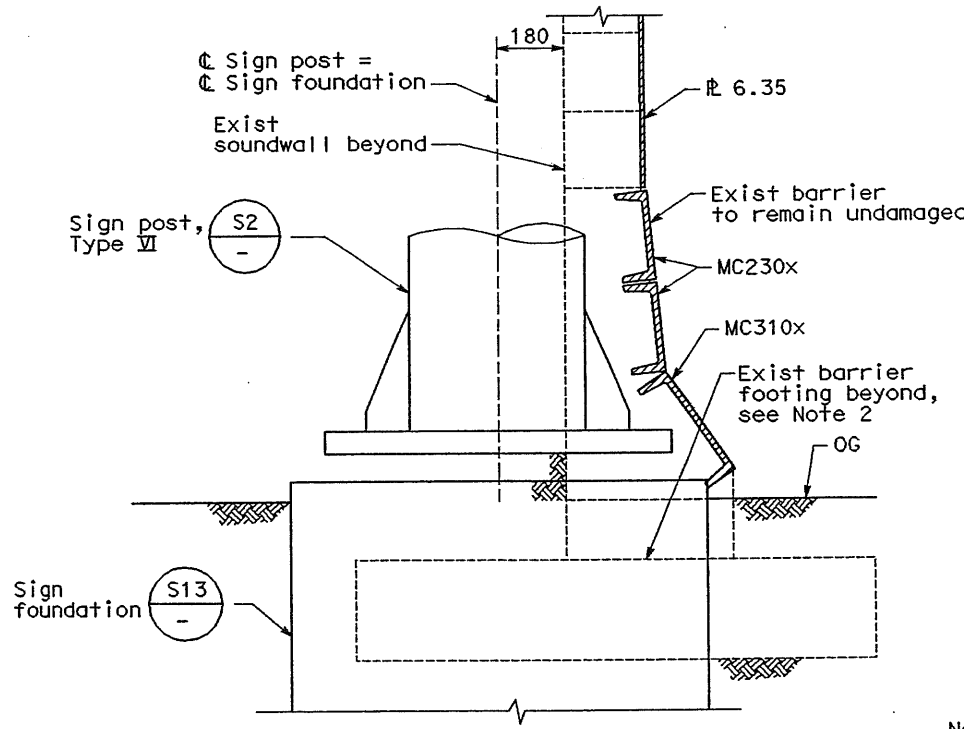
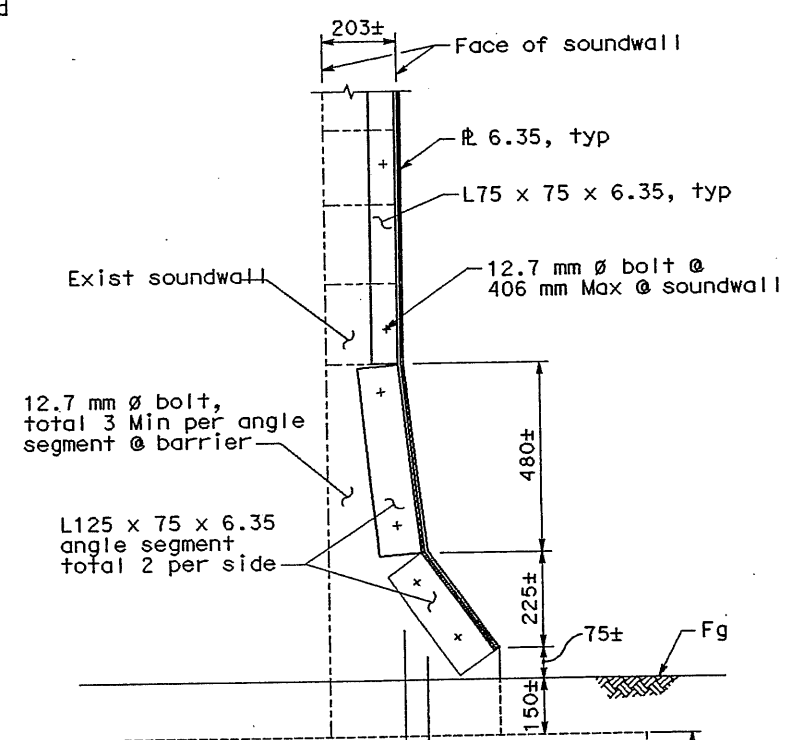


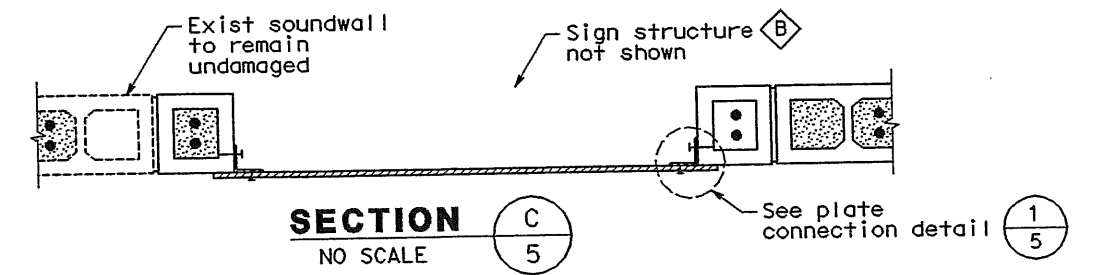
PLATE CONNECTION DETAIL
 NO SCALE



SECTION A
 NO SCALE



SECTION B
 NO SCALE



SECTION C
 NO SCALE

- Notes:
1. For sign structure location see sheets S-1 and S-4.
 2. Provide 25 mm min expanded polystyrene between sign structure foundation and existing barrier foundation.

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SIGN DETAILS
 NO SCALE

DESIGN OVERSIGHT
 JERILYN STRUVEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DATE	REVISOR	DATE	REVISOR
1/02	IVS	1/02	JTP
1/02	JTP	1/02	JTP

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OVERHEAD SIGNS QUANTITIES

SHEET NO.	SIGN NO.	LOCATION	INSTALL SIGN PANEL ON EXISTING FRAME	RELOCATE SIGN STRUCTURE	SALVAGE SIGN PANEL	POST TYPE	920 mm SIGN FOUNDATION	REMARKS
			m ²	EA	EA		m	
S-1	A	D3 77+00 (FSBT)		1	1	VI	5.5	Relocate Sign Structure to location B
S-1	B	D3 75+68 (FSBT)	20.12					
S-2	C	D3 79+72 (FSBT)	20.12		1			Salvage Exist Sign Panel
TOTAL			40.24	1	2		5.5	



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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	68	103

James Pun 4/30/04
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ROADSIDE SIGN QUANTITIES

SHEET NO.	SIGN NO.	SIGN CODE	PANEL SIZE (N)	POST SIZE AND LENGTH			INSTALL ROADSIDE SIGN		INSTALL SIGN SSBM	INSTALL SIGN (MAST-ARM HANGER METHOD)	RELOCATE ROADSIDE SIGN (WOOD POST)	RELOCATE ROADSIDE SIGN (SSBM)	REMOVE ROADSIDE SIGN (WOOD POST)	REMOVE ROADSIDE SIGN (ON MAST-ARM)	REMARKS
				89x89	89x140	140x140	1 POST	2 POST			EA	EA	EA	EA	
				mm	m	m	EA	EA			EA	EA	EA	EA	
S-1	1	W74								1				Mounted on Soundwall	
	2	R18A	1500 X 1500				1					1		Mounted on Soundwall	
	3	G84													
S-2	4	G84-3	1524 X 1219			4.8	1								
	5	G20	2400 X 800		4.3			1							
	6	G20	1600 X 800		4.3			1							
	7	R36								1					
	8	G77-1	2900 X 1300			4.8		1					1		
	9	G20													
	10	W41	1220 X 1220		3.8		1								
	11	W41	1220 X 1220		3.8		1								
	12	R11									1				
	13	R11A										1			On Light Pole
S-3	14	R10 (Lt)												On Signal Pole	
	15	R16B	762 X 914					1				1			
	16	W41													
	17	R11	914 X 914		3.9		1								
	18	R11A	914 X 533												
	19	R43	610 X 305	3.5			1								
	20	R11	914 X 914		3.9		1								
	21	R11A	914 X 533												
	22	R13A	762 X 1220		3.8		1								
	23	R10 (Lt)	1214 X 406	2.9			1								
	24	G78									1				Pedestrian Barricade
	25	R49 (Lt)													On Signal Pole
	26	R17	762 X 914						1						On Mast Arm
	27	R34											1		On Mast Arm
	28	R61-9													Pedestrian Barricade
29	R49 (Rt)													On Mast Arm	
30	R34A	610 X 762								1					
31	R13A	762 X 1220		3.9		1									
32	R10 (Rt)	1214 X 460												Not Used	
	Not Used													Not Used	
	Not Used													Not Used	
	G8											1			
	R61-10.1											1			
SHEET TOTAL							10	3	2	1	4	1	5	2	

NOTE:
 Post Lengths are approximate.
 Exact post lengths to be determined by the Engineer.

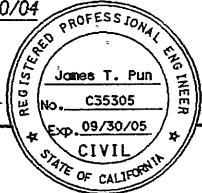


NOTE:
 Post Lengths are approximate.
 Exact post lengths to be determined by the Engineer.

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DO	RTE	PM	PERMIT No

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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James Pun 4/30/04
 REGISTERED CIVIL ENGINEER



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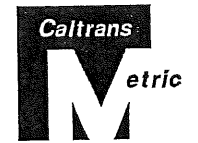
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ROADSIDE SIGN QUANTITIES

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				89x89	89x140	140x140	1 POST	2 POST							
				mm	m	m	m	EA							
S-3	33	R61-10.1											1		
	34	R61-10.1											1		
	35	R61-10.1											1		
	36	R18 (R+)											1		
	37	G8											1		
	38	R13	610 x 762		3.8		1								
	39	R10									1				
	40	R11									1				
		R11A													
	41	R17	762 x 914		3.8		1								
	42	R13										1			On Signal Pole
	43	G92									1				
G26-2 (101)															
G48															
	G44														
SHEET TOTAL							2	0	0	0	3	1	5	0	
TOTAL							12	3	2	1	7	2	10	2	



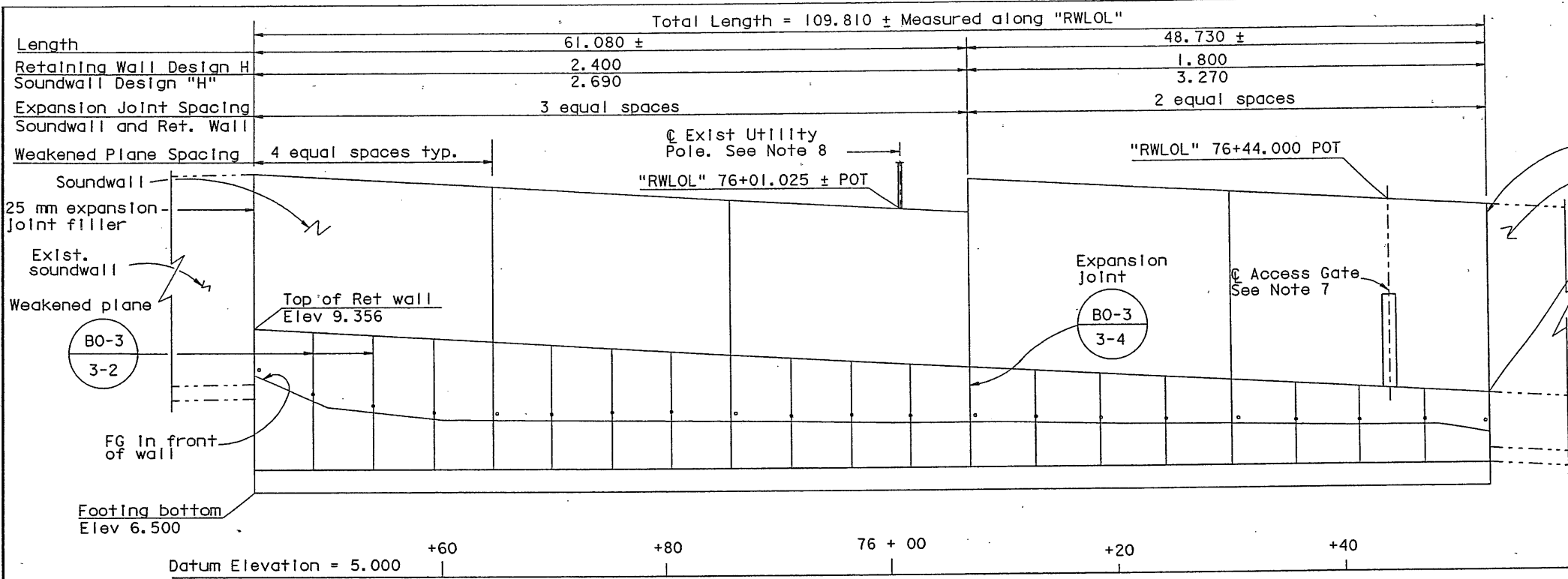
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101		70	103

Odeon M. LI
REGISTERED CIVIL ENGINEER
No. 31895
Exp. 12-31-04
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE
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City of East Palo Alto
2200 University Ave
East Palo Alto, CA 94303

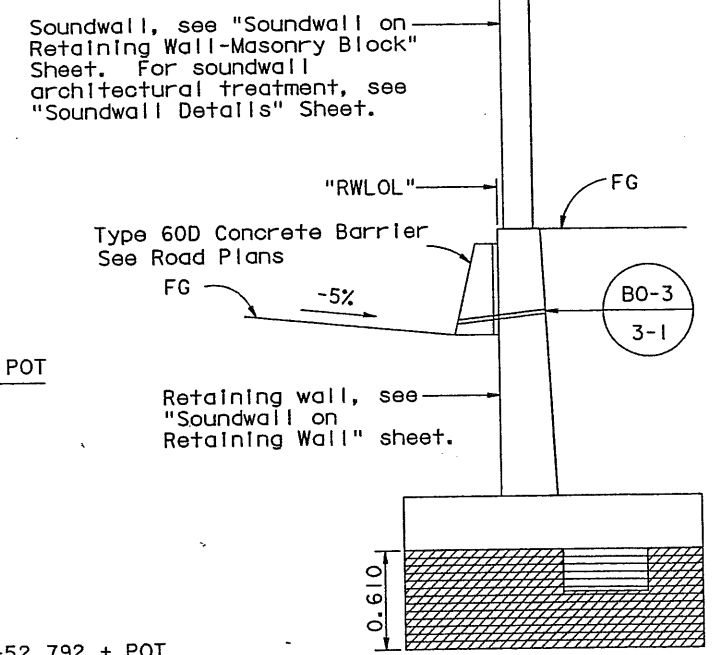
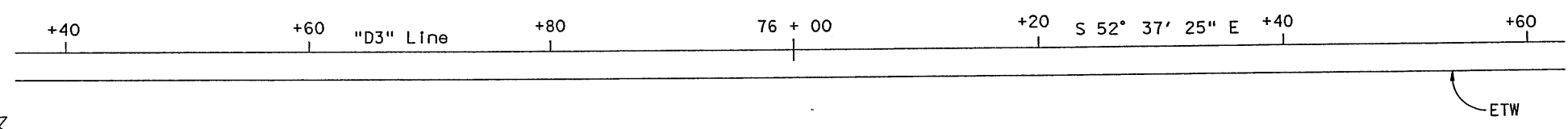
CCS Planning and Engineering, Inc.
6 Crow Canyon Court
San Ramon, CA 94583-1621



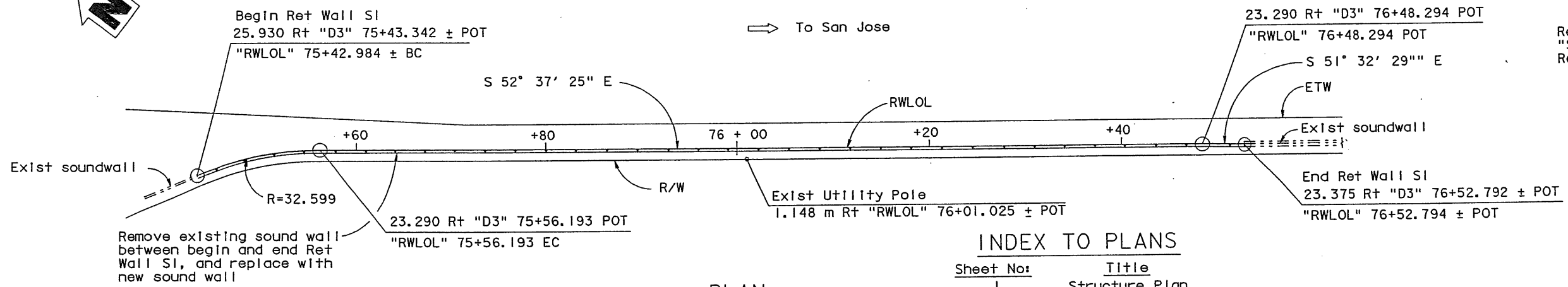
MIRROR ELEVATION
Horiz 1:250
Vert 1:50

Notes:

1. For top of wall elevation, interpolate linearly between beginning and end of wall.
2. Match exist top of barrier rail.
3. For Retaining Wall Design Notes, see "Soundwall on Retaining Wall" sheet.
4. For Soundwall Design Notes, see "Soundwall on Retaining Wall-Masonry Block" sheet.
5. For General Notes, see "Soundwall on Retaining Wall-Masonry Block" sheet.
6. Type 60D Concrete Barrier not shown for clarity.
7. For access gate, see "Access Gate - Soundwall Masonry Block on Footing or Pile Cap - Details No. 1" and "Details No. 2" Sheets.
8. For Quantities and Standard Plan List see "Miscellaneous Details" Sheet.



TYPICAL SECTION
No scale



INDEX TO PLANS

Sheet No:	Title
1	Structure Plan
2	Miscellaneous Details
3	Soundwall on Retaining Wall
4	Soundwall on Retaining Wall-Masonry Block-Details No. 1
5	Soundwall on Retaining Wall-Masonry Block-Details No. 2
6	Access Gate - Soundwall Masonry Block On Footing or Pile Cap - 1.524 m Gate - Details No. 1
7	Access Gate - Soundwall Masonry Block On Footing or Pile Cap - 1.524 m Gate - Details No. 2
8	Soundwall Details

Legend

- Denotes structure excavation in addition to that shown on A62B
- Denotes Class 3 Aggregate Base

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

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

"RWLOL"
R = 32.599
Δ = 23° 12' 58"
T = 6.696
L = 13.209

PLAN
1:250

DESIGN OVERSIGHT	DESIGN BY Eng Yeong	CHECKED Odeon M. LI	LOAD FACTOR DESIGN	BY Odeon M. LI	PROJECT ENGINEER	BRIDGE NO.	RETAINING WALL S1	
DETAILS	BY Eng Yeong	CHECKED Odeon M. LI	LAYOUT	BY Eng Yeong	PROJECT ENGINEER	KILOMETER POST		STRUCTURE PLAN
QUANTITIES	BY Eng Yeong	CHECKED Odeon M. LI	SPECIFICATIONS	BY Odeon M. LI	PROJECT ENGINEER	REVISION DATES (PRELIMINARY STAGE ONLY)		
SIGN OFF DATE						6/03/03	SHEET 1 OF 8	



CU 04245
EA 272821

DISREGARD PRINTS BEARING EARLIER REVISION DATES



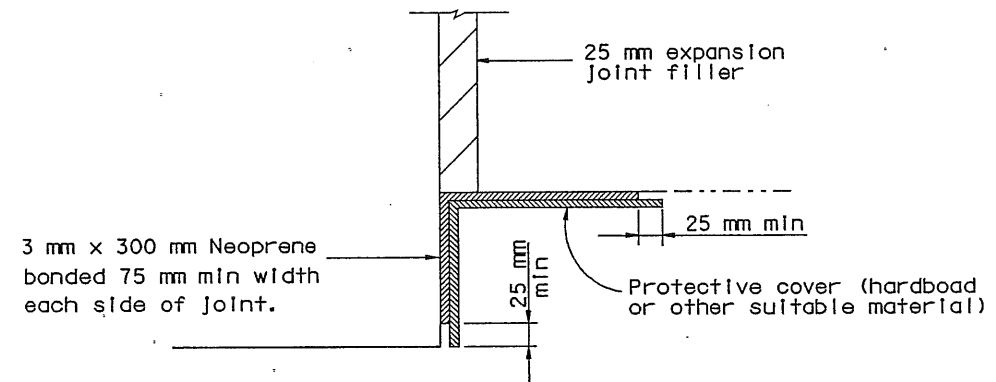
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04	SM	101		71	103

Odeon M. LI 12/15/03
 REGISTERED CIVIL ENGINEER
 Odeon M. LI
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

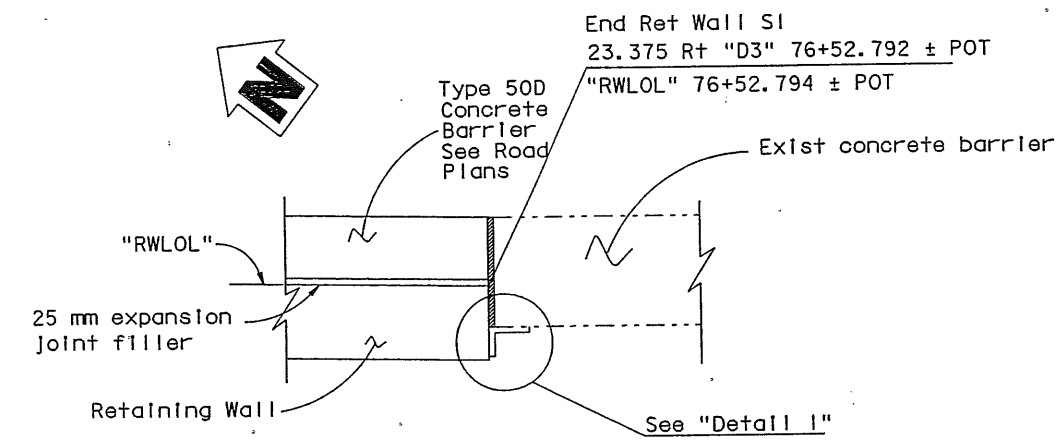
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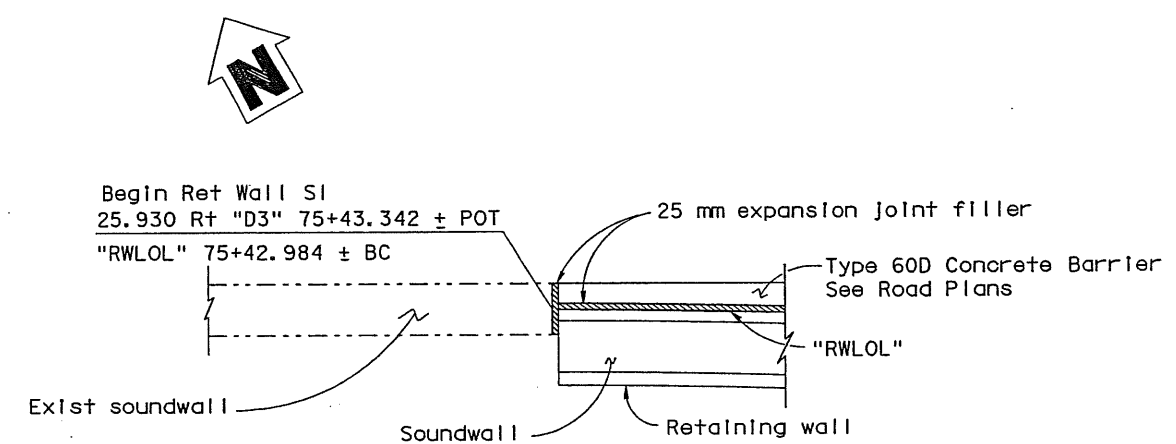
CCS Planning and Engineering, Inc.
 6 Crow Canyon Court
 San Ramon, CA 94583-1621



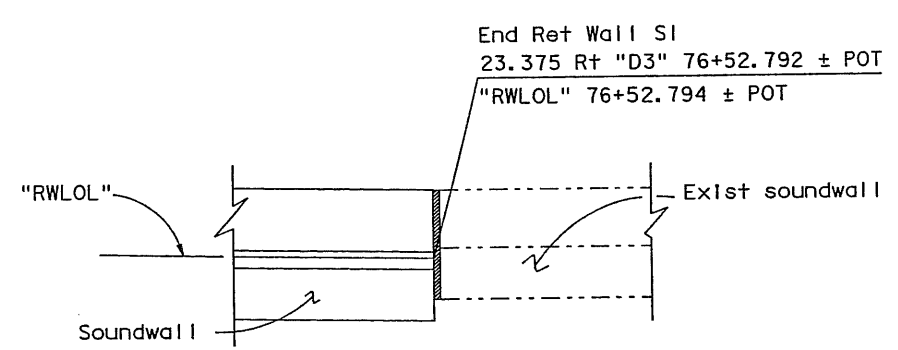
DETAIL I
No scale



AT BARRIER

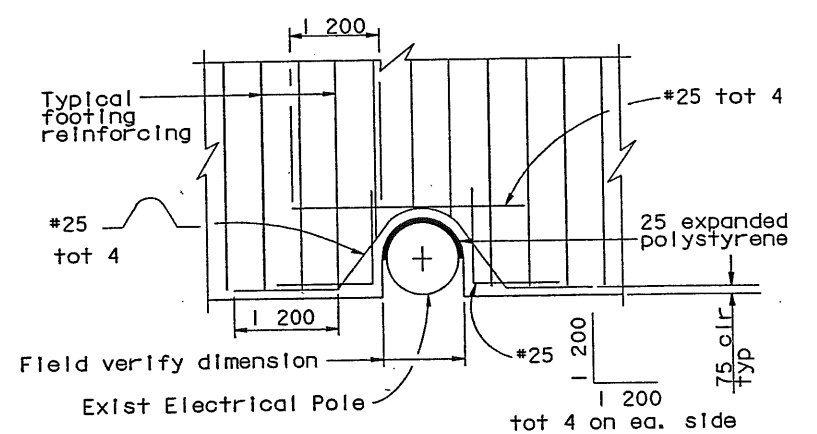


BEGINNING WALL CONNECTION DETAILS
No scale



AT SOUNDWALL

END WALL CONNECTION DETAILS
No scale



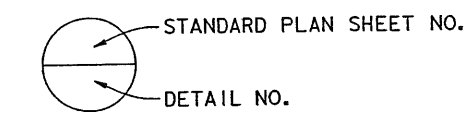
FOOTING DETAILS AT EXIST UTILITY POLE
No scale

QUANTITIES

	LUMP SUM
REMOVE SOUNDWALL	632 M3
STRUCTURE EXCAVATION (RETAINING WALL)	382 M3
STRUCTURE BACKFILL (RETAINING WALL)	153 M3
STRUCTURAL CONCRETE, RETAINING WALL	324 M2
SOUNDWALL (RETAINING WALL)	7846 KG
BAR REINFORCING STEEL (RETAINING WALL)	

STANDARD PLANS DATED JULY 1999
WITH ERRATUM NO 99-1

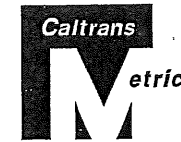
- A10A Abbreviations
- A10B Symbols
- A62B Limits of Payment for Excavation and Backfill - Bridge Surcharge and Wall
- B0-3 Bridge Details
- B3-8 Retaining Wall Details No. 1



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

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

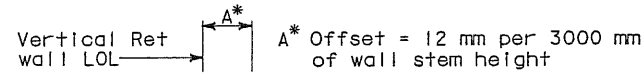
DESIGN OVERSIGHT	DESIGN BY Eng Yeong	CHECKED Odeon M. LI	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Odeon M. LI PROJECT ENGINEER	BRIDGE NO.	RETAINING WALL S1 MISCELLANEOUS DETAILS	
SIGN OFF DATE	DETAILS BY Eng Yeong	CHECKED Odeon M. LI		KILOMETER POST		
DESIGN DETAIL SHEET (METRIC) (REV. 3/1/98)	QUANTITIES BY Eng Yeong	CHECKED Odeon M. LI				
		ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	CU 04245 EA 272821	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	
						SHEET 2 OF 8



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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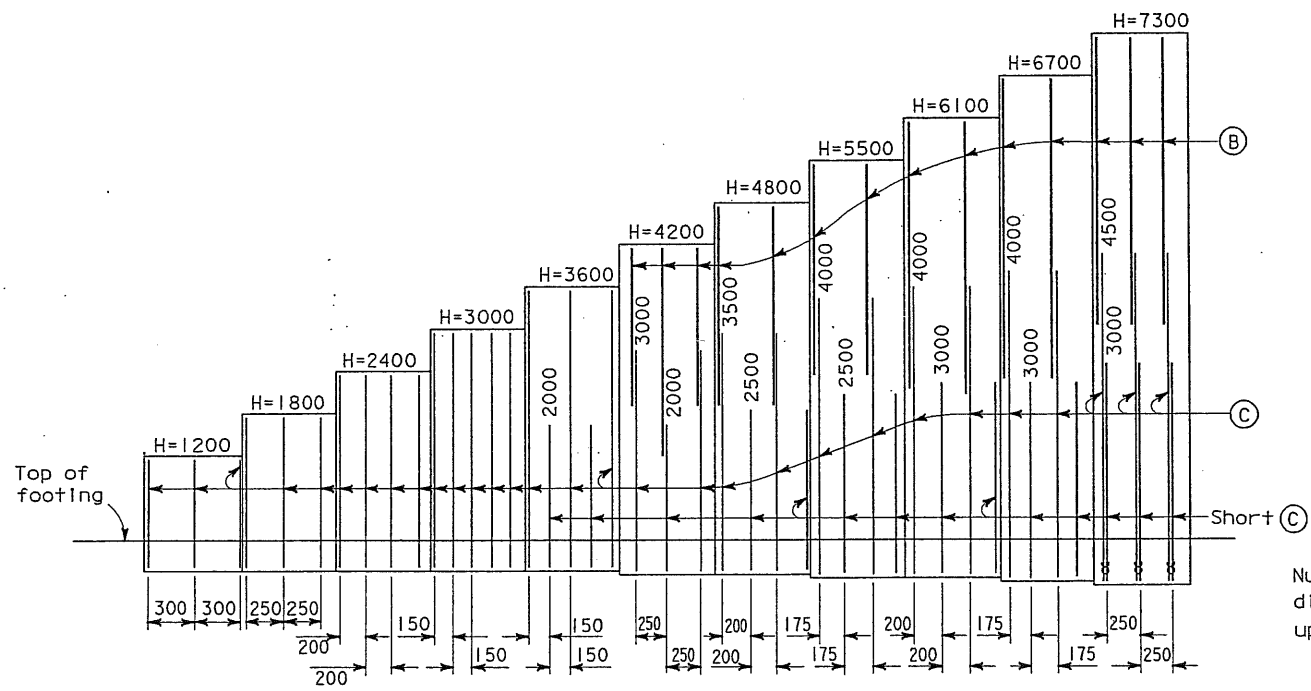
Odean M. Li 10/15/03
 REGISTERED ENGINEER - CIVIL
 Odean M. Li
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
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WALL OFFSET

Values for offsetting forms to be determined by the Engineer

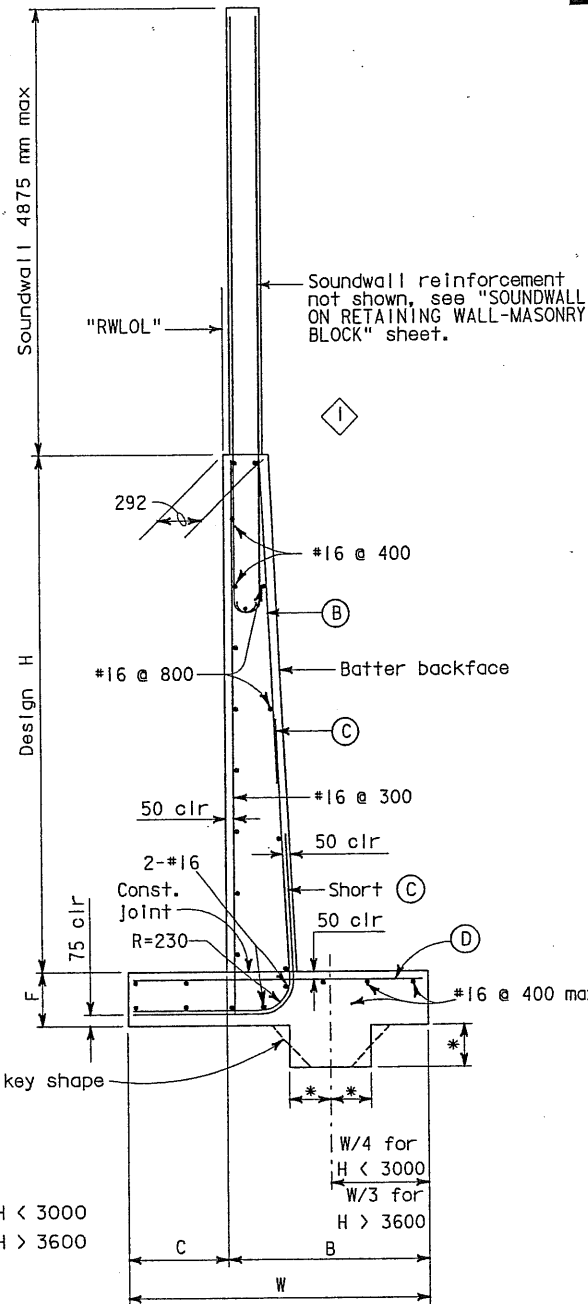


ELEVATION

NOTE:

⊗ - Bundle bars
 Numbers above ⊗ bars indicate distance from top of footing to upper end of ⊗ bars

* 200 mm for H < 3000
 300 mm for H > 3600



SPREAD FOOTING SECTION

DESIGN DATA

REINFORCED CONCRETE

$f_s = 168 \text{ MPa}$ $f'_c = 25 \text{ MPa}$
 $f_c = 10 \text{ MPa}$ $n = 10$
 $\bar{\sigma}_{\text{Soil}} = 19 \text{ kN/m}^3$
 Live load = 11.5 kPa surcharge
 Equivalent fluid pressure
 = 5.6 kPa/m max for determination of toe pressure
 = 4.2 kPa/m max for determination of heel pressure

LEVEL SLOPE

Seismic load = 0.3 Dead load
 Wind load = 1435 Pa
 Dead load of soundwall = 20.6 kN/m

DESIGN CONDITIONS

Design H may be exceeded by 150 mm before going to the next Design H
 Special footing design is required where foundation material is incapable of supporting the toe pressure listed in table

LOADING COMBINATION PERCENTAGE OF BASIC UNIT STRESS

Group 1 : D + E + SC	100
Group 2 : D + E + SC + W	133
Group 3 : D + E + EQD	133

D = Dead load
 E = Lateral earth pressure
 SC = Live load surcharge
 W = Wind load
 EQD = Seismic dead load

NOTES:

- For soundwall wall Architectural treatment, see details elsewhere in project plans.
- For details not shown and drainage notes, see (B3-8)

3

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA (mm)

