Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	1	939

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN MENDOCINO COUNTY
IN AND NEAR WILLITS
FROM 1.3 KM SOUTH OF HAEHL OVERHEAD
TO 2.9 KM SOUTH OF REYNOLDS HIGHWAY

TO BE SUPPLEMENTED BY STANDARD PLANS DATED JULY 2004

INDEX OF SHEETS

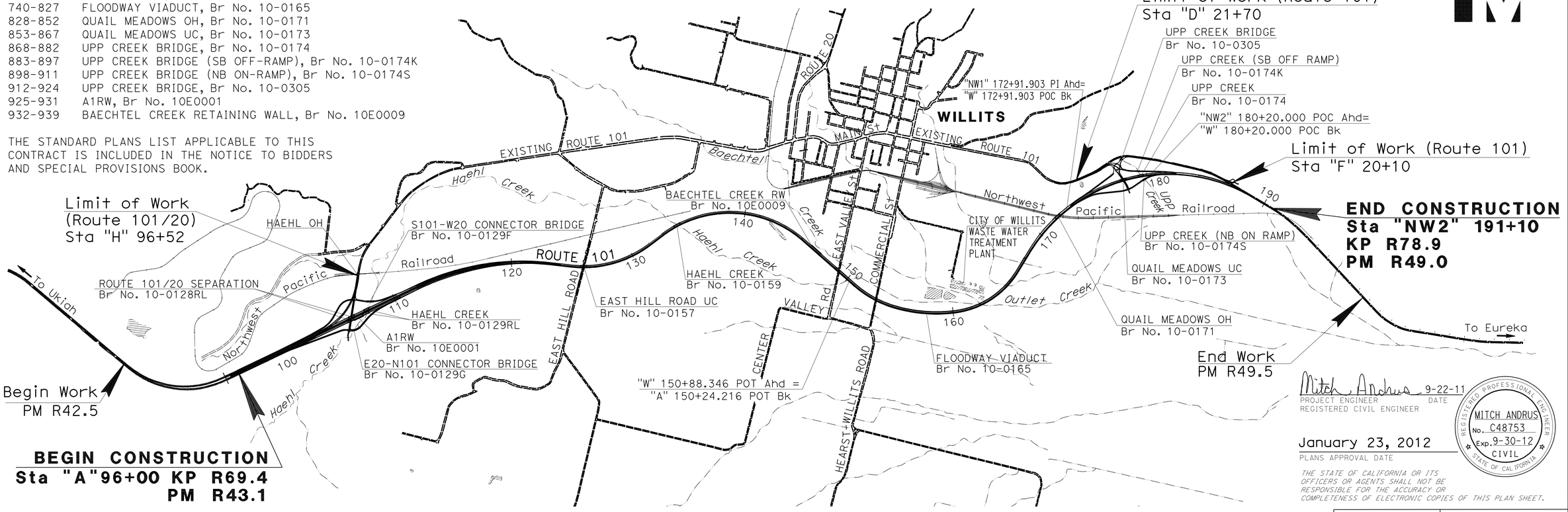
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-6	TYPICAL CROSS SECTIONS
7	KEY MAP AND LINE INDEX
8-43	LAYOUTS
44-72	PROFILES AND SUPERELEVATION DIAGRAM
73-172	CONSTRUCTION DETAILS
173-178	TEMPORARY WATER POLLUTION CONTROL DETAILS
179-229	EROSION CONTROL PLANS, DETAILS AND QUANTITIES
230-241	CONTOUR GRADING PLANS
242-408	DRAINAGE PLANS, PROFILES, DETAILS AND QUANTITIES
409-417	UTILITY PLANS
418-419	CONSTRUCTION AREA SIGNS
420-456	STAGE CONSTRUCTION PLANS
457	STAGE CONSTRUCTION AND TRAFFIC HANDLING QUANTITIES
458-489	PAVEMENT DELINEATION AND SIGN PLANS
490-491	PAVEMENT DELINEATION DETAILS
492	PAVEMENT DELINEATION QUANTITIES
493-513	SIGN DETAILS AND QUANTITIES
514-520	SUMMARY OF QUANTITIES
521-522	PLANTING PLANS
523	IRRIGATION PLAN
524-528	LANDSCAPE DETAILS
529-543	ELECTRICAL PLANS
544-631	REVISED AND NEW STANDARD PLANS

STRUCTURE PLANS

632-649	ROUTE 101/20 SEPARATION, Br No. 10-0128RL
650-667	S101-W20 CONNECTOR BRIDGE, Br No. 10-0129F
668-680	E20-N101 CONNECTOR BRIDGE, Br No. 10-0129G
681-706	HAEHL CREEK, Br No. 10-0129RL
707-720	EAST HILL ROAD UC, Br No. 10-0157
721-739	HAEHL CREEK, Br No. 10-0159
740-827	FLOODWAY VIADUCT, Br No. 10-0165
828-852	QUAIL MEADOWS OH, Br No. 10-0171
853-867	QUAIL MEADOWS UC, Br No. 10-0173
868-882	UPP CREEK BRIDGE, Br No. 10-0174
883-897	UPP CREEK BRIDGE (SB OFF-RAMP), Br No. 10-0174K
898-911	UPP CREEK BRIDGE (NB ON-RAMP), Br No. 10-0174S
912-924	UPP CREEK BRIDGE, Br No. 10-0305
925-931	A1RW, Br No. 10E0001
932-939	BAECHTEL CREEK RETAINING WALL, Br No. 10E0009

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

LOCATION MAP



BEGIN CONSTRUCTION
Sta "A"96+00 KP R69.4
PM R43.1

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

NO SCALE

Mitch Andrus 9-22-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
MITCH ANDRUS
No. C48753
Exp. 9-30-12
CIVIL
STATE OF CALIFORNIA

January 23, 2012
PLANS APPROVAL DATE

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.

Caltrans Metric

PROJECT MANAGER DAVID G. KELLEY
DESIGN ENGINEER DOUGLAS S. JONES

CONTRACT No.	01-262004
PROJECT ID	0100000005

LAST REVISION 08-10-11
DATE PLOTTED => 28-JAN-2012
TIME PLOTTED => 08:34

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	2	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

Caltrans Metric

NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR LOCATION OF HMA DIKE SEE LAYOUT SHEETS.
4. FOR LOCATION OF MBGR SEE CONSTRUCTION DETAILS.
5. WIDTHS SHOWN ON RAMP ARE NORMAL TO RAMP LAYOUT LINE.
6. SEE DRAINAGE PLANS FOR DITCH LOCATIONS

ABBREVIATIONS:

CRZ = CLEAR RECOVERY ZONE
LTS = LIME TREATED SUBGRADE
RHMA = RUBBERIZED HOT MIX ASPHALT

STRUCTURAL SECTIONS

[1] 30 mm RHMA-O (PG 64-16)
60 mm RHMA-G (PG 64-16)
60 mm HMA (PG 64-28 PM)
690 mm CLASS 2 AB

[2] 30 mm RHMA-O (PG 64-16)
105 mm (Min) RHMA-G (PG 64-16)
GEOSYNTHETIC Pvmt INTERLAYER

[3] 25 mm COLD PLANE AC Pvmt
30 mm RHMA-O (PG 64-16)
105 mm (Min) RHMA-G (PG 64-16)
GEOSYNTHETIC Pvmt INTERLAYER

[4] 30 mm RHMA-O (PG 64-16)
60 mm RHMA-G (PG 64-16)

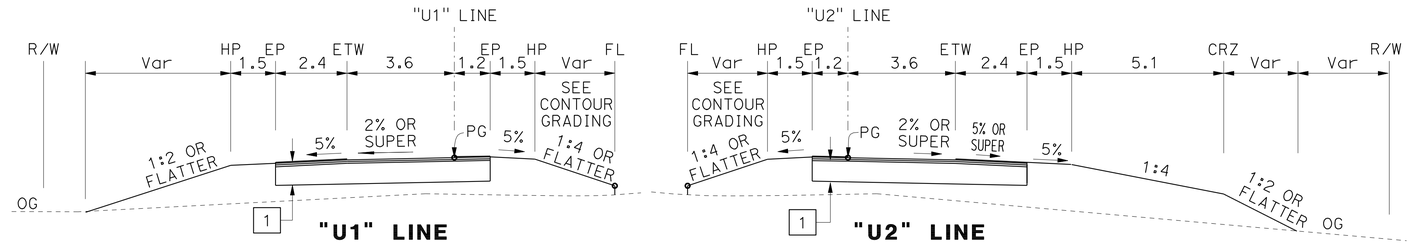
[5] 60 mm RHMA-G (PG 64-16)
140 mm CLASS 2 AB

[6] 60 mm RHMA-G (PG 64-16)

[7] 30 mm RHMA-O (PG 64-16)
60 mm RHMA-G (PG 64-16)
60 mm HMA (PG 64-28 PM)
485 mm CLASS 2 AB

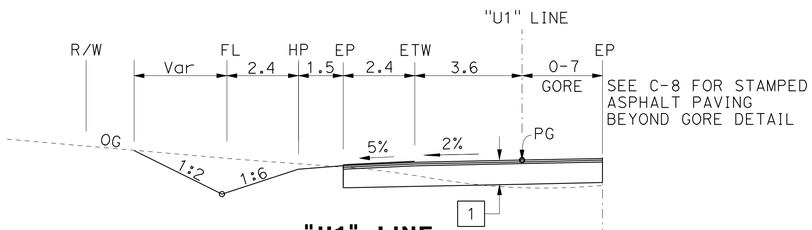
[8] 30 mm RMHA-O (PG 64-16)
60 mm RHMA-G (PG 64-16)
60 mm HMA (PG 64-28)
605 mm CLASS 2 AB

[9] EXISTING STRUCTURAL DEPTH
122 mm (0.40') AC (TYPE A)
274 mm (0.90') CLASS "A" CTB
305 mm (1.00') LTS



"U1" LINE
Sta "U1" 101+48.900 TO "U1" 105+82.478

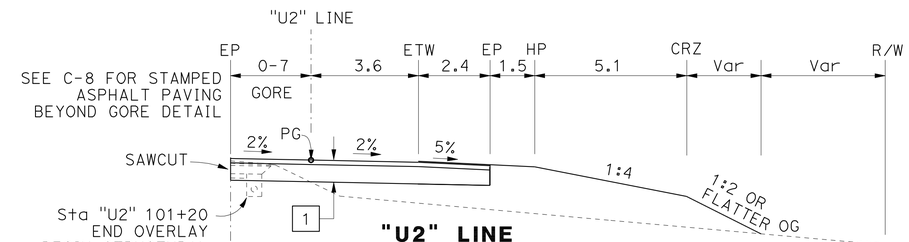
"U2" LINE
Sta "U2" 101+82.17 TO "U2" 105+66.883



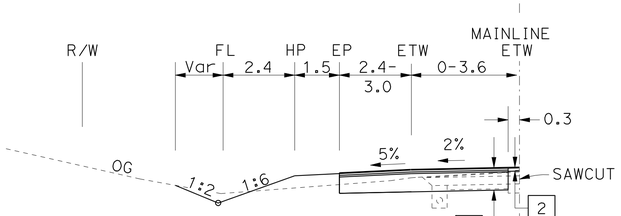
"U1" LINE
Sta "U1" 99+48.581 TO "U1" 101+48.900=
Sta "A" 101+00.000 TO "A" 103+00.240

DESIGN DESIGNATION (ROUTE 101)

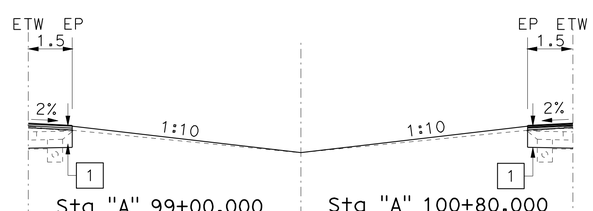
2008 AADT = 14 400 D = 55%
2033 AADT = 19 125 T = 6%
DHV = 1 435 V = 110 km/h
$ESAL_{20}$= 5 400 000 TI_{20} = 11.0



"U2" LINE
Sta "U2" 100+80.000 TO "U2" 101+82.170=
Sta "A" 100+80.000 TO "A" 101+62.000