DESIGN H	1200	1800	2400	3000	3600	4200	4800	5500	6100	6700	7300
W	1700	1850	2050	2300	2650	3000	3500	4100	4700	5400	6200
C	550	600	700	750	900	1000	1150	1350	1550	1800	2050
B	1150	1250	1350	1550	1750	2000	2350	2750	3150	3600	4150
F SPREAD FTG	400	400	400	400	400	400	450	500	600	700	800
STEM BATTER	100:4	100:4	100:4	100:4	100:4	100:4	100:4	100:5	100:6	100:7	100:8
⊗ BARS						#16 @ 250	#22 @ 400	#22 @ 350	#25 @ 400	#25 @ 350	#22 @ 250
⊗ C BARS	#16 @ 300	#16 @ 250	#16 @ 200	#16 @ 150	#19 @ 150	#29 @ 250	#29 @ 200	#32 @ 175	#36 @ 200	#36 @ 175	#32 @ 250
⊗ D BARS	#13 @ 300	#13 @ 250	#13 @ 200	#16 @ 150	#16 @ 150	#25 @ 250	#22 @ 200	#29 @ 175	#29 @ 200	#32 @ 175	#36 @ 250
11.5 kPa surcharge Toe Pr. kPa	140	140	140	150	150	150	150	150	150	150	150

NO SCALE
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING FILE NO. XS 3-51 DESIGN BY C.E. ROWORTH CHECKED A. SALERNO DRAWING DATE 8/96 DETAILS BY R. YEE CHECKED SUBMITTED BY J.C. MOESE DESIGN SUPERVISOR				1 Revised Details 3 Removed note 2 Removed Details		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF STRUCTURES STRUCTURE DESIGN		BRIDGE NO. KILOMETER POST		RETAINING WALL S1 SOUNDWALL ON RETAINING WALL			
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS						CU 04245 EA 272821		DISREGARD PRINTS BEARING EARLIER REVISION DATES 5/3				SHEET 3 OF 8			

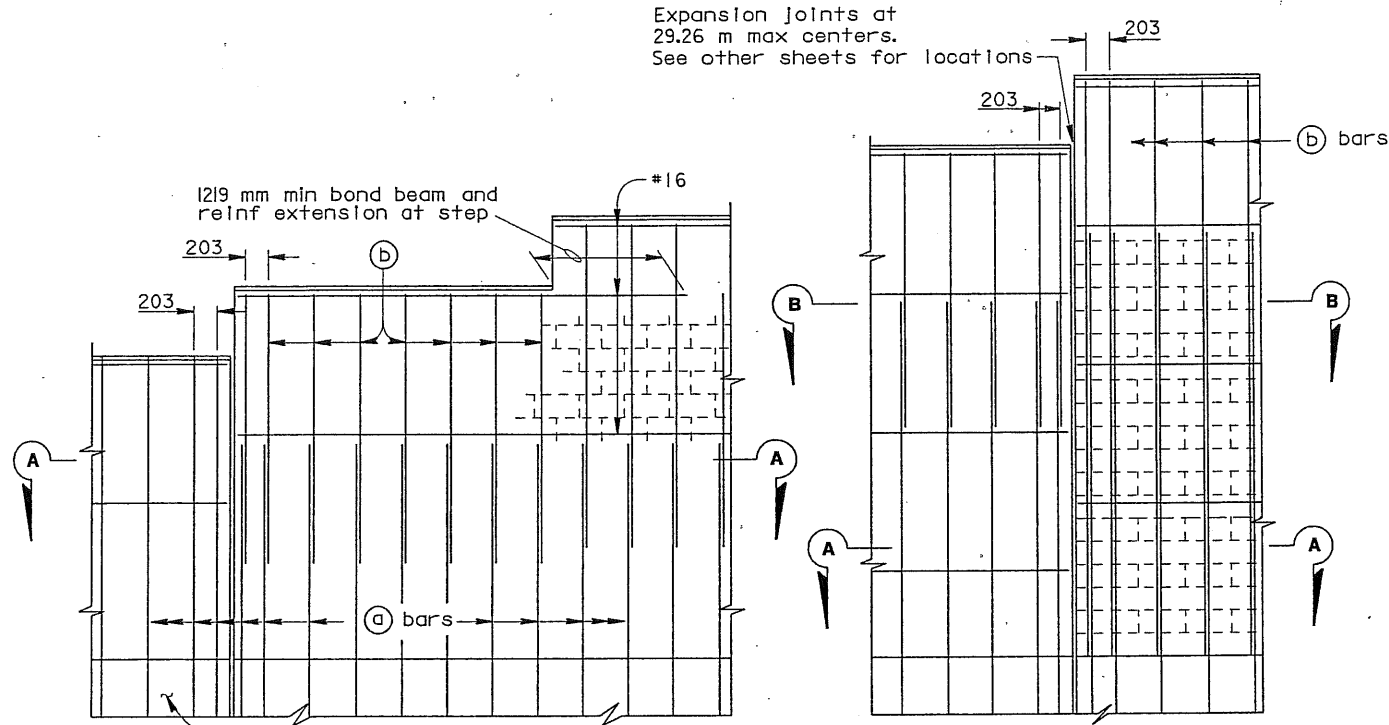


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SM	101		73	103

Edson M. Li 10/15/03
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 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

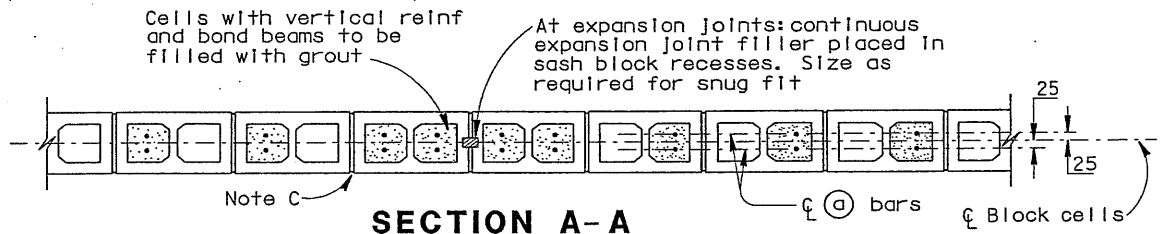
PLANS APPROVAL DATE

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For details not shown, see "SOUNDWALL ON RETAINING WALL" sheet

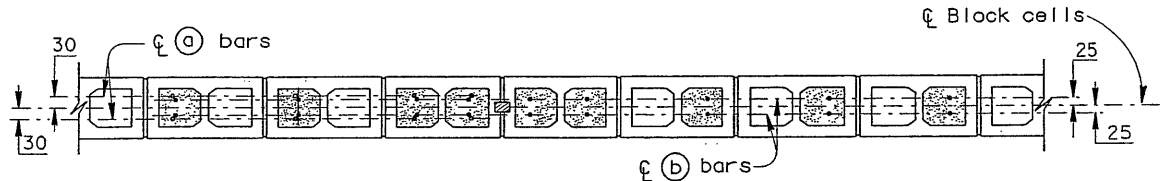
PART ELEVATIONS



SECTION A-A

For details not shown, see other details

H=1829 THRU H=3048



SECTION A-A

For details not shown, see other details

H=3658 THRU H=4877

SECTION B-B

Maximum H	(a) bars @ 406 max	(b) bars @ 406 max	"y"	f'm (MPa)	Compressive Strength of CMU (MPa)	Maximum H
1829	#13	---	---	10.34	13.1	1829
2438	#13	---	---	10.34	13.1	2438
3048	#13	---	---	10.34	13.1	3048
3658	#16	#13	1829	13.79	19.31	3658
4267	#19	#13	2438	17.24	25.86	4267
4877	#19	#13	3048	17.24	25.86	4877

DESIGN NOTES

DESIGN
Uniform Building Code, 1997 Edition and the Bridge Design Specifications.

DESIGN WIND LOAD
1293 Pa

DESIGN SEISMIC LOAD
0.57 Dead load

CONCRETE MASONRY

REINFORCED CONCRETE	REGULAR STRENGTH	HIGH STRENGTH
f'c = 22.408 Mpa	f'm = 10.34 MPa	f'm = 13.79 MPa
fy = 413.688 MPa	fb = 3.41 MPa	fb = 4.55 MPa
	fs = 165.5 MPa	fs = 165.5 MPa
	n = 25.8	n = 19.3
		n = 15.5

LOAD FACTORS AND LOAD COMBINATIONS

Working Stress Design (WSD) Percentage of unit stress

Group 1: D + E + SC	100%
Group 2: D + W + SC + E	100%
Group 3: D + 0.71 EQD + E	100%

Where:
 D = Dead load
 E = Lateral earth pressure
 SC = Live load surcharge
 W = Wind load
 EQD = Seismic dead load

Load Factor Design (LFD)

Group A: BD + 1.7 E + 1.7 SC
Group B: BD + 1.7 E + 1.3 W
Group C: BD + 1.3 E + 1.0 EQE
Group D: BD + 1.3 E + 1.0 EQD
Group E: BD + 1.1 E + 0.85 (EQE + EQD)

Where: B = 0.9 or 1.2, whichever controls in design
 D = Dead load
 E = Lateral earth pressure
 SC = Live load surcharge
 W = Wind load
 EQD = Seismic dead load
 EQE = Seismic earth load

STRENGTH REDUCTION FACTORS, φ

Reinforced concrete:
 For flexure _____ φ=0.90
 For shear _____ φ=0.85
 For axial compression _____ φ=0.70

Foundations:
 See "RETAINING WALL WITH SOUNDWALL" sheets

GENERAL NOTES

- Note A: For type of block and joint finish, See other sheets.
- Note B: When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2-3.76 mm wires continuous at 1219 mm maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond beams.
- Note C: Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked.
- Note D: For intermediate wall heights that are between the "H's" given. Use the tabular information for the next higher "H".
- Note E: Masonry strengths are listed in the "SOUNDWALL REINFORCEMENT TABLE".

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING			
FILE NO. XS 3-91.1	DESIGN BY D. DUNRUD	CHECKED W.C. WALKER	APPROVAL RECOMMENDED BY
DRAWING DATE 11/94	DETAILS BY R. YEE	CHECKED W.C. WALKER	<i>Roberto Truller</i>
SUBMITTED BY D. DUNRUD		DESIGN SUPERVISOR	

NO SCALE		BRIDGE NO.	
STATE OF CALIFORNIA		DIVISION OF STRUCTURES	
DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN	
CU 04245		EA 272821	

RETAINING WALL S1			
SOUNDWALL ON RETAINING WALL-MASONRY BLOCK			
DETAILS NO. 1			
REVISION DATES (PRELIMINARY STAGE ONLY)			
6/12/05	6/28/05	7/1/05	8/03
DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET 4 OF 8



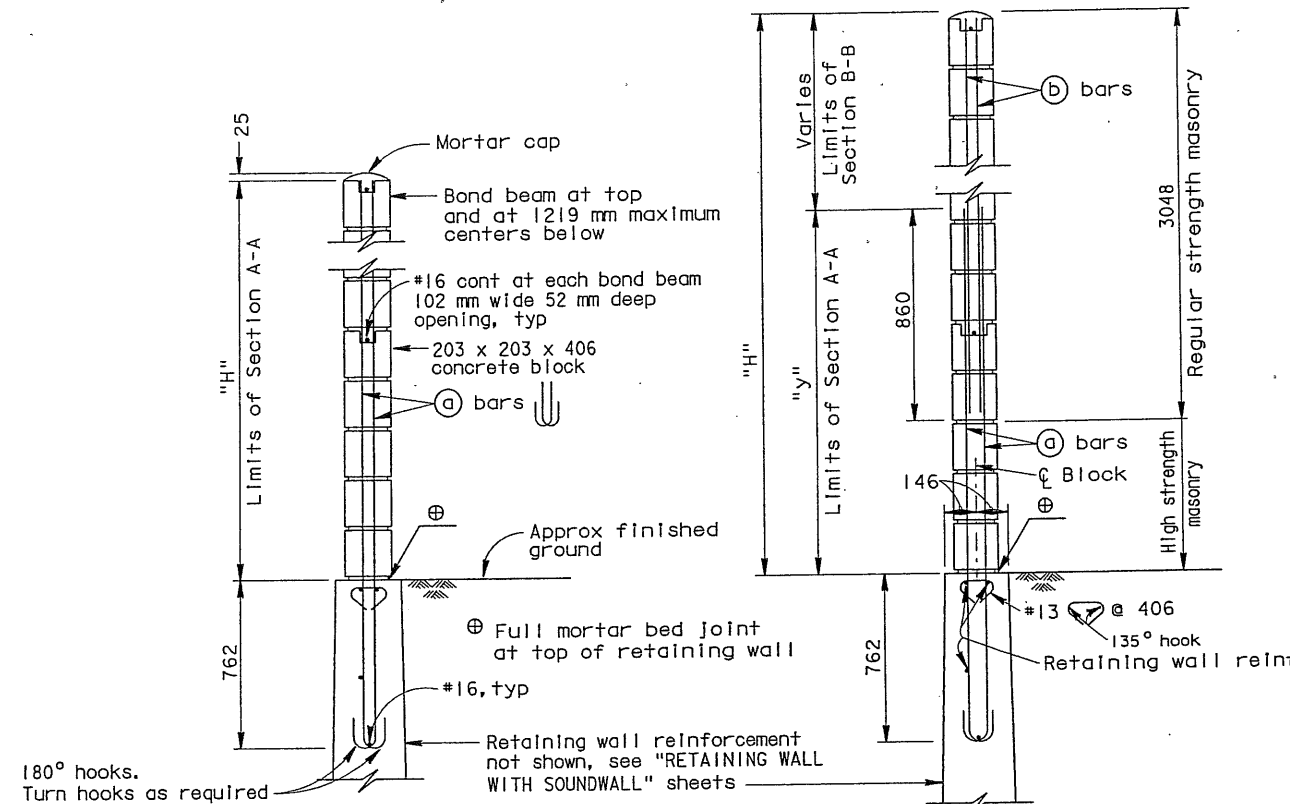
RELEASED 7-3-03



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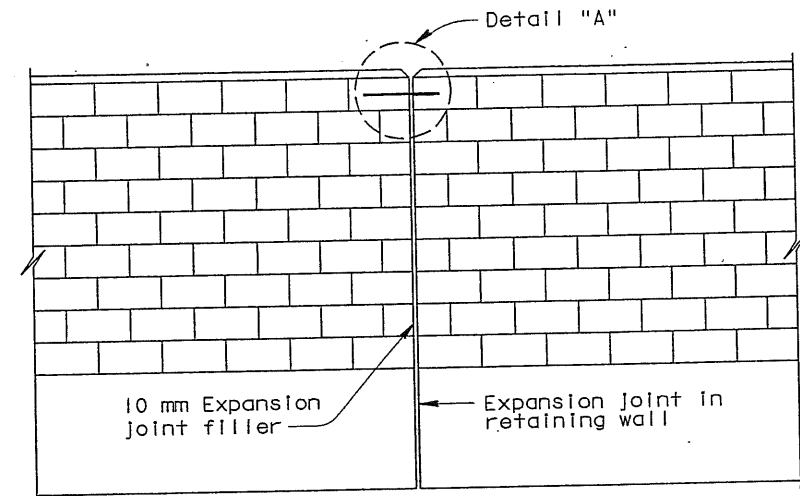
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 Odeon M. LI
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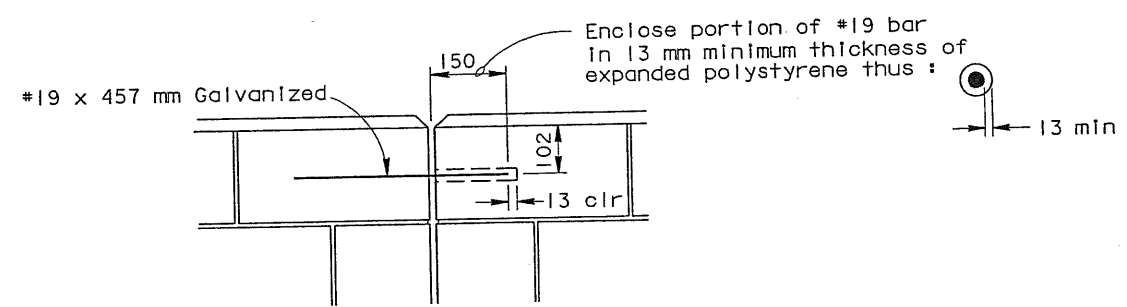


H=1829 THRU H=3048 For details not shown, see H=3658 thru H=4877
H=3658 THRU H=4877 For details not shown, see H=1829 thru H=3048

TYPICAL SECTIONS



ALIGNMENT KEY DETAIL



DETAIL A

NO SCALE
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

RETAINING WALL S1	
SOUNDWALL ON RETAINING WALL-MASONRY BLOCK	
DETAILS NO. 2	

STANDARD DRAWING			
FILE NO. XS 3-91.2	DESIGN BY D. DUNRUD	CHECKED W.C. WALKER	APPROVAL RECOMMENDED BY Roberto Small
DRAWING DATE 11/94	DETAILS BY R. YEE	CHECKED W.C. WALKER	

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF STRUCTURES
 STRUCTURE DESIGN

BRIDGE NO.	
KILOMETER POST	

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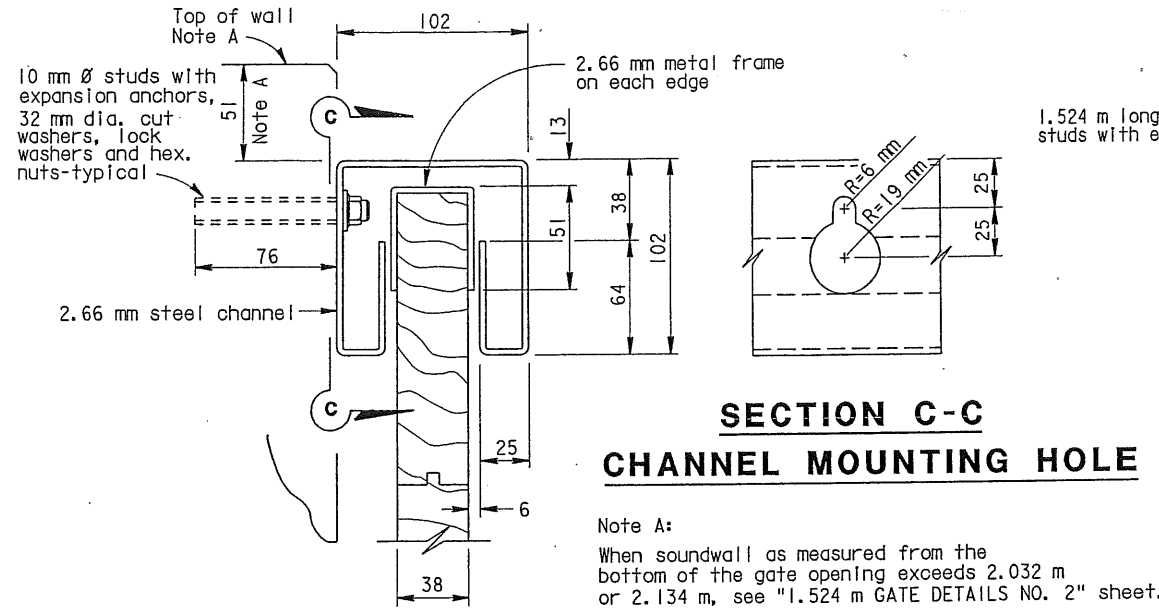
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REGISTERED ENGINEER - CIVIL

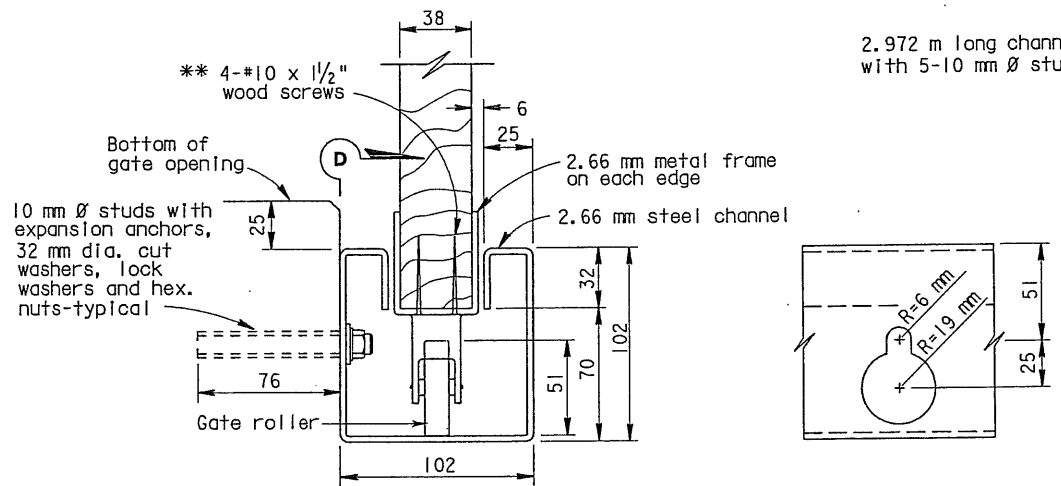
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No. 31895
Exp. 12-31-04
CIVIL
STATE OF CALIFORNIA

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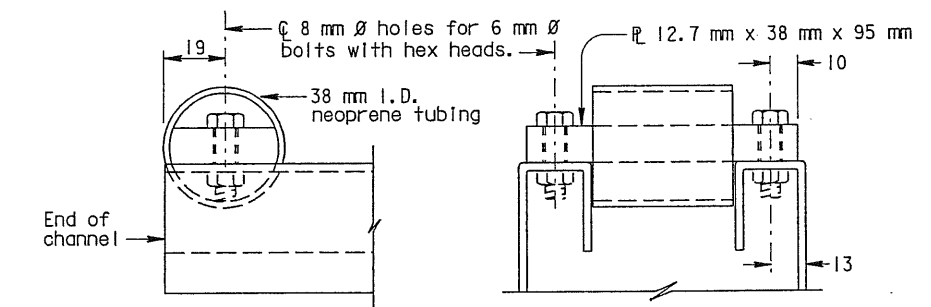


DETAIL "A"

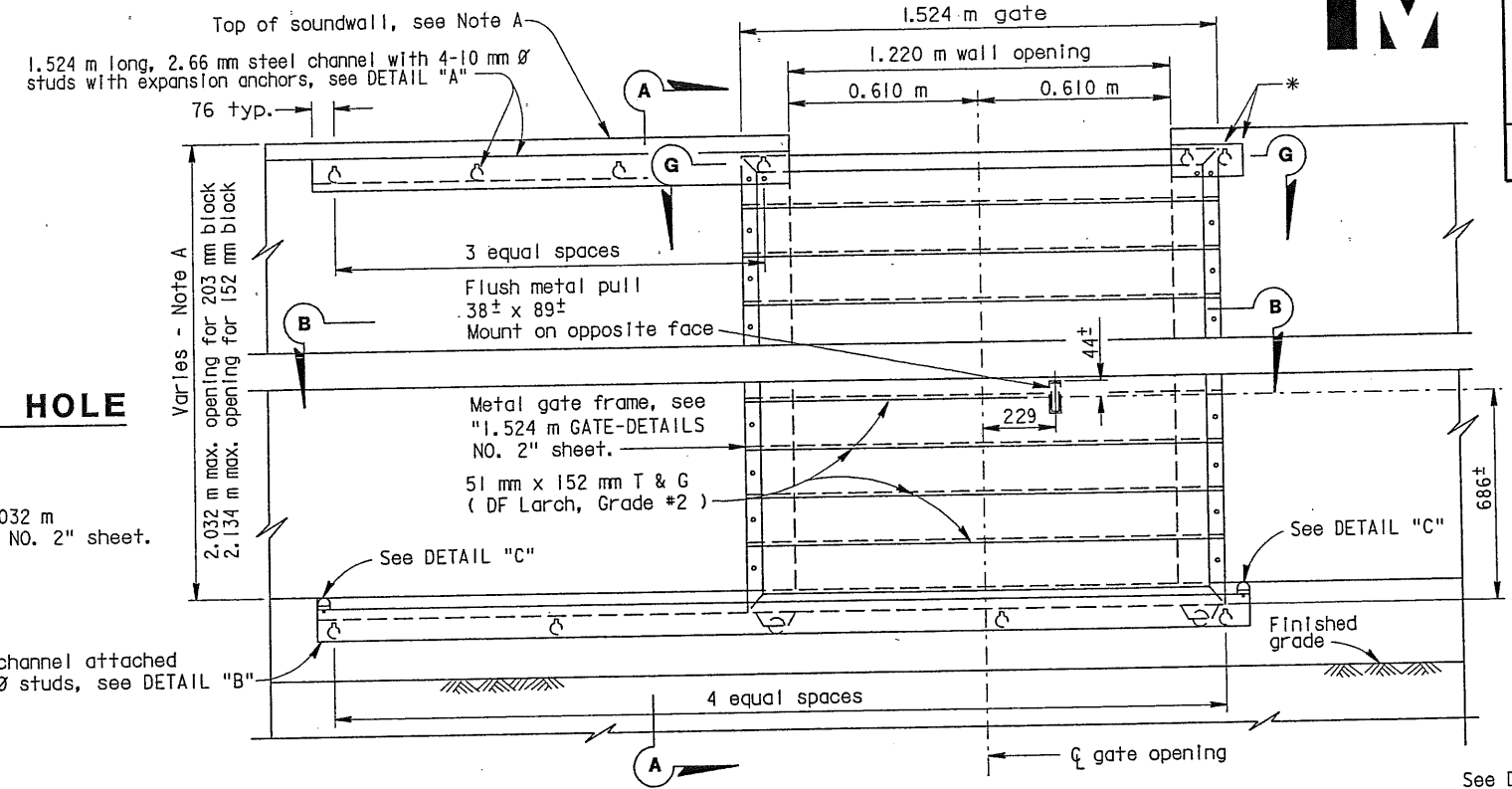


DETAIL "B"

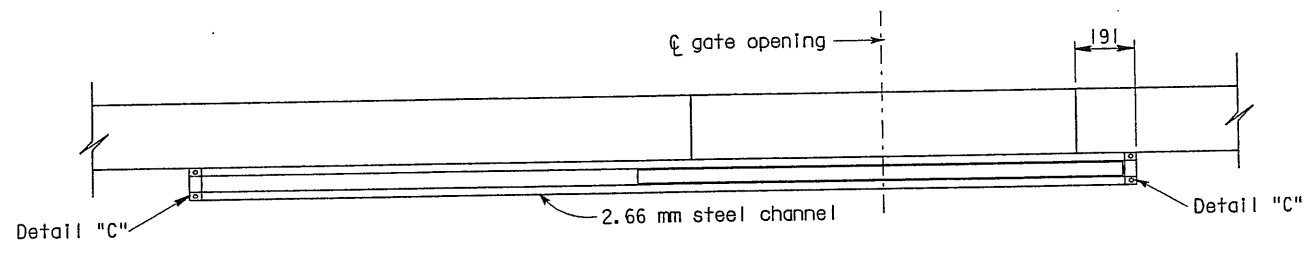
** Wood screws are in U.S. Customary Units.



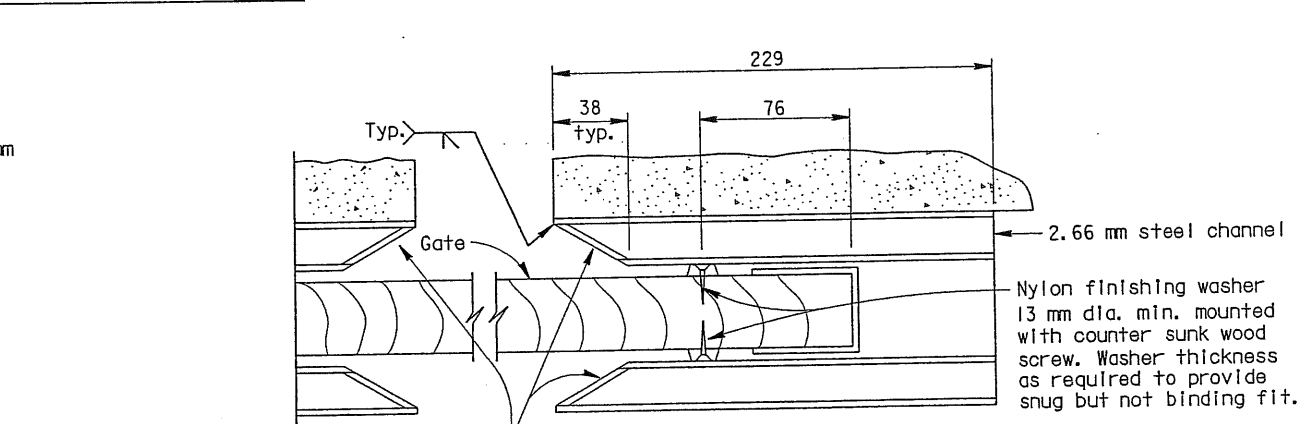
SIDE VIEW END VIEW



GATE ELEVATION - BACK



SECTION B-B

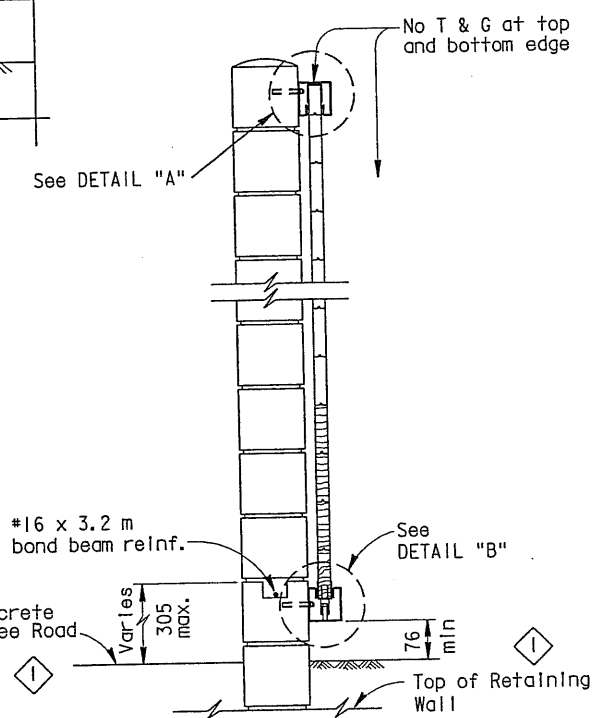


SECTION G-G

Note: For location of nylon finishing washers see "1.524 m GATE-DETAILS NO. 2" sheet.

* 229 mm long channel attached with 2-10 mm Ø studs, see DETAIL "A"

Note: Those blocks upon which the supporting steel channels are mounted shall be smooth faced on the mounting side



SECTION A-A

NOTES:

All wood to be stained. All hardware to be galvanized. All structural metal to be galvanized after fabrication. Gate mounted on sloping grade shall be oriented to be in closed position when at lower grade point.

Two masonry cells adjacent to each side of gate to be reinforced and grouted.