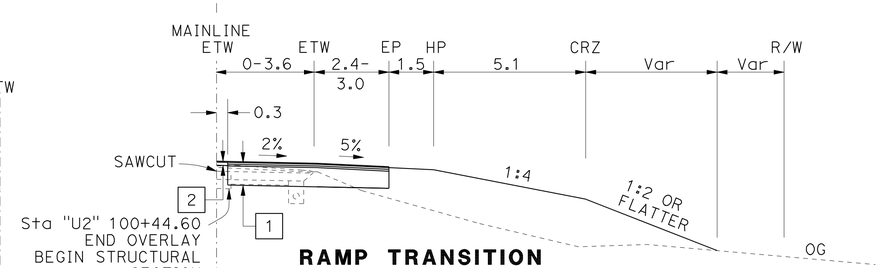


RAMP TRANSITION
Sta "A" 99+40.000 TO "A" 101+00.00

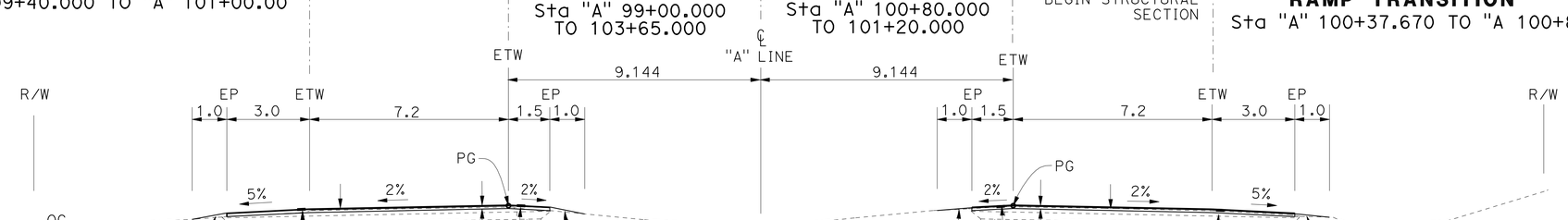


Sta "A" 99+00.000 TO 103+65.000

Sta "A" 100+80.000 TO 101+20.000



RAMP TRANSITION
Sta "A" 100+37.670 TO "A 100+80.000



SOUTHBOUND
Sta "A" 96+00.000 TO "A" 103+65.000

NORTHBOUND
Sta "A" 96+00.000 TO "A" 101+20.000

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ROUTE 101
"A" LINE

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 06-02-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	3	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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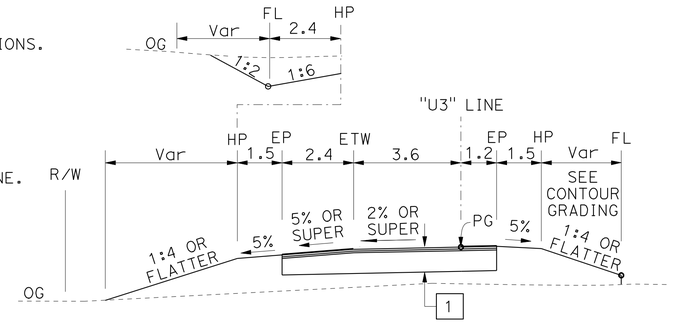
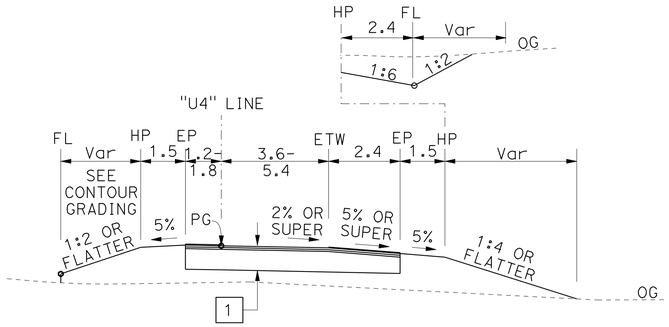
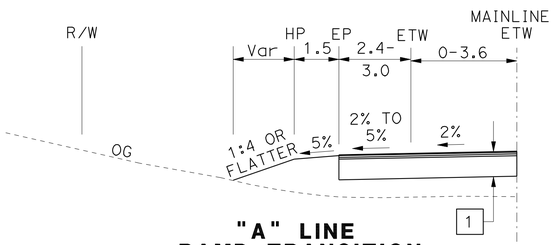
5. WIDTHS SHOWN ON RAMP ARE NORMAL TO RAMP LAYOUT LINE.
6. SEE DRAINAGE PLANS FOR DRAINAGE BASINS AND DITCH LOCATIONS



"U3" LINE
Sta "U3" 106+73.943 TO "U3" 110+30



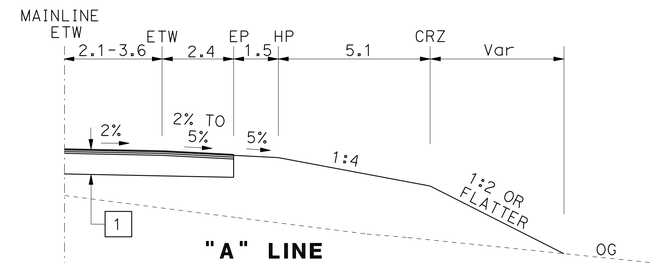
"U4" LINE
Sta "U4" 105+43.196 TO "U4" 119+09.090



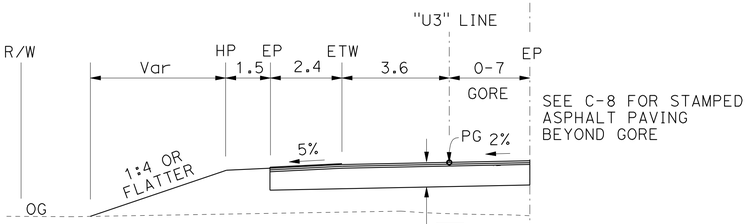
"A" LINE
RAMP TRANSITION
Sta "A" 110+30.000 TO "A" 110+72.240

DESIGN DESIGNATION (ROUTE 101)

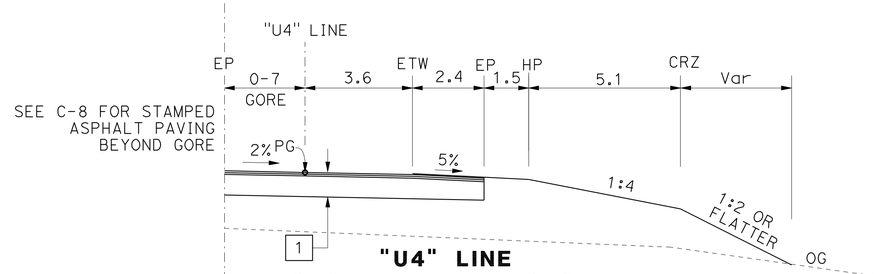
2008 AADT = 14 400 D = 55%
2033 AADT = 19 125 T = 6%
DHV = 1 435 V = 110 km/h
$ESAL_{20}$ = 5 400 000 TI_{20} = 11.0



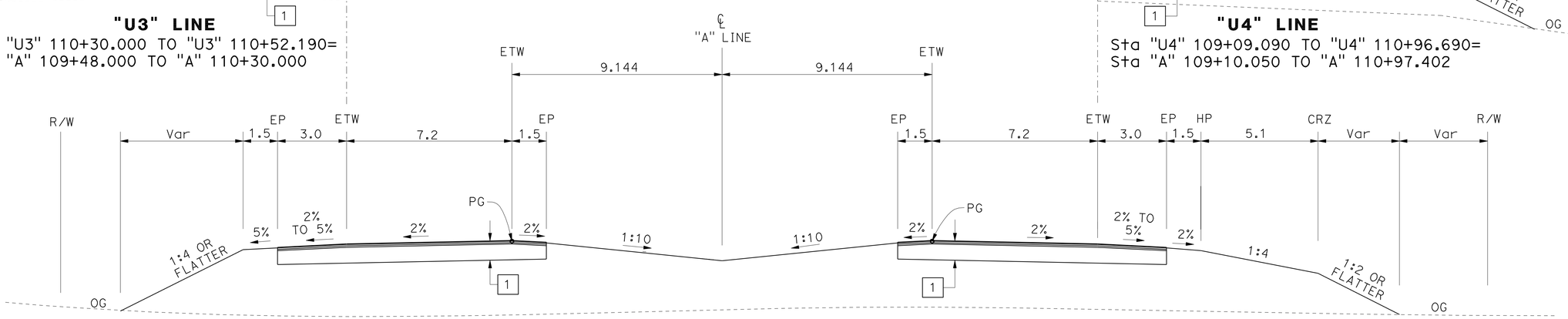
"A" LINE
RAMP TRANSISTION
Sta "A" 110+97.402 TO "A" 111+80



"U3" LINE
Sta "U3" 110+30.000 TO "U3" 110+52.190=
Sta "A" 109+48.000 TO "A" 110+30.000



"U4" LINE
Sta "U4" 109+09.090 TO "U4" 110+96.690=
Sta "A" 109+10.050 TO "A" 110+97.402



SOUTHBOUND
Sta "A" 103+65.000 TO "A" 111+80.000

NORTHBOUND
Sta "A" 101+20.000 TO "A" 111+80.000

ROUTE 101
"A" LINE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

TYPICAL CROSS SECTIONS

NO SCALE

X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 06-01-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	4	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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DESIGN DESIGNATION (ROUTE 101)

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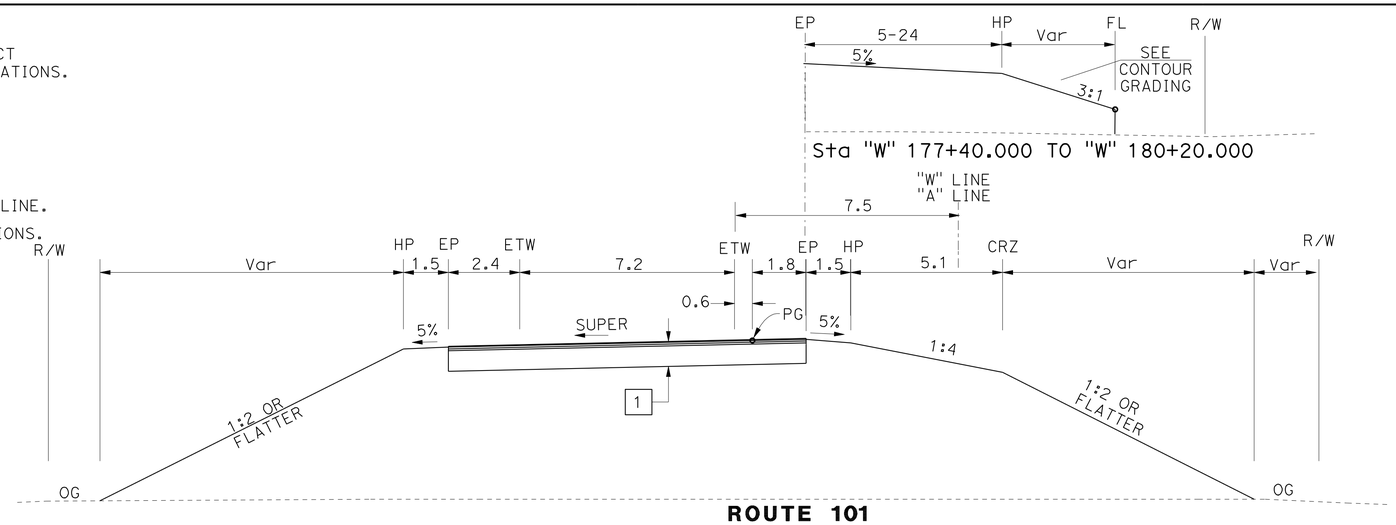
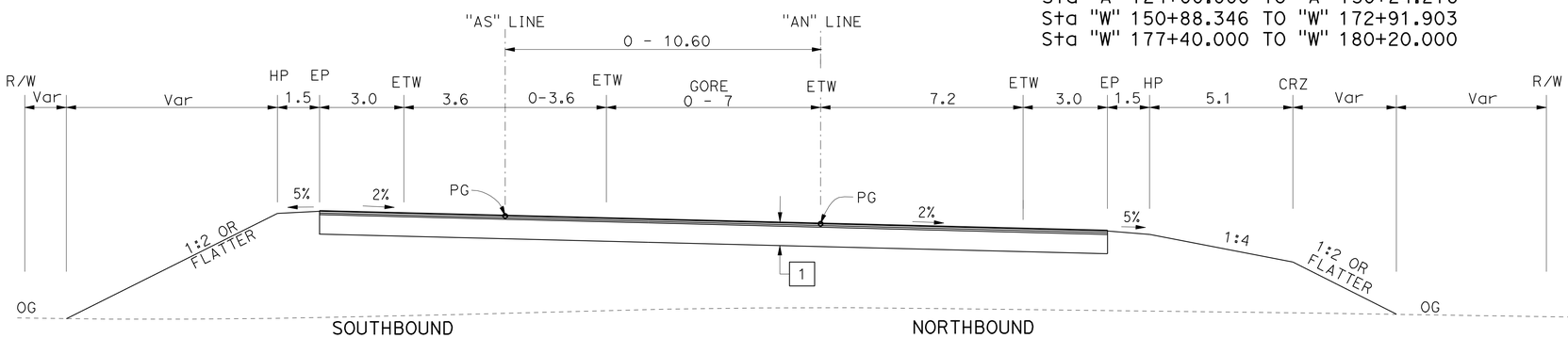
2033 AADT = 19 125 T = 6%
DHV = 1 435 V = 110 km/h
ESAL = 5 400 000 TI = 11.0



ROUTE 101
"A" LINE
"W" LINE

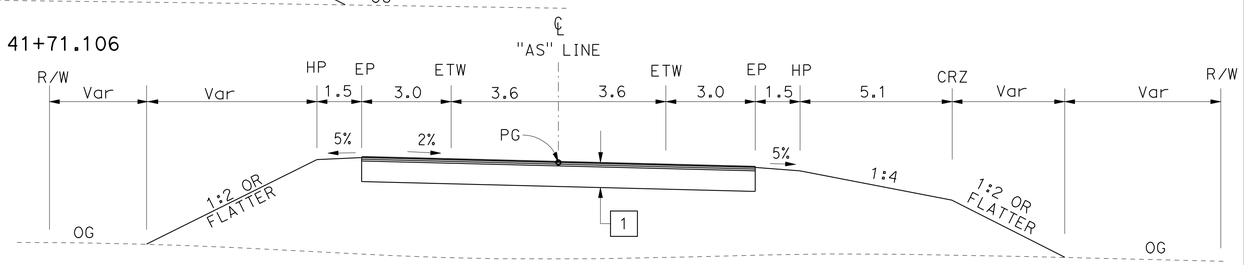
Sta "A" 124+00.000 TO "A" 150+24.216
Sta "W" 150+88.346 TO "W" 172+91.903
Sta "W" 177+40.000 TO "W" 180+20.000



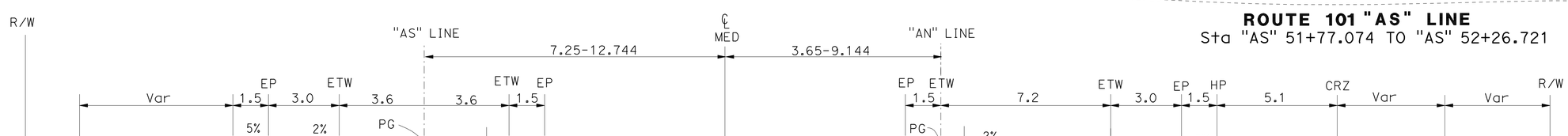
SOUTHBOUND
Sta "AS" 46+07.050 TO "AS" 51+77.074