NO SCALE ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

BRIDGE NO.		RETAINING WALL S1	
KILOMETER POST		ACCESS GATE - SOUNDWALL MASONRY BLOCK ON FOOTING OR PILE CAP	
		1.524 m GATE - DETAILS NO. 1	
REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET	OF
		6	8

STANDARD DRAWING			
FILE NO. XS 3-68	DESIGN BY J. HAMAGUCHI	CHECKED D. DUNRUD	APPROVAL RECOMMENDED BY
DRAWING DATE 11/82	DETAILS BY R. YEE	CHECKED D. DUNRUD	<i>Robert Smalls</i>
SUBMITTED BY D. DUNRUD		DESIGN SUPERVISOR	

Revised call-out

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 04245 CA 272821

ORIGINAL SCALE IN MILLIMETERS

DISREGARD PRINTS BEARING EARLIER REVISION DATES

8/03

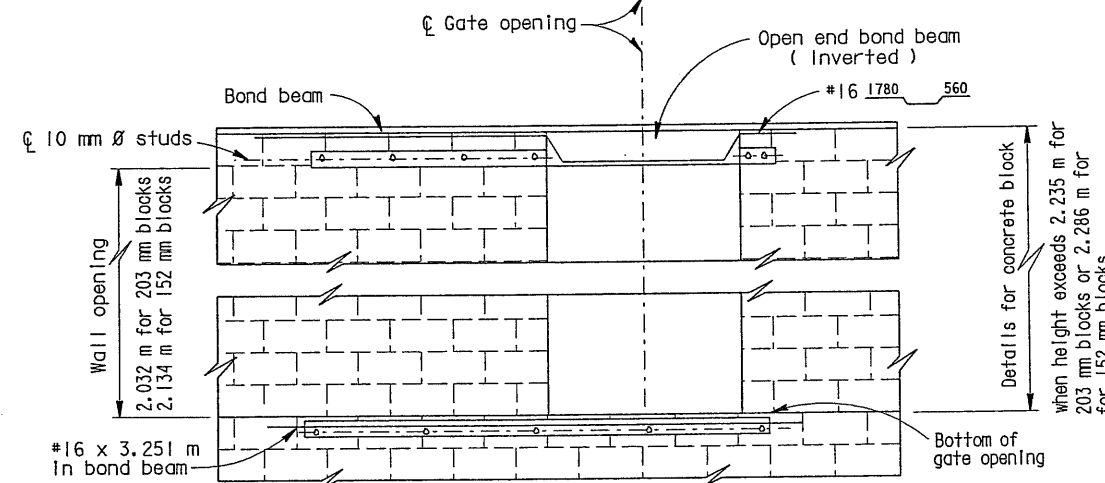
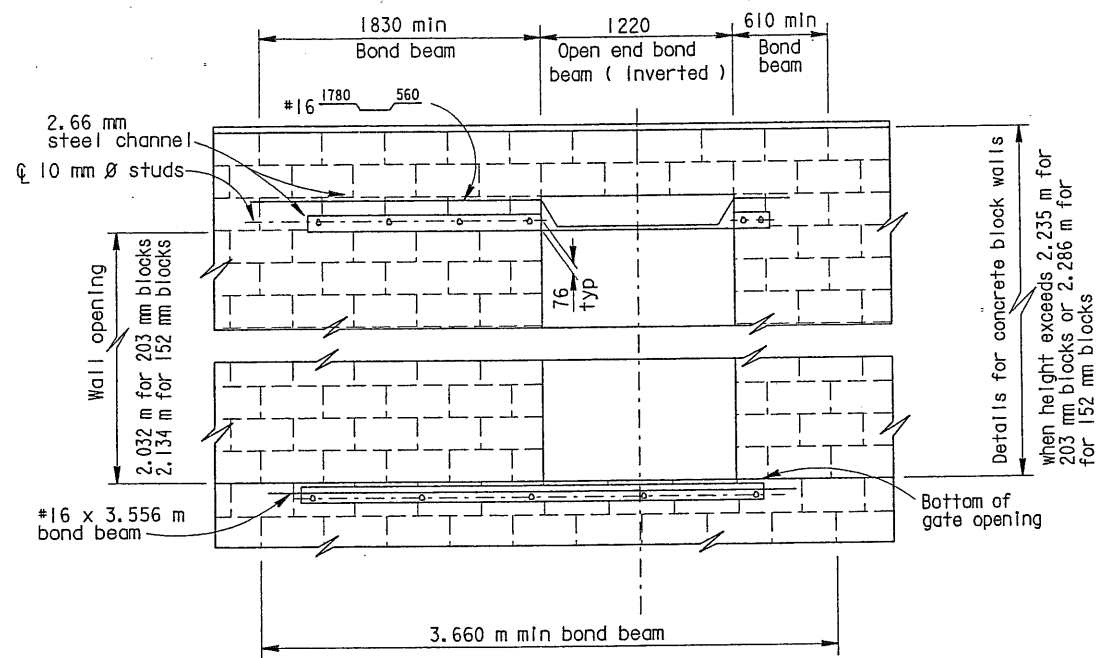
RELEASED 7-3-03



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SM	101		76	103

REGISTERED ENGINEER - CIVIL
 Odeon M. LI
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

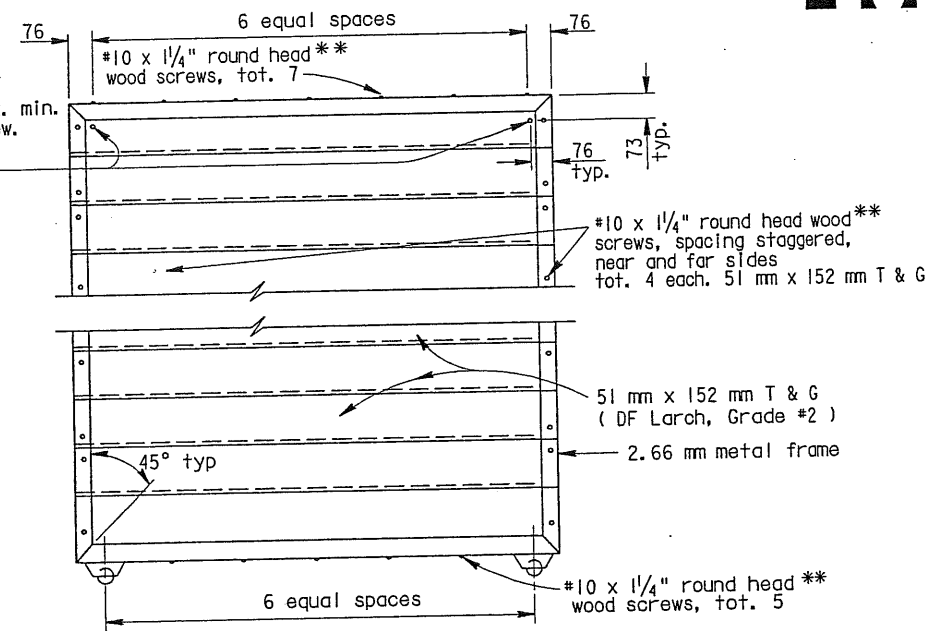
PLANS APPROVAL DATE
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PART ELEVATION (BACK)

For details not shown, see above

2-Nylon finishing washers 13 mm dia. min. mounted with counter sunk wood screw. Washer thickness as required to provide snug but not binding fit



ELEVATION - METAL FRAME

** Wood screws are in U.S. Customary Units.

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

BRIDGE NO.		RETAINING WALL S1	
KILOMETER POST		ACCESS GATE - SOUNDWALL MASONRY BLOCK ON FOOTING OR PILE CAP	
REVISION DATES (PRELIMINARY STAGE ONLY)		1.524 m GATE - DETAILS NO. 2	

STANDARD DRAWING			
FILE NO. XS 3-68.1	DESIGN BY W. WELCH	CHECKED D. DUNRUD	APPROVAL RECOMMENDED BY
DRAWING DATE 11/82	DETAILS BY R. YEE	CHECKED D. DUNRUD	<i>Roberto Trull</i>
SUBMITTED BY D. DUNRUD		DESIGN SUPERVISOR	

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF STRUCTURES
 STRUCTURE DESIGN

FILED MASTER'S TELE



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101		77	103

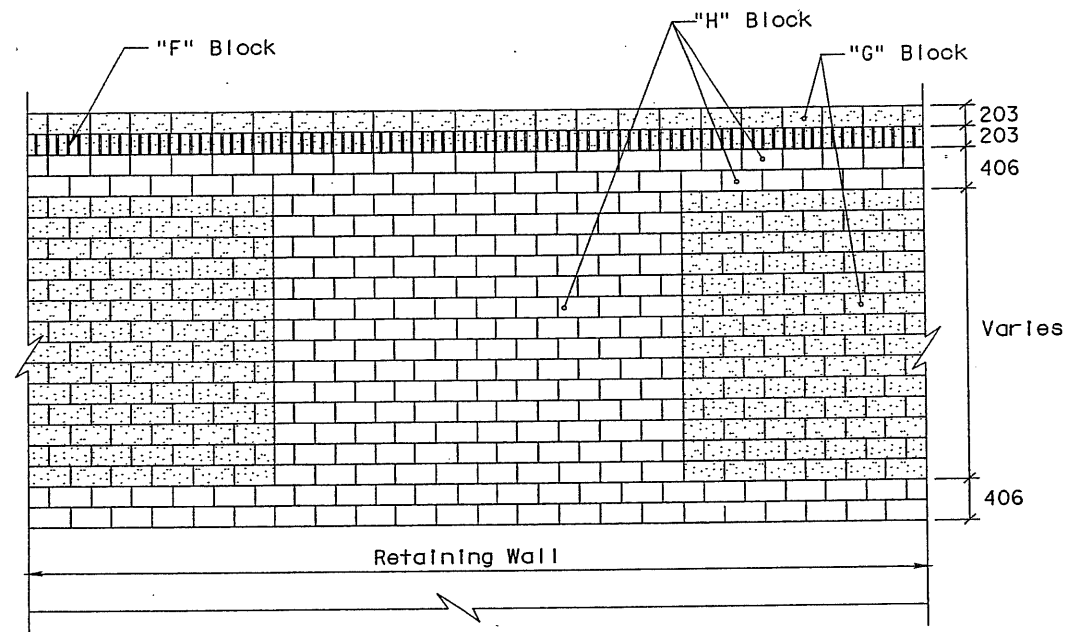
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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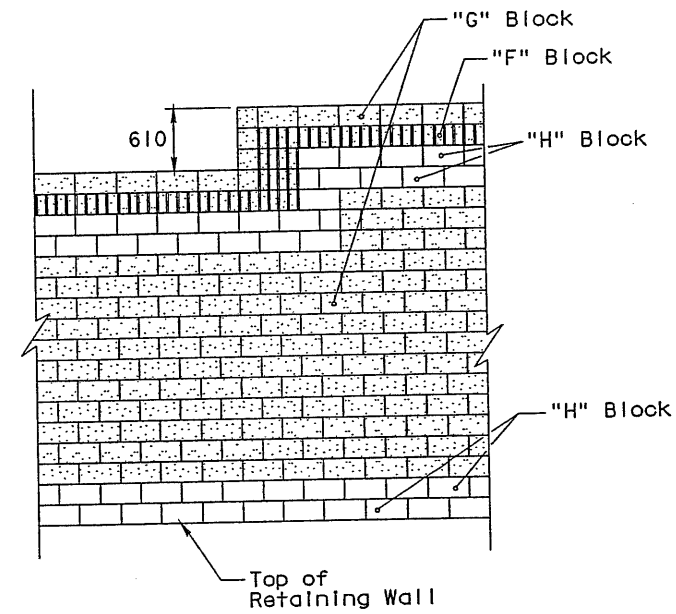
City of East Palo Alto
2200 University Ave
East Palo Alto, CA 94303

CCS Planning and Engineering, Inc.
6 Crow Canyon Court
San Ramon, CA 94583-1621



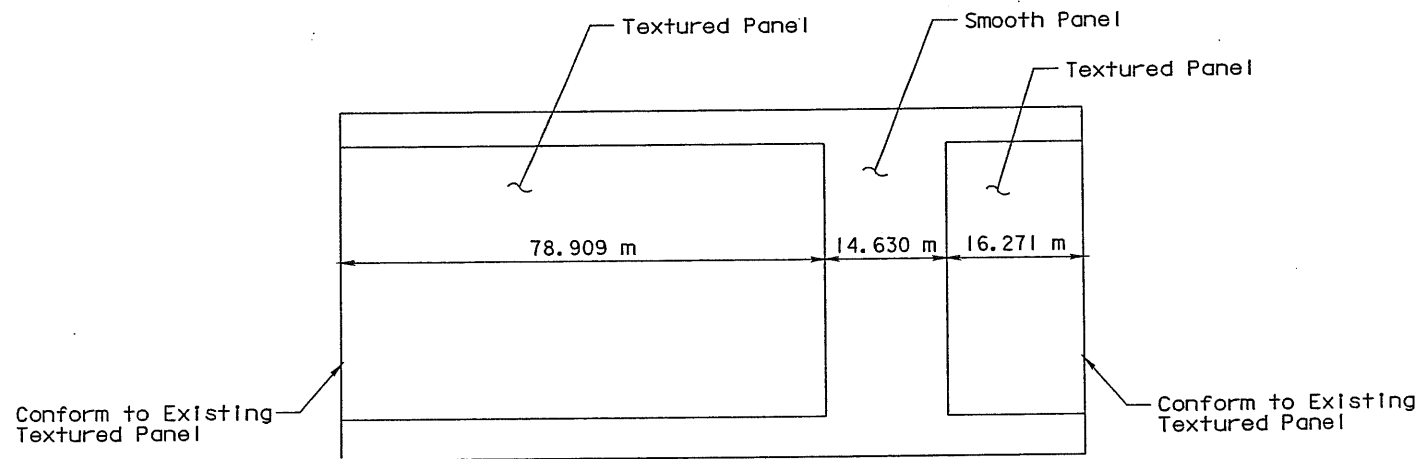
**TYPICAL PROFILE MASONRY
BLOCK SOUNDWALL**

Not to Scale



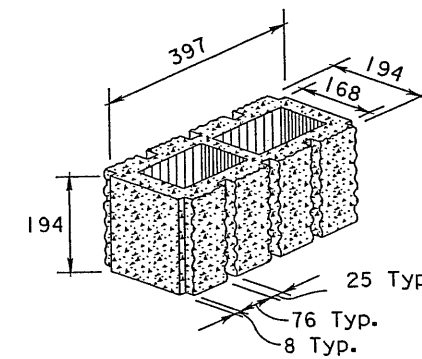
**TYPICAL STEP MASONRY
BLOCK SOUNDWALL**

Not to Scale



SCHEMATIC SOUNDWALL PATTERN LAYOUT

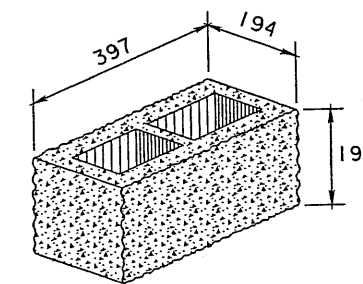
Not to Scale



"F" BLOCK

Split Face, Scored - Both Sides
203 x 203 x 106 Nominal

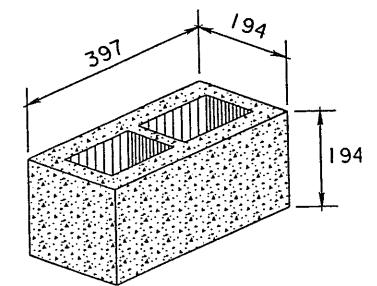
Color: Grey



"G" BLOCK

Split Face, Scored - Both Sides
203 x 203 x 106 Nominal

Color: Dark Brown



"H" BLOCK

Split Face, Scored - Both Sides
203 x 203 x 106 Nominal

Color: Light Brown

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

ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT	DESIGN	BY Eng Yeong	CHECKED Odeon M. LI	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	Odeon M. LI PROJECT ENGINEER	BRIDGE NO.	RETAINING WALL S1	
	DETAILS	BY Eng Yeong	CHECKED Odeon M. LI			KILOMETER POST		SOUNDWALL DETAILS
	QUANTITIES	BY Eng Yeong	CHECKED Odeon M. LI			REVISION DATES (PRELIMINARY STAGE ONLY)		
SIGN OFF DATE				CU 04245	DISREGARD PRINTS BEARING			



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		78	103

REGISTERED CIVIL ENGINEER
 4/30/04
 No. C063058
 Exp. 6/30/06
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE

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CITY OF EAST PALO ALTO
 2200 UNIVERSITY AVENUE
 EAST PALO ALTO, CA 94303

CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612

INDEX TO ELECTRICAL PLANS

E-1	LIGHTING, SIGN ILLUMINATION, AND SIGNAL AND LIGHTING (INDEX, LEGEND, GENERAL AND PROJECT NOTES)
E-2 THRU E-4	LIGHTING AND SIGN ILLUMINATION
E-5	LIGHTING (CITY STREET)
E-6 THRU E-7	SIGNAL AND LIGHTING
E-8	SIGNAL AND LIGHTING (CONDUCTOR, POLE AND EQUIPMENT SCHEDULES)
E-9	ELECTRICAL DETAILS

PROJECT NOTES: (SHEETS E-2 TO E-9 ONLY)

- 1 EXISTING 53C, 2#6 (120V, SIGNAL), 2#6 (240V, LIGHTING), 2#10 (240V, IISNS), 2#14 (120V, TEST SWITCH). TO SERVICE ENCLOSURE No. 00953.
- 2 EXISTING 53C, 3#2 (SERVICE, 120/240V).
- 3 EXISTING 53C, 2#6 (TS CONTROLLER, 120V), 2#6 (LIGHTING), 2#10 (IISNS).
- 4 EXISTING PENDANT LIGHTING IS WIRED TO SERVICE ENCLOSURE No. 00953. REWIRE PENDANT LIGHTING TO LOCATE WHERE THE PENDANT LIGHTING CONNECTION DEVIATES FROM THE AS-BUILTS AND THESE PLANS.
- 5 RELOCATE EXISTING EAST PALO ALTO WELCOME BANNERS TO NEW LIGHT POLES.
- 6 EXISTING 41C, 2#8, 2#14.
- 7 EXISTING 41C, 2#6, 2#8, 2#14.
- 8 EXISTING 41C, 2#6, 2#8, 2#14, 1 dlc.
- 9 EXISTING 53C, 2#6, 2#8, 2#14, 6 dlc.
- 10 EXISTING 53C, 2#6, 2#8, 2#14, 10 dlc.
- 11 EXISTING 78C, 2#6, 2#8, 2#14, 11 dlc.
- 12 EXISTING 41C, 2#6, 2#8, 7#14.
- 13 EXISTING 2-78C, 21 dlc.
- 14 EXISTING 41C, 2#6, sic.
- 15 PROVIDE 5 TURNS OF LOOP WIRE IN SAW CUT.
- 16 EXISTING 41C, 2#6 (LIGHTING, 240V), INSTALL 2#10 (IRRIGATION CONTROLLER, 120V).
- 17 EXISTING 41C, 2#6 (LIGHTING, 240V), 2#8 (SIGN LIGHTING), 2#14 (TEST SWITCH, 120V), INSTALL 2#10 (IRRIGATION CONTROLLER, 120V).
- 18 EXISTING 53C, 2#6 (LIGHTING, 240V), 2#8 (SIGN LIGHTING), 2#14 (TEST SWITCH, 120V), 5#14 (peu's), INSTALL 2#10 (IRRIGATION CONTROLLER, 120V).
- 19 EXISTING 53C, 2#6 (LIGHTING, 240V), 2#8 (SIGN LIGHTING, 240V), 2#14 (TEST SWITCH, 120V), 5#14 (peu's, 120V), 4#6 (RAMP METERING/CCTV CONTROLLER, 120V), 2#10 (TDC, 120V), INSTALL 2#10 (IRRIGATION CONTROLLER, 120V).
- 20 EXISTING 41C, 2#6 (LIGHTING, 240V).
- 21 PLACE TEMPORARY FOUNDATION FOR SIGNAL POLE DURING CONSTRUCTION. PLACE PERMANENT SIGNAL POLE ON TOP OF BARRIER. SEE SHEET C9 FOR DETAIL.
- 22 NOT USED.
- 23 53C, 2#8 (SIGN LIGHTING, 480V), 2#14 (TEST SWITCH, 240V).
- 24 THIS WORK IS PART OF THE BID ITEM, "ELECTRIC SERVICE (IRRIGATION)".
- 25 EXISTING SIGN IS NOT ILLUMINATED. THERE IS NO EXISTING CONDUIT.
- 26 53C, 2#6 (LIGHTING, 240V), 1 SIC.
- 27 WITHDRAW SIC FROM CONTROLLER E35CB AT UNIVERSITY AND 101 SB ON RAMP TO THE NEXT EXISTING PULL BOX NORTH OF NEW CONDUIT ON UNIVERSITY. REINSTALL SIC IN NEW CONDUIT.
- 28 CONNECT SIGNAL HEAD GREEN BALL TO 120 AC TO STAY GREEN ALL THE TIME. (T2/POSITION 8).
- 29 RETROFIT 2 MERCURY VAPOR LAMPS TO 2 INDUCTION LIGHTS.

GENERAL NOTES:

1. ALL EXISTING EQUIPMENT SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.
2. LOCATION OF CONTROLLERS, STANDARDS, CONDUITS, PULL BOXES AND OTHER EQUIPMENT SHOWN ON THE PLANS ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL NOTIFY 1-800-227-2600, UNDERGROUND SERVICE ALERT (U.S.A.), A MINIMUM OF 2 WORKING DAYS PRIOR TO COMMENCING ANY EXCAVATION.
4. ALL SIGNAL HEADS (VEHICLE AND PEDESTRIAN) SHALL BE LED TYPE AND STATE-FURNISHED.

LEGEND:

EXISTING	PROPOSED	
		TYPE 30 STANDARD
		CITY ELECTROLIER, TYPE 15 STD. POLE, 4.6 m LUMINAIRE ARM AND 200 W HPS PER CALTRANS STD. PLANS ES-6A.
		CITY ELECTROLIER, TYPE 15 BARRIER RAIL MOUNTED STD. POLE, 4.6 m LUMINAIRE ARM AND 200 W HPS PER CALTRANS STD. PLANS ES-6A.
		PENDANT SOFFIT LUMINAIRE WITH 100 W HPS LAMP
		CLOSED CIRCUIT TELEVISION CAMERA
		NO.5 PULLBOX, UNLESS INDICATED OTHERWISE ON THE PLANS
		N.I.C. = NOT IN CONTRACT
		ems

LIGHTING, SIGN ILLUMINATION, SIGNAL AND LIGHTING, ELECTRIC SERVICE (IRRIGATION) (INDEX, LEGEND, GENERAL AND PROJECT NOTES)

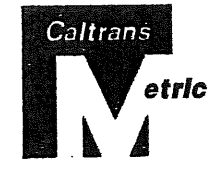
NO SCALE

CALIFORNIA DEPARTMENT OF TRANSPORTATION
 APPROVED _____ FOR ELECTRICAL FEATURES AFFECTING STATE FACILITIES DATE _____

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Ramona Taitano Loughran
 DESIGN OVERSIGHT
 CALCULATED/DESIGNED BY SLL
 CHECKED BY WCS
 DATE 12/03
 DATE 12/03
 REVISOR BY
 DATE REVISOR

NOTES:

1. SEE SHEET E-1 FOR NOTES AND LEGEND.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1,2/2.2	79	103

REGISTERED CIVIL ENGINEER
Suzanne L. Luckjiff 10-03-03
 No. C063058
 Exp. 6/30/06
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: _____

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CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
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MATCH LINE STA 77+02

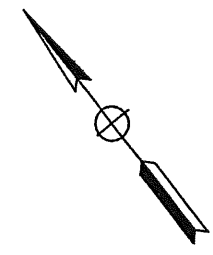
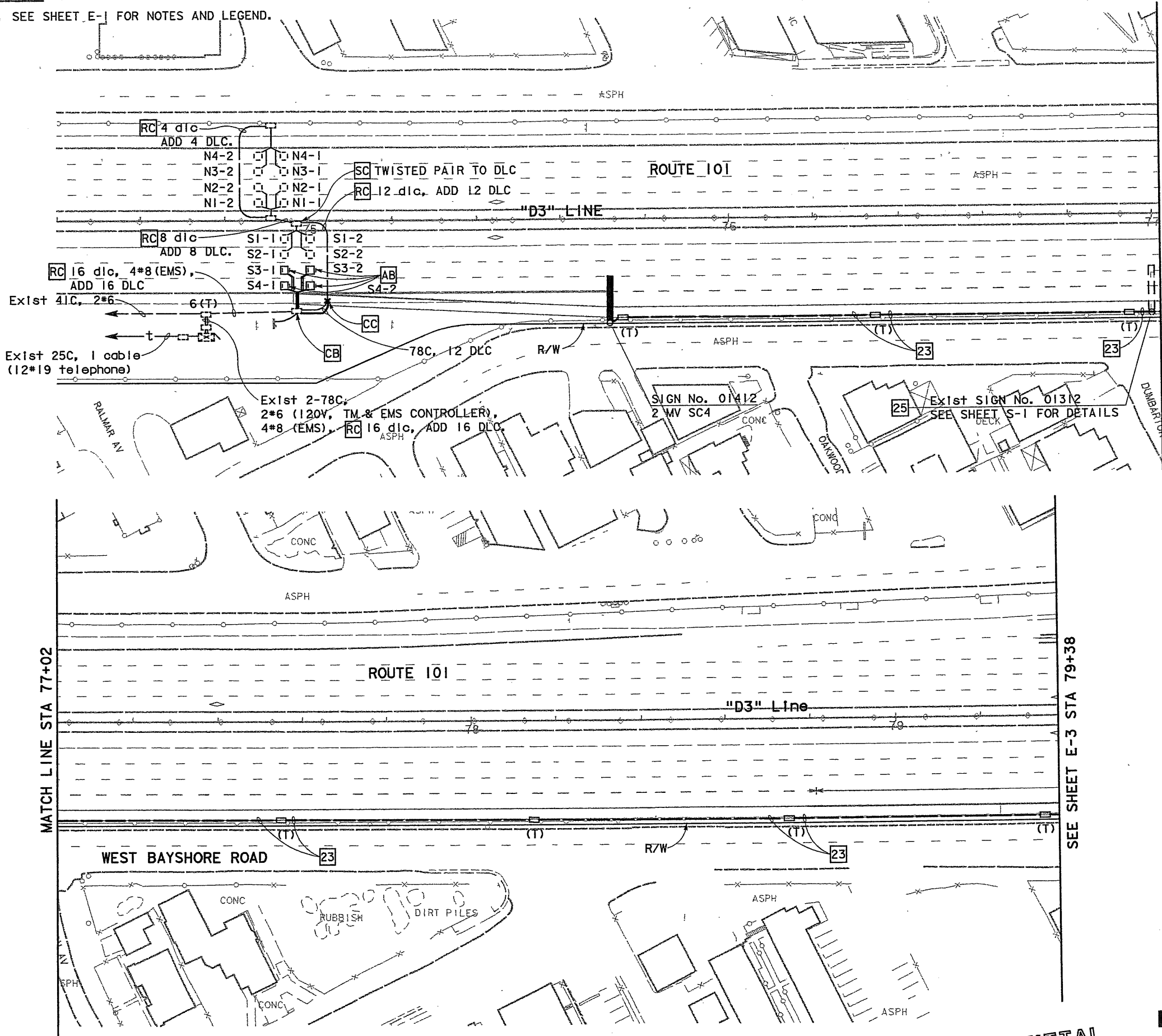
MATCH LINE STA 79+38

LIGHTING AND SIGN ILLUMINATION

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
 SCALE: 1:500

95% SUBMITTAL

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY





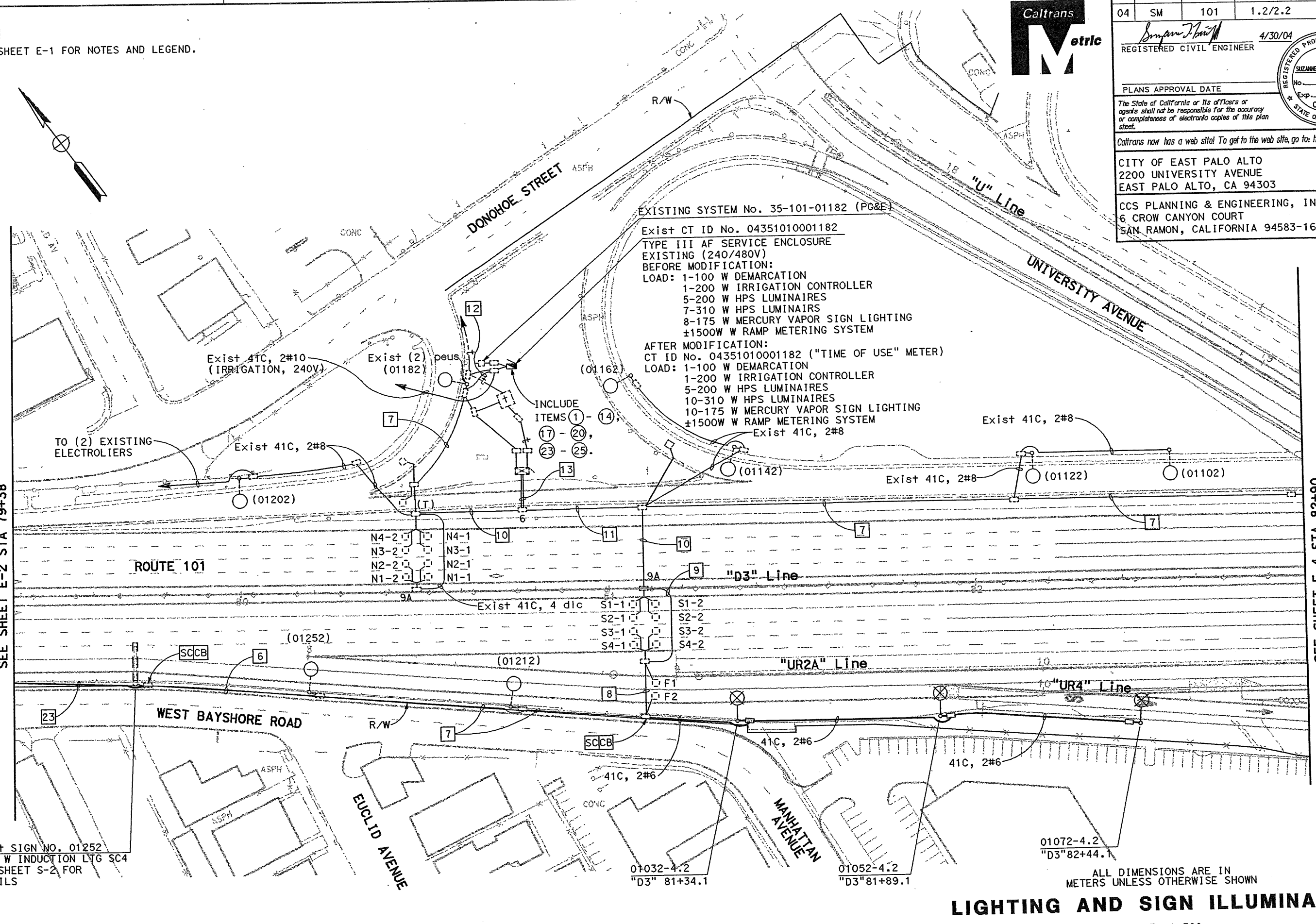
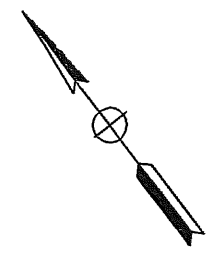
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	80	103

REGISTERED CIVIL ENGINEER
 4/30/04
 SUZANNE L. LUCKJIFF
 No. C063058
 Exp. 6/30/06
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
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 2200 UNIVERSITY AVENUE
 EAST PALO ALTO, CA 94303
 CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612

NOTES:
 1. SEE SHEET E-1 FOR NOTES AND LEGEND.



DATE	REVISOR	DATE	REVISOR
12/03	SLL	12/03	WCS
CALCULATED/DESIGNED BY	CHECKED BY		

DESIGN OVERSIGHT
 RAMONA TAITANO LOUGHRAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 SEE SHEET E-2 STA 79+38
 SEE SHEET E-4 STA 82+90

29 Exist SIGN NO. 01252
 2-85 W INDUCTION LTG SC4
 SEE SHEET S-2 FOR DETAILS

CALIFORNIA DEPARTMENT OF TRANSPORTATION		
APPROVED	FOR ELECTRICAL FEATURES AFFECTING STATE FACILITIES	DATE

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

LIGHTING AND SIGN ILLUMINATION

SCALE: 1:500

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	81	103

REGISTERED CIVIL ENGINEER
 4/30/04
 SIZANE L. LUKJIFF
 No. C063058
 Exp. 6/30/06
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE

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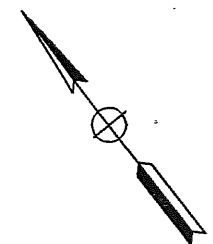
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 EAST PALO ALTO, CA 94303

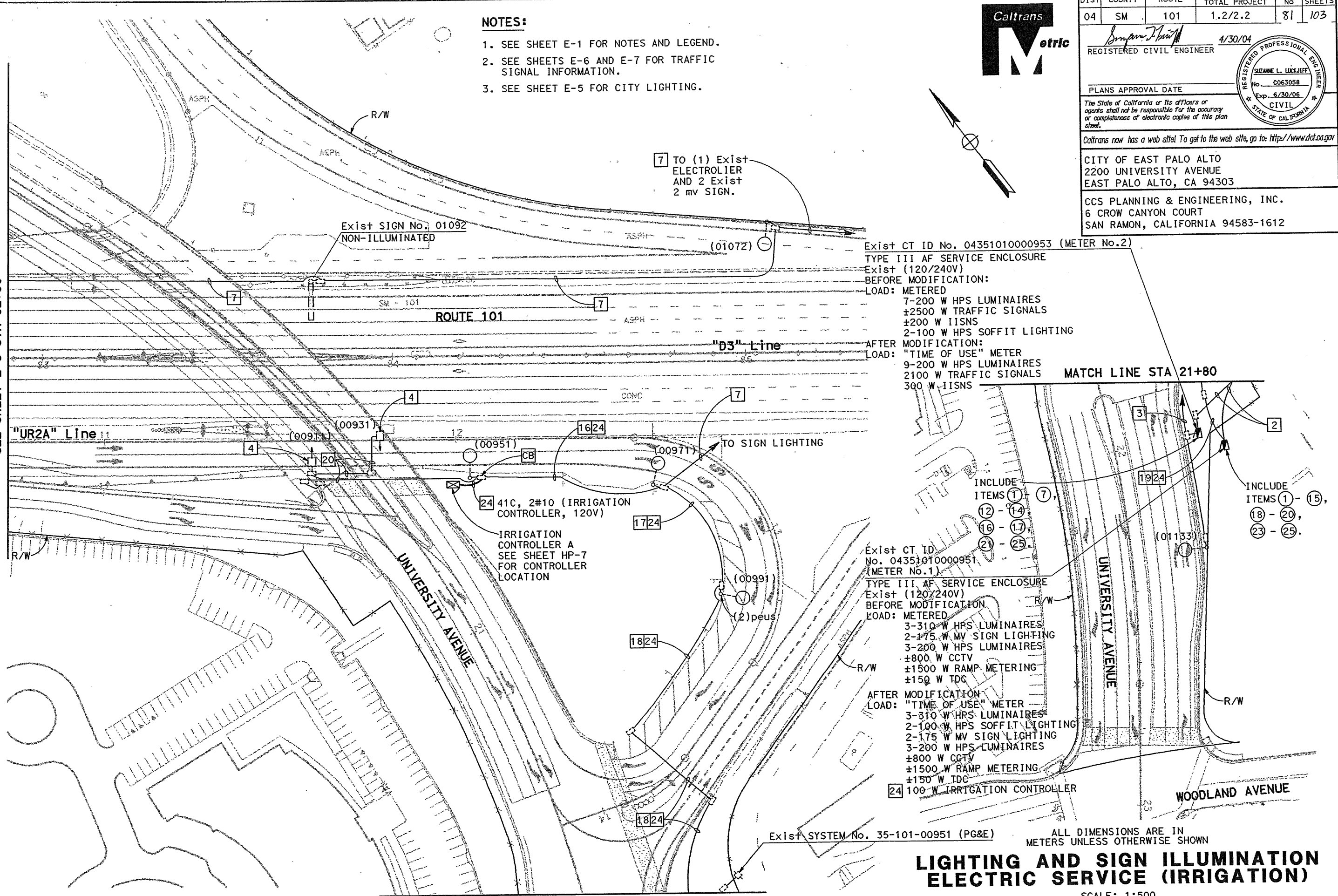
CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612

NOTES:

1. SEE SHEET E-1 FOR NOTES AND LEGEND.
2. SEE SHEETS E-6 AND E-7 FOR TRAFFIC SIGNAL INFORMATION.
3. SEE SHEET E-5 FOR CITY LIGHTING.



SEE SHEET E-3 STA 82+90

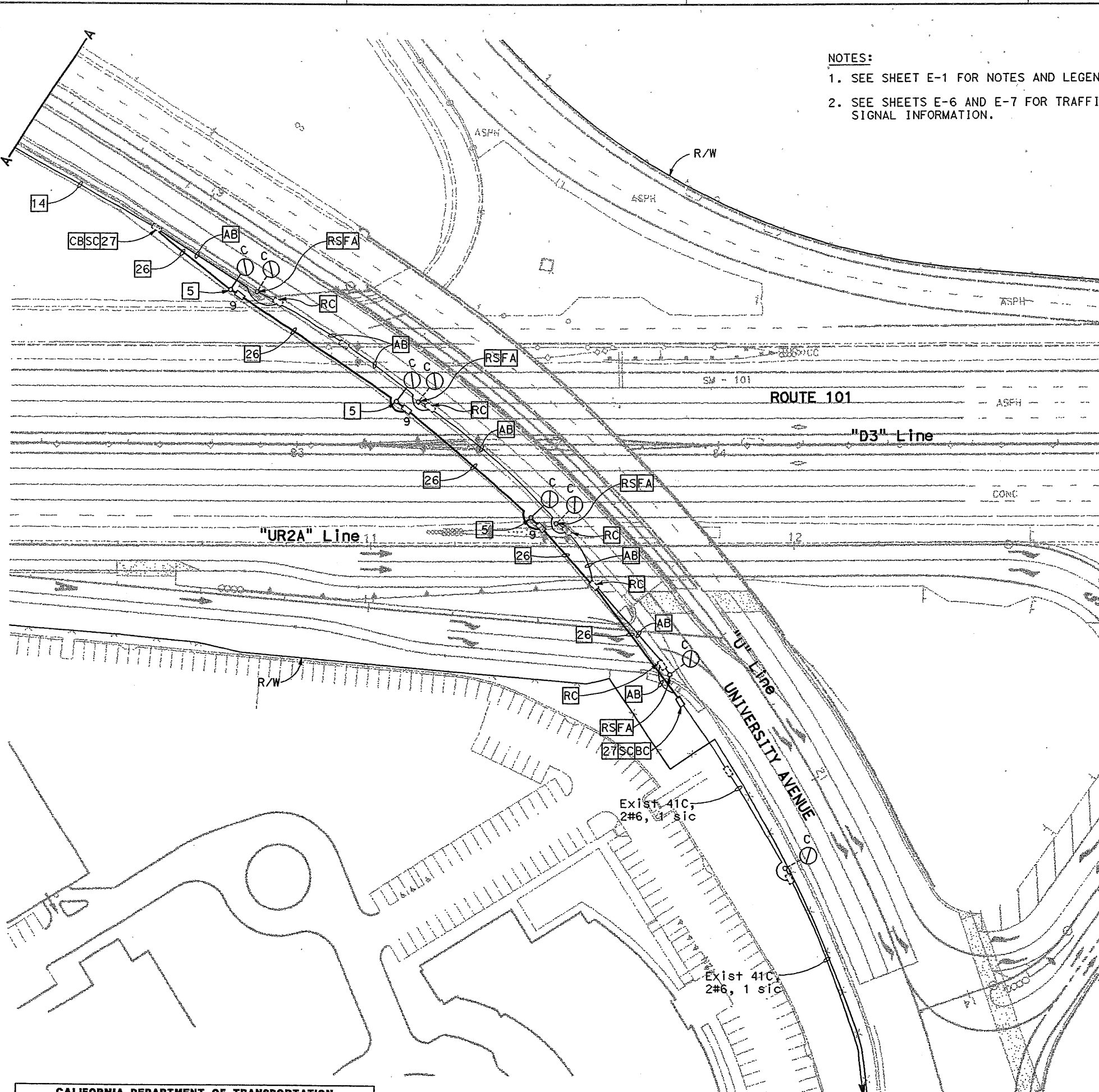


MATCH LINE STA 21+80

**LIGHTING AND SIGN ILLUMINATION
 ELECTRIC SERVICE (IRRIGATION)**

SCALE: 1:500

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN OVERSIGHT
 RAMONA TAITANO LOUGHRAN
 CALCULATED/DESIGNED BY
 SLL
 CHECKED BY
 WCS
 DATE REVISIED BY
 DATE REVISIED BY
 DATE REVISIED BY

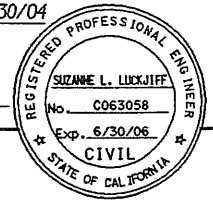


- NOTES:
 1. SEE SHEET E-1 FOR NOTES AND LEGEND.
 2. SEE SHEETS E-6 AND E-7 FOR TRAFFIC SIGNAL INFORMATION.