NORTHBOUND
Sta "AN" 36+02.460 TO "AN" 41+71.106

ROUTE 101
"AN" LINE
"AS" LINE



ROUTE 101 "AS" LINE
Sta "AS" 51+77.074 TO "AS" 52+26.721



SOUTHBOUND
Sta "AS" 40+00.000 TO "AS" 46+07.050

ROUTE 101
"AN" LINE
"AS" LINE

NORTHBOUND
Sta "AN" 30+00.000 TO "AN" 36+02.460

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

TYPICAL CROSS SECTIONS

NO SCALE

X-3

REVISED BY | DATE REVISED
MITCH ANDRUS | MELISSA HAURY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 06-01-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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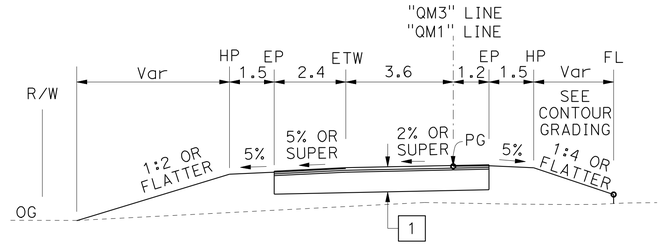
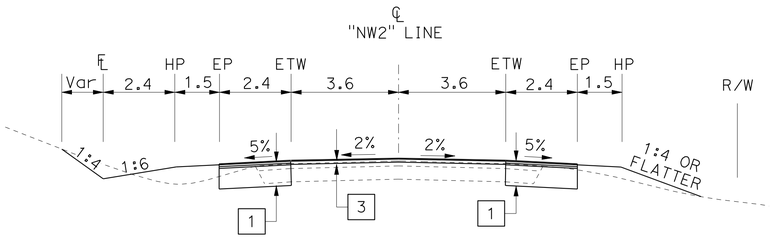


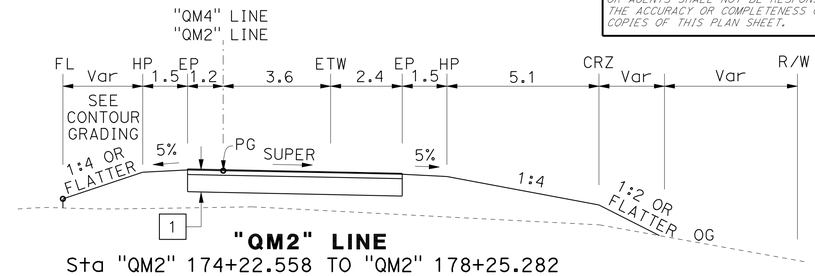
"QM1" LINE
Sta "QM1" 175+21.670 TO "QM1" 177+43.360
"QM3" LINE
Sta "QM3" 178+91.264 TO "QM3" 181+09.667



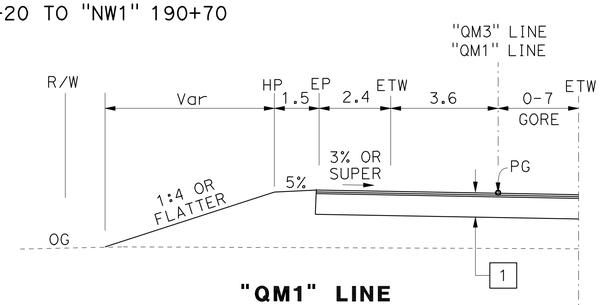
ROUTE 101
"NW2" LINE
Sta "NW1" 188+20 TO "NW1" 190+70

DESIGN DESIGNATION (ROUTE 101)

2008 AADT = 14 400 D = 55%
2033 AADT = 19 125 T = 6%
DHV = 1 435 V = 110 km/h
ESAL = 5 400 000 TI = 11.0

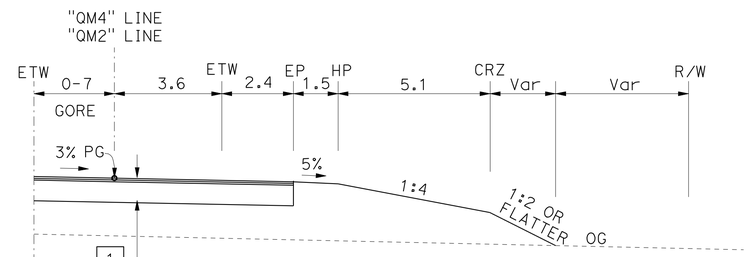


"QM2" LINE
Sta "QM2" 174+22.558 TO "QM2" 178+25.282
"QM4" LINE
Sta "QM4" 178+19.152 TO "QM4" 180+62.800

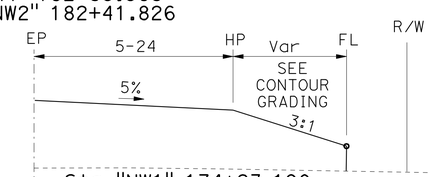


"QM1" LINE
Sta "QM1" 173+40.000 TO "QM1" 175+21.670=
Sta "NW1" 173+40.392 TO "NW1" 174+21.370
"QM3" LINE
Sta "QM3" 181+09.667 TO "QM3" 181+92.763=
Sta "NW2" 181+11.910 TO "NW2" 181+94.000

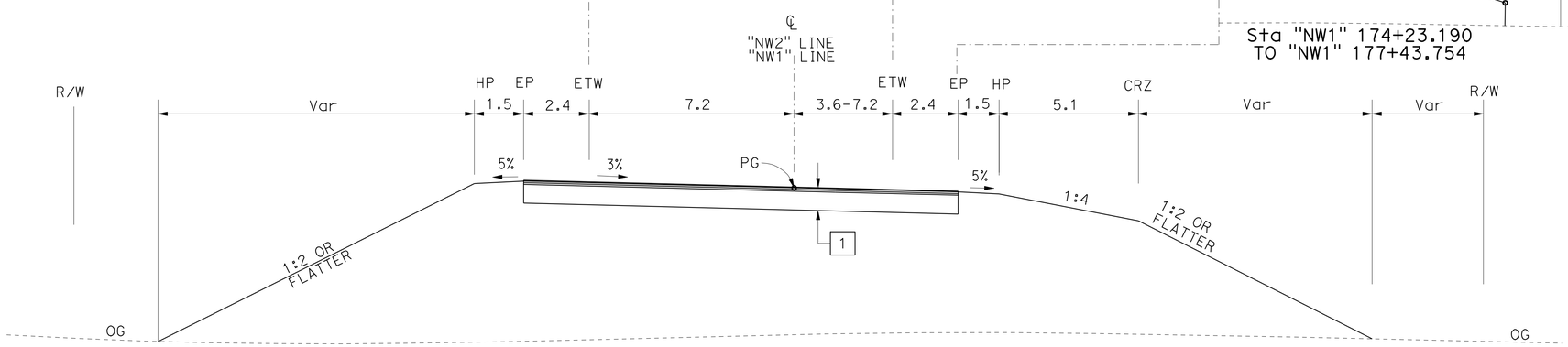
SEE C-8 FOR STAMPED ASPHALT PAVING BEYOND GORE



"QM2" LINE
Sta "QM2" 173+40.000 TO "QM2" 174+22.558=
Sta "NW1" 173+40.391 TO "NW1" 174+23.190
"QM4" LINE
Sta "QM4" 180+62.80 TO "QM4" 182+39.963=
Sta "NW2" 180+64.072 TO "NW2" 182+41.826



Sta "NW1" 174+23.190
TO "NW1" 177+43.754



ROUTE 101
"NW1" LINE
"NW2" LINE
Sta "NW1" 172+91.903 TO "NW1" 177+43.754
Sta "NW2" 180+20.000 TO "NW2" 188+20.000

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

TYPICAL CROSS SECTIONS

NO SCALE

X-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR DOUGLAS S. JONES
CALCULATED-DESIGNED BY MITCH ANDRUS
CHECKED BY MELISSA HAURY
REVISED BY DATE REVISED

LAST REVISION 06-01-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:54

NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR LOCATION OF HMA DIKE SEE LAYOUT SHEETS.
4. FOR LOCATION OF MBGR SEE CONSTRUCTION DETAILS.
5. WIDTHS SHOWN ON RAMP ARE NORMAL TO RAMP LAYOUT LINE.
6. SEE C-8 FOR DRAINAGE BASIN AND DITCH LOCATIONS.

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	6	939

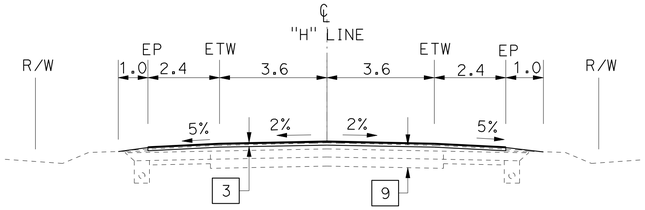
Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

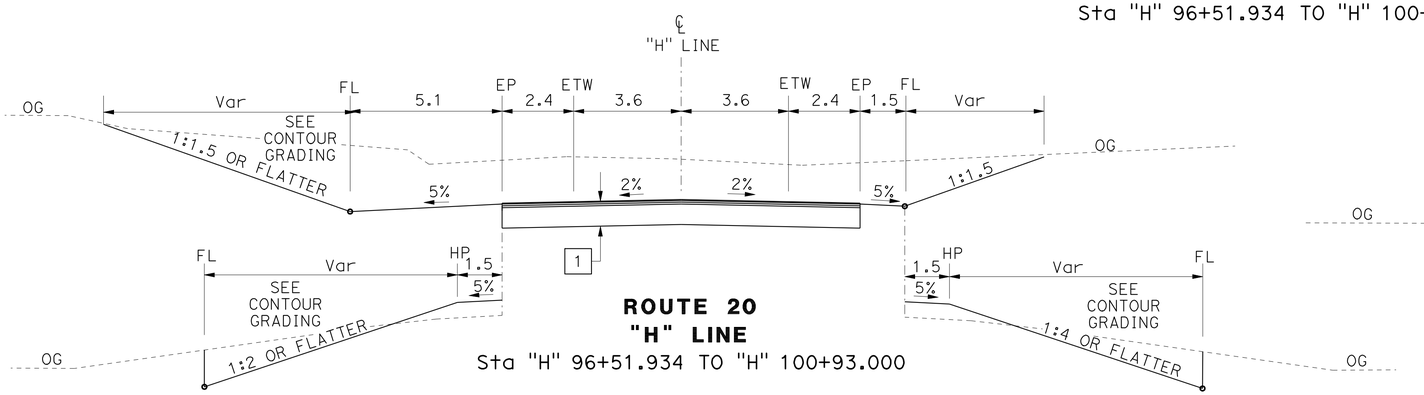
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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.

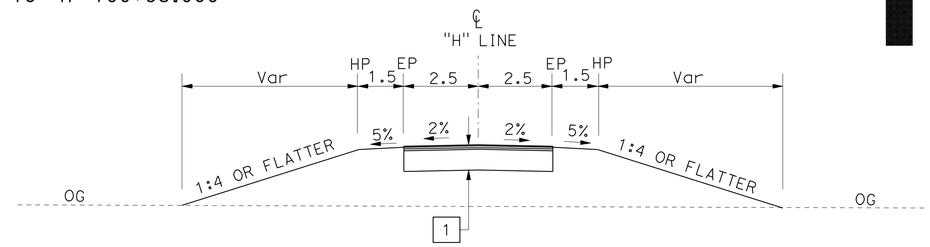
Caltrans Metric



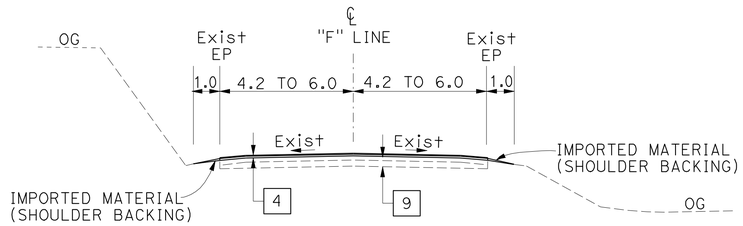
ROUTE 20
"H" LINE
Sta "H" 96+51.934 TO "H" 100+93.000



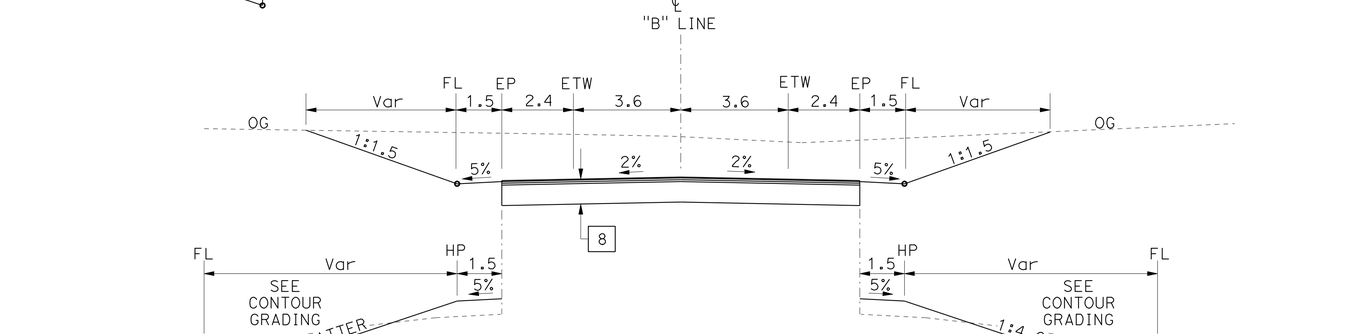
ROUTE 20
"H" LINE
Sta "H" 96+51.934 TO "H" 100+93.000



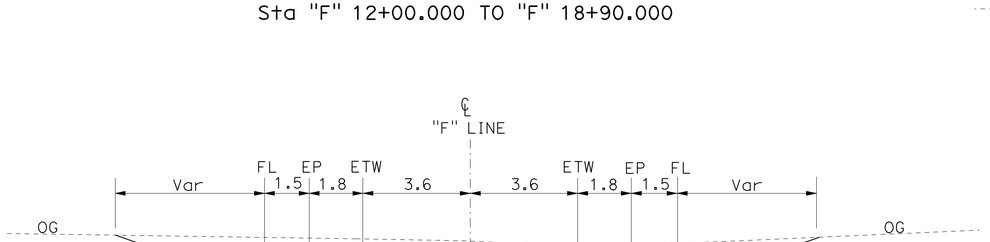
"H" LINE
Sta "H" 100+93.000 TO "H" 101+46.610



"F" LINE
Sta "F" 12+00.000 TO "F" 18+90.000

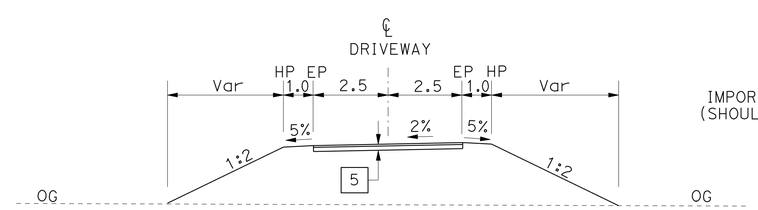


"B" LINE
Sta "B" 9+66.000 TO "B" 10+75.969

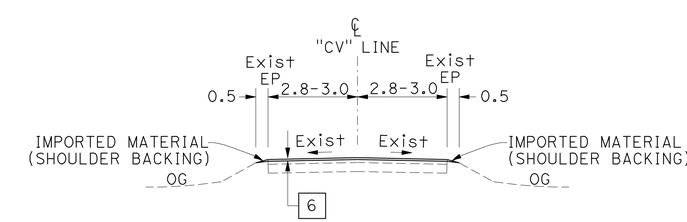


NOTE:
SEE C-4 FOR CUL-DE-SAC DETAIL LOCATED AT END OF "F" LINE

"F" LINE
Sta "F" 18+90.000 TO "F" 20+10.448



DRIVEWAYS



"CV" LINE
Sta "CV" 8+90.000 TO "CV"11+30.000

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

TYPICAL CROSS SECTIONS

NO SCALE

X-5

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 06-01-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	7	939

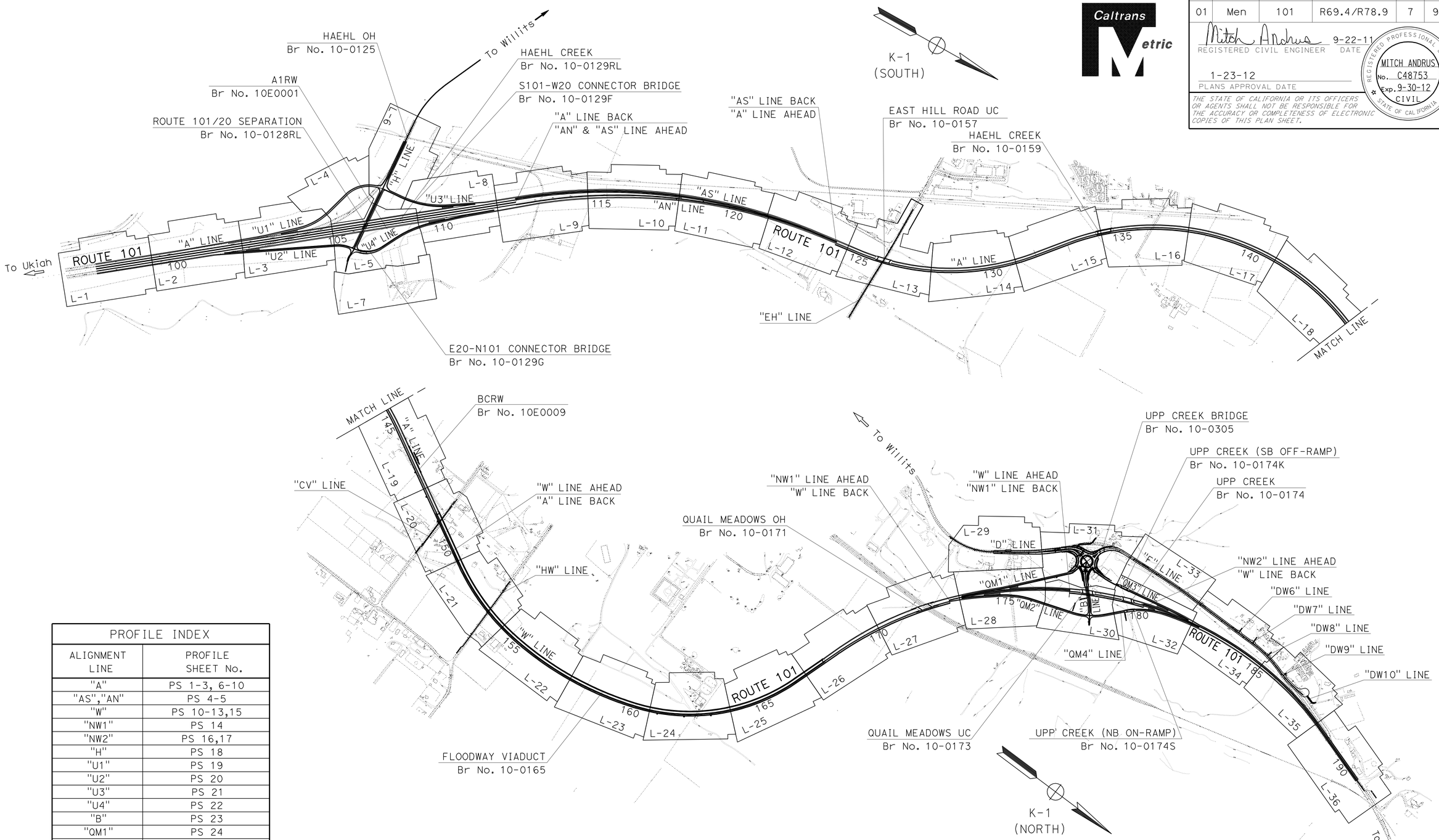
Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

Caltrans Metric



PROFILE INDEX	
ALIGNMENT LINE	PROFILE SHEET No.
"A"	PS 1-3, 6-10
"AS","AN"	PS 4-5
"W"	PS 10-13,15
"NW1"	PS 14
"NW2"	PS 16,17
"H"	PS 18
"U1"	PS 19
"U2"	PS 20
"U3"	PS 21
"U4"	PS 22
"B"	PS 23
"QM1"	PS 24
"QM2"	PS 25
"QM3"	PS 26
"QM4"	PS 27
"F"	PS 28
"DW10"	PS 29

KEY MAP AND LINE INDEX

NO SCALE

K-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-02-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	8	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

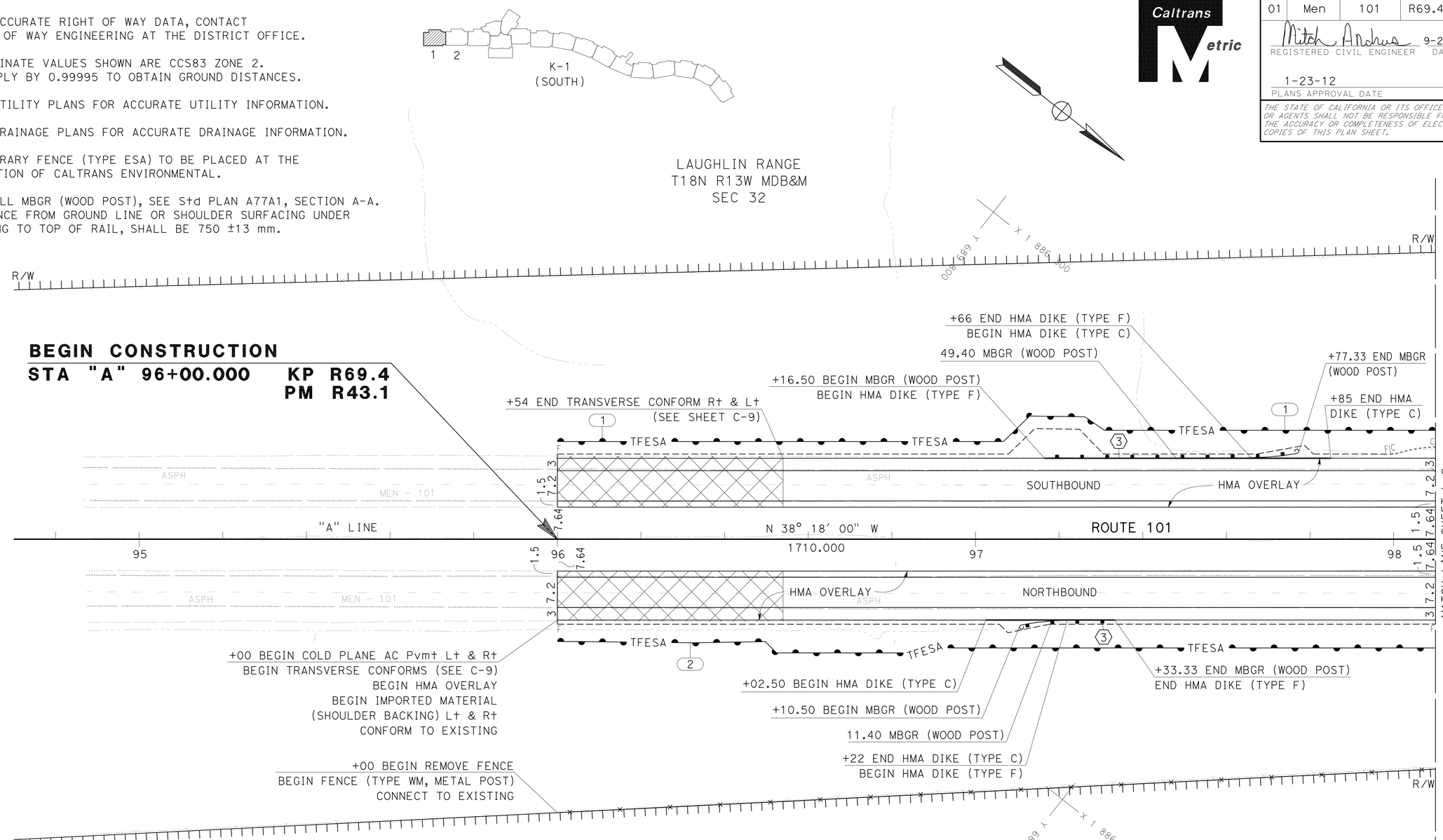
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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.

Caltrans Metric

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. FOR ALL MBGR (WOOD POST), SEE Std PLAN A77A1, SECTION A-A. DISTANCE FROM GROUND LINE OR SHOULDER SURFACING UNDER RAILING TO TOP OF RAIL, SHALL BE 750 ±13 mm.



LEGEND:

- TRANSVERSE CONFORM TAPER
- ACCESS CONTROLLED R/W
- TFESA — TEMPORARY FENCE (TYPE ESA)
- (No.) TEMPORARY FENCE (TYPE ESA) AREA No. (SEE SHEET Q-4)
- (No.)* TEMPORARY FENCE (TYPE ESA-FLOODWAY) AREA No. (SEE SHEET Q-4)

- [1] END ANCHOR ASSEMBLY (TYPE SFT)
- (1) TYPE 12B LAYOUT WITH ALTERNATIVE FLARED TERMINAL SYSTEM
- (2) TYPE 12BB LAYOUT WITH ALTERNATIVE FLARED TERMINAL SYSTEM
- (3) TYPE 16B LAYOUT WITH ALTERNATIVE FLARED TERMINAL SYSTEM
- (4) TYPE 16E LAYOUT WITH ALTERNATIVE FLARED TERMINAL SYSTEM
- (5) TYPE 12E LAYOUT
- (6) TYPE 12DD LAYOUT
- (7) TYPE 12DD LAYOUT WITH DETAIL No. 2 (STD PLAN A77J2)

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 09-16-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	9	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

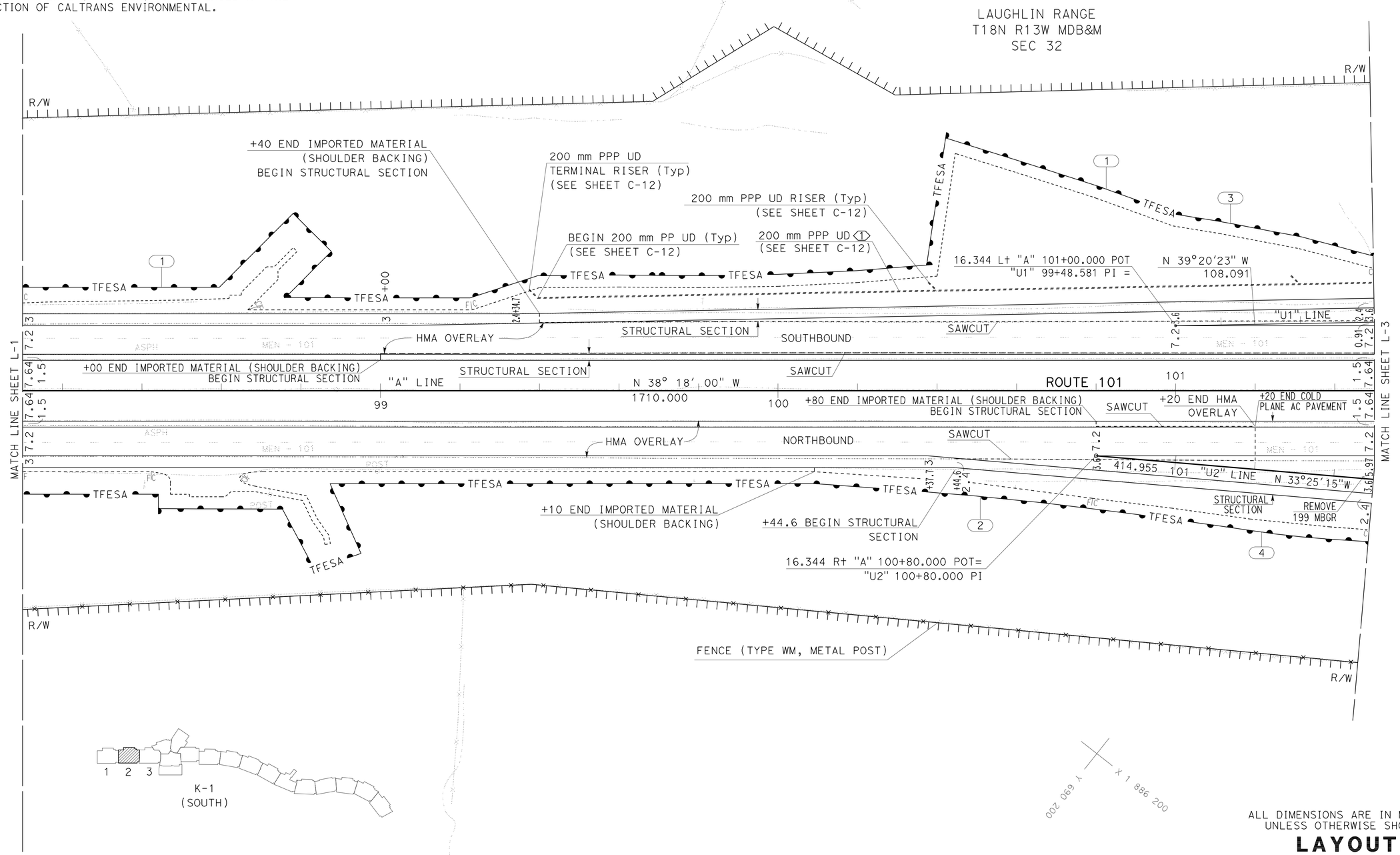
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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.