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		82	103

Bryan J. Hill
 REGISTERED CIVIL ENGINEER
 4/30/04

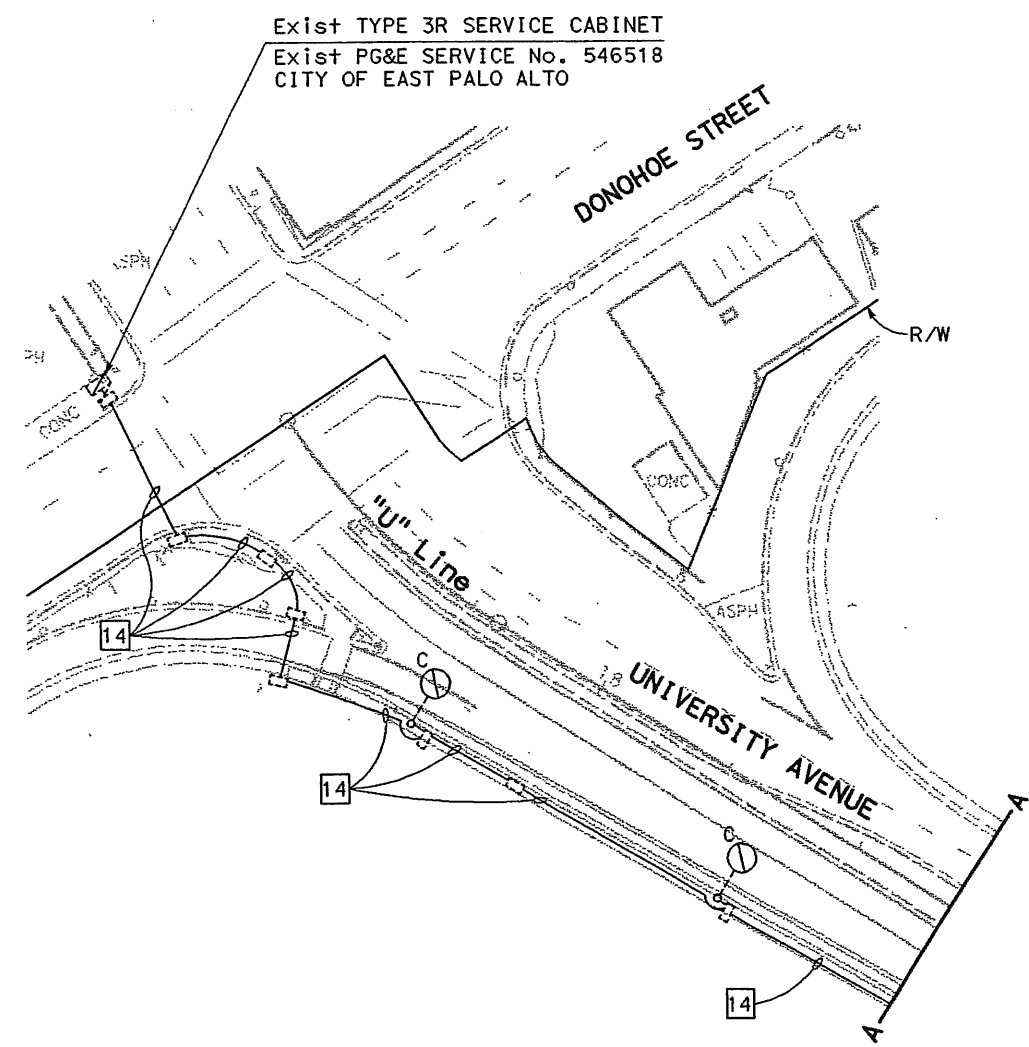
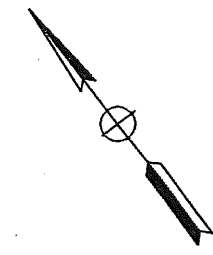


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 EAST PALO ALTO, CA 94303

CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612



CALIFORNIA DEPARTMENT OF TRANSPORTATION
 APPROVED FOR ELECTRICAL FEATURES AFFECTING STATE FACILITIES DATE

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
LIGHTING (CITY STREET)

SCALE: 1:500



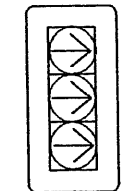
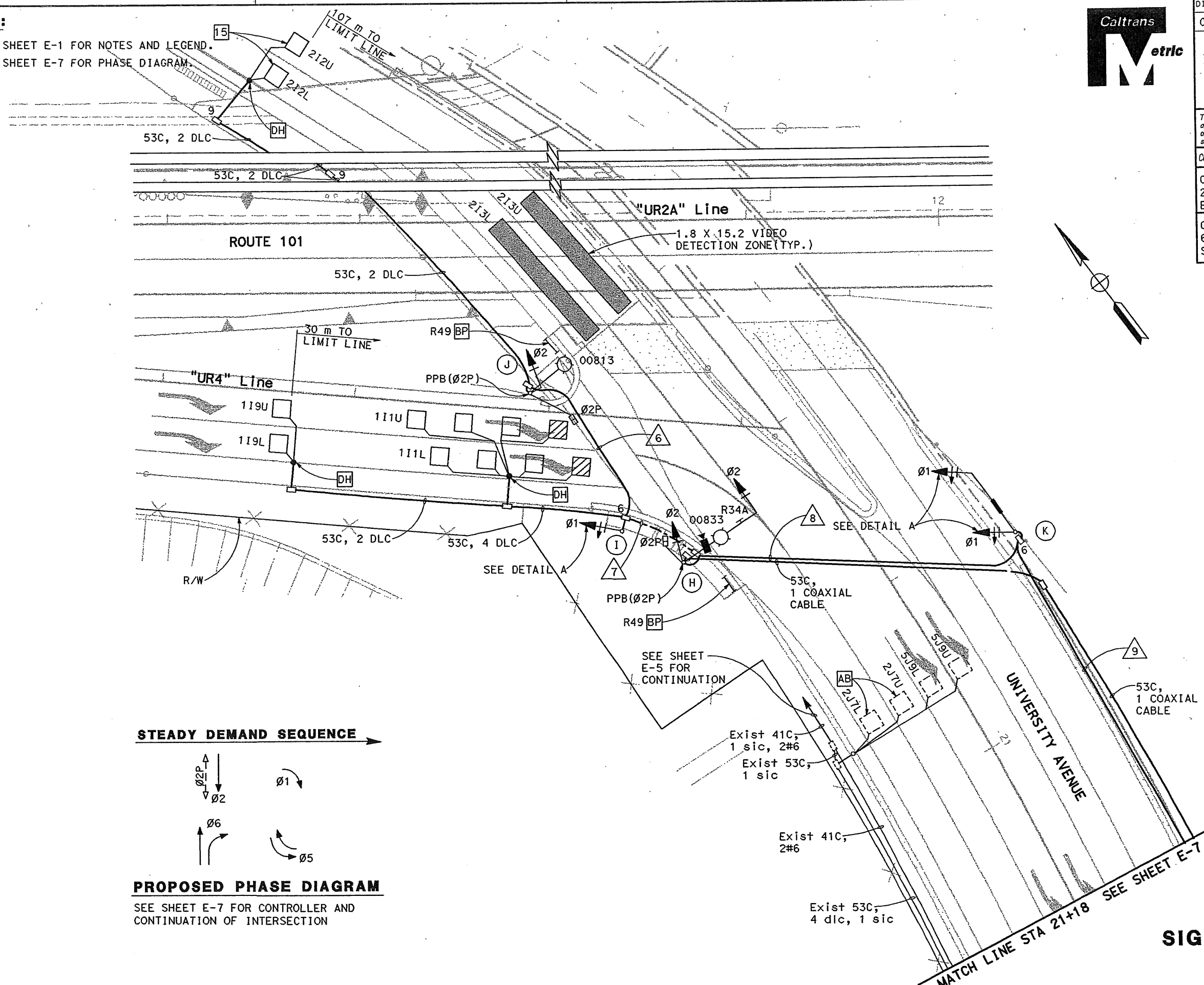
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	83	103

REGISTERED CIVIL ENGINEER
 4/30/04
 No. C063058
 Exp. 6/30/06
 CIVIL
 STATE OF CALIFORNIA

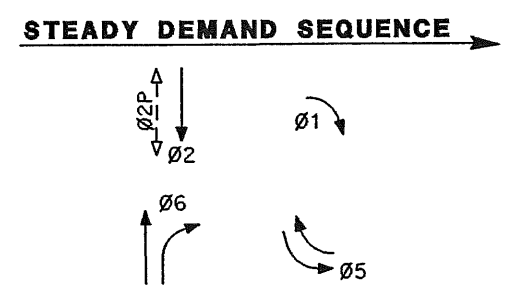
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 2200 UNIVERSITY AVENUE
 EAST PALO ALTO, CA 94303
 CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612

NOTES:
 1. SEE SHEET E-1 FOR NOTES AND LEGEND.
 2. SEE SHEET E-7 FOR PHASE DIAGRAM.



300 mm RED, YELLOW AND GREEN
 RIGHT ARROW SECTIONS.
 SIGNAL HEAD
DETAIL A



PROPOSED PHASE DIAGRAM
 SEE SHEET E-7 FOR CONTROLLER AND CONTINUATION OF INTERSECTION

ALL DIMENSIONS ARE IN METERS
 UNLESS OTHERWISE SHOWN

SIGNAL AND LIGHTING
 SCALE: 1:200

DESIGN OVERSIGHT
 RAMONA TAITANO LOUGHRAN

DESIGNED BY
 SLL

CHECKED BY
 WCS

REVISOR
 DATE

REVISIONS

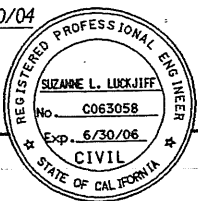
CALIFORNIA DEPARTMENT OF TRANSPORTATION
 APPROVED _____
 FOR ELECTRICAL FEATURES AFFECTING STATE FACILITIES DATE _____

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	84	103

REGISTERED CIVIL ENGINEER
 S. J. ... 4/30/04
 No. C063058
 Exp. 6/30/06
 CIVIL
 STATE OF CALIFORNIA

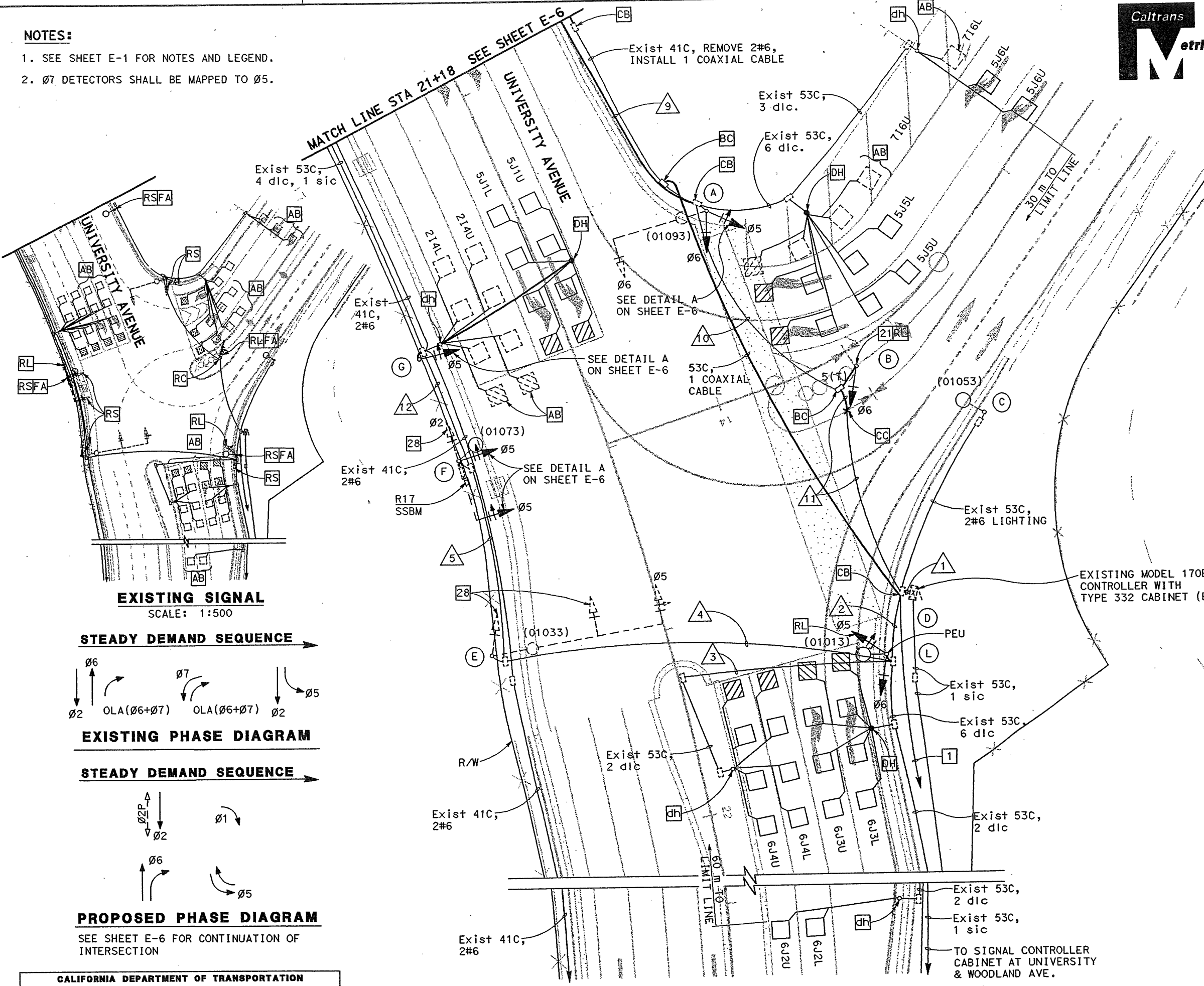


NOTES:
 1. SEE SHEET E-1 FOR NOTES AND LEGEND.
 2. Ø7 DETECTORS SHALL BE MAPPED TO Ø5.

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 2200 UNIVERSITY AVENUE
 EAST PALO ALTO, CA 94303
 CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612

DATE REVISED BY
 12/03 SLL
 12/03 WCS
 DATE REVISED
 DESIGN OVERSIGHT
 RAMONA TAITANO LOUGHRAN
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA
 APPROVED FOR ELECTRICAL FEATURES AFFECTING STATE FACILITIES DATE



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN
SIGNAL AND LIGHTING
 SCALE: 1:200



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	85	103

REGISTERED CIVIL ENGINEER
 4/30/04
 SUZANNE L. LUCKJIFF
 No. C063058
 Exp. 5/30/06
 CIVIL
 STATE OF CALIFORNIA

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 2200 UNIVERSITY AVENUE
 EAST PALO ALTO, CA 94303
 CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612

CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS												
	RUN NUMBER												
	1	2	3	4	5	6	7	8	9	10	11	12	13
No. 14 CONDUCTORS													
Ø1	(3)						(3)	(3)	(3)	(3)	(3)		
Ø2	(3)					(3)	(3)	(3)	(3)	(3)	(3)		
Ø5	3	3		3									
Ø6	6	3								3	3		
OLA (Ø1+Ø2)	3	3		3									
Ø5	6	3		3	3					3	3	3	
Ø2P	(2)					(2)	(2)	(2)	(2)	(2)			
PPB (Ø2P)	(1)					(1)	(1)	(1)	(1)	(1)			
PPB NEUTRAL	(1)					(1)	(1)	(1)	(1)	(1)			
PEU		3											
VIDEO POWER	(2)					(2)	(2)	(2)	(2)	(2)			
SPARES	(6)	(3)		(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	
TOTAL No. 14	36	18		12	6	12	15	15	15	21	17	9	
No. 10 CONDUCTORS													
IISNS		2		2	2				(2)	(2)	(2)	(2)	
TOTAL No. 10		2		2	2				2	2	2	2	
No. 6 CONDUCTORS													
LUMINAIRE		2		2	2	(2)	(2)	(2)	(2)	2	2	(2)	
SIGNAL COMMON (120 V)	2	1		1	1	(1)	(1)	(1)	(1)	1	1	(1)	
SERVICE (120 V)	2												
TOTAL No. 6	4	3		3	3	3	3	3	3	3	3	3	
DETECTOR LEAD-IN CABLES(DLC)													
1I1U/1I1L	(2)					(2)	(2)	(2)	(2)	(2)			
1I9U/1I9L	(2)					(2)	(2)	(2)	(2)	(2)			
2I2L/2I2U	(2)					(2)	(2)	(2)	(2)	(2)			
2I4U/2I4L	2	2		2	2							2	
2J7U/2J7L	2	2		2	2							2	
5J1U	1	1		1	1							1	
5J1L	1	1		1	1							1	
5J9U/5J9L	2	2		2	2							2	
6J2U	1	1											
6J2L	1	1											
6J3L	1	1											
6J3U	1	1											
6J4L	1	1	1										
6J4U	1	1	1										
5J5L	1									1	1		
5J5U	1									1	1		
5J6L	1									1	1		
5J6U	1									1	1		
7I6U	1									1	1		
7I6L	1									1	1		
TOTAL DETECTOR CABLES	26	14	2	8	8	2	6	6	6	12	12	9	
COAXIAL CABLE	(1)												
SIGNAL INTERCONNECT CABLE	1	1		1	1							1	
CONDUIT SIZE (mm)		78	53	78	78	(78)	(78)	(78)	(78)	78	78	53	

○ NEW CONDUCTORS, CABLES OR CONDUIT.

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD		VEH. SIGNAL MOUNTING		PED SIGNAL MOUNTING	PPB Ø	HPS LUMINAIRE (WATTS)	IISNS	SPECIAL REQUIREMENT*
	TYPE	SIG. MA (m)	LUM. MA (m)	MAST ARM					
(A)	24-3-129	10.7	4.6	MAS	SV-2-T		200		REMOVE AND REPLACE SIGNAL HEADS AS SHOWN ON THE PLANS.
(B)	1-B (N)				TV-1-T (R)				
(C)	15		3.7				310		EXISTING EQUIPMENT TO REMAIN.
(D)	15		4.6		SV-2-T (R)		200 (R)		REMOVE AND SALVAGE POLE. RELOCATE EQUIPMENT TO POLE L AS SHOWN ON THE PLANS.
(E)	61-5-129	18.2	3.7	MAS MAS	SV-1-T		200		EXISTING POLE TO REMAIN, MODIFY EQUIPMENT MOUNTING FROM SV-2-T TO SV-1-T.
(F)	17-3-129	6.1	4.6	MAS	SV-2-T		200	University Ave	INSTALL R17 ON SIGNAL MAST ARM.
(G)	18-1-129 (N)	-	-		TV-1-T				MOUNT SIGNAL HEAD AT 5.2m.
(H)	19-4-129 (N)	9.1	4.6	MAS	SV-1-T (N)	SP-1-T (N)	200 (N)		INSTALL R34A ON SIGNAL MAST ARM. INSTALL VIDEO DETECTION CAMERA ON SIGNAL MAST ARM. PROVIDE SEPARATE CONDUIT STUB AND RISER FOR COAXIAL CABLE.
(I)	1-B (N)				TV-1-T (N)				
(J)	18-1-129 (N)	-	4.6		SV-1-T (N)	SP-1-T (N)	200 (N)		MOUNT SIGNAL HEAD 0.6m FROM POLE OUT TOWARD TRAVEL LANE.
(K)	17-3-129 (N)	6.1		MAS	SV-1-T (N)			University Ave (N)	
(L)	18-1-129 (N)	-	4.6		SV-2-T (N)		200 (N)		

ALL POLES AND EQUIPMENT ARE EXISTING, UNLESS OTHERWISE NOTED.
 * OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN MOUNTING. SEE STANDARD PLANS.
 (N) NEW POLE AND/OR EQUIPMENT
 (R) RELOCATE POLE AND/OR EQUIPMENT

SIGNAL AND LIGHTING (POLE, CONDUCTOR AND EQUIPMENT SCHEDULES)

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Ramona Taitano Loughran
 DESIGN OVERSIGHT
 CALCULATED/DESIGNED BY SLL 12/03
 CHECKED BY WCS 12/03
 DATE REVISIED BY _____ DATE REVISIED _____

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN OVERSIGHT
 RAMONA TAITANO LOUGHRAN
 CALCULATED/DESIGNED BY SLL 12/03
 CHECKED BY WCS 12/03
 DATE REVISIED BY
 DATE REVISIED



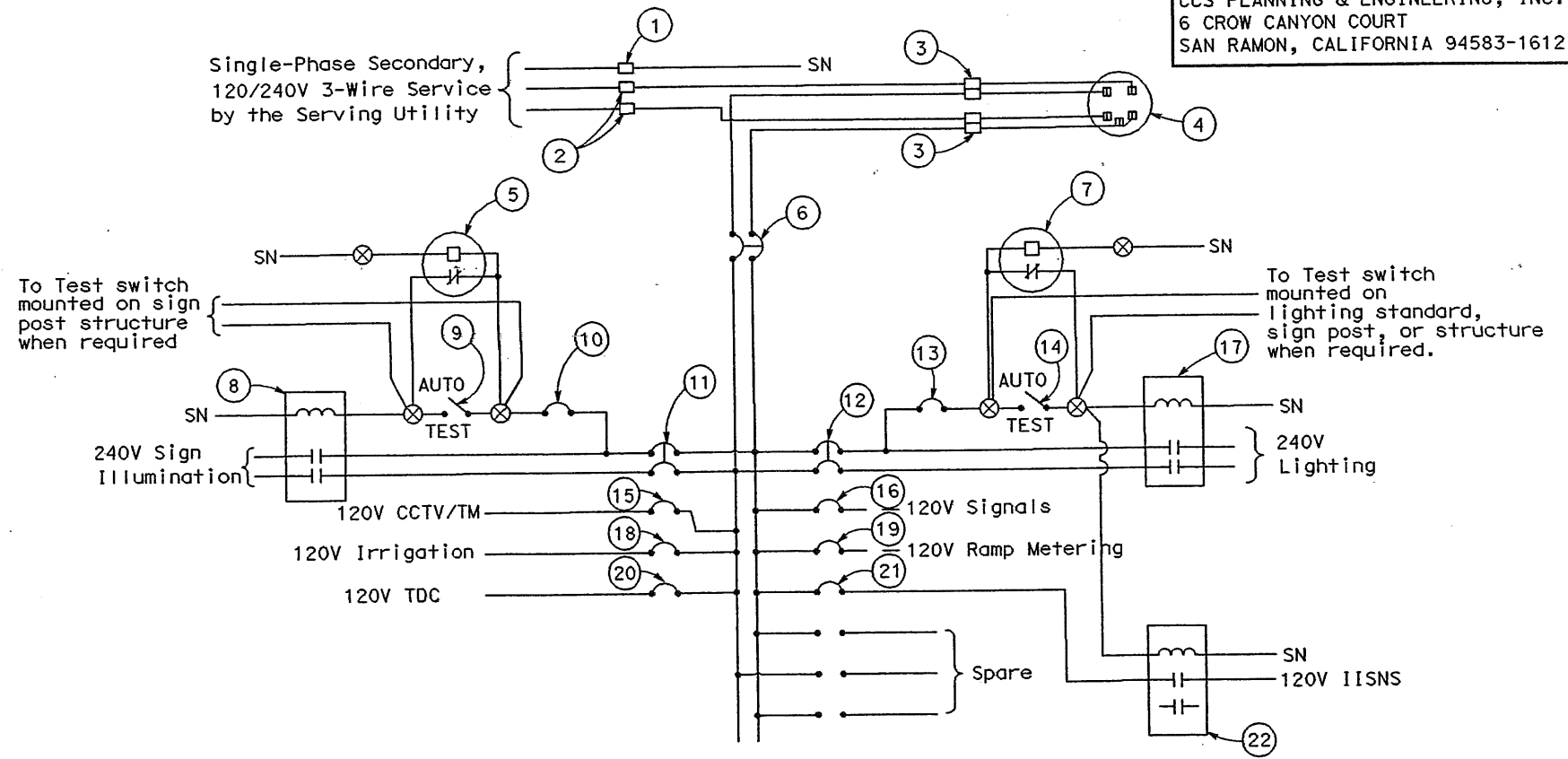
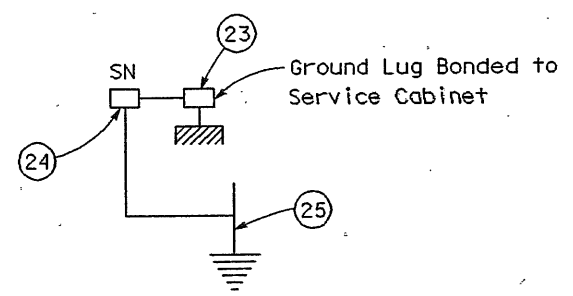
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST No	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		86	103

REGISTERED CIVIL ENGINEER
 4/30/04
 PLANS APPROVAL DATE
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 CITY OF EAST PALO ALTO
 2200 UNIVERSITY AVENUE
 EAST PALO ALTO, CA 94303
 CCS PLANNING & ENGINEERING, INC.
 6 CROW CANYON COURT
 SAN RAMON, CALIFORNIA 94583-1612

TYPE III-A SERVICE (120/240V) EQUIPMENT LEGEND		
ITEM NO	COMPONENT	NAME PLATE DESCRIPTION
①	Neutral Lug	
②	Landing Lug	
③	Test Bypass Facilities	
④	Meter Socket and Support	
⑤	Photoelectric unit	
⑥	100A, 240V, 2P, CB	Main Breaker
⑦	Photoelectric unit	
⑧	30A, 2PNO, Contactor	Sign Illumination
⑨	15A, 1P, Test Switch	Sign Illumination Test Switch
⑩	15A, 120V, 1P, CB	Sign Illumination Control
⑪	30A, 240V, 2P, CB	Sign Illumination
⑫	30A, 240V, 2P, CB	Lighting
⑬	15A, 120V, 1P, CB	Lighting Control
⑭	15A, 1P, Test Switch	Lighting Control Test Switch
⑮	30A, 120V, 1P, CB	CCTV/TM Control
⑯	50A, 120V, 1P, CB	Signal
⑰	30A, 2PNO, Contactor	Lighting
⑱	20A, 120V, 1P, CB	Irrigation
⑲	30A, 120V, 1P, CB	Ramp Metering
⑳	15A, 120V, 1P, CB	Telephone Demacration Cabinet
㉑	15A, 120V, 1P, CB	IISNS
㉒	30A, 2PNO, Contactor	IISNS
㉓	Ground Lug	
㉔	Solid Neutral Terminal Strip	
㉕	Ground Rod	

ABBREVIATIONS & LEGEND

P	Pole	---	External Conductor
CB	Circuit Breaker	—	Conductor or Bus
A	Ampere	—•—	Tie Point
V	Volt	—○—	Conductor Coil
M	Metered	— —	Contactor, Contact NO
UM	Unmetered	— —	Contactor, Contact NC
SN	Solid Neutral	⊗	Terminal Block
NO	Normally Open	— —	Contactor, Contact NC
NC	Normally Closed	— —	Contactor, Contact NC
		▨	Enclosure
		⏏	Ground



120/240V TYPE III-A SERVICE
WIRING DIAGRAM (TYPICAL)
SEE ALSO ES-2C AND ES-2D FOR
OTHER NOTES AND DETAILS

NOTES: (FOR SERVICE EQUIPMENT)

1. Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
2. Unless otherwise indicated on the plans, all service equipment items shall be provided for each service equipment enclosure as shown.
3. Item No. ① and ② shall be insulated from the cabinet.
4. Meter sockets shall be 5 Clip Type.

ELECTRICAL DETAILS
NO SCALE

CALIFORNIA DEPARTMENT OF TRANSPORTATION
 APPROVED _____
 FOR ELECTRICAL FEATURES AFFECTING STATE FACILITIES DATE _____

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	67	103

Odeon M. LI 12/19/03
 REGISTERED CIVIL ENGINEER
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

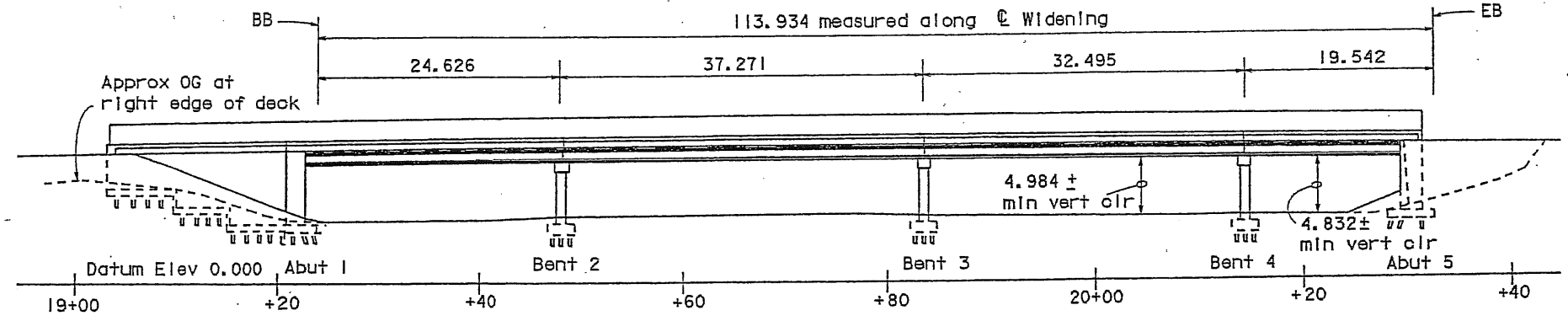
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City of East Palo Alto
 2200 University Ave
 East Palo Alto, CA 94303

CCS Planning and Engineering, Inc.
 6 Crow Canyon Court
 San Ramon, CA 94583-1621

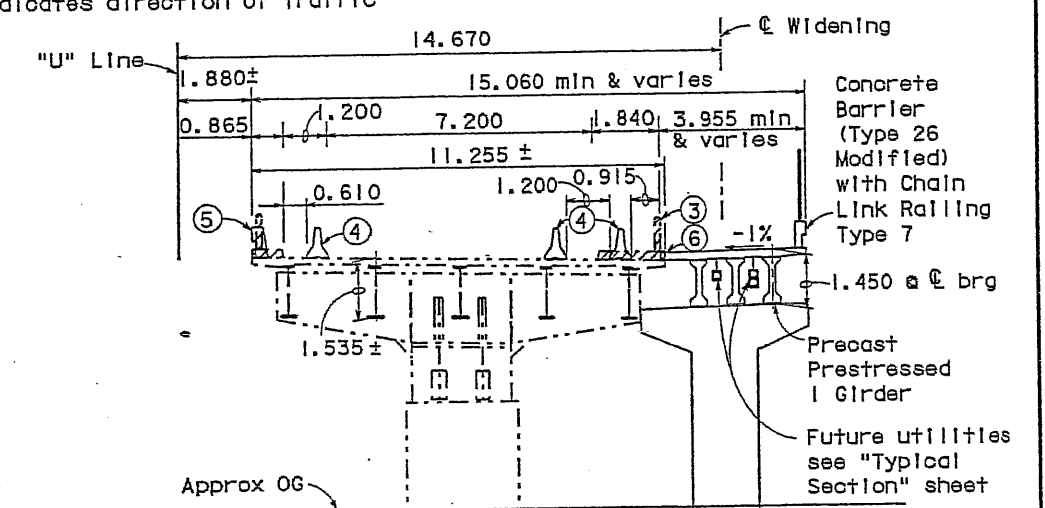
- Legend**
- ① Paint "University Avenue Overcrossing"
 - ② Paint "Bridge No. 35-0113"
 - ③ Remove existing Concrete Railing
 - ④ Temporary Railing (Type K)
 - ⑤ Remove existing Concrete Railing and replace with Concrete Barrier Type 732
 - ⑥ Type AL Seal
 - Indicates existing structure
 - ⊙ Indicates Point of Minimum Vertical Clearance
 - ▨ Indicates Bridge Removal (Portion)
 - ➔ Indicates direction of traffic

Profile Grade to match existing structure.