Caltrans Metric

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



LAYOUT
SCALE 1:500

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	10	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

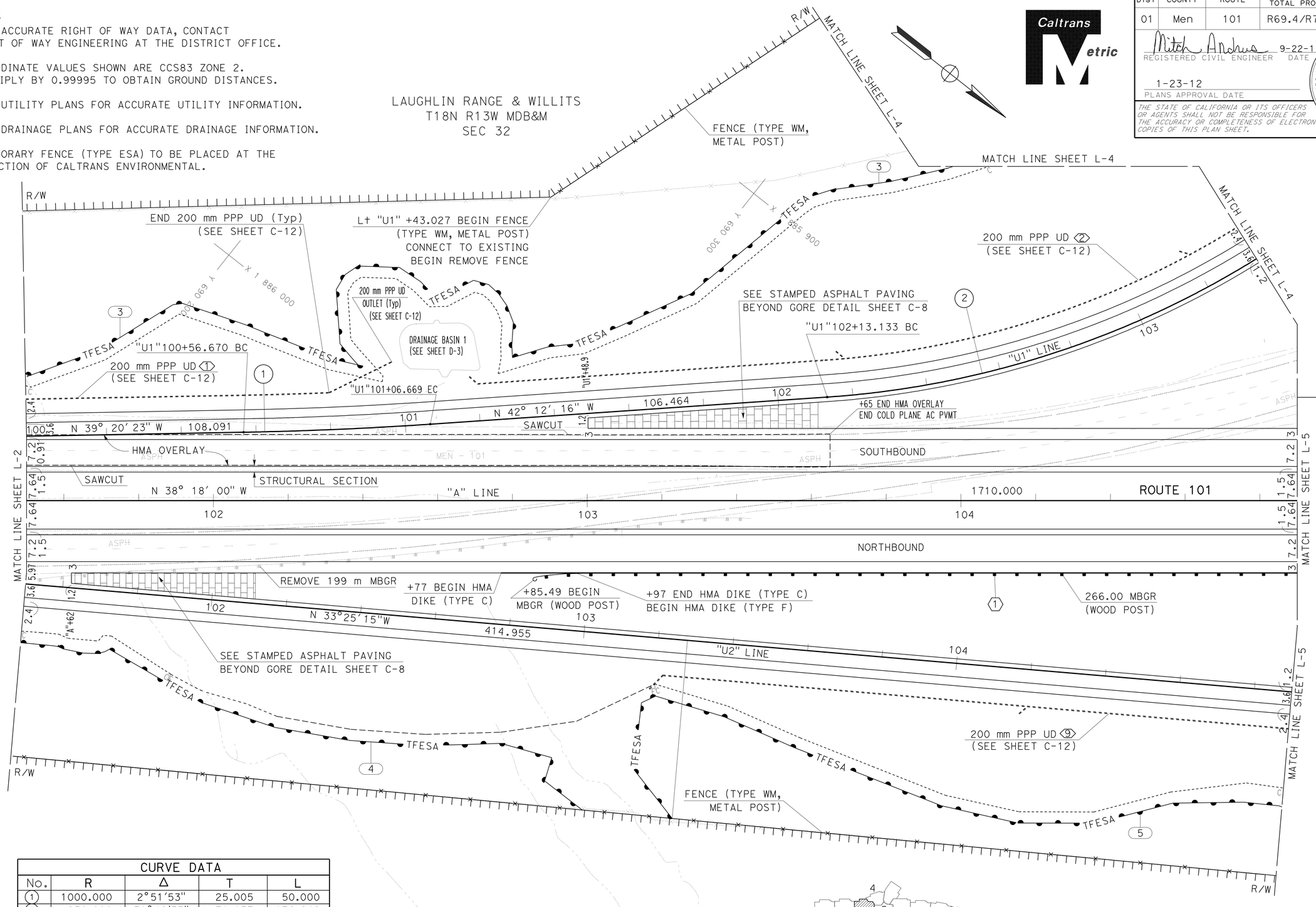
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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.

Caltrans Metric

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
1	1000.000	2°51'53"	25.005	50.000
2	250.000	31°46'33"	71.157	138.648

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	11	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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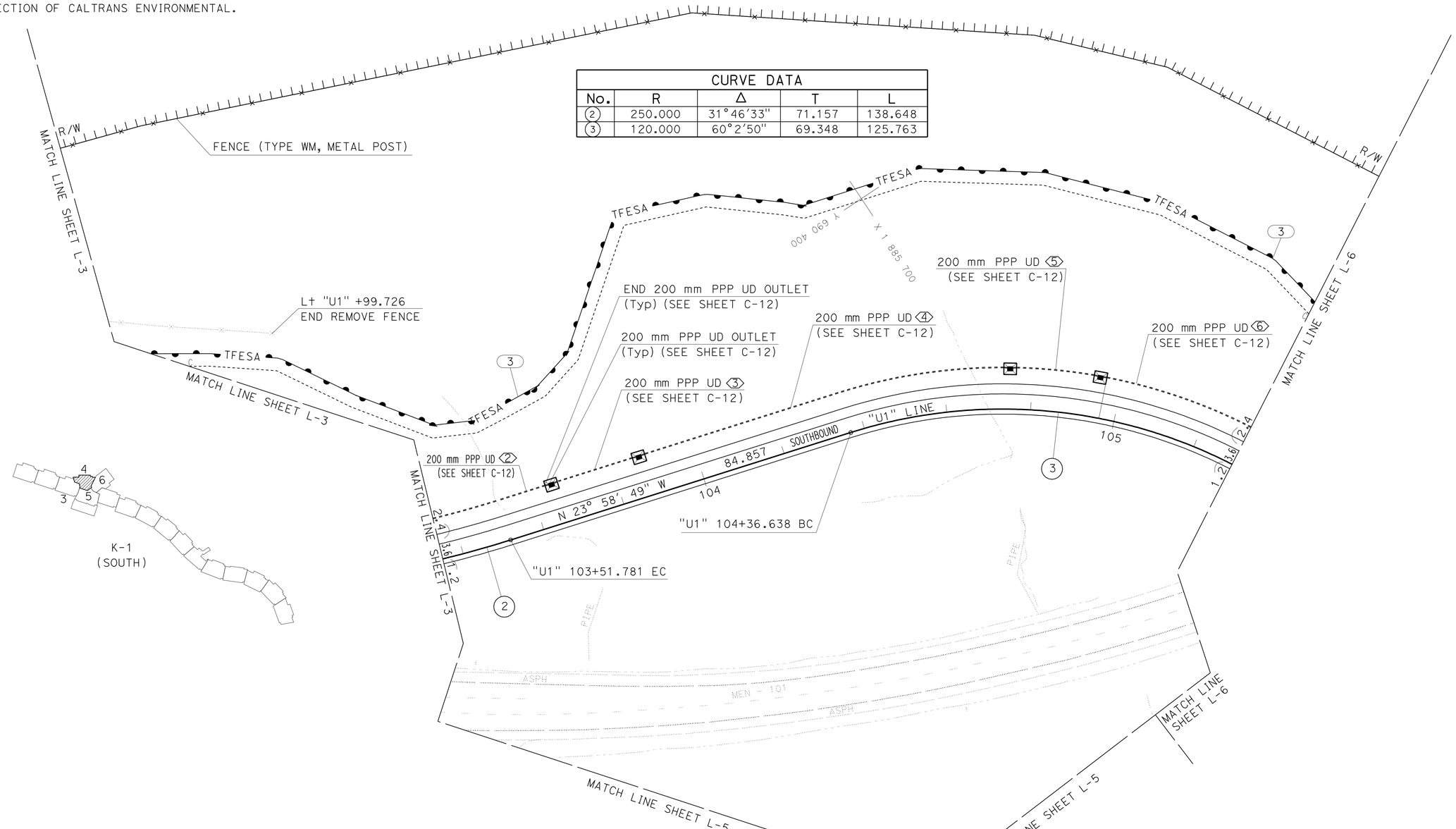
Caltrans Metric

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

LAUGHLIN RANGE & WILLITS
T18N R13W MDB&M
SEC 32

CURVE DATA				
No.	R	Δ	T	L
2	250.000	31°46′33″	71.157	138.648
3	120.000	60°2′50″	69.348	125.763



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	12	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

Caltrans Metric

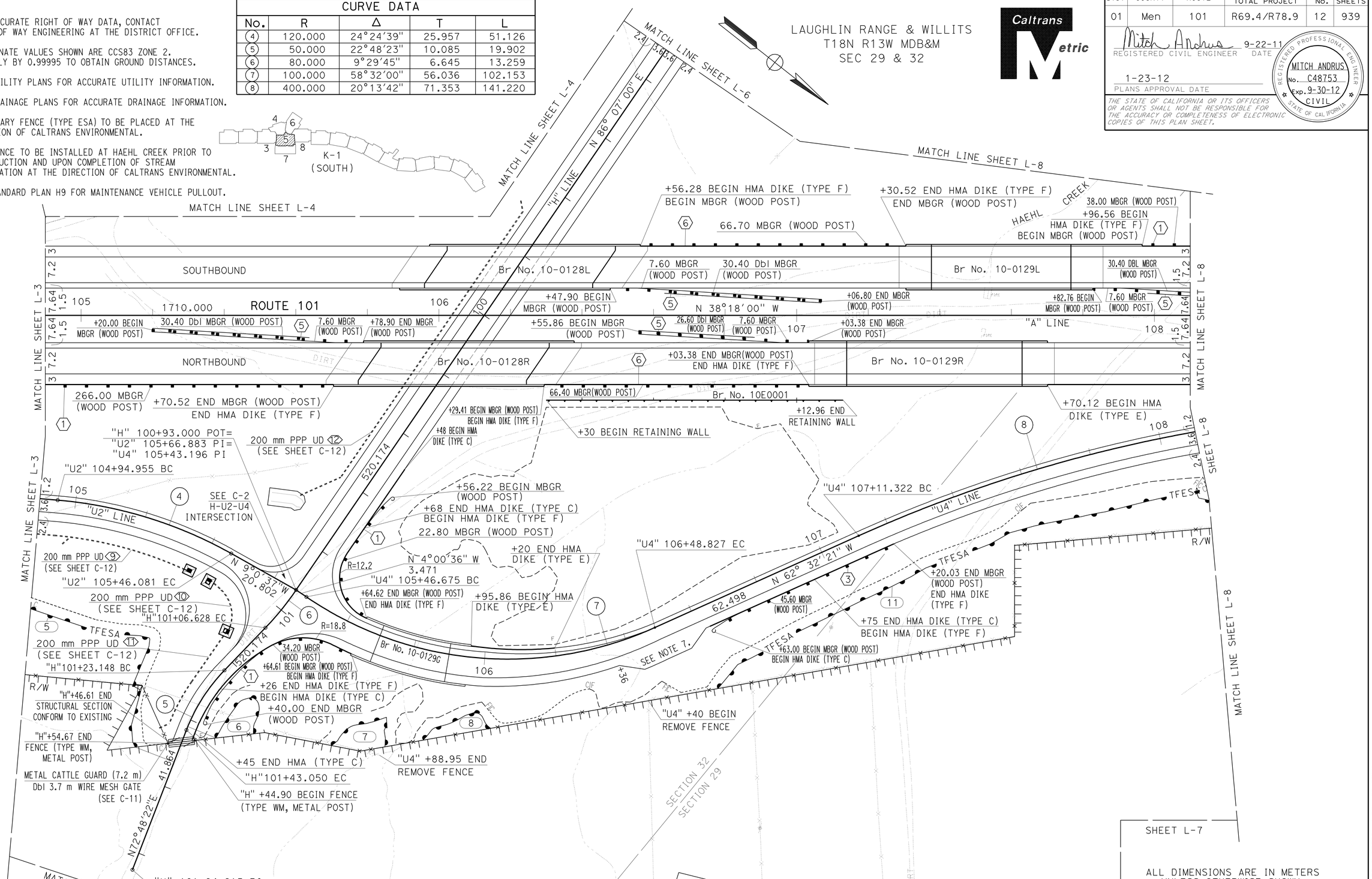
LAUGHLIN RANGE & WILLITS
T18N R13W MDB&M
SEC 29 & 32

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. ESA FENCE TO BE INSTALLED AT HAEHL CREEK PRIOR TO CONSTRUCTION AND UPON COMPLETION OF STREAM RESTORATION AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
7. SEE STANDARD PLAN H9 FOR MAINTENANCE VEHICLE PULLOUT.