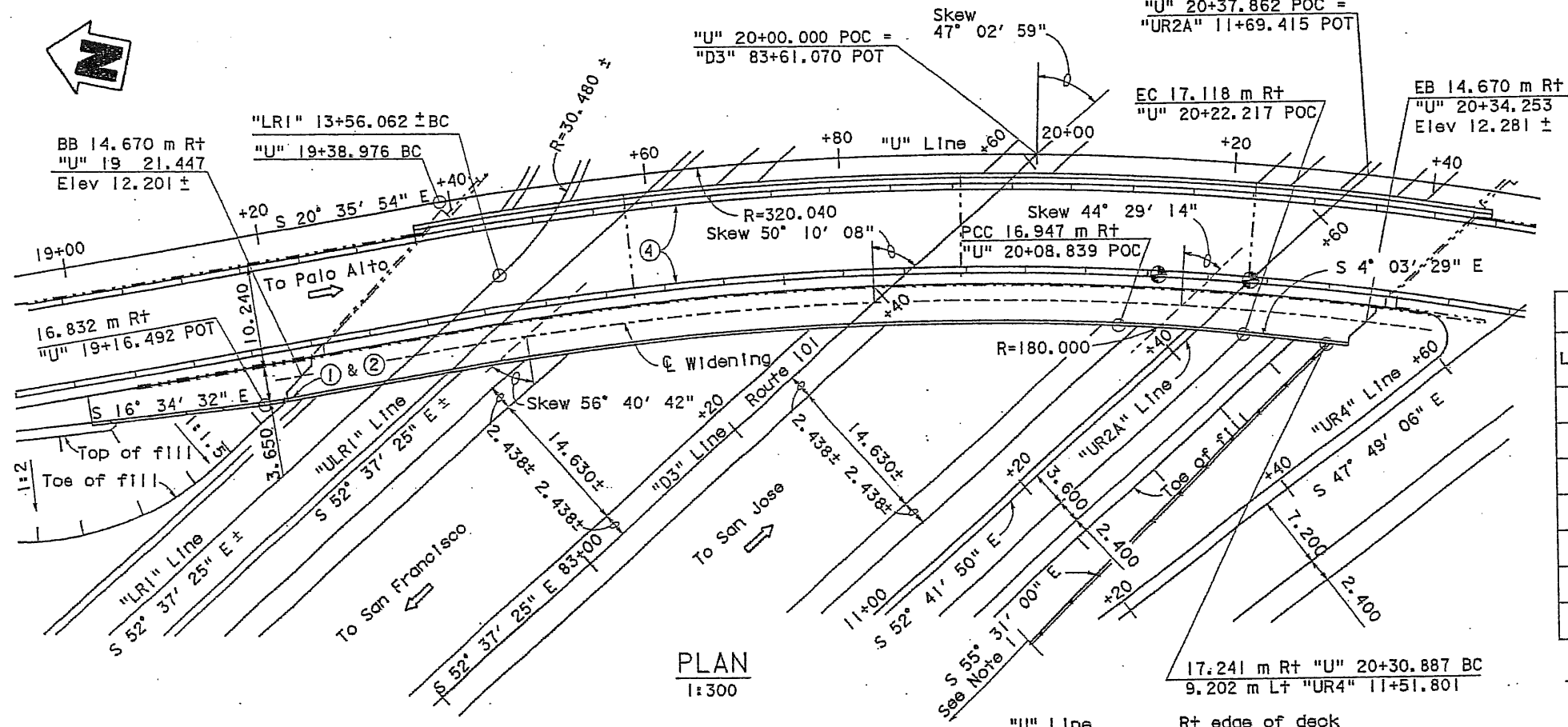


DEVELOPED ELEVATION
1:300

Notes:
 1. For Retaining Wall A5, see "Retaining Wall A5" Sheet.
 2. For Index to Plans, Standard Plans List, General Notes and Quantities see "Index to Plans" sheet.



TYPICAL SECTION
1:100



PLAN
1:300

PILE DATA TABLE

Location	Pile Type	Design Loading	Nominal Resistance		Design Tip Elev (m)	Specified Tip Elev (m)
			Comp	Tension		
Abut 1	Class 625 (A1+ "X") (355 mm Conc.)	625 KN	1250 KN	0	-13.5(1)+(4); -5.7(3)	-13.5
Bent 2	Class 900 (A1+ "W") (PP 406x12.70)	900 KN	1800 KN	900 KN	-18.6(1)+(4); -13.9(2); -5.6(3)	-18.6
Bent 3	Class 900 (A1+ "W") (PP 406x12.70)	900 KN	1800 KN	900 KN	-18.6(1)+(4); -13.9(2); -5.6(3)	-18.6
Bent 4	Class 900 (A1+ "W") (PP 406x12.70)	900 KN	1800 KN	900 KN	-18.9(1)+(4); -14.2(2); -5.6(3)	-18.9
Abut 5	Class 625 (A1+ "X") (355 mm Conc.)	625 KN	1250 KN	0	-10.7(1); -5.4(3)	-10.7
Ret Wall A1	Class 400 (A1+ "X") (355 mm Conc.)	400 KN	800 KN	0	-7.8(1)+(4)	-7.8
Ret Wall A5	Class 400 (A1+ "X") (355 mm Conc.)	400 KN	800 KN	0	-6.2(1)	-6.2

Notes: Design Tip Elevation is controlled by the following demands: (1) Compression, (2) Tension, (3) Lateral Load, (4) Liquefaction potential exists from Elev. 0 to 1.5 m at Abut 1 and Bent 2 to Bent 4. For Abut 1 and bent piles, the estimated down drag load is 71 KN per pile.

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

DESIGN OVERSIGHT 12/16/03 SIGN OFF DATE	DESIGN	BY Eng Yeong	CHECKED Odeon M. LI	LOAD FACTOR DESIGN	LIVE LOADING: 4.07 kPa and HS20-44	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 35-0113	UNIVERSITY AVE OVERCROSSING(WIDEN) GENERAL PLAN
	DETAILS	BY Eng Yeong	CHECKED Odeon M. LI	LAYOUT	BY Odeon M. LI		PROJECT ENGINEER Odeon M. LI	
	QUANTITIES	BY Eng Yeong	CHECKED Odeon M. LI	SPECIFICATIONS	BY Odeon M. LI			

DATE PLOTTED -> 11-DEC-2003 TIME PLOTTED -> 14:17

**GENERAL NOTES
LOAD FACTOR DESIGN**

DESIGN: BRIDGE DESIGN SPECIFICATIONS April 2000 LFD Version (1983 AASHTO with Interims and Revisions by Caltrans)

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.2 December 2001

LIVE LOADING: Per Caltrans Bridge Design Specifications LFD Version April 2000 Section 3.14.1.3 4.07 kPa (85 psf) and check for girder ultimate strength with HS20-44

SEISMIC LOADING: ARS Design Curve-Modified SDC curve as per Caltrans guidelines Fig B.9 (SDC Ver. 1.2), Mw=8.0, Peak Rock Accel=0.5g, with following modifications: 1) 20% increase of Sa for structural period > 1 sec, 2) no change in Sa for structural period < 0.5 sec, 3) linear interpolation of Sa between 0.5 and 1 second.

REINFORCED CONCRETE: $f_y = 415$ MPa
 $f_c' = 25$ MPa
See "Concrete Strength and Type Limit" transverse deck slab (Working Stress Design)
 $f_s = 140$ MPa
 $f_c = 8$ MPa
 $n = 10$

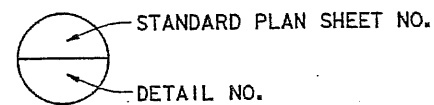
PRESTRESSED CONCRETE: See "Prestressing Notes" on "Prestressed I-Girder" sheet.

INDEX TO PLANS

Sheet No:	Title
1	General Plan
2	Index To Plans
3	Foundation Plan
4	Abutment 1 Layout
5	Abutment 5 Layout
6	Abutment Details No. 1
7	Abutment Details No. 2
8	Retaining Wall A1
9	Retaining Wall A5
10	Bent Details
11	Typical Section
12	Girder Layout No. 1
13	Girder Layout No. 2
14	Prestressed I-Girder
15	Miscellaneous Details
16	Log of Test Borings 1 of 2
17	Log of Test Borings 2 of 2

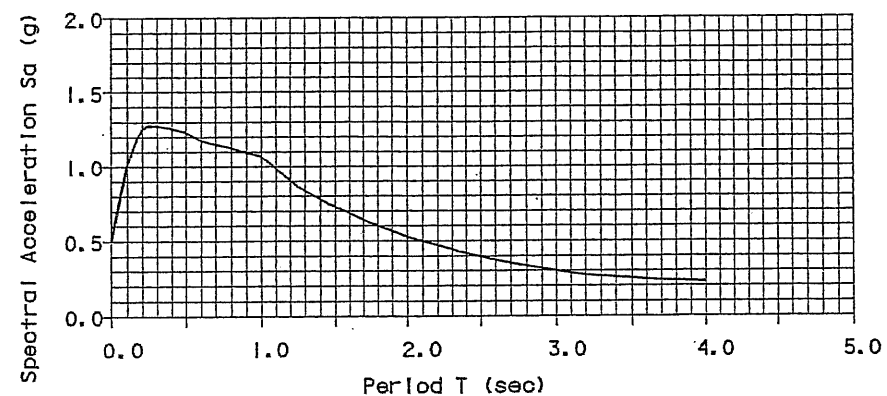
**STANDARD PLANS DATED JULY 1999
WITH ERRATUM NO. 99-1**

A10A	Abbreviations
A10B	Symbols
A62B	Limits of Payment for Excavation and Backfill - Bridge Surcharge and Wall
A62C	Limits of Payment for Excavation and Backfill - Bridge
B0-1	Bridge Details
B0-3	Bridge Details
B0-5	Bridge Details
B0-13	Bridge Details
B2-5	Pile Details - Class 400 and Class 625
B2-8	Pile Details - Class 900 and Class 900C
B3-1	Retaining Wall Type 1 (H=1200 Through 9100 mm)
B3-8	Retaining Wall Details No. 1
B6-10	Utility Openings T-Beam
B6-21	Joint Seal (Maximum Movement Rating=50mm)
B11-52	Chain Link Railing Type 7
B11-54	Concrete Barrier Type 26
B11-55	Concrete Barrier Type 732

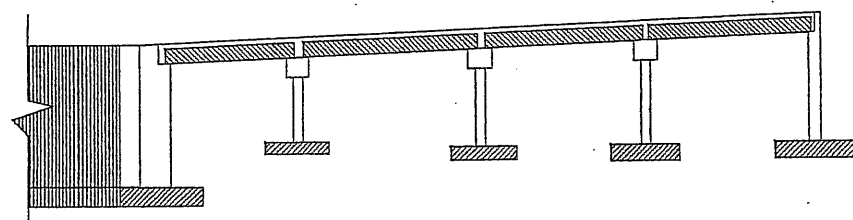


Legend:

- Structural Concrete, Bridge
- Structural Concrete, Bridge Footing
- Structural Concrete, Retaining Wall
- Structural Concrete, Precast Girders (see "Girder Layout No. 1" sheet)



**ARS DESIGN CURVE FOR
UNIVERSITY AVE. O.C.**
No Scale



CONCRETE STRENGTH AND TYPE LIMIT
No Scale



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	88	103

Odeon M. LI 12/15/03
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

Odeon M. LI
No. 31895
Exp. 12-31-04
REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA

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6 Crow Canyon Court
San Ramon, CA 94583-1621

QUANTITIES

	LUMP	SUM
BRIDGE REMOVAL (PORTION)	313	M3
STRUCTURE EXCAVATION (BRIDGE)	727	M3
STRUCTURE EXCAVATION (RETAINING WALL)	332	M3
STRUCTURE BACKFILL (BRIDGE)	1199	M3
STRUCTURE BACKFILL (RETAINING WALL)	690	M
FURNISH PILING (CLASS 900) (ALTERNATIVE W)	30	EA
DRIVE PILE (CLASS 900) (ALTERNATIVE W)	435	M
FURNISH PILING (CLASS 625)	25	EA
DRIVE PILE (CLASS 625)	1320	M
FURNISH PILING (CLASS 400)	112	EA
DRIVE PILE (CLASS 400)	100	M3
STRUCTURAL CONCRETE, BRIDGE FOOTING	245	M3
STRUCTURAL CONCRETE, BRIDGE	407	M3
STRUCTURAL CONCRETE, RETAINING WALL	47	M
DRILL AND BOND DOWEL	2	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (15 M - 20 M)	2	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (20 M - 25 M)	3	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (25 M - 30 M)	3	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (30 M - 35 M)	10	EA
ERECT PRECAST PRESTRESSED CONCRETE GIRDER	328	M2
REFINISH BRIDGE DECK	111	M
JOINT SEAL (TYPE A1)	19	M
JOINT SEAL (MR 30 MM)	11	M
JOINT SEAL (MR 15 MM)	52076	KG
BAR REINFORCING STEEL (BRIDGE)	38467	KG
BAR REINFORCING STEEL (RETAINING WALL)	402	M
200 MM WELDED STEEL PIPE (6.35 MM THICK)	109	M
CHAIN LINK RAILING (TYPE 7)	128	M
CONCRETE BARRIER (TYPE 26 MODIFIED)	195	M
CONCRETE BARRIER (TYPE 732)		

Note:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

All dimensions are shown in millimeters unless otherwise shown.

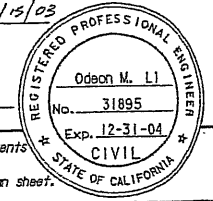
 DESIGN OVERSIGHT 12/16/03 SIGN OFF DATE	DESIGN	By Eng Yeong	CHECKED Odeon M. LI	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	35-0113	UNIVERSITY AVE OVERCROSSING (WIDEN) INDEX TO PLANS	
	DETAILS	By Eng Yeong	CHECKED Odeon M. LI		PROJECT ENGINEER	KILOMETER POST		1.43
	QUANTITIES	By Eng Yeong	CHECKED Odeon M. LI		CU 04245	REVISION DATES (PRELIMINARY STAGE ONLY)		
ORIGINAL SCALE IN MILLIMETERS				DISREGARD PRINTS BEARING EARLIER REVISION DATES				SHEET 2 OF 17

DATE PLOTTED => 12-DEC-2003 USERNAME => 11:23



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL
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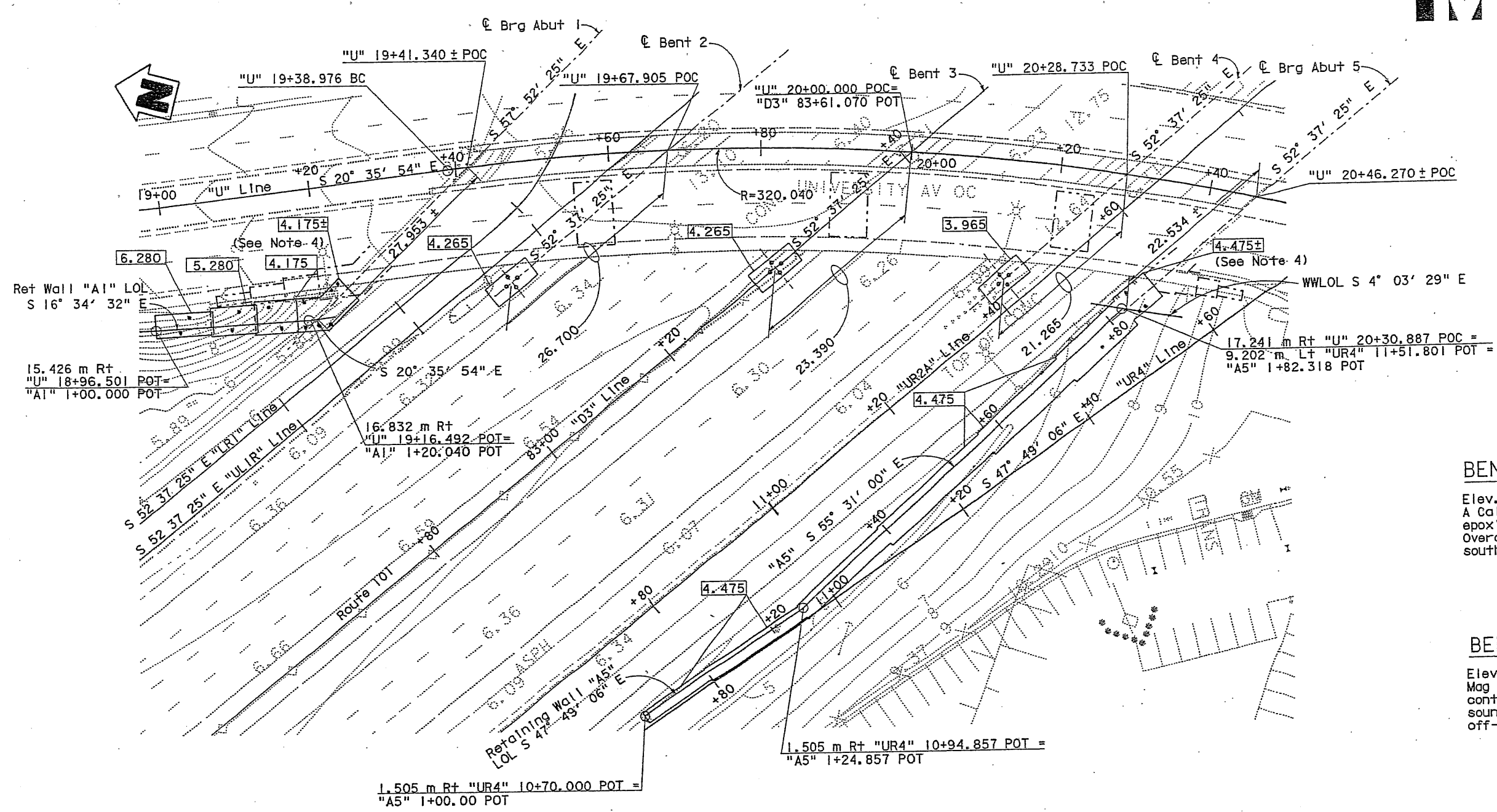
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REGISTERED CIVIL ENGINEER



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6 Crow Canyon Court
San Ramon, CA 94583-1621



FOUNDATION PLAN
1:300

- Notes:**
1. For Abutment 1 and 5 pile layout, see "Abutment 1 Layout" and "Abutment 5 Layout" sheets.
 2. For Bent 2, 3 and 4 pile layout, see "Bent Details" sheet.
 3. For Retaining wall pile layout, see "Retaining Wall A1" and "Retaining Wall A5" sheets.
 4. Match top of existing footing elevation.

- Legend:**
- 4.475 Indicates bottom of footing elevation.
 - • Indicates piles. Not all piles are shown.
 - Indicates existing structure.

BENCH MARK "AB 86"

Elev. 12.927 m
A California Division Highways Brass Disc epoxied into Easterly SW University Avenue Overcrossing, above lane line separating southbound lanes.

BENCH MARK "WILSEY HAM"

Elev. 6.162 m
Mag Nail and Washer stamped "WILSEY HAM" control point 3 ft ± Northerly of Southbound soundwall at the beginning of Southbound off-ramp.

Note:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN OVERSIGHT <i>[Signature]</i> 12-16-03	SCALE:	VERT. DATUM	HORZ. DATUM	DESIGN BY Eng Yeong	CHECKED Odeon M. Li	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	Odeon M. Li PROJECT ENGINEER	BRIDGE NO. 35-0113	UNIVERSITY AVE OVERCROSSING (WIDEN)
	PHOTOGRAMMETRY AS OF:	ALIGNMENT TIES	DRAFTED BY	DETAILS BY Eng Yeong	CHECKED Odeon M. Li			KILOMETER POST 1.43	
SIGN OFF DATE	FIELD CHECKED BY	CHECKED BY	QUANTITIES BY Eng Yeong	CHECKED Odeon M. Li	CHECKED Odeon M. Li	CU 04245 FA 272821	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 3 OF 17	

DATE PLOTTED → 11-DEC-2003 TIME PLOTTED → 14:52 USERNAME → 11



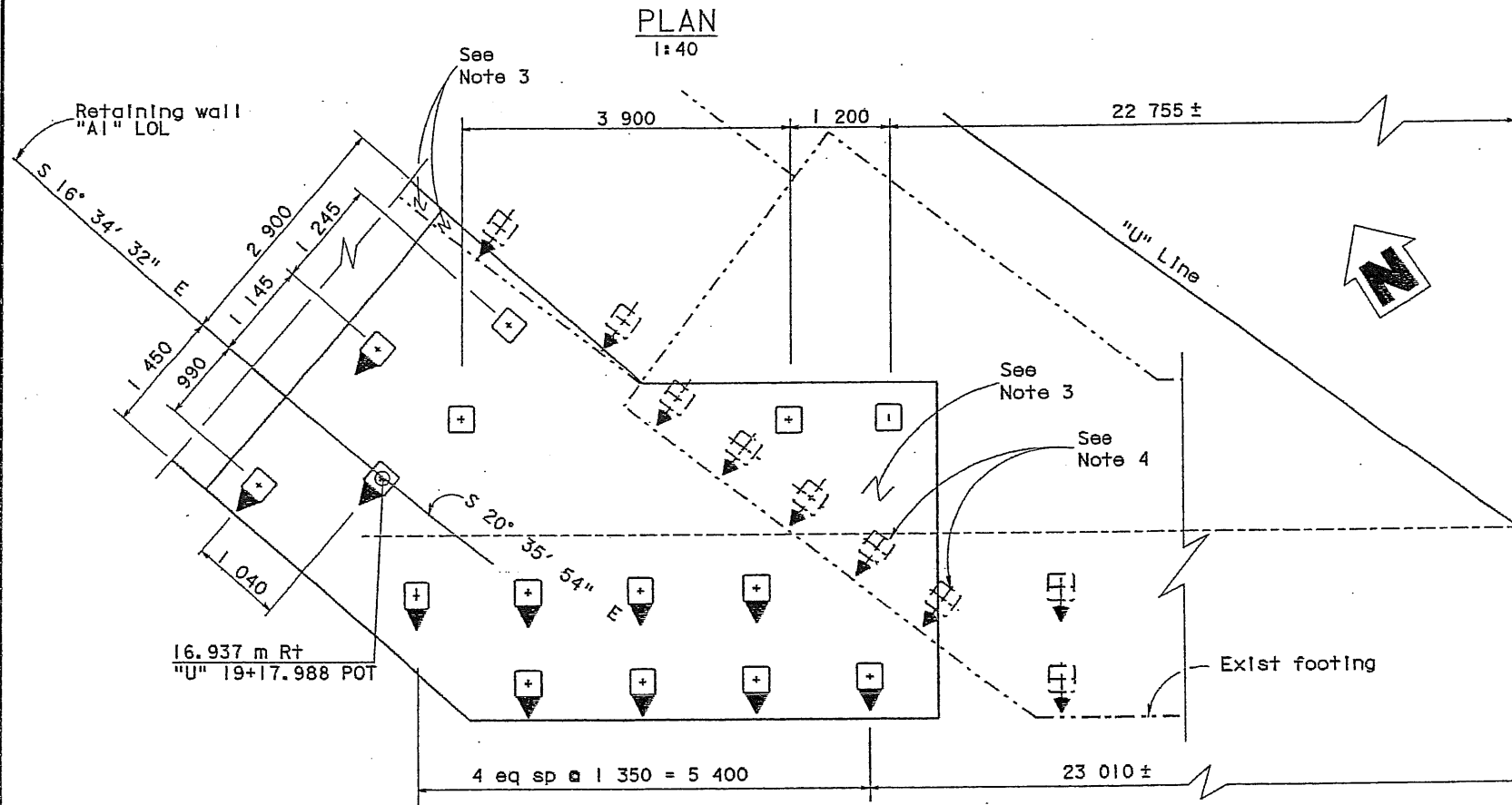
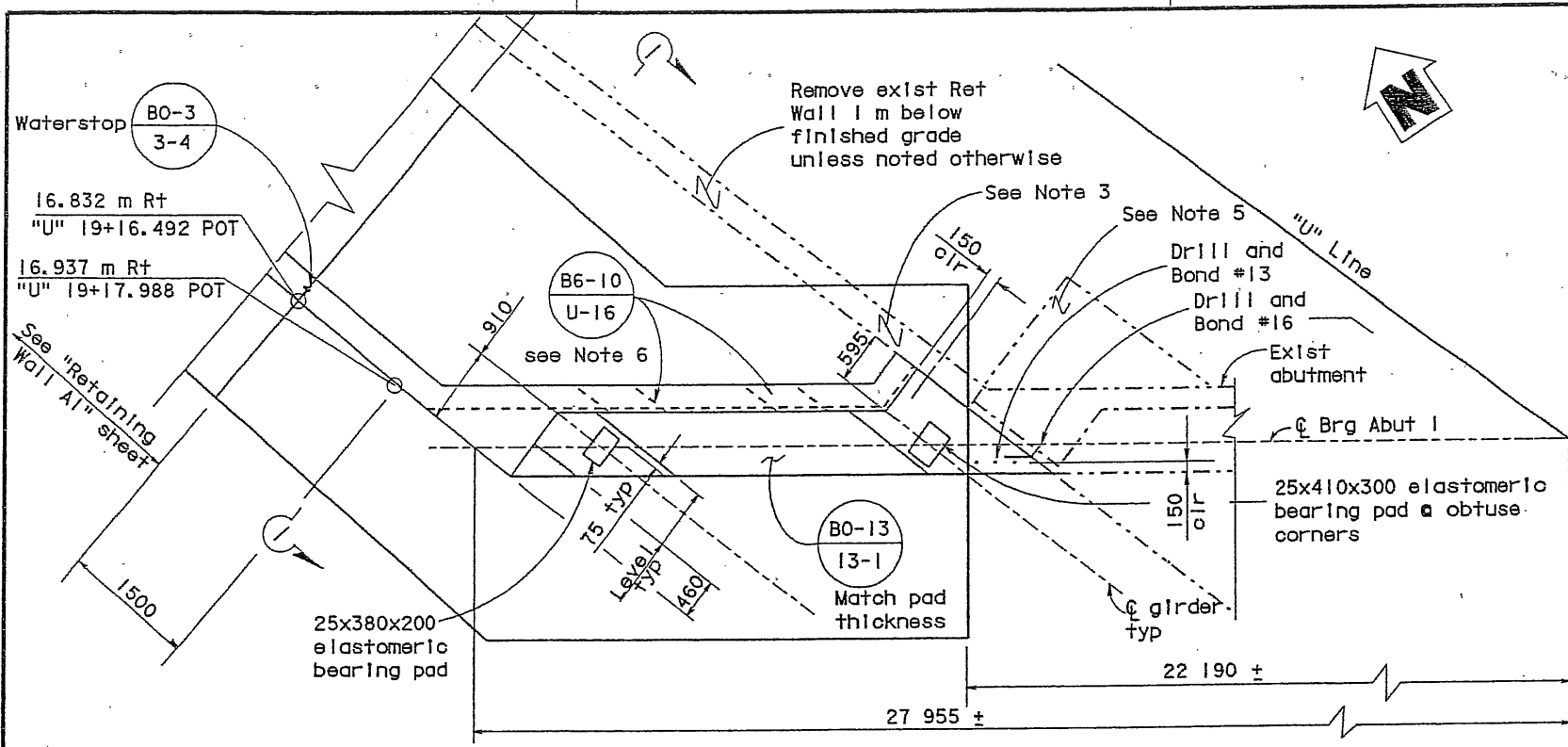
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2		90	103

Odeon M. LI 12/15/03
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 No. 31895
 Exp. 12-31-04
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 STATE OF CALIFORNIA

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 East Palo Alto, CA 94303

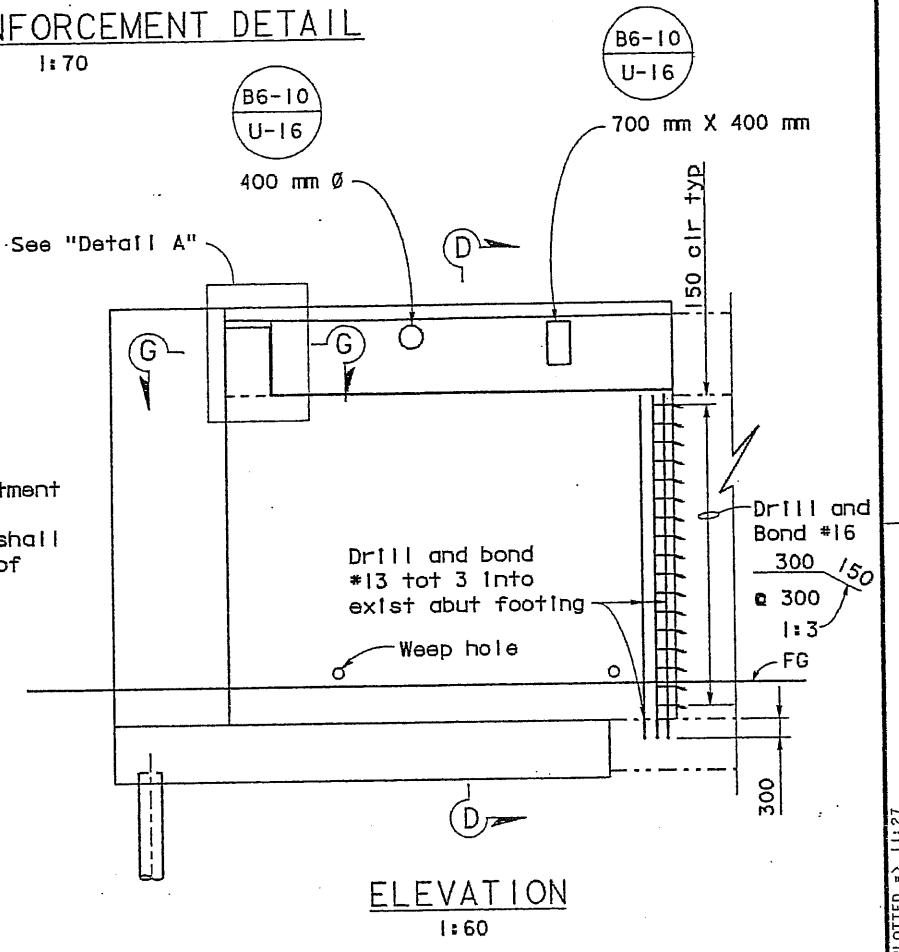
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 6 Crow Canyon Court
 San Ramon, CA 94583-1621



- Notes:**
- Concrete barrier and sidewalk not shown for clarity.
 - For Section I-I, see "Abutment Details No. 2" sheet.
 - Remove existing retaining wall stem and footing in conflict with new abutment footing.
 - Remove existing piles in conflict with new abutment footing 0.3 m below bottom of new footing and backfill hole with dry sand or pea gravel.
 - Remove existing sidewalk and abutment backwall 75 mm below finished grade, reconstruct abutment backwall to finished grade.
 - Steel casing not shown, casing shall extend to 10 m beyond the back of the abutment.

- Legend:**
- 1:3 Battered pile
 - Vertical pile
 - Exist battered pile
 - Exist footing
 - Indicates exist structure

FOOTING REINFORCEMENT DETAIL
1:70



- Notes:**
- For Section D-D and G-G and "Detail A", see "Abutment Details No. 1" sheet.
 - Not all piles are shown.
 - Barrier rail not shown for clarity.