CURVE DATA

No.	R	Δ	T	L
4	120.000	24°24′39"	25.957	51.126
5	50.000	22°48′23"	10.085	19.902
6	80.000	9°29′45"	6.645	13.259
7	100.000	58°32′00"	56.036	102.153
8	400.000	20°13′42"	71.353	141.220



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 09-06-11
DATE PLOTTED => 02-APR-2012
TIME PLOTTED => 11:17

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	13	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

Caltrans Metric

NOTES:

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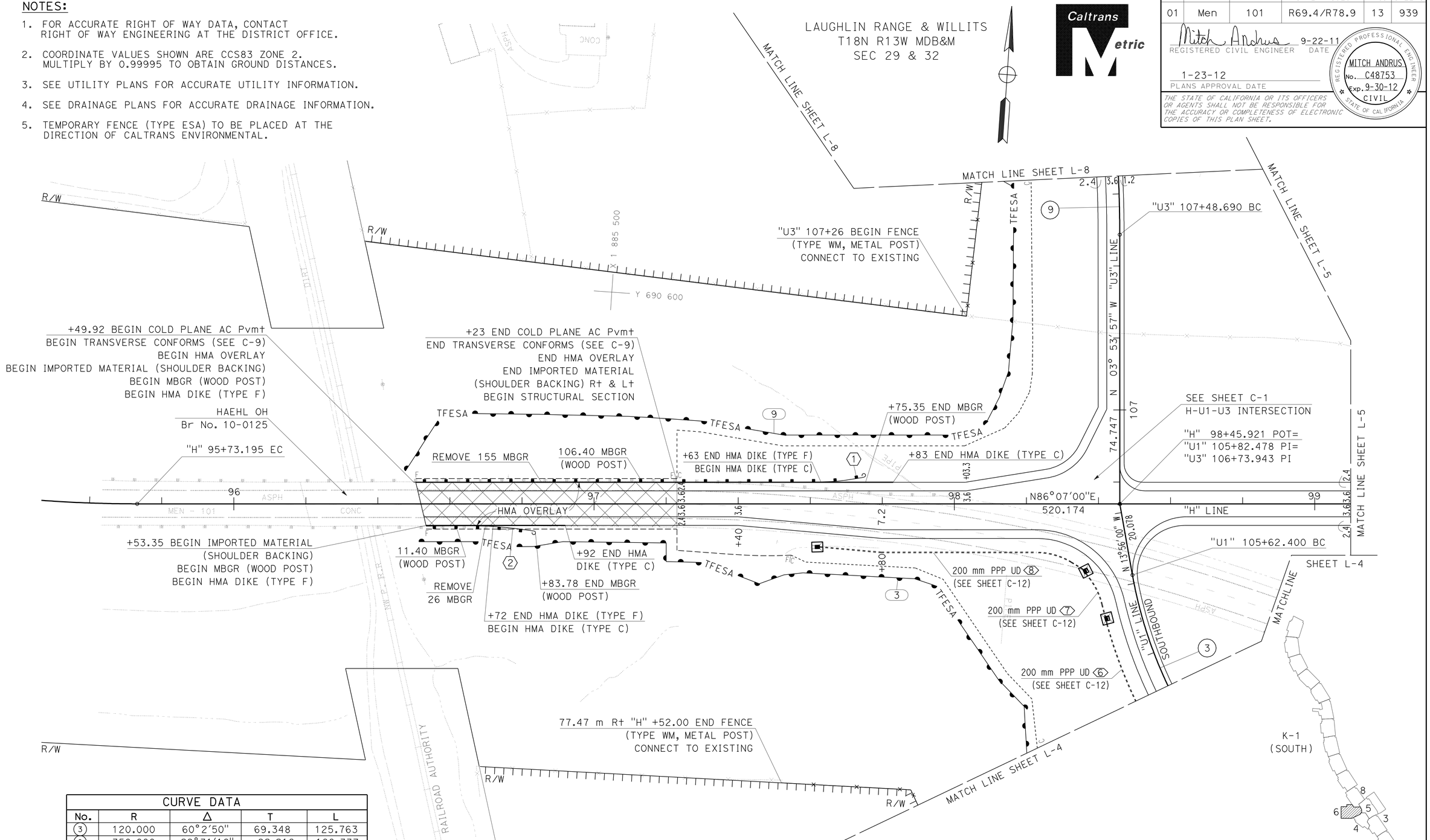
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
3	120.000	60°2'50"	69.348	125.763
9	350.000	29°31'18"	92.218	180.337

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 09-06-11 | DATE PLOTTED => 28-JAN-2012 | TIME PLOTTED => 08:37

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	14	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

Caltrans Metric

NOTES:

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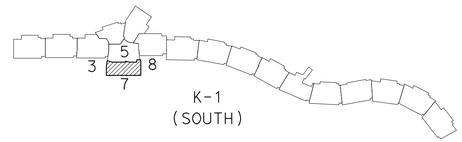
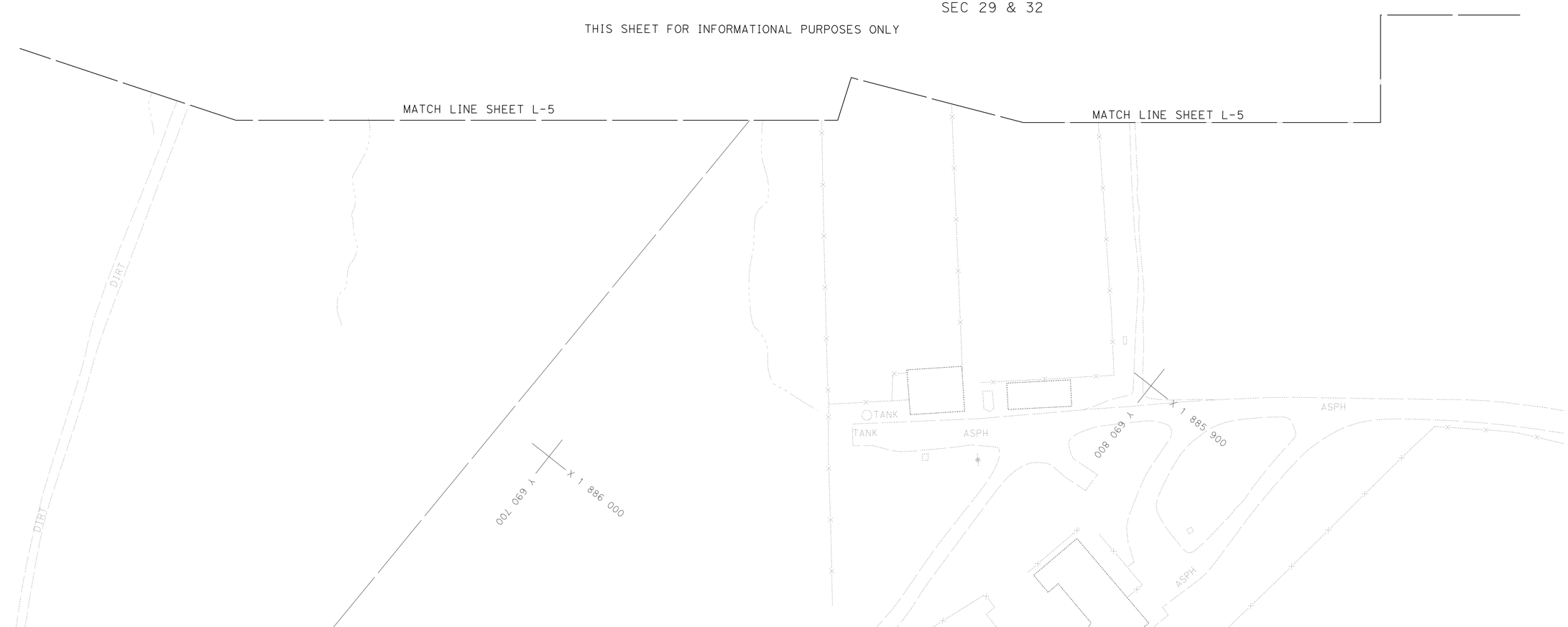
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



WILLITS
T18N R13W MDB&M
SEC 29 & 32

THIS SHEET FOR INFORMATIONAL PURPOSES ONLY



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY
DATE REVISED

LAST REVISION 03-30-10
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	15	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

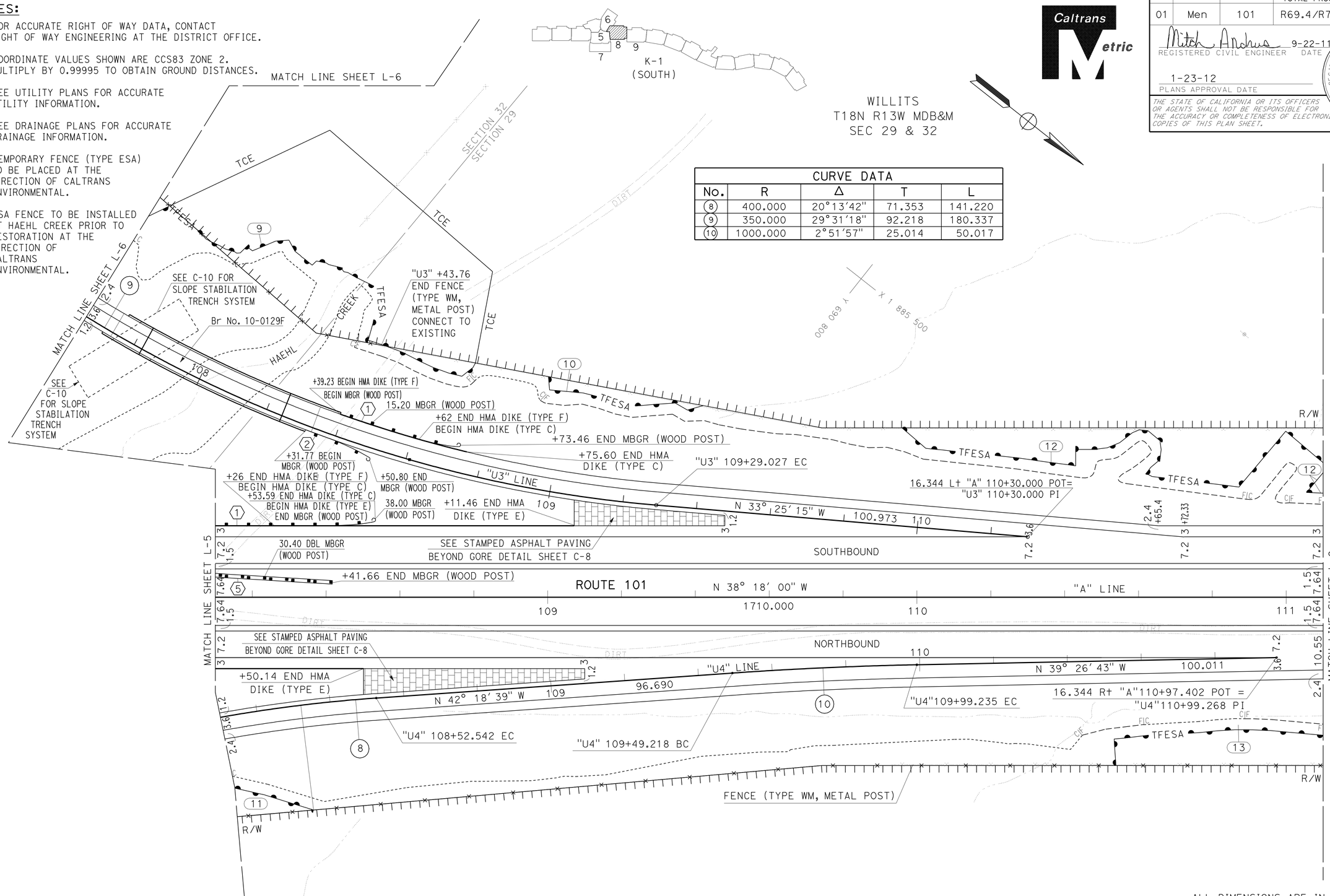
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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.

Caltrans Metric

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. ESA FENCE TO BE INSTALLED AT HAEHL CREEK PRIOR TO RESTORATION AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
8	400.000	20°13'42"	71.353	141.220
9	350.000	29°31'18"	92.218	180.337
10	1000.000	2°51'57"	25.014	50.017

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-8

REVISED BY | DATE REVISED
MITCH ANDRUS | MELISSA HAURY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

LAST REVISION 08-29-11 | DATE PLOTTED => 02-APR-2012 | TIME PLOTTED => 11:15

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	16	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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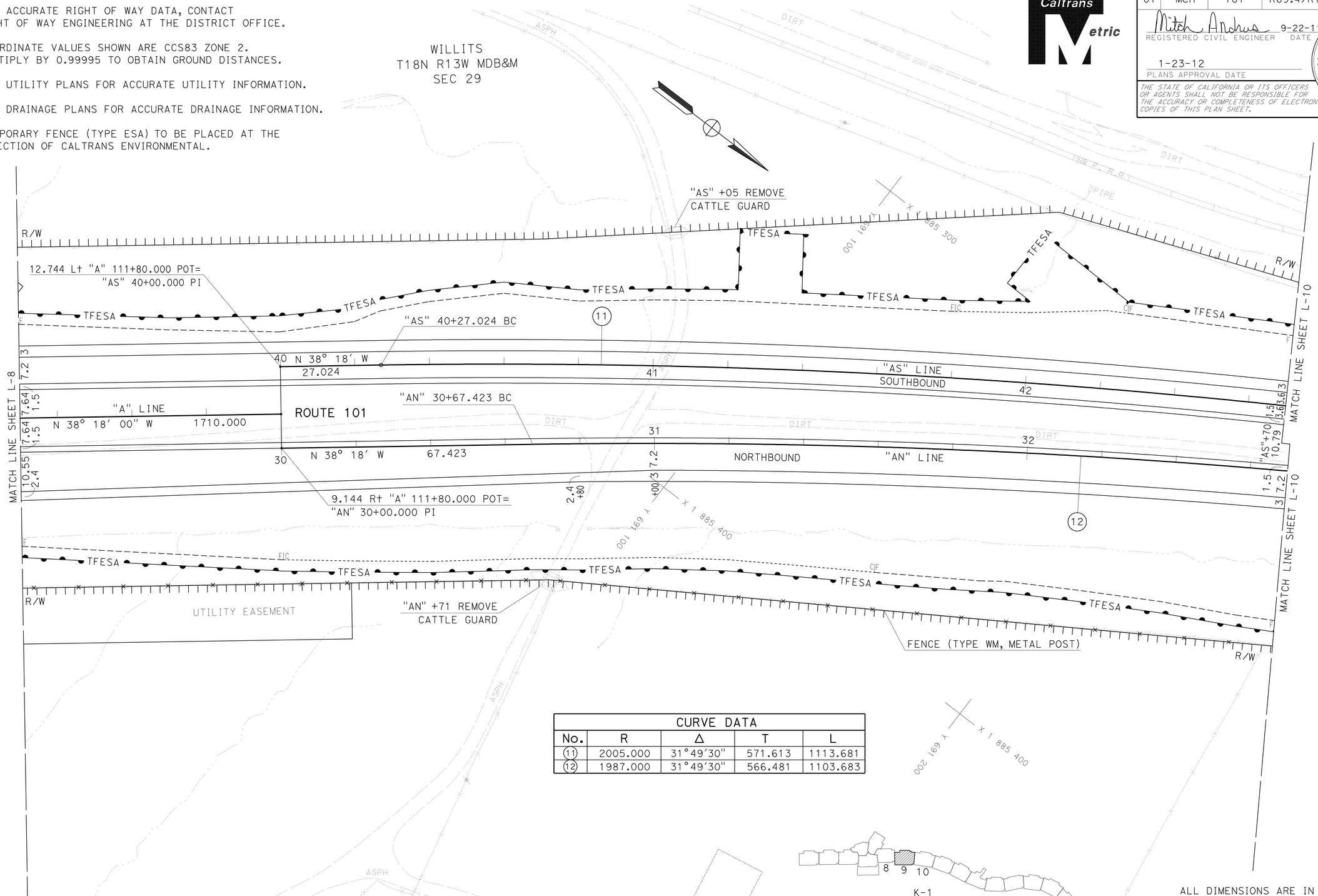
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
11	2005.000	31°49'30"	571.613	1113.681
12	1987.000	31°49'30"	566.481	1103.683

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-9

REVISED BY	DATE REVISED
MITCH ANDRUS	MELISSA HAURY

CALCULATED-DESIGNED BY / CHECKED BY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-25-11 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	17	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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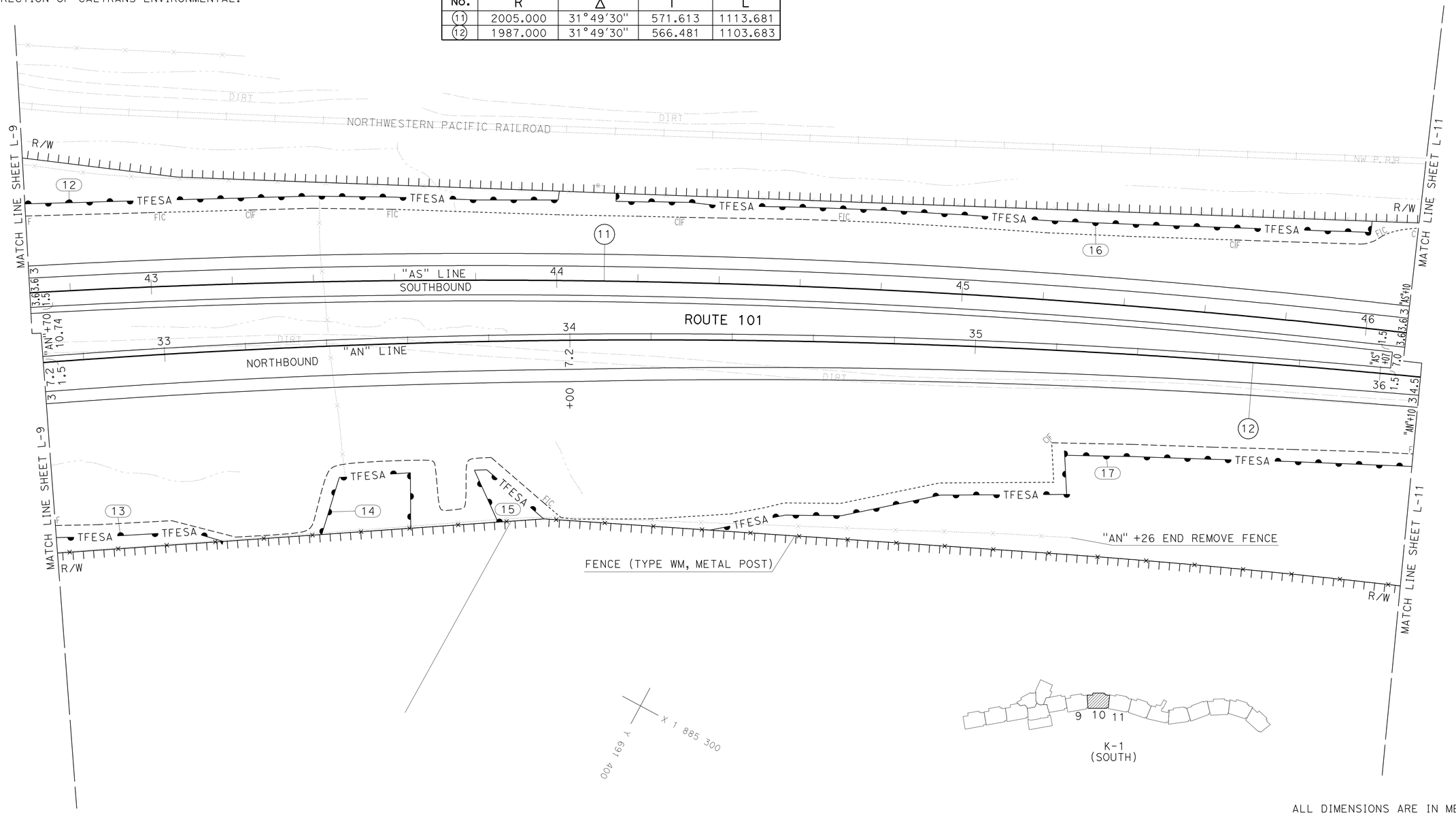
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 29

CURVE DATA				
No.	R	Δ	T	L
11	2005.000	31°49'30"	571.613	1113.681
12	1987.000	31°49'30"	566.481	1103.683



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	18	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

Caltrans Metric

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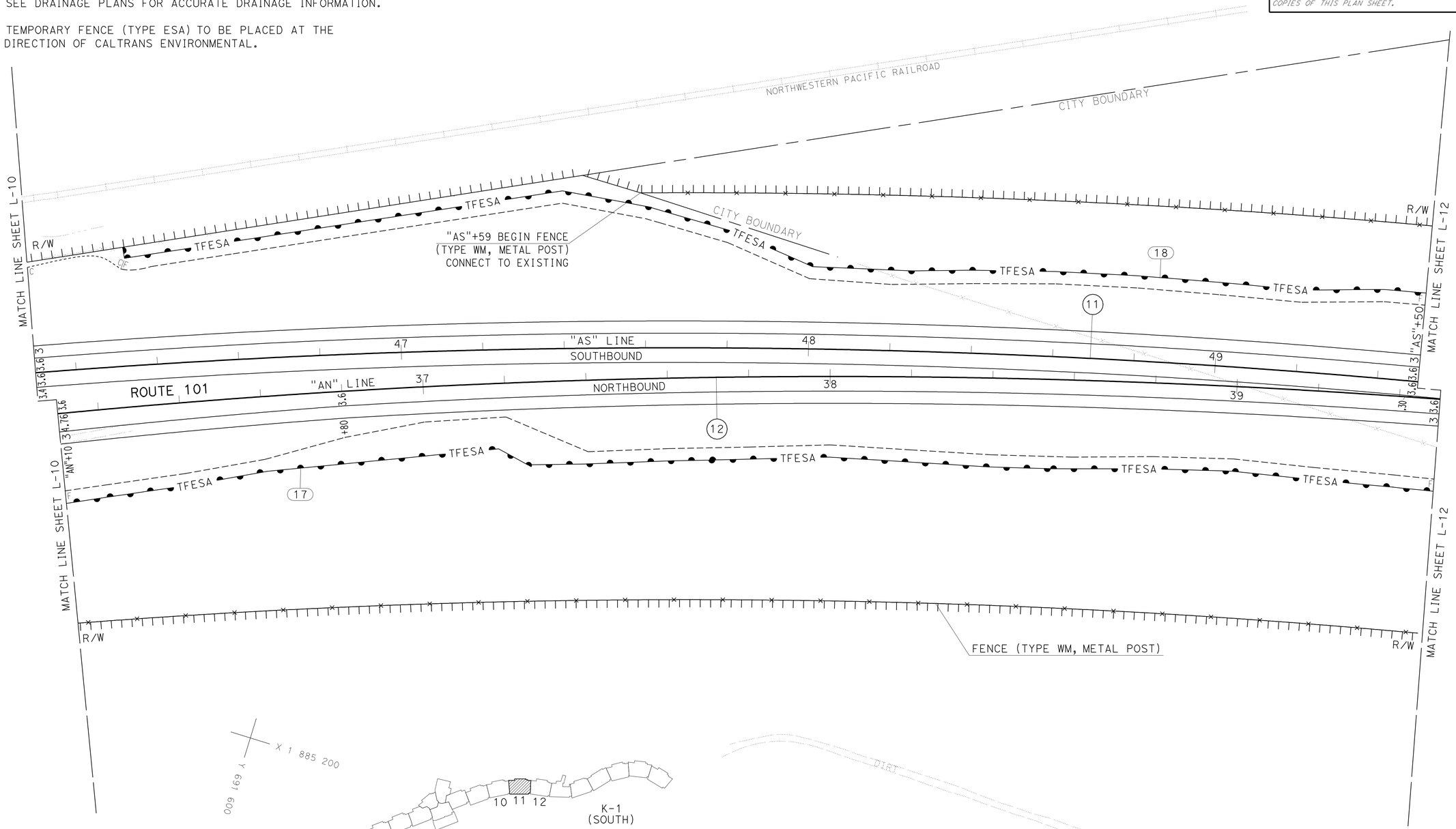
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

CURVE DATA				
No.	R	Δ	T	L
11	2005.000	31°49'30"	571.613	1113.681
12	1987.000	31°49'30"	566.481	1103.683

WILLITS
T18N R13W MDB&M
SEC 29



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	19	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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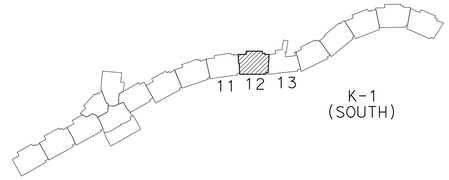
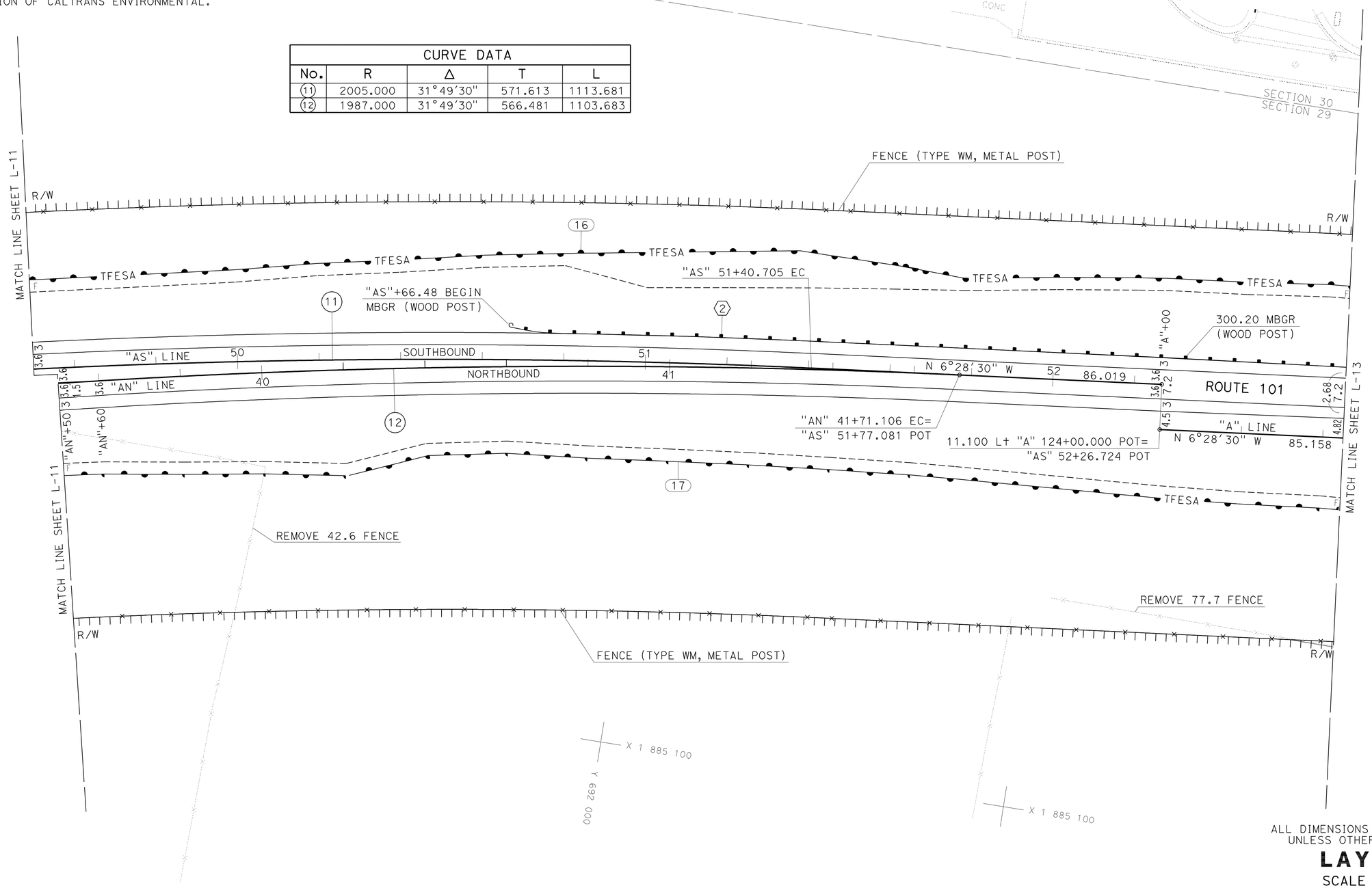