Note:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN OVERSIGHT 12-16-03 SIGN OFF DATE	DESIGN BY Eng Yeong DETAILS BY Eng Yeong QUANTITIES BY Eng Yeong	CHECKED Odeon M. LI CHECKED Odeon M. LI CHECKED Odeon M. LI	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	Odeon M. LI PROJECT ENGINEER	BRIDGE NO. 35-0113 KILOMETER POST 1.43	UNIVERSITY AVE OVERCROSSING (WIDEN) ABUTMENT I LAYOUT	SHEET OF 4 17
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DATE PLOTTED => 12-DEC-2003 TIME PLOTTED => 11:27 SERNAME => 11

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	91	103

Odeon M. L.I.
 REGISTERED CIVIL ENGINEER
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

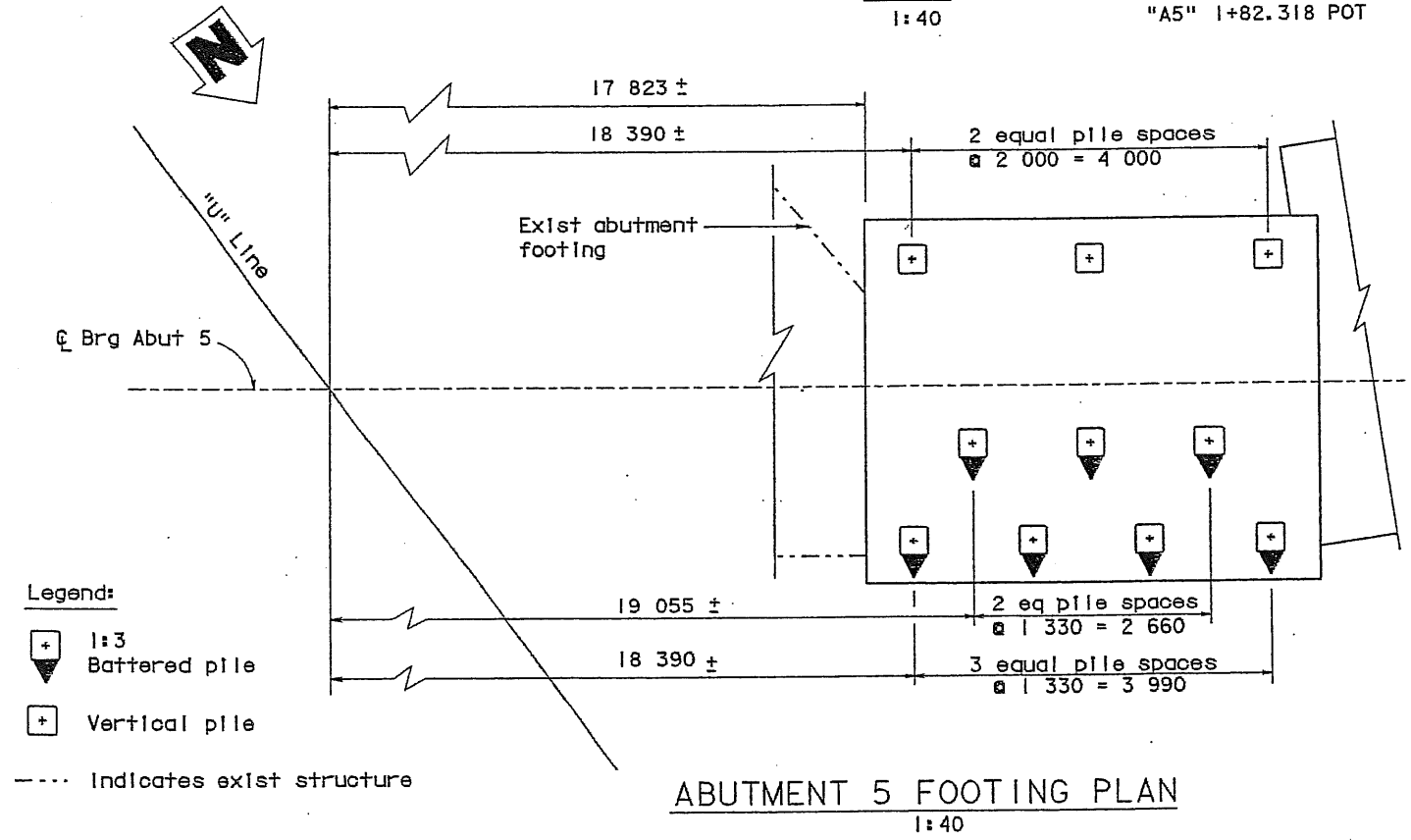
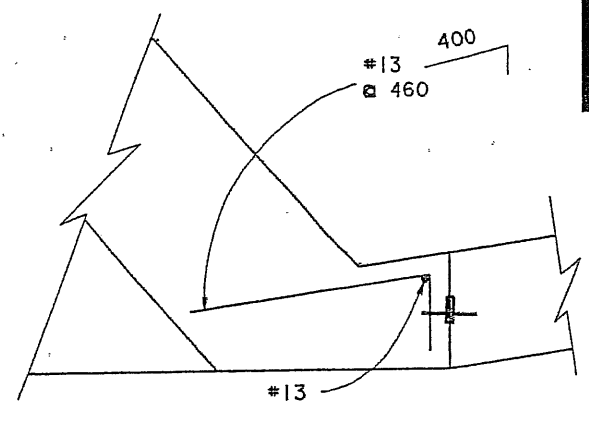
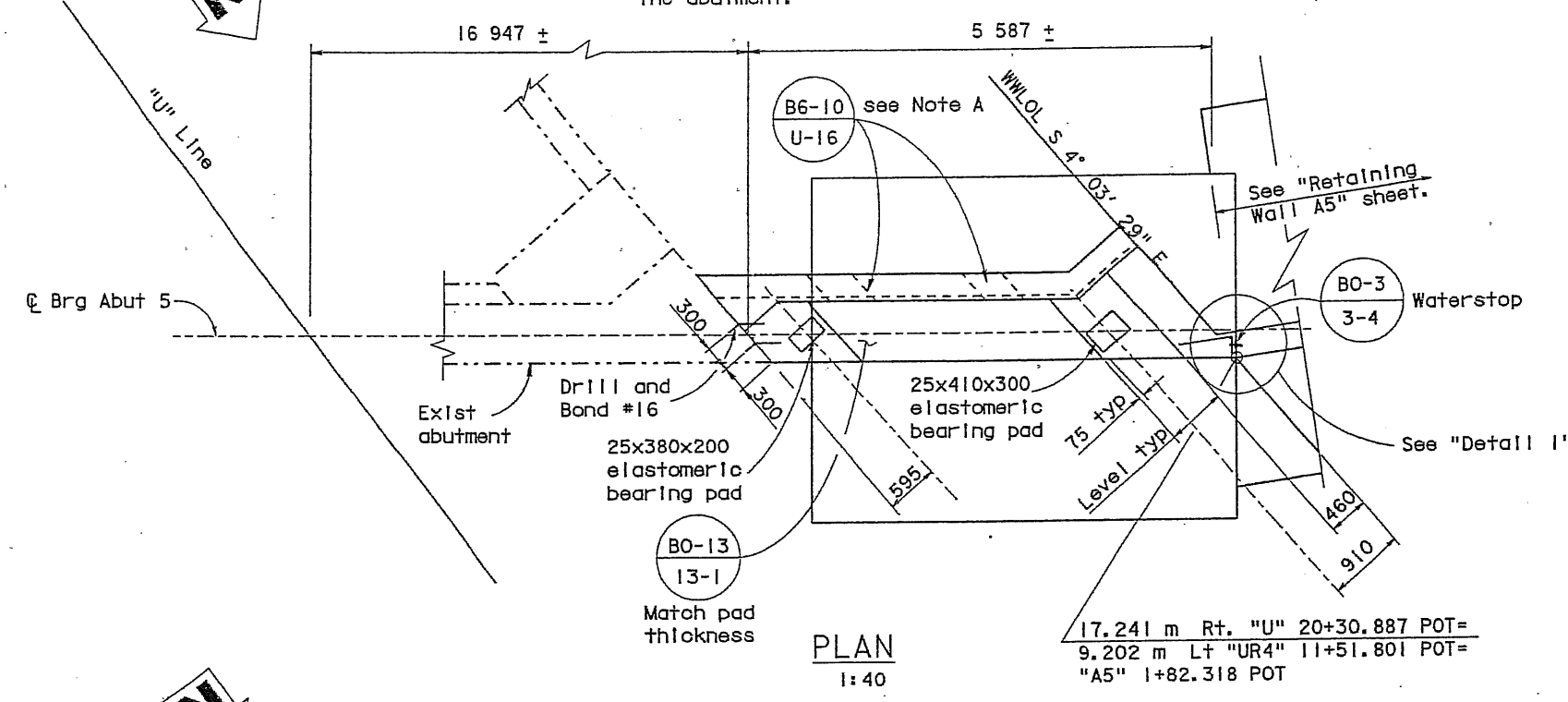
PLANS APPROVAL DATE
 12/15/03

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City of East Palo Alto
 2200 University Ave
 East Palo Alto, CA 94303

CCS Planning and Engineering, Inc.
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 San Ramon, CA 94583-1621

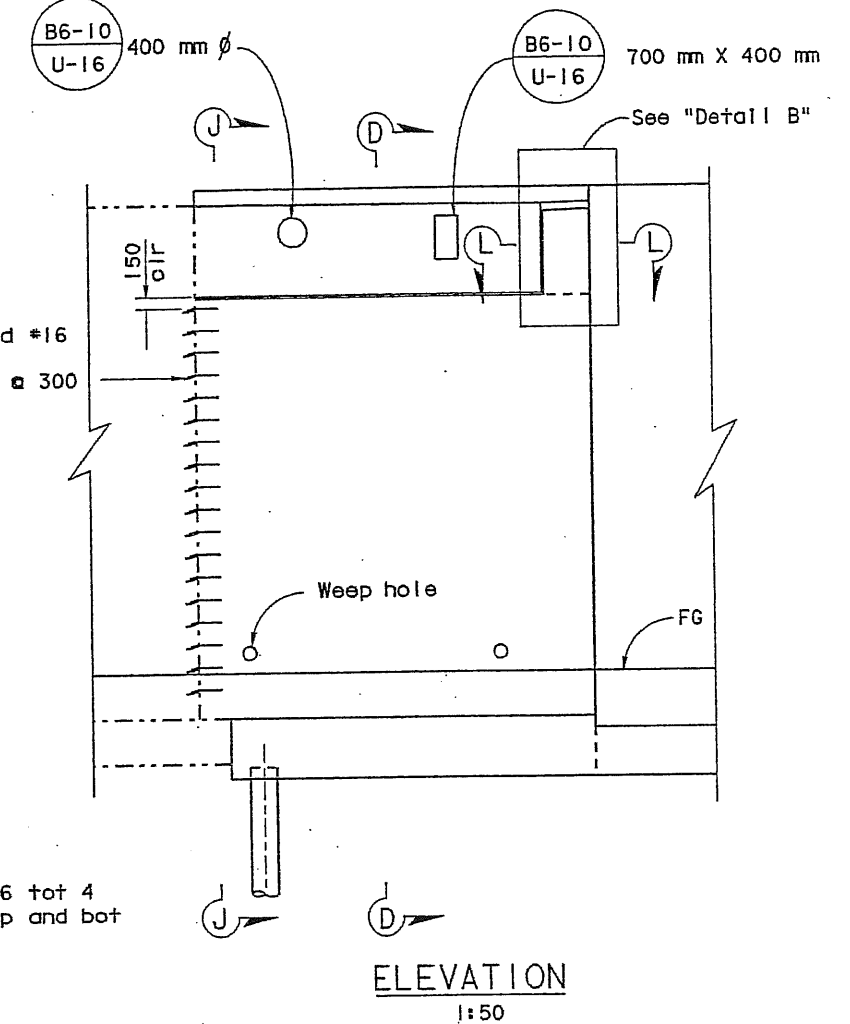
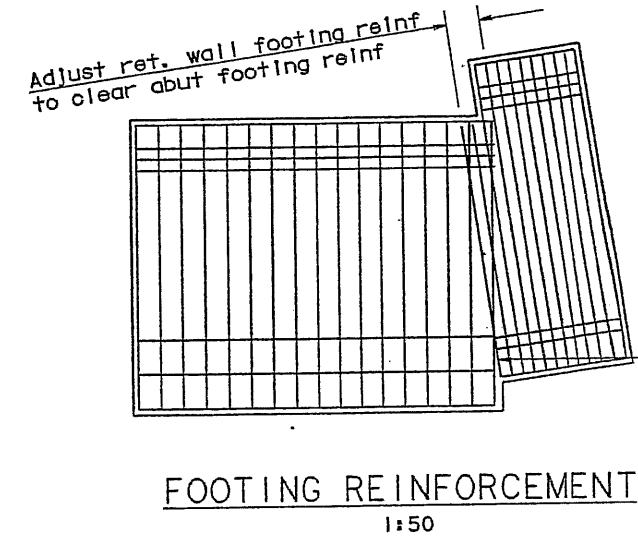
Note A:
Steel casing not shown, casing shall extend to 10 m beyond the back of the abutment.



Legend:

- ⊕ 1:3 Battered pile
- ⊕ Vertical pile
- Indicates exist structure

Notes:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.



- Notes:**
- For Section D-D, see "Abutment Details No. 1" sheet.
 - For Section J-J and L-L and "Detail B", see "Abutment Details No. 2" sheet.
 - Not all piles are shown.
 - Barrier rail not shown for clarity.

All dimensions are in millimeters unless otherwise shown.

DESIGN	BY Eng Yeong	CHECKED Odeon M. L.I.	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	35-0113	UNIVERSITY AVE OVERCROSSING (WIDEN) ABUTMENT 5 LAYOUT
DETAILS	BY Eng Yeong	CHECKED Odeon M. L.I.		KILOMETER POST	1.43	
QUANTITIES	BY Eng Yeong	CHECKED Odeon M. L.I.		DISREGARD PRINTS BEARING	REVISION DATES (PRELIMINARY STAGE ONLY)	

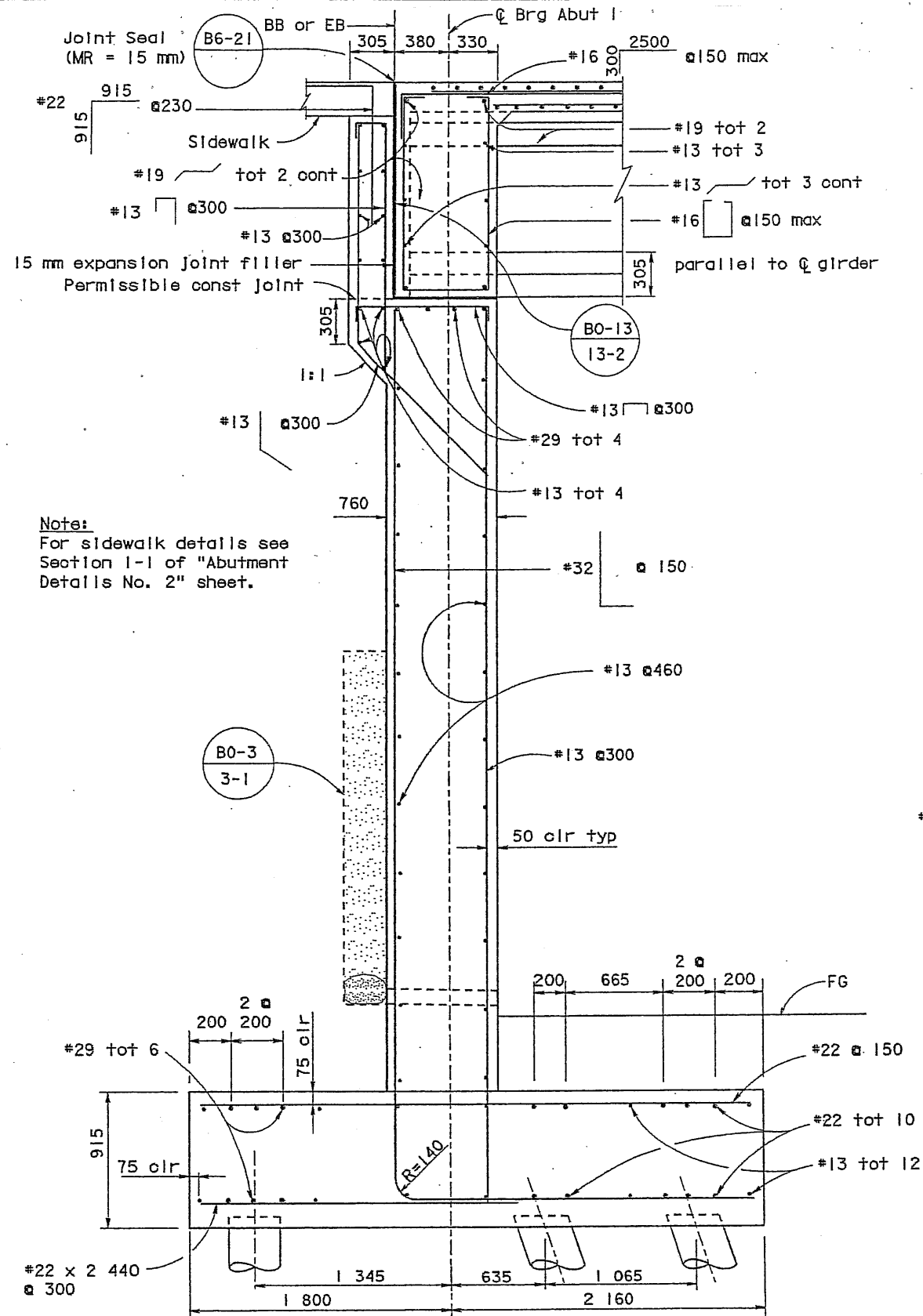
SIGN OFF DATE: 12-16-03
 PROJECT ENGINEER: Odeon M. L.I.
 SHEET 91 OF 103
 DATE PLOTTED: 12-DEC-2003
 TIME PLOTTED: 11:28



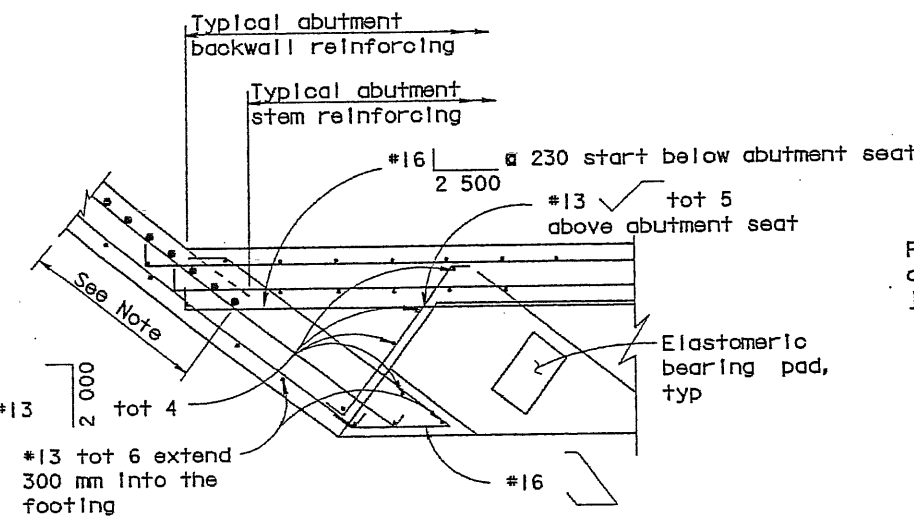
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	92	103

Odeon M. Li
 REGISTERED CIVIL ENGINEER
 12/15/03
 Odeon M. Li
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

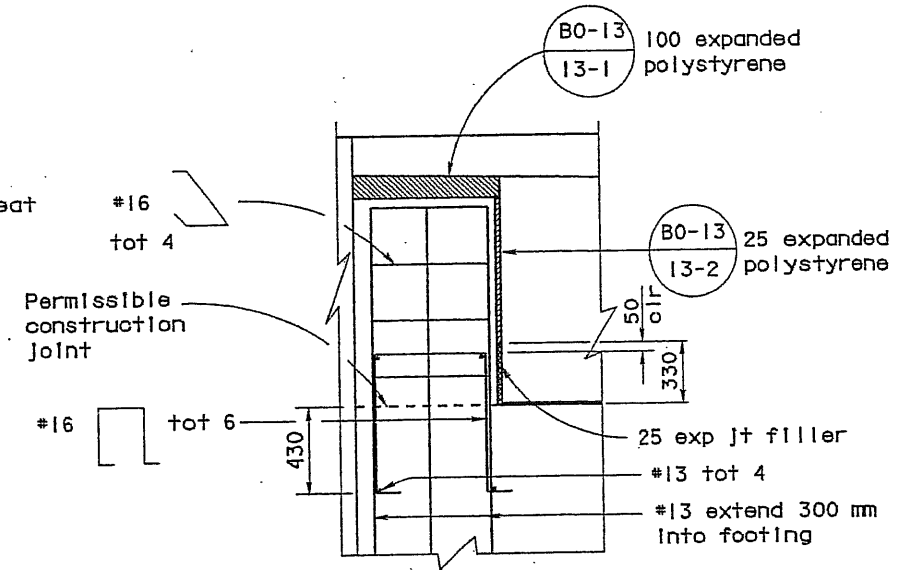
PLANS APPROVAL DATE
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 East Palo Alto, CA 94303
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Note:
 For sidewalk details see Section 1-1 of "Abutment Details No. 2" sheet.



Note:
 For stem dimensions, reinforcing, footing reinforcing, see Section 1-1, "Abutment Details No. 2" Sheet.



Note:
 Barrier rail not shown for clarity.

Note:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

All dimensions are in millimeters unless otherwise shown.

DESIGN OVERSIGHT
 12-16-03
 SIGN OFF DATE

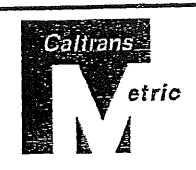
DESIGN	BY Eng Yeong	CHECKED Odeon M. Li
DETAILS	BY Eng Yeong	CHECKED Odeon M. Li
QUANTITIES	BY Eng Yeong	CHECKED Odeon M. Li

PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 Odeon M. Li
 PROJECT ENGINEER

BRIDGE NO.	35-0113
KILOMETER POST	1.43

UNIVERSITY AVE OVERCROSSING (WIDEN)
 ABUTMENT DETAILS NO 1

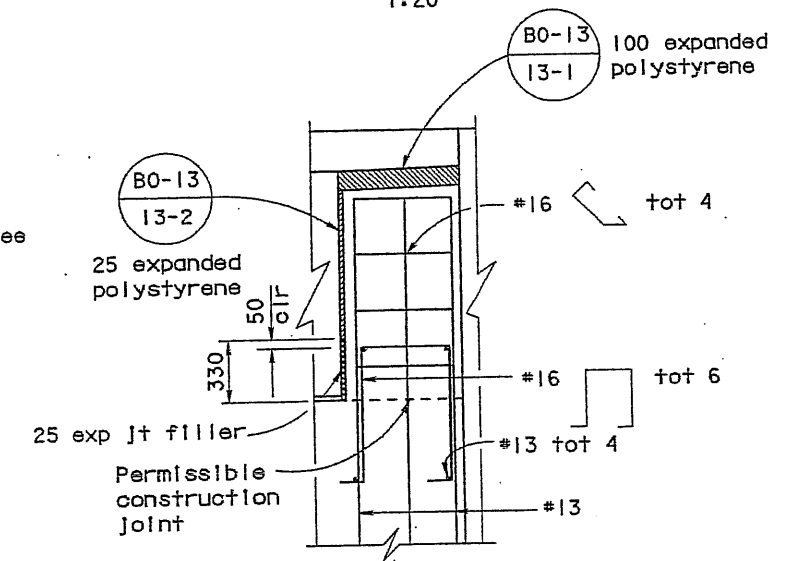
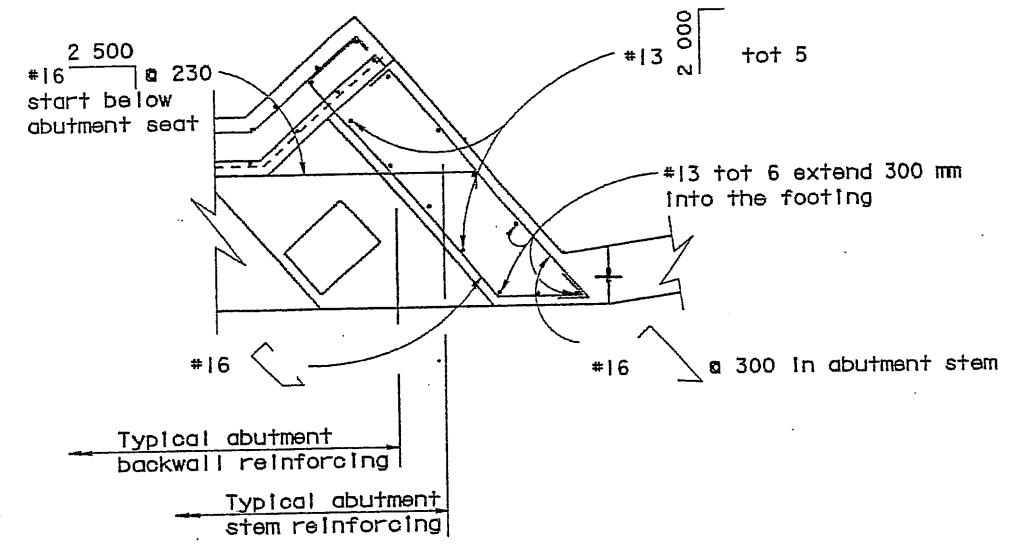
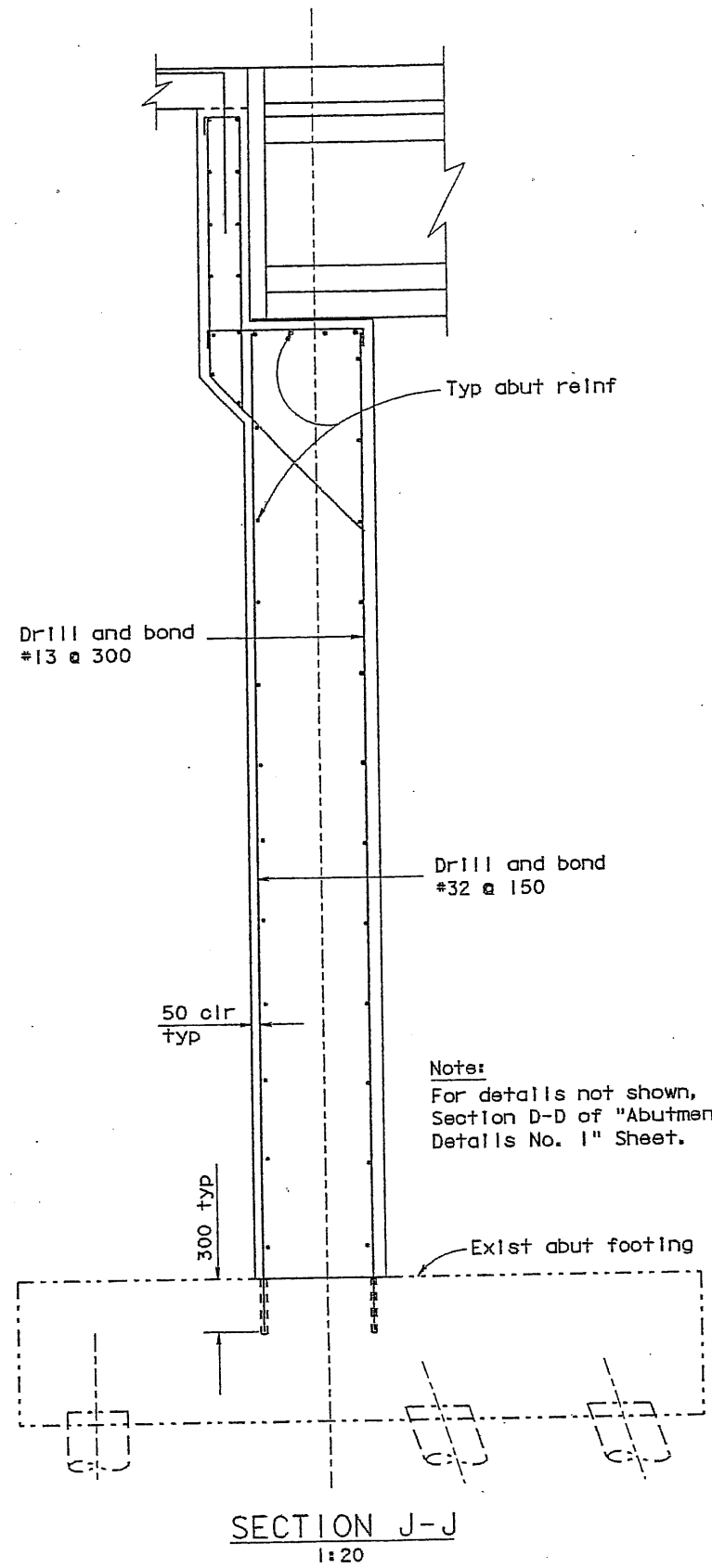
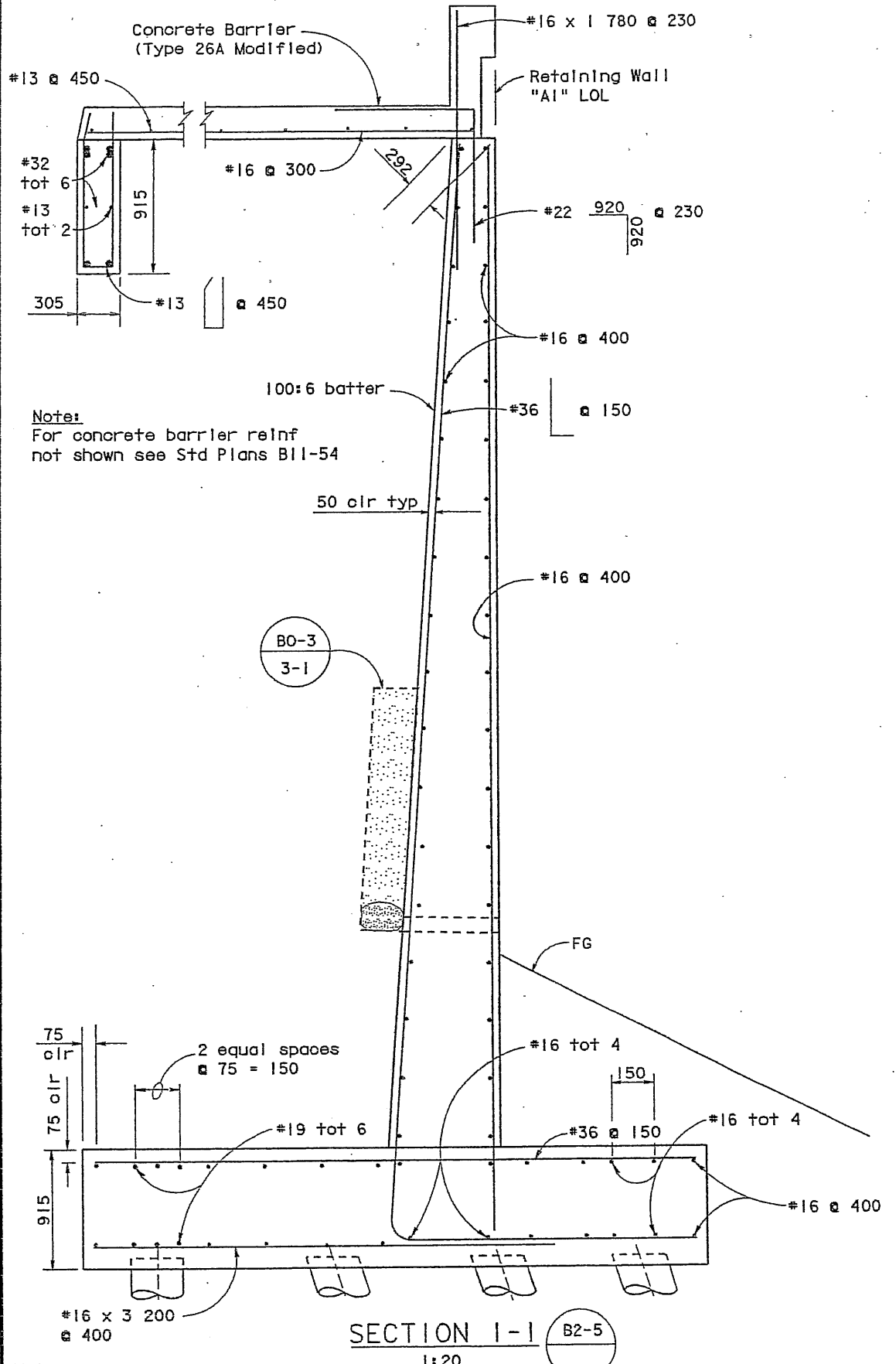
DATE PLOTTED => 11-DEC-2003 TIME PLOTTED => 14:26



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	93	103

Odeon M LI
 REGISTERED CIVIL ENGINEER
 12/15/03
 PLANS APPROVAL DATE
 Odeon M LI
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

City of East Palo Alto
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 San Ramon, CA 94583-1621



Note
Barrier rail not shown for clarity.

All dimensions are in millimeters unless otherwise shown.

Note:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN OVERSIGHT
12-16-03
SIGN OFF DATE

DESIGN	BY Eng Yeong	CHECKED Odeon M. LI
DETAILS	BY Eng Yeong	CHECKED Odeon M. LI
QUANTITIES	BY Eng Yeong	CHECKED Odeon M. LI

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Odeon M. LI
PROJECT ENGINEER

CU 04245

BRIDGE NO.	35-0113
KILOMETER POST	1.43

UNIVERSITY AVE OVERCROSSING (WIDEN)
ABUTMENT DETAILS NO 2

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 7	OF 17
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DATE PLOTTED -> 11-DEC-2003 TIME PLOTTED -> 14:28 USERNAME -> 11



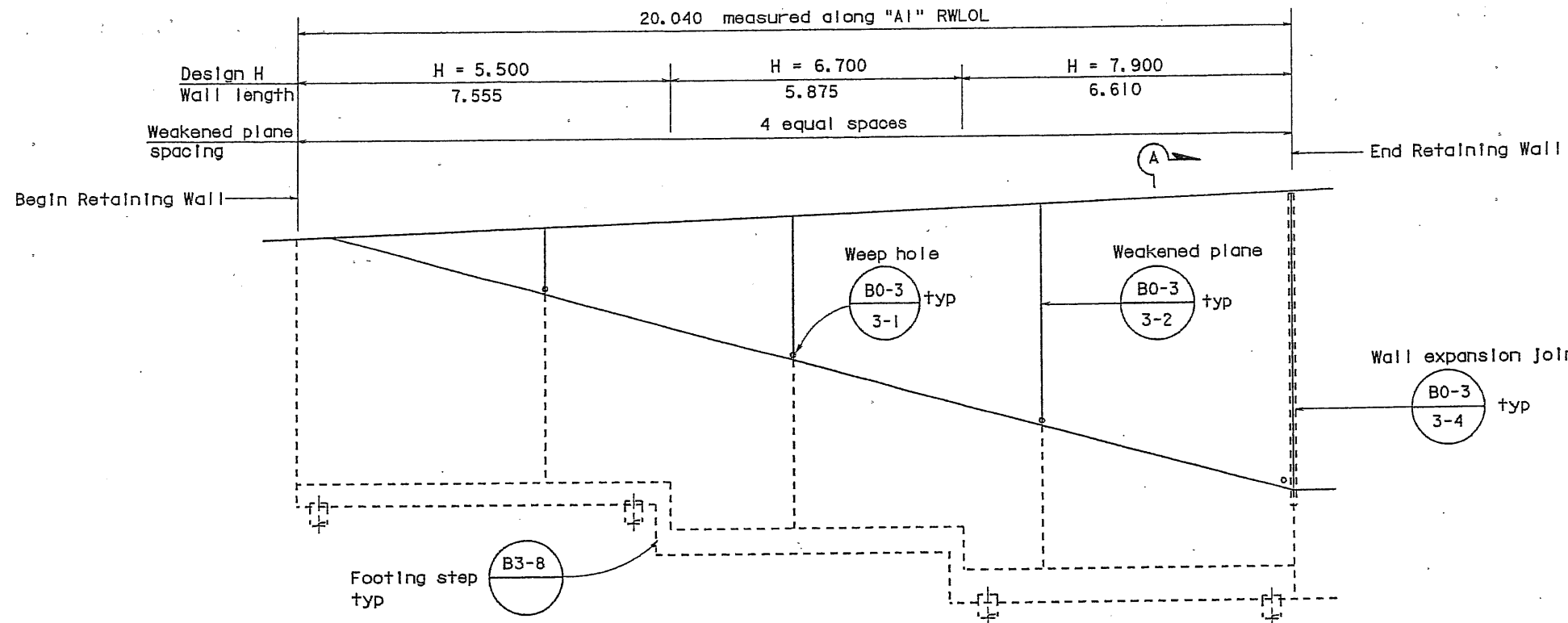
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	94	103

Odeon M. L.I. 12/19/03
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 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
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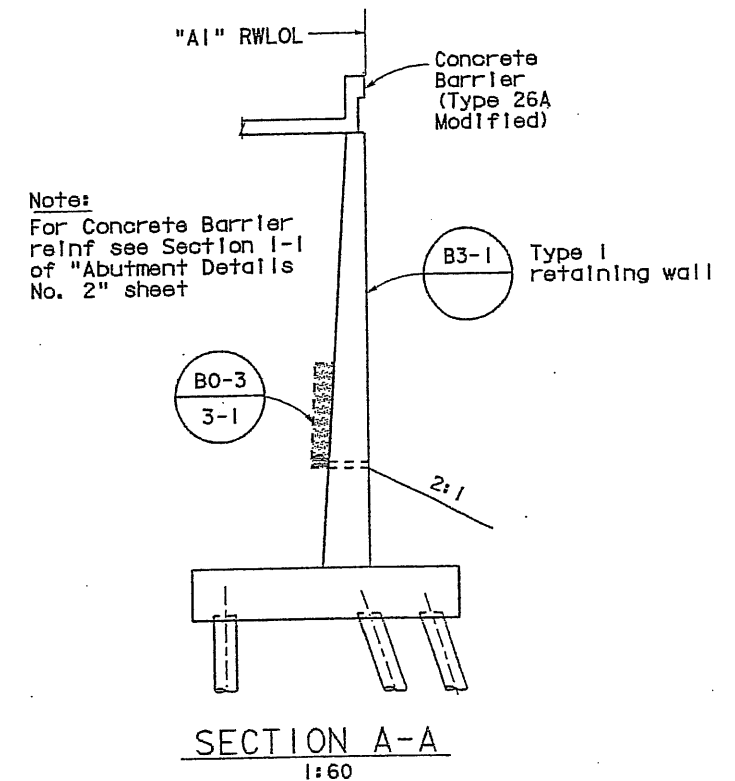
City of East Palo Alto
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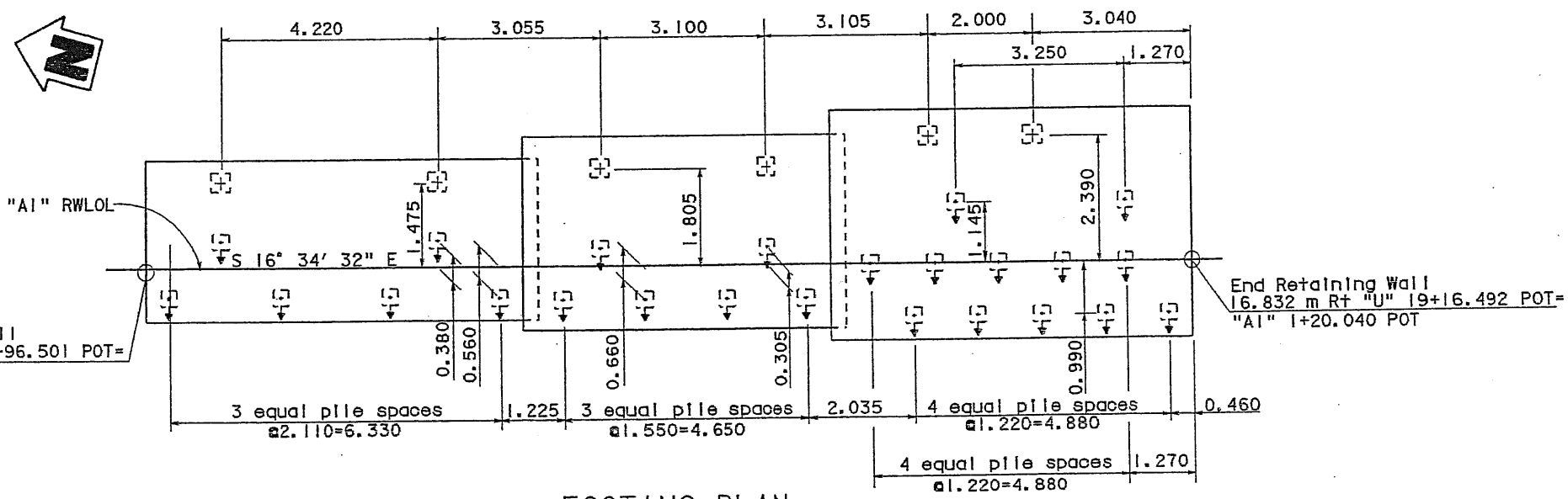
- Notes:**
- Not all piles are shown.
 - For bottom of footing elevation, see "Foundation Plan" sheet.
 - Barrier rail not shown for clarity.

ELEVATION
1:60



Note:
For Concrete Barrier reinf see Section I-1 of "Abutment Details No. 2" sheet

SECTION A-A
1:60



FOOTING PLAN
1:60

- Legend:**
- Indicates 1:3 battered pile.
 - Indicates vertical pile.

Note:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

All dimensions and elevations are in meters unless otherwise shown.

DESIGN OVERSIGHT
 12/16/03
 SIGN OFF DATE

DESIGN	By Eng Yeong	CHECKED Odeon M. L.I.
DETAILS	By Eng Yeong	CHECKED Odeon M. L.I.
QUANTITIES	By Eng Yeong	CHECKED Odeon M. L.I.

PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

Odeon M. L.I.
 PROJECT ENGINEER

BRIDGE NO.	35-0113
KILOMETER POST	1.43

UNIVERSITY AVE OVERCROSSING (WIDEN)

RETAINING WALL A1

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
11/02 1/03 6/03 8/03 12/03	8	17

DATE PLOTTED → 11-DEC-2003 TIME PLOTTED → 14:29 USER NAME → 11



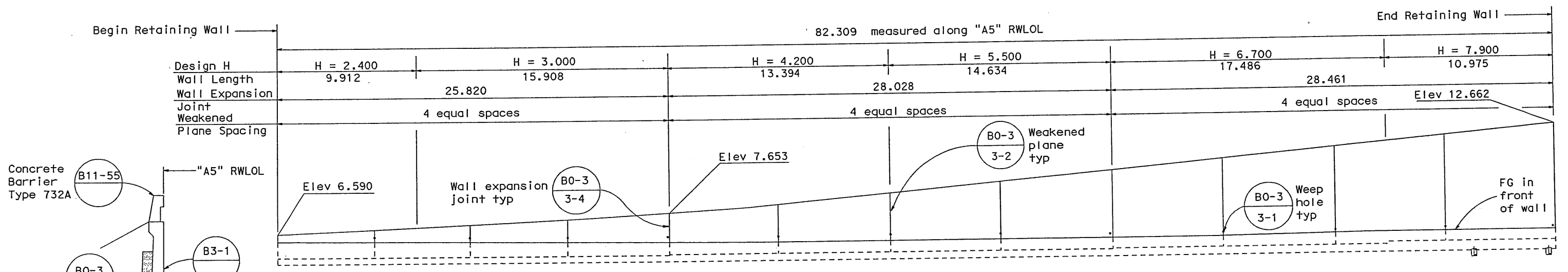
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	95	103

Odeon M Li 02/15/03
 REGISTERED CIVIL ENGINEER
 Odeon M Li
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

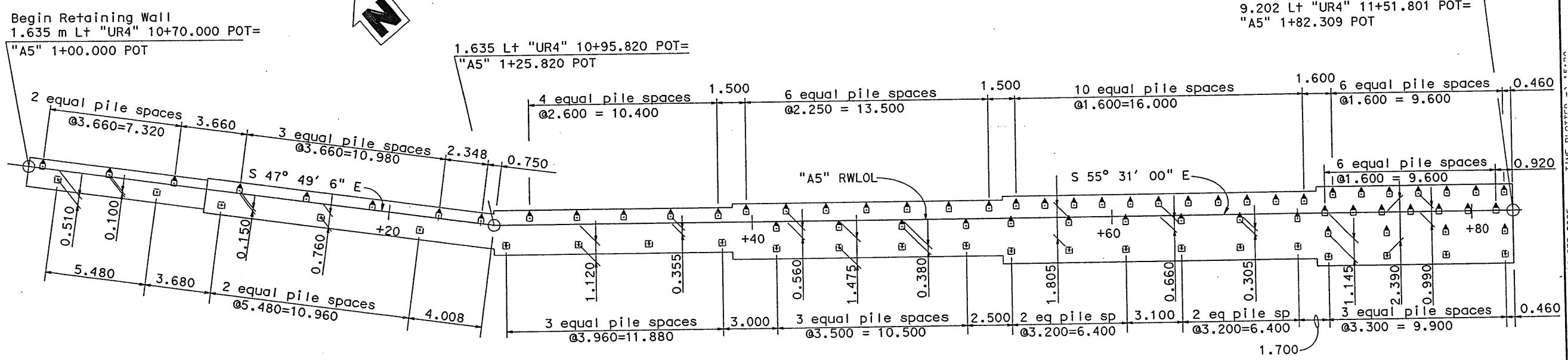
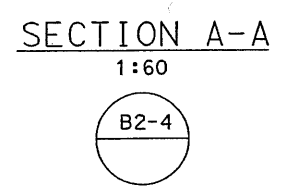
PLANS APPROVAL DATE
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- Notes:**
- Not all piles are shown.
 - For bottom of footing elevation, see "Foundation Plan" sheet.
 - Barrier rail not shown for clarity.



Legend:

⊕ Indicates 1:3 battered pile.

⊞ Indicates vertical pile.

Note:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

All dimensions and elevations are in meters unless otherwise shown.

DESIGN OVERSIGHT	DESIGN	BY Eng Yeong	CHECKED Odeon M. Li	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	Odeon M. Li PROJECT ENGINEER	BRIDGE NO.	35-0113	UNIVERSITY AVE OVERCROSSING (WIDEN) RETAINING WALL A5
	DETAILS	BY Eng Yeong	CHECKED Odeon M. Li			KILOMETER POST	1.43	
	QUANTITIES	BY Eng Yeong	CHECKED Odeon M. Li			REVISION DATES (PRELIMINARY STAGE ONLY)		
SIGN OFF DATE	ORIGINAL SCALE IN MILLIMETERS				CU 04245	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 9 OF 17



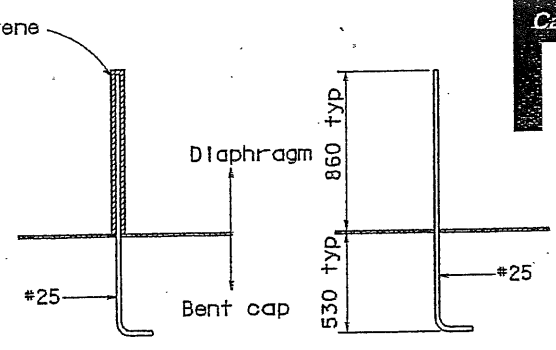
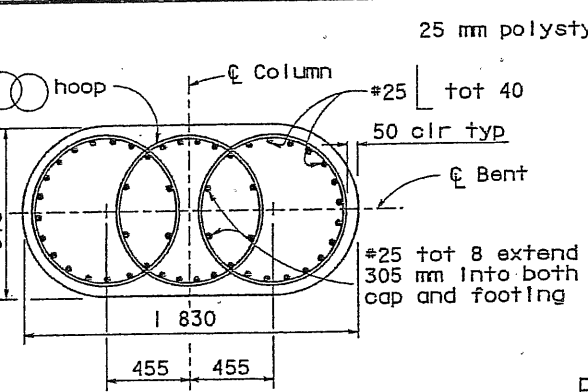
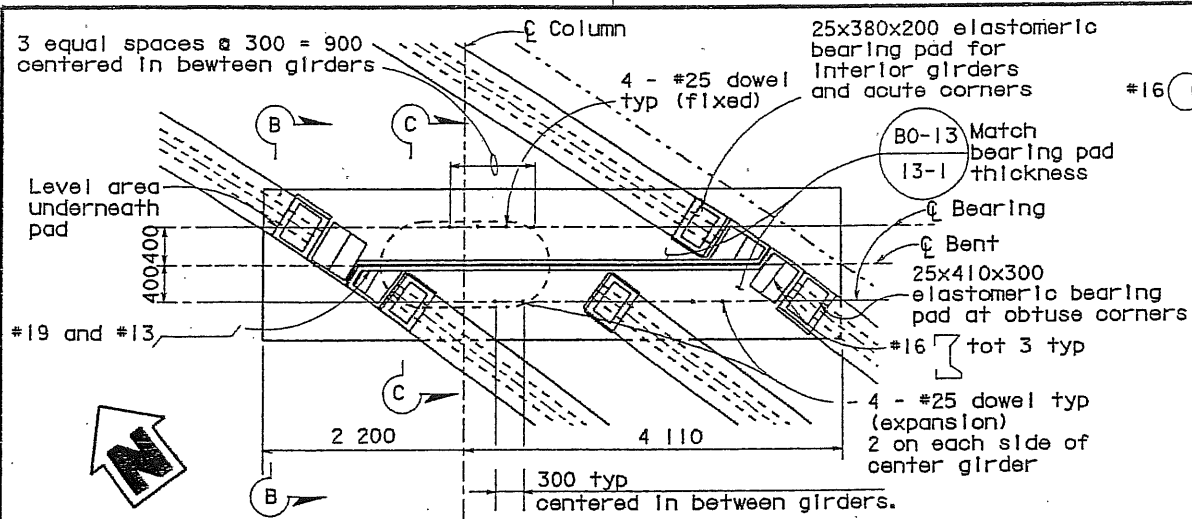
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	96	103

Odeon M. Li 12/15/03
 REGISTERED CIVIL ENGINEER
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE
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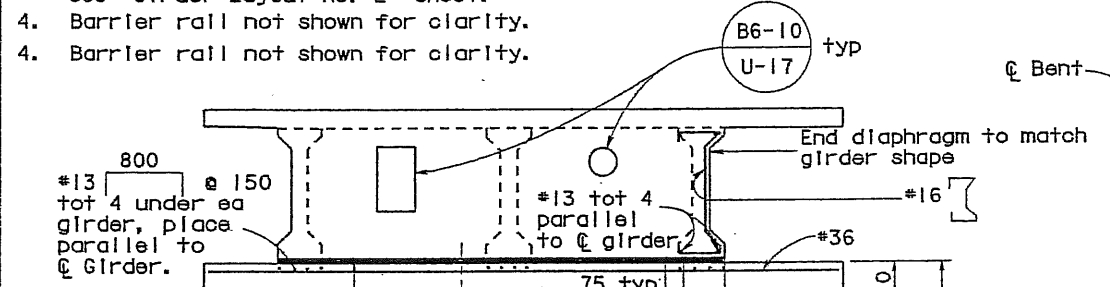


EXPANSION DOWEL FIXED DOWEL

DETAIL 1
No Scale

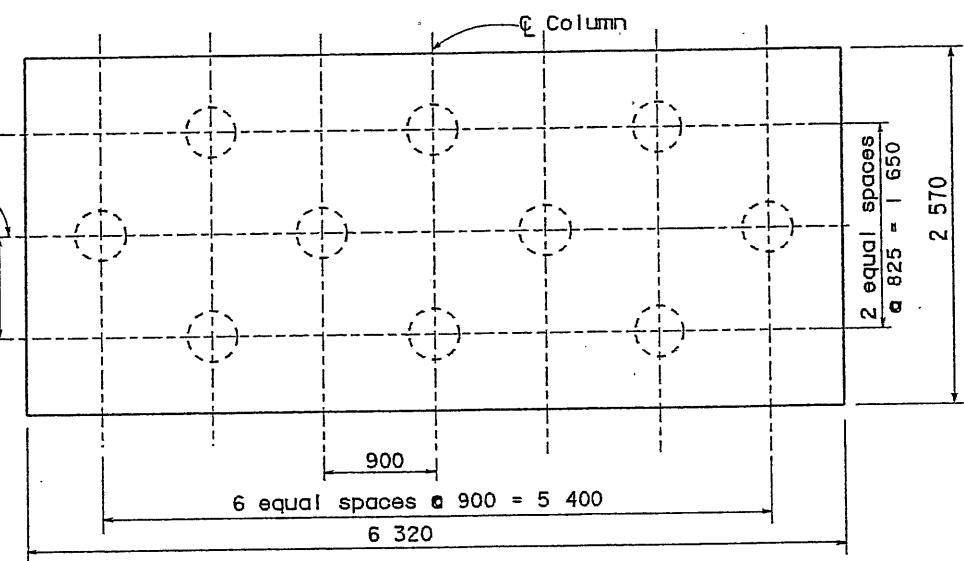
- Notes:
- Bent 2 shown. Bent 3 & 4 are similar.
 - For fixed and expansion #25 dowels, see "Detail 1".
 - For location of fixed and expansion dowels, see "Girder Layout No. 2" sheet.
 - Barrier rail not shown for clarity.
 - Barrier rail not shown for clarity.

PLAN
1:40

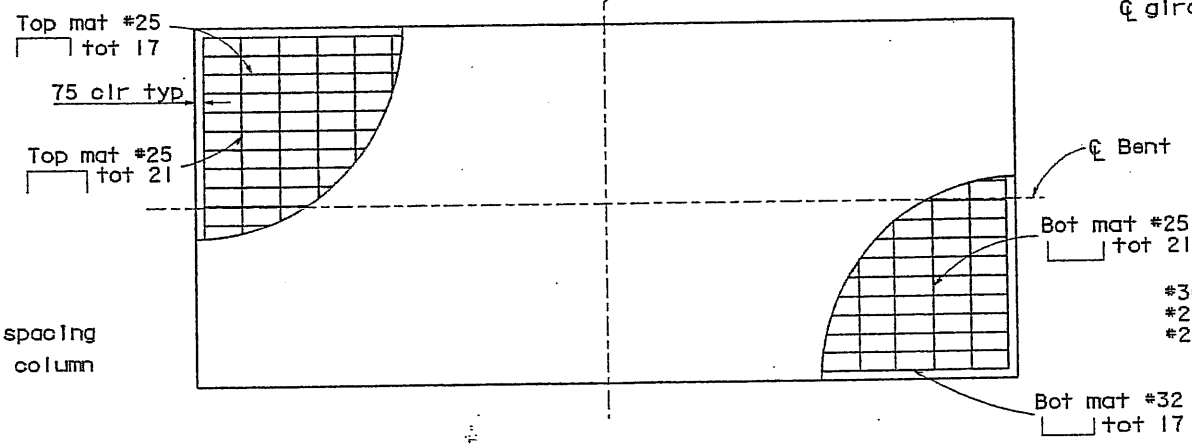


- Notes:
- Bent 2 shown, Bent 3 & 4 are similar.
 - Hoops shall be "Ultimate Butt splices".
 - For size of utilities openings see "Abutment 1 Layout" sheet.

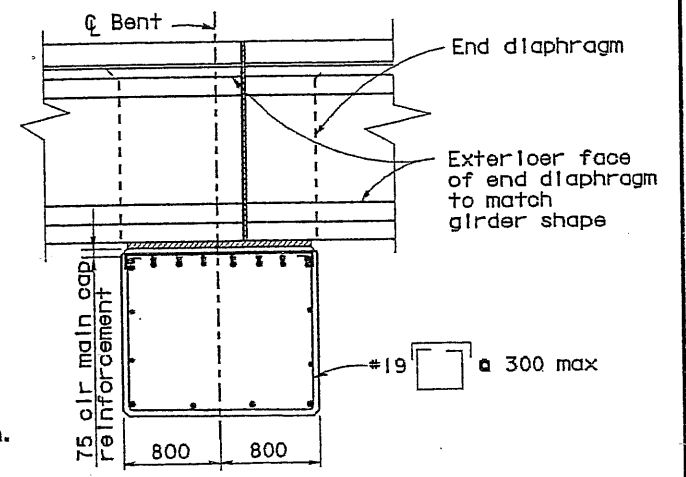
ELEVATION
1:40



FOOTING PLAN
1:30

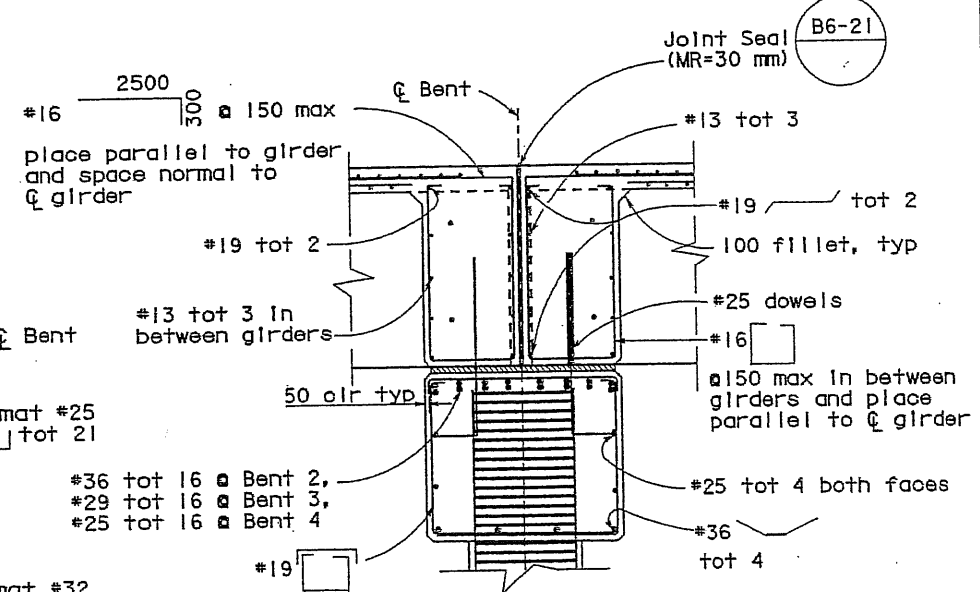


FOOTING PLAN
1:30



- Notes:
- Bent 2 shown. Bent 3 & 4 are similar.
 - Barrier rail not shown for clarity.

SECTION B-B
1:30



SECTION C-C
1:30

- Notes:
- Bent 2 shown, Bent 3 & 4 are similar.

Notes:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

All dimensions are in millimeters unless otherwise shown.

DESIGN OVERSIGHT
 12/16/03
 SIGN OFF DATE

DESIGN	BY	CHECKED
BY	Eng Yeong	Odeon M. Li
DETAILS	BY	CHECKED
BY	Eng Yeong	Odeon M. Li
QUANTITIES	BY	CHECKED
BY	Eng Yeong	Odeon M. Li

PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

Odeon M. Li
 PROJECT ENGINEER

BRIDGE NO.	KILOMETER POST
35-0113	1.43

UNIVERSITY AVE OVERCROSSING (WIDEN)

BENT DETAILS

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
11/02 11/03 01/03 12/03	10	17

DATE PLOTTED -> 11-DEC-2003 USERNAME -> 11



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	97	103

Odeon M. LI
 REGISTERED CIVIL ENGINEER
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE _____

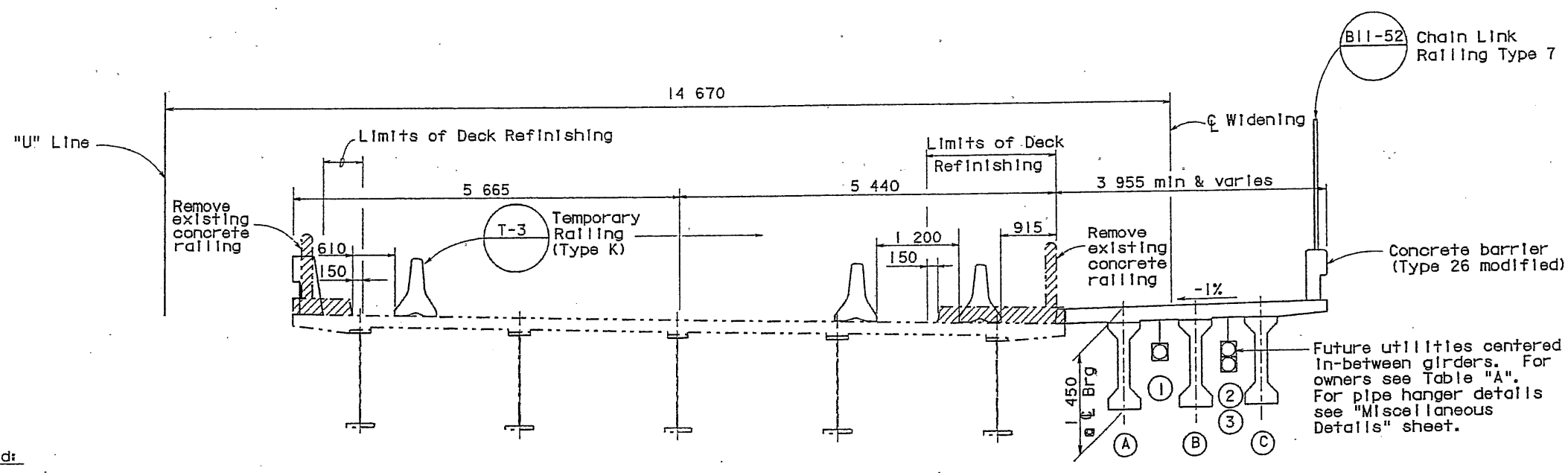
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TABLE "A"

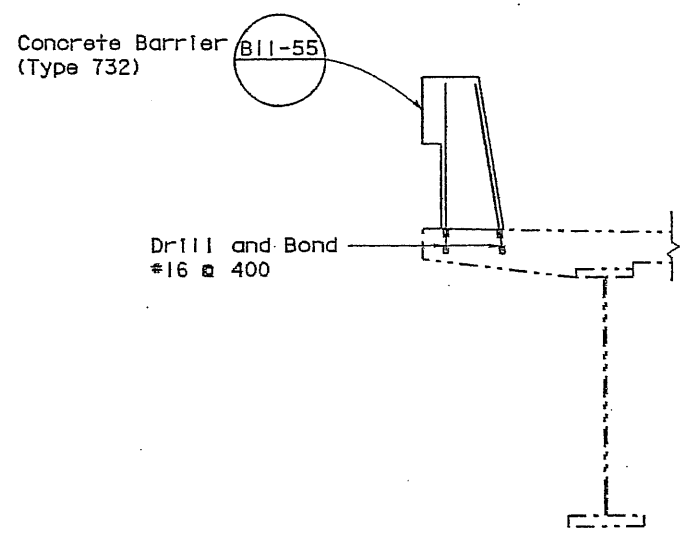
Designation	Owner	Details
①	City of East Palo Alto	200 mm ϕ X 6.35 mm thickness steel casing for future 150 mm ϕ water line
②	City of East Palo Alto	200 mm ϕ X 6.35 mm thickness steel casing for future utilities
③	Caltrans	200 mm ϕ X 6.35 mm thickness steel casing for future utilities



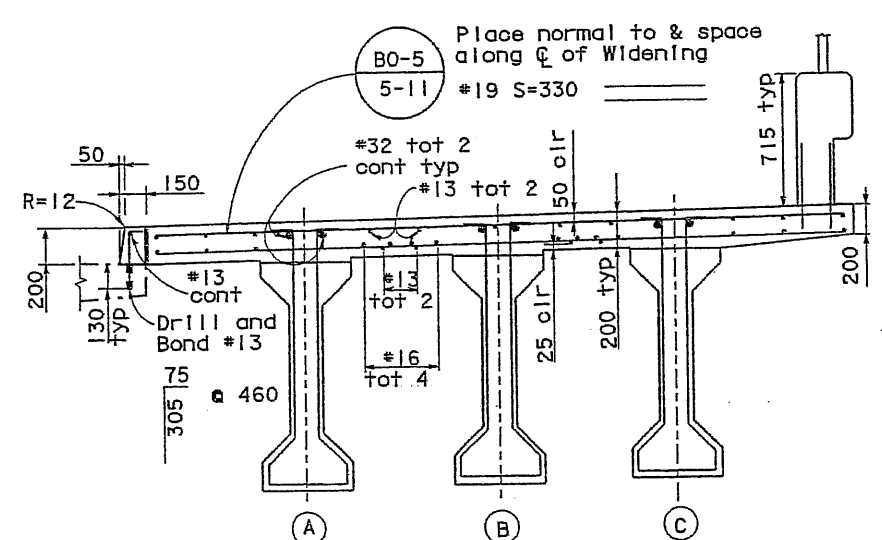
Legend:
 Indicates Bridge Removal (Portion)
 - - - - Indicates existing structure

TYPICAL SECTION
 1:40

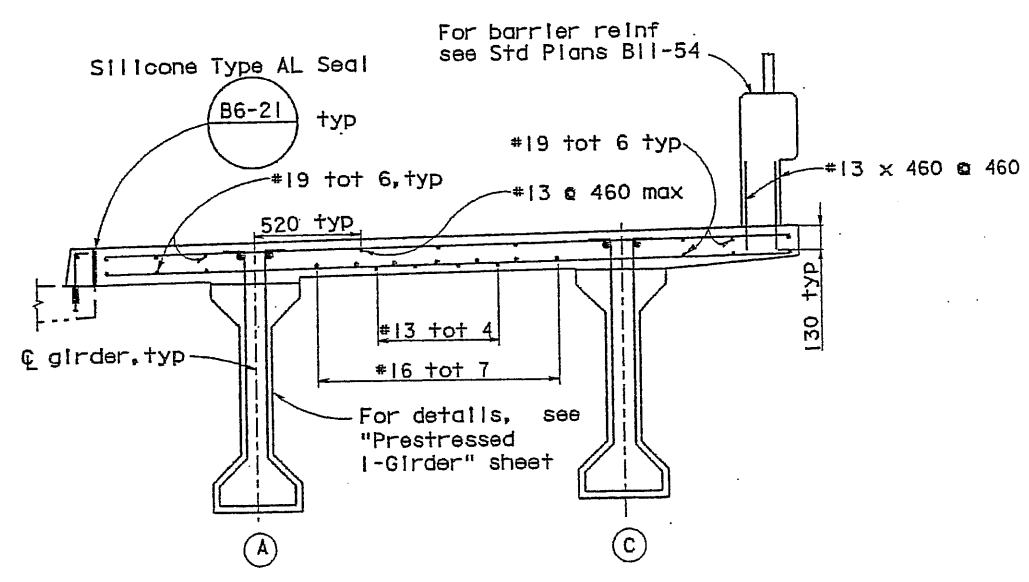
Notes:
 Span 3 & 4 shown. Span 1 & 2 similar.



PART TYPICAL SECTION
 1:20



PART TYPICAL SECTION
 SPAN 2 & 3
 1:20



PART TYPICAL SECTION
 SPAN 1 & 4
 1:20

Notes:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

All dimensions shown in millimeters unless otherwise shown.

DESIGN OVERSIGHT
Odeon M. LI
 18.11.03
 SIGN OFF DATE

DESIGN	BY Eng Yeong	CHECKED Odeon M. LI
DETAILS	BY Eng Yeong	CHECKED Odeon M. LI
QUANTITIES	BY Eng Yeong	CHECKED Odeon M. LI

PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

Odeon M. LI
 PROJECT ENGINEER

BRIDGE NO.	35-0113
KILOMETER POST	1.43

UNIVERSITY AVE OVERCROSSING (WIDEN)

TYPICAL SECTION

CU 04245

DISREGARD PRINTS BEARING

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	17	17

DATE PLOTTED => 11-DEC-2003 TIME PLOTTED => 15:31



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	98	103

Odeon M. Li 12/15/03
 REGISTERED CIVIL ENGINEER

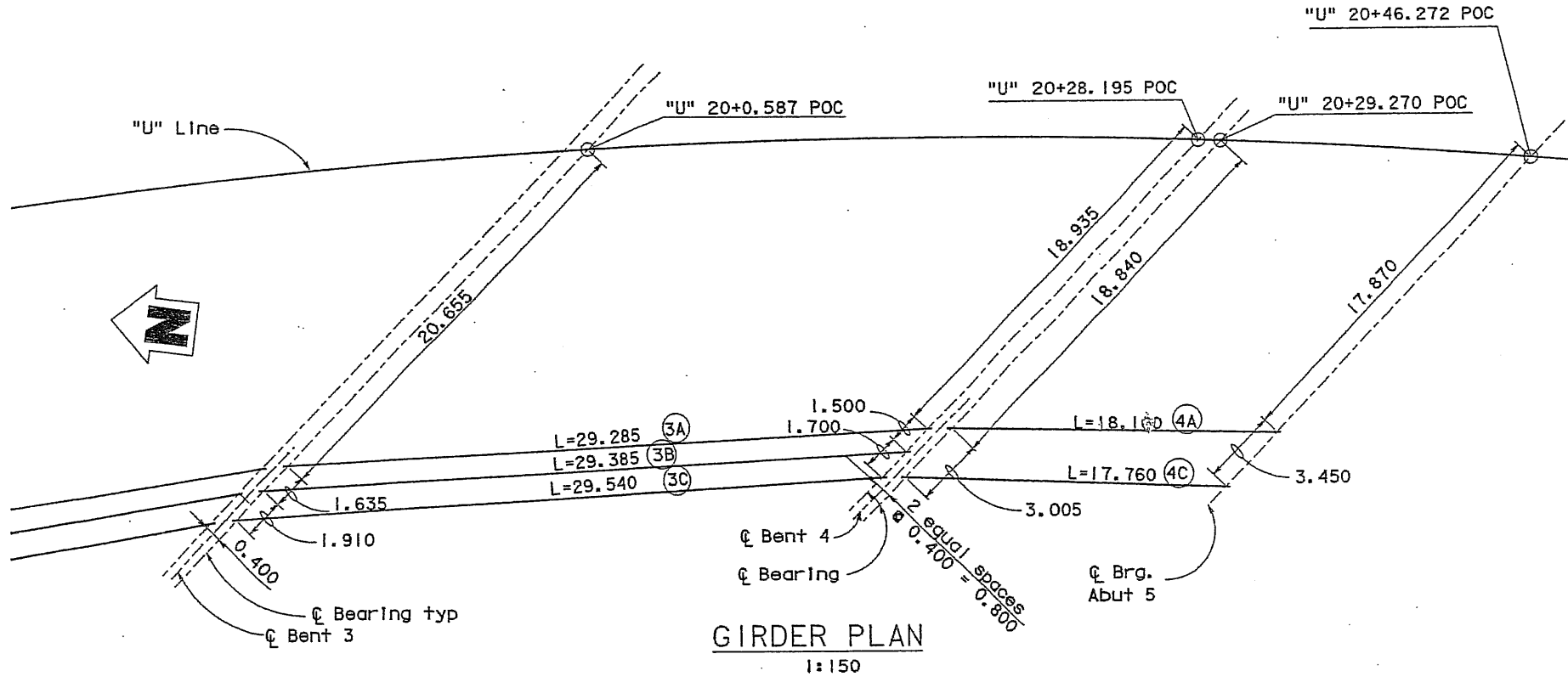
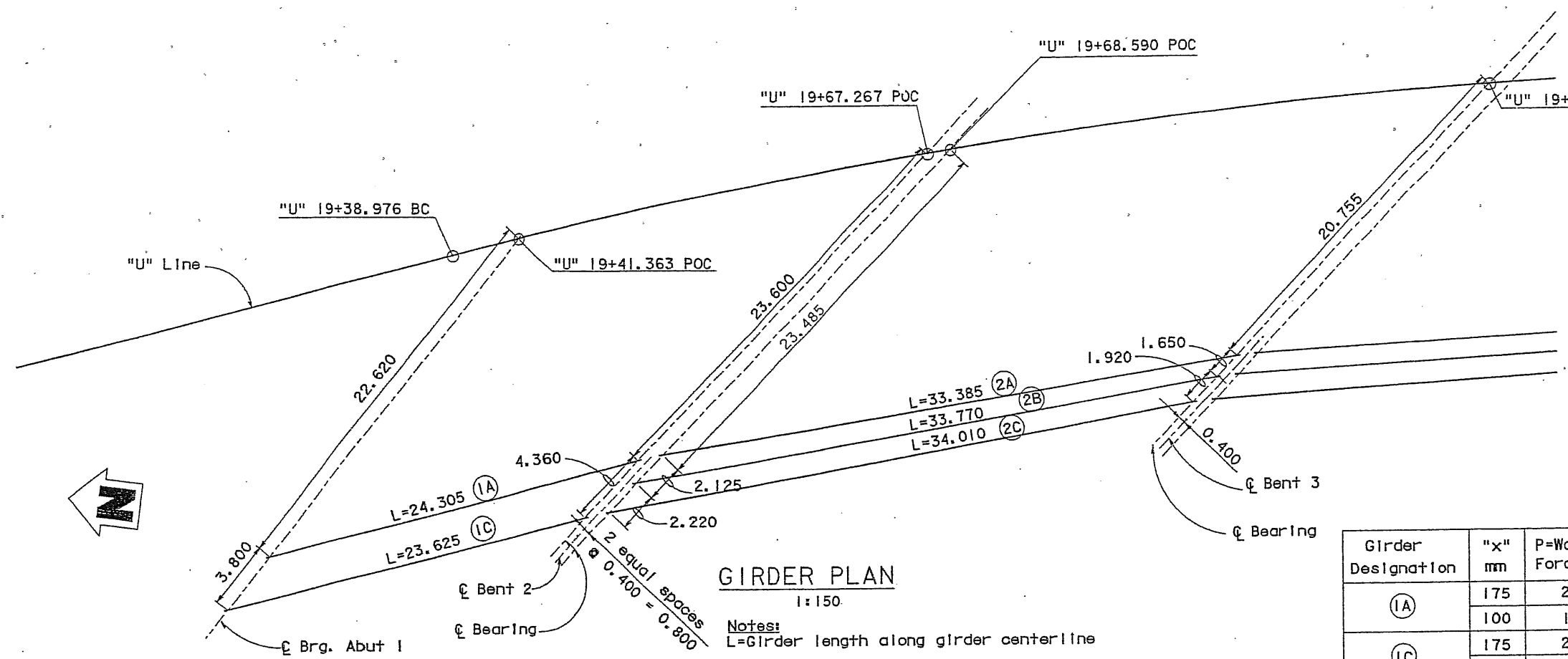
Odeon M. Li
 No. 31895
 Exp. 12-31-04
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 STATE OF CALIFORNIA

PLANS APPROVAL DATE _____

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Girder Designation	"x" mm	P=Working Force in KN	Concrete Strength, MPa		Deflection Component, mm	
			f'c1	f'c	(1) Deck DL	(2) Rail DL
(1A)	175	2100	28	28	25	9
	100	1900	28	28		
(1C)	175	2200	28	29	28	8
	100	2000	28	28		
(2A)	200	3400	28	49	69	22
	125	3050	28	44		
(2B)	200	3800	28	52	81	22
	125	3400	28	47		
(2C)	200	3850	29	50	71	24
	125	3500	29	45		
(3A)	200	2550	28	38	41	13
	125	2300	28	34		
(3B)	200	2750	28	40	46	13
	125	2450	28	35		
(3C)	200	2900	28	38	41	13
	125	2600	28	34		
(4A)	175	1300	28	28	8	2
	100	1200	28	28		
(4C)	175	1350	28	28	10	3
	100	1250	28	28		

Notes:
For details not shown, see "Prestressed I-Girder" sheet.

Notes:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

All dimensions are in meters unless otherwise shown.

DESIGN OVERSIGHT <i>Rach J. Burt</i> 12-16-03 SIGN OFF DATE	DESIGN	BY Eng Yeong	CHECKED Odeon M. Li	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	35-0113	UNIVERSITY AVE OVERCROSSING (WIDEN) GIRDER LAYOUT NO 1	
	DETAILS	BY Eng Yeong	CHECKED Odeon M. Li		PROJECT ENGINEER	KILOMETER POST		1.43
	QUANTITIES	BY Eng Yeong	CHECKED Odeon M. Li		CU 04245	REVISION DATES (PRELIMINARY STAGE ONLY)		

DATE PLOTTED: 11-DEC-2003 14:35



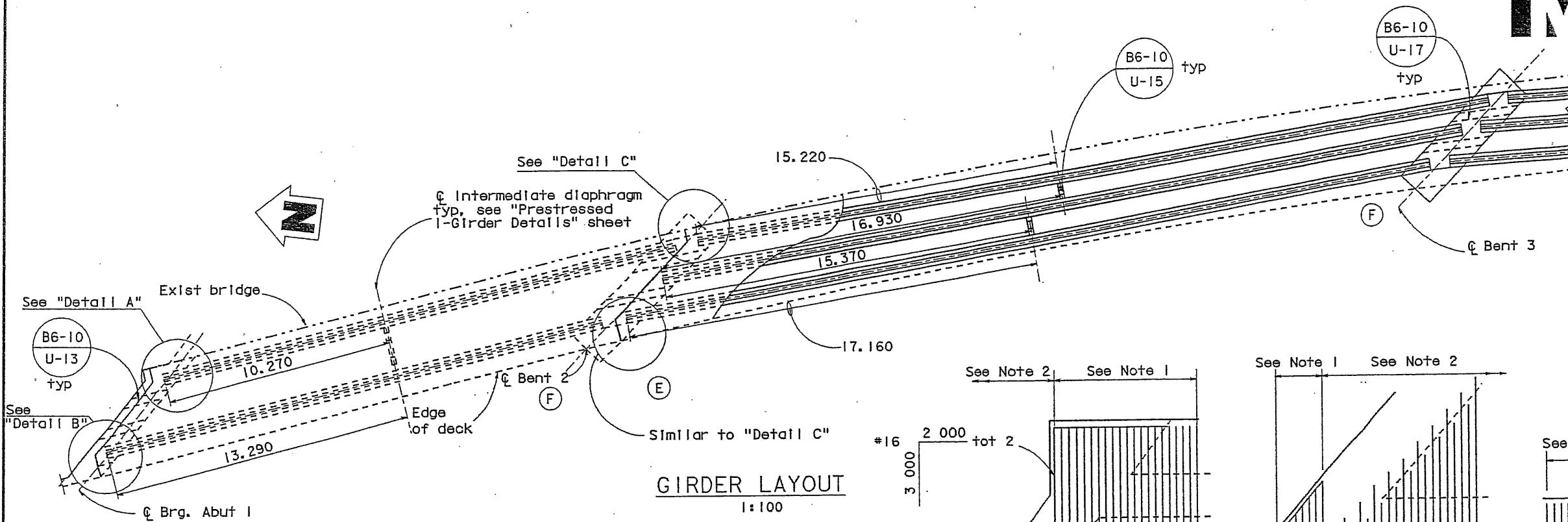
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	99	103

Odeon M. L. I.
 REGISTERED CIVIL ENGINEER
 12/15/03
 No. 31895
 Exp. 12-31-04
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE _____
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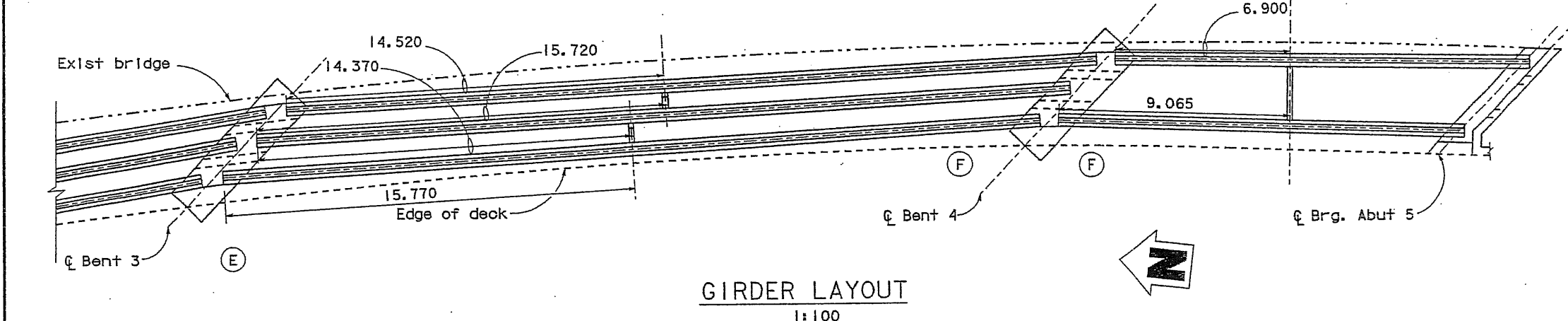
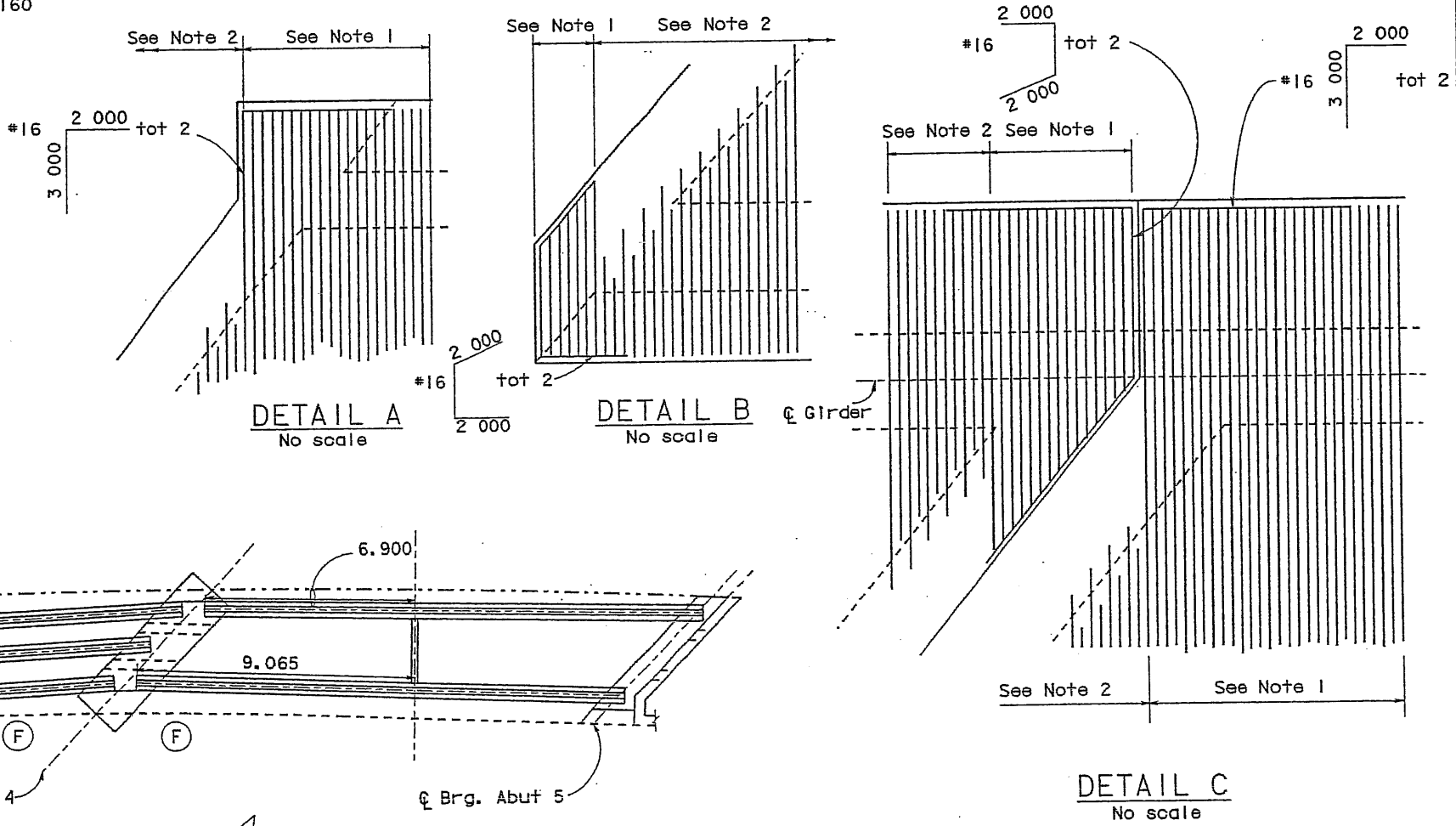
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GIRDER LAYOUT
1:100

Legend:

(F) Indicates fixed dowels
 (E) Indicates expansion dowels
 For fixed dowels and expansion dowel details see "Bent Details" sheet.



GIRDER LAYOUT
1:100

- Notes:**
- Extend top bars into edge of deck and deck joint.
 - Extend alternate top bars 450 mm into diaphragm. Stop remaining transverse reinforcement 75 mm from face of diaphragm.
 - For size of utilities openings, see "Abutment 1 Layout" and "Abutment 5 Layout" sheets.
- All dimensions are in meters unless otherwise shown.

Note:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

Odeon M. L. I.
 DESIGN OVERSIGHT
 12.16.03
 SIGN OFF DATE

DESIGN	BY Eng Yeong	CHECKED Odeon M. L. I.
DETAILS	BY Eng Yeong	CHECKED Odeon M. L. I.
QUANTITIES	BY Eng Yeong	CHECKED Odeon M. L. I.

PREPARED FOR THE
 STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 Odeon M. L. I.
 PROJECT ENGINEER
 CU 04245

BRIDGE NO.	35-0113
KILOMETER POST	1.43

UNIVERSITY AVE OVERCROSSING (WIDEN)

GIRDER LAYOUT NO 2

DATE PLOTTED => 11-DEC-2003
 TIME PLOTTED => 14:36
 SERNAME => 11

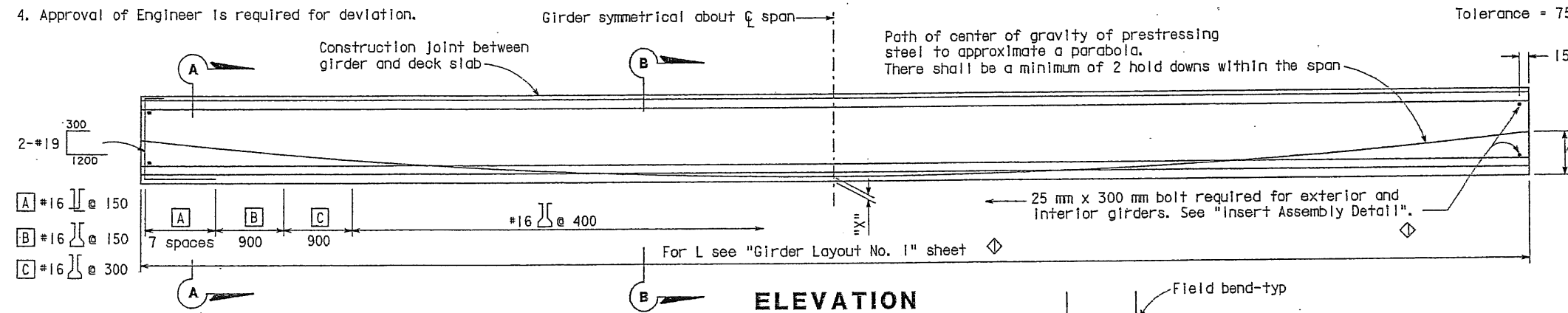
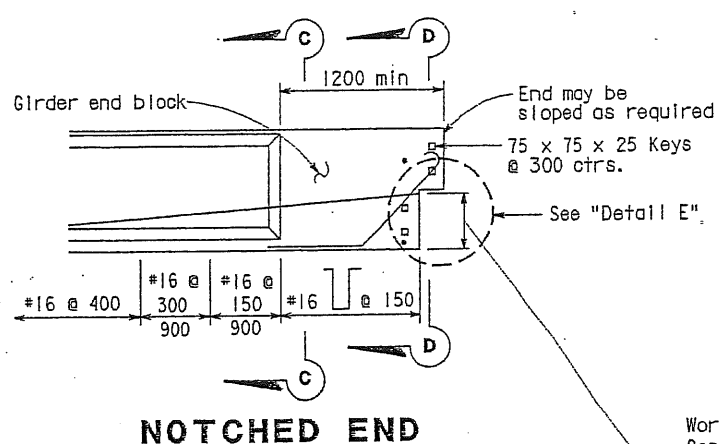
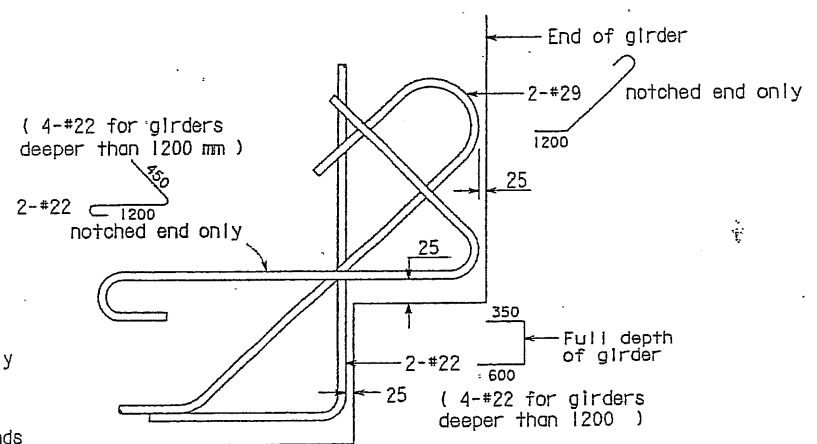


DIST.	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST NO.	SHEET NO.	TOTAL SHEETS
04	SM	101			100	103

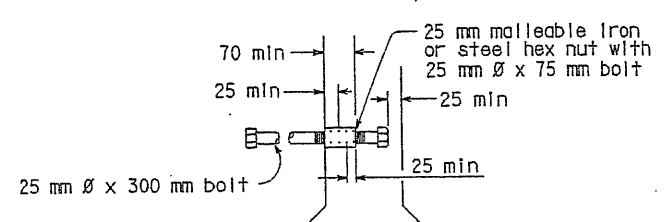
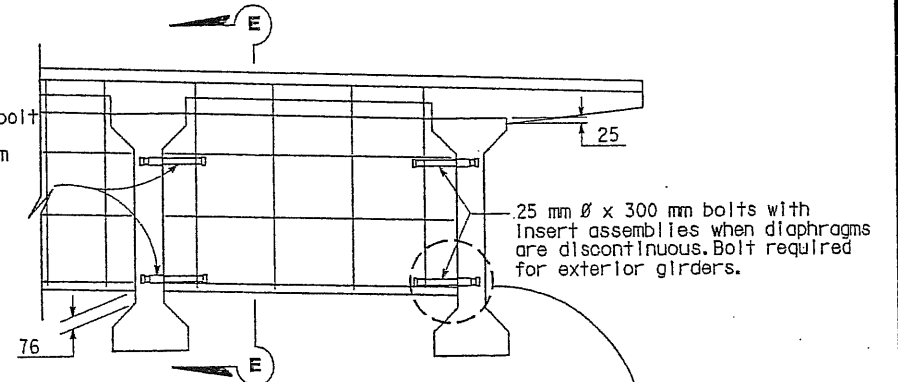
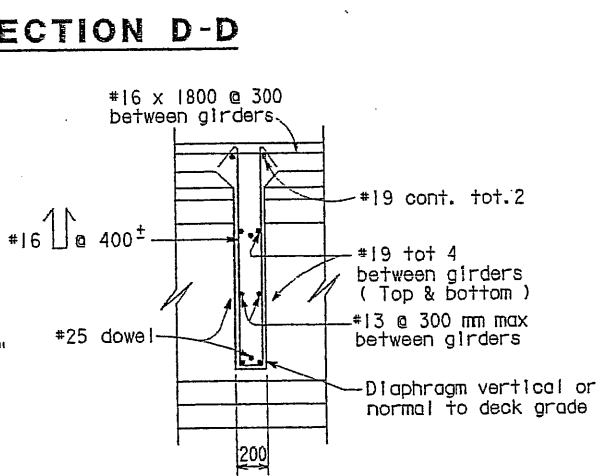
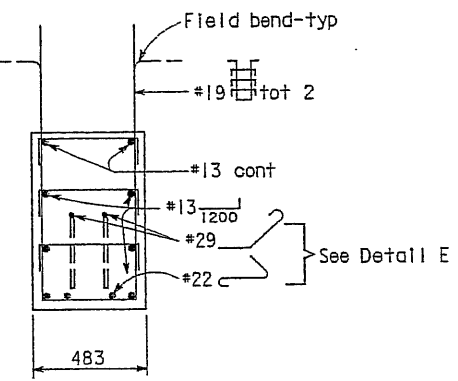
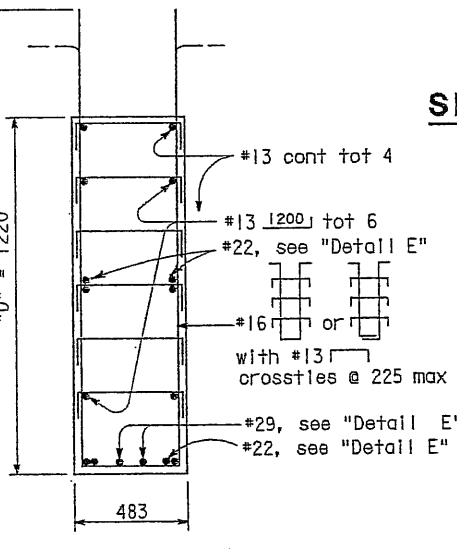
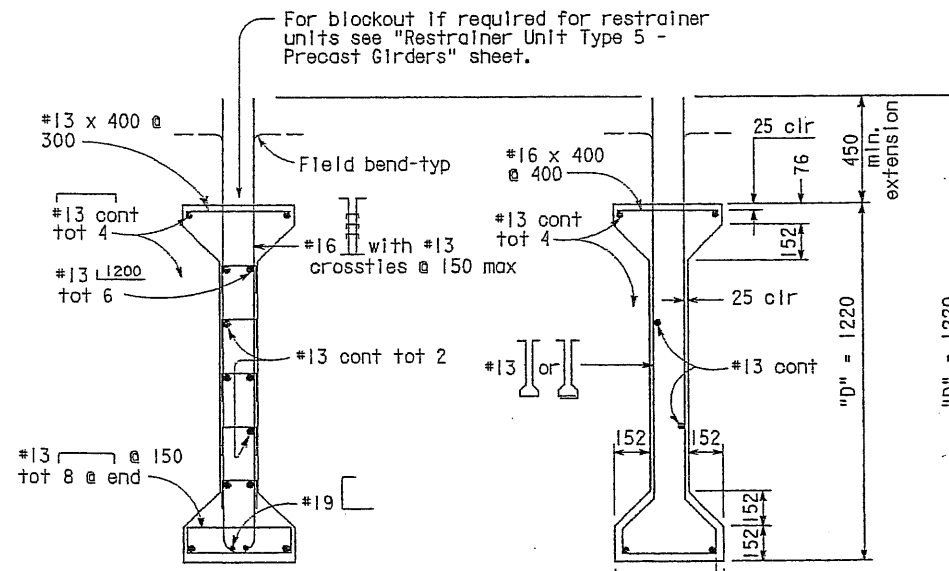
Odeon M. L.I.
 REGISTERED ENGINEER - CIVIL
 No. 31895
 Exp. 12/31/04
 CIVIL
 STATE OF CALIFORNIA

CLEARANCES FOR PRETENSIONED STRANDS

1. Strands may be bundled in groups consisting of 3 vertically 2 horizontally, and separated at the ends.
2. The min distance "S" between groups or individual strands is 40 mm for 9.5 mm strands, 45 mm for 11 and 13 mm strands and 50 mm for 15 mm strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of Engineer is required for deviation.



Note:
 Details shown are for pretensioned girders. The Contractor may submit details for post-tensioning which shall meet the approval of the Engineer.



Girder location or designation and length	P = Working force in (kN) "X"	Concrete Strength		Deflection Components (mm)	
		f'ci	f'c	① Deck DL	② Rail DL

PRESTRESSING NOTES

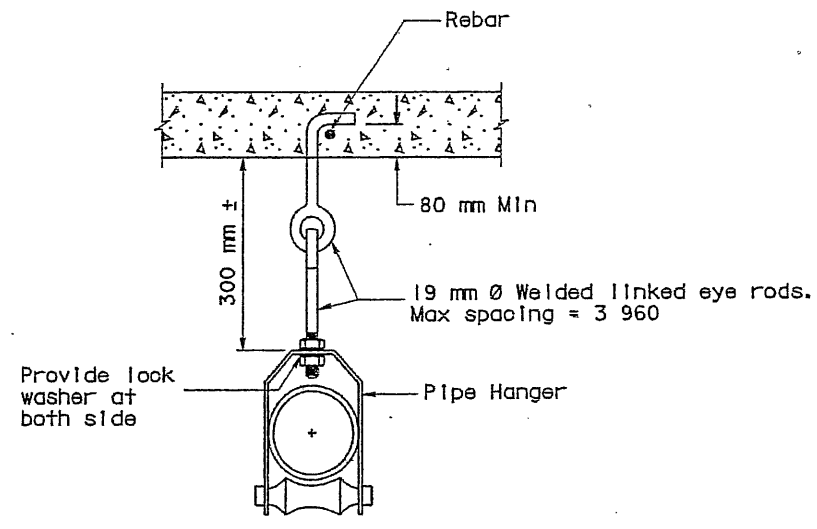
Working force: The force required at center of span after all losses.
 Concrete strength: f'ci is at time of initial stressing, f'c is at 28 days, MPa.
 Deflection components: Informational - to be used in setting screed line elevations.
 Screed line elevations for deck concrete will be determined by the Engineer.
 Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.
 For the table below, see "Girder Layout No. 1" sheet.

NO SCALE
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

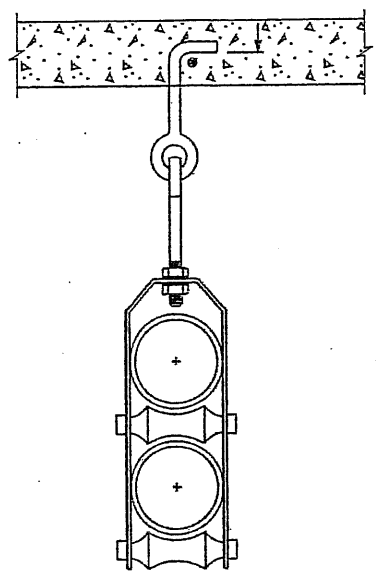
STANDARD DRAWING				Revised Notes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 35-0113 KILOMETER POST 0.89	UNIVERSITY AVENUE OVERCROSSING (WIDEN) PRESTRESSED I GIRDER
FILE NO. Xs 12-36	DESIGN BY ROBERT K. DOWELL	CHECKED A.W. DEETER	APPROVAL RECOMMENDED BY	Added Notes			
DRAWING DATE 4/98	DETAILS BY R. YEE	CHECKED A.W. DEETER	DESIGN SUPERVISOR		CU 04245		REVISION DATES (PRELIMINARY STAGE ONLY)
SUBMITTED BY ALVIN W. DEETER					DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 14 OF 17



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SM	101	1.2/2.2	101	103
<i>Odeon M. LI</i> 12/15/03 REGISTERED CIVIL ENGINEER					
PLANS APPROVAL DATE					
<i>Odeon M. LI</i> No. 31895 Exp. 12-31-04 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 2200 University Ave East Palo Alto, CA 94303					
CCS Planning and Engineering, Inc. 6 Crow Canyon Court San Ramon, CA 94583-1621					



SINGLE PIPE PIPE HANGER
No scale



DOUBLE PIPES PIPE HANGER
No scale

Notes:
For details not shown, see "Single pipe pipe hanger" details.

Notes:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

All dimensions are in millimeters unless otherwise shown.

DESIGN OVERSIGHT <i>[Signature]</i> 12-16-03 SIGN OFF DATE	DESIGN BY Eng Yeong	CHECKED Odeon M. LI	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER Odeon M. LI	BRIDGE NO. 35-0113	UNIVERSITY AVE OVERCROSSING (WIDEN) MISCELLANEOUS DETAILS
	DETAILS BY Eng Yeong	CHECKED Odeon M. LI		PROJECT ENGINEER Odeon M. LI	KILOMETER POST 1.43	
	QUANTITIES BY Eng Yeong	CHECKED Odeon M. LI		PROJECT ENGINEER Odeon M. LI		
			CU 04245	DISREGARD PRINTS BEARING		REVISION DATES (PRELIMINARY STAGE ONLY)

DATE PLOTTED => 11-DEC-2003 TIME PLOTTED => 14:39

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SM	101	1.2/2.2	102	103

GEOTECHNICAL PROFESSIONAL
 PLANS APPROVAL DATE
 GARY PARIKH
 No. G.E. 656
 Exp. 12/31/05
 STATE OF CALIFORNIA
 PROFESSIONAL ENGINEER

PARIKH CONSULTANTS, INC.
 356 SOUTH MILPITAS BLVD.
 MILPITAS CA 95035

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LEGEND OF BORING OPERATIONS

Top Hole El.
 Pressure measured on element (150mm) on tip element pressure measured on tip element
 Penetration test
 Core Penetration test
 Standard P-341-9, or as noted.

LEGEND OF BORING OPERATIONS

Top Hole El.
 Pressure measured on element (150mm) on tip element pressure measured on tip element
 Penetration test
 Core Penetration test
 Standard P-341-9, or as noted.

IN-STIL LAB & FIELD TEST DESIGNATIONS

(1) CHEMICAL ANALYSIS
 (2) CONSIDERATION
 (3) UNGRADED TRIAXIAL
 (4) DIRECT SHEAR
 (5) MAX. DRY DENSITY
 (6) POCKET PENETROMETER
 (7) SIEVE ANALYSIS
 (8) TORSION
 (9) UNCONSOLIDATED
 (10) COMPRESSION
 (11) UNCONSOLIDATED
 (12) VANE SHEAR

TYPES OF BORINGS

57 mm CONE PENETRATION
 ROTARY WASH
 ELECTRONIC CONE PENETROMETER
 AUGER BORING
 TEST PIT
 RANDOM CORE BORING
 SOIL TUBE

LEGEND OF EARTH MATERIALS (USCS)

FILL MATERIAL
 CLAY CL. OR CH
 SILT CL. OR MH
 PEAT OR/OR
 ORGANIC MATTER
 WELL-GRADED SAND
 SAND (SW)
 SAND (SP)
 CLAYEY SAND (SC)
 CLAYEY SILT (CL)
 SILT (ML)
 SILT (MH)
 COBBLES/BOLDS
 UREOUS ROCK
 SEDIMENTARY
 METASERPENTINE
 ROCK

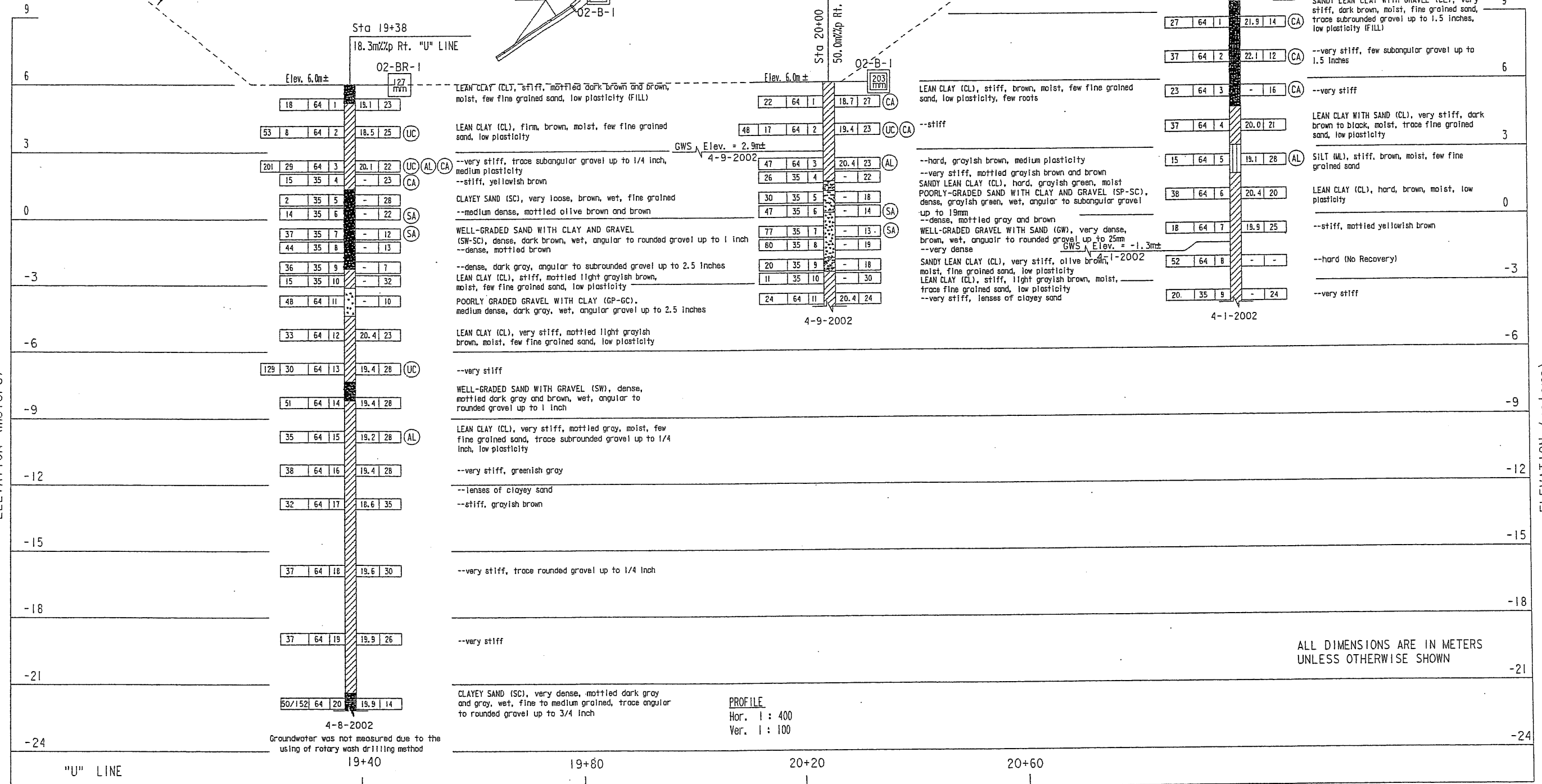
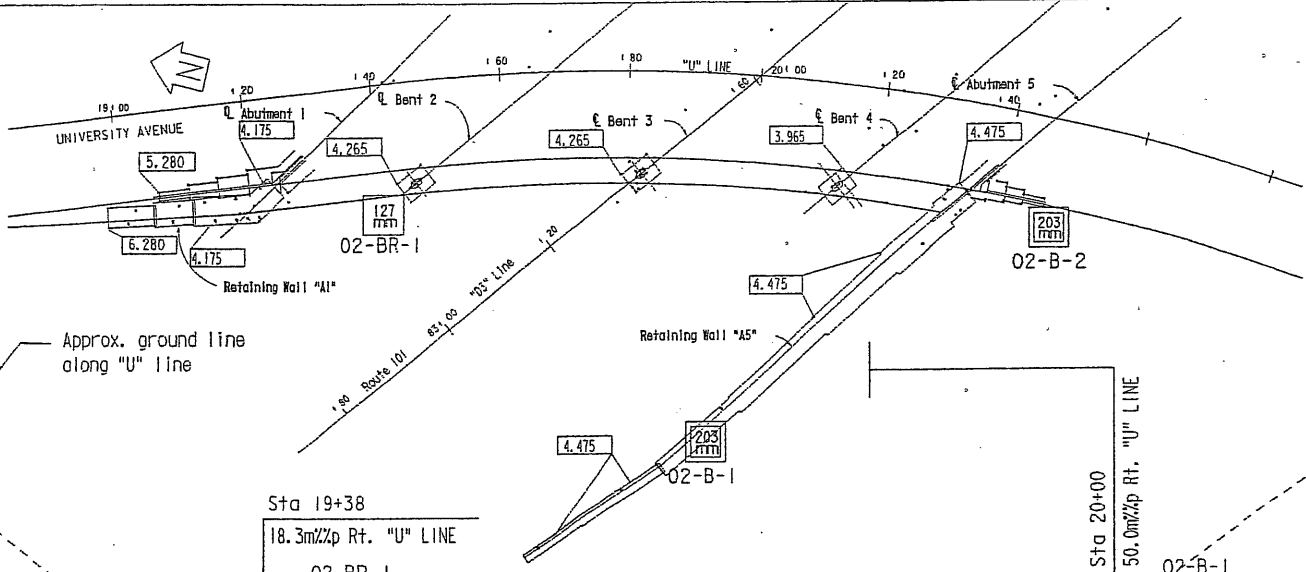
CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test (ASTM D-1586)
 SPT Blows/305mm
 0-4 Very loose
 5-10 Loose
 11-30 Medium Dense
 31-50 Dense
 >50 Very Dense

Consistency
 Very soft
 Soft
 Firm
 Stiff
 Very stiff
 Hard

Visual classification of earth materials are based on field inspection and/or confirmed or revised with laboratory test results as necessary.

BENCH MARK
 BM # AB86
 NGVD 29. A disc on the easterly curb of the University Avenue Overcrossing
 Elev. = 12.927m



DESIGN OVERSIGHT SIGN OFF DATE 10/16/03	FIELD INVESTIGATOR F. WANG/D. ALEXANDER	DATE APRIL 2002	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO 35-0113	UNIVERSITY AVENUE OVERCROSSING (WIDEN)
	DRAWN BY R. Au	DATE SEP 2002		KILOMETER POST 1.43 (PM 0.89)	LOG OF TEST BORINGS
	CHECKED BY Y. DAVID WANG	DATE SEP 2002			1 OF 2
			PROJECT ENGINEER Y. DAVID WANG	DISREGARD PRINTS BEARING	REVISION DATES (PRELIMINARY STAGE ONLY)
			CU 04245		SHEET OF

ACAD\201203-BR\10TB-FOUNDATION REPORT.DWG