WILLITS
T18N R13W MDB&M
SEC 29 & 30

CURVE DATA				
No.	R	Δ	T	L
11	2005.000	31°49′30″	571.613	1113.681
12	1987.000	31°49′30″	566.481	1103.683



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11 DATE PLOTTED => 27-JAN-2012 TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	20	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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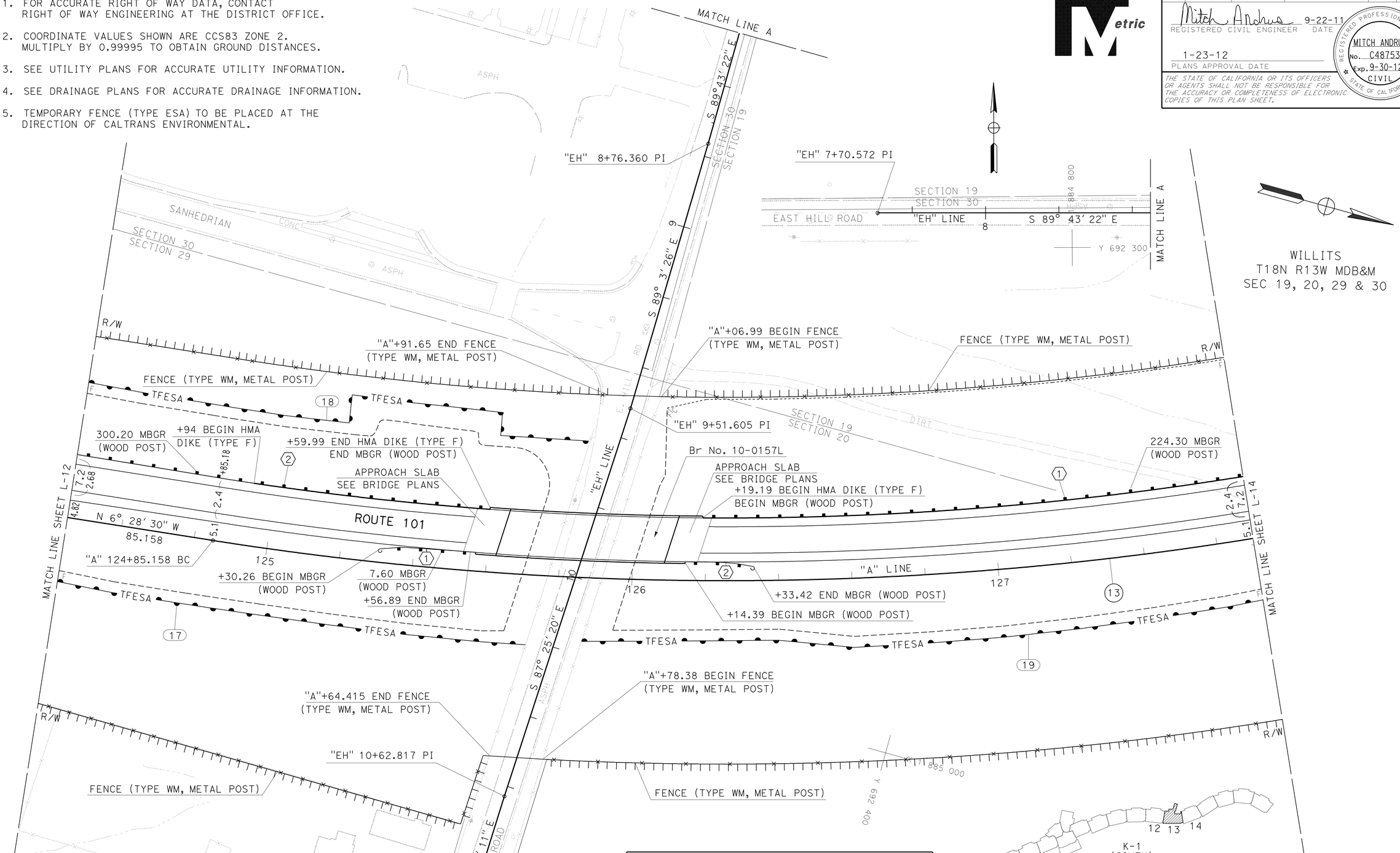

CURVE DATA				
No.	R	Δ	T	L
13	900.000	43°33'08"	359.540	684.118

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-13

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 04-19-10
DATE PLOTTED => 02-APR-2012
TIME PLOTTED => 11:15

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	21	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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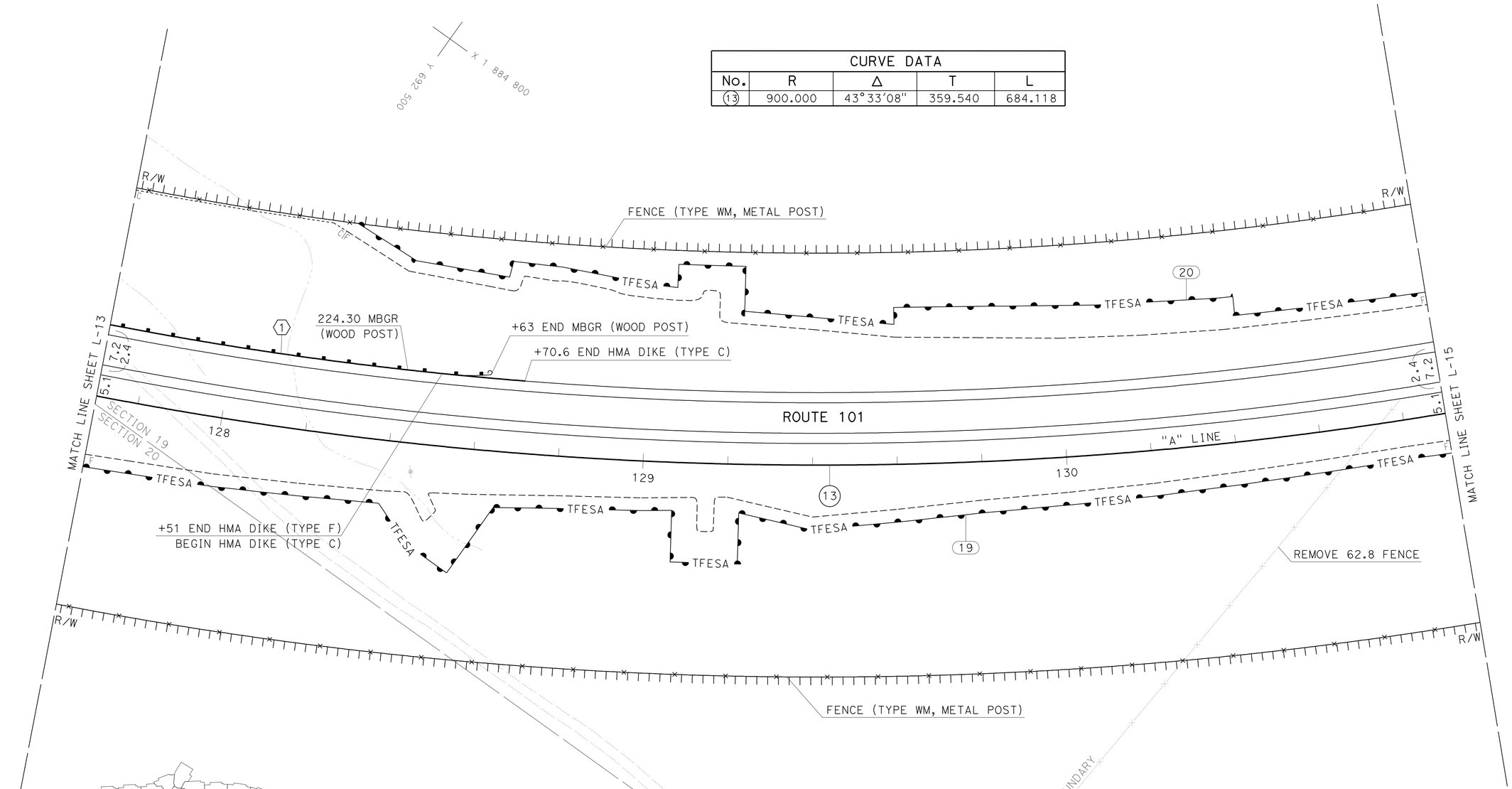
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 19 & 20

CURVE DATA				
No.	R	Δ	T	L
13	900.000	43°33'08"	359.540	684.118



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 09-07-11 | DATE PLOTTED => 02-APR-2012 | TIME PLOTTED => 11:15

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	22	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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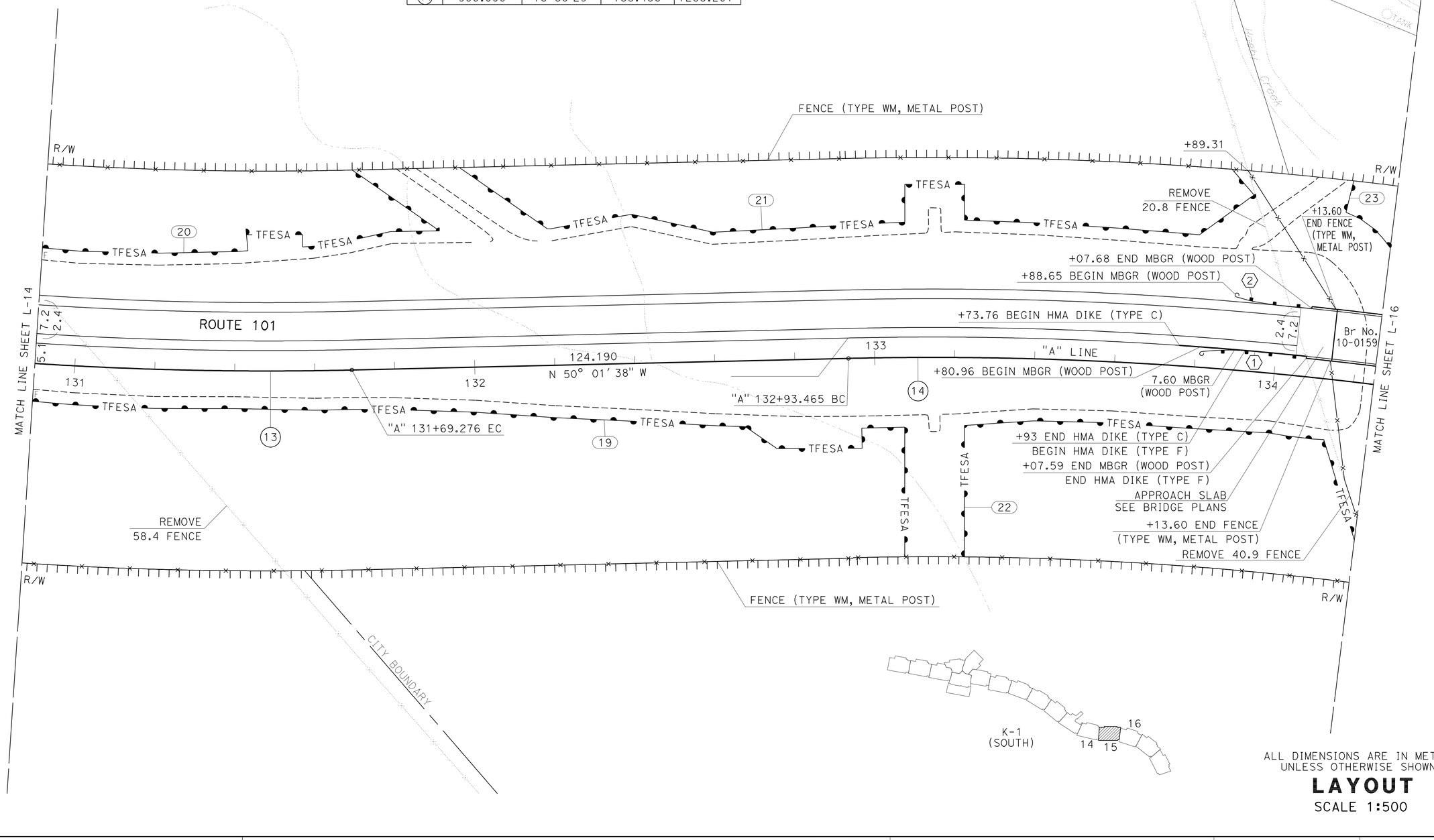
6. ESA FENCE TO BE INSTALLED AT HAEHL CREEK PRIOR TO CONSTRUCTION AND UPON COMPLETION OF STREAM RESTORATION AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 19

CURVE DATA				
No.	R	Δ	T	L
13	900.000	43°33′08″	359.540	684.118
14	900.000	78°30′29″	735.436	1233.201



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11
DATE PLOTTED => 02-APR-2012
TIME PLOTTED => 11:15

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	23	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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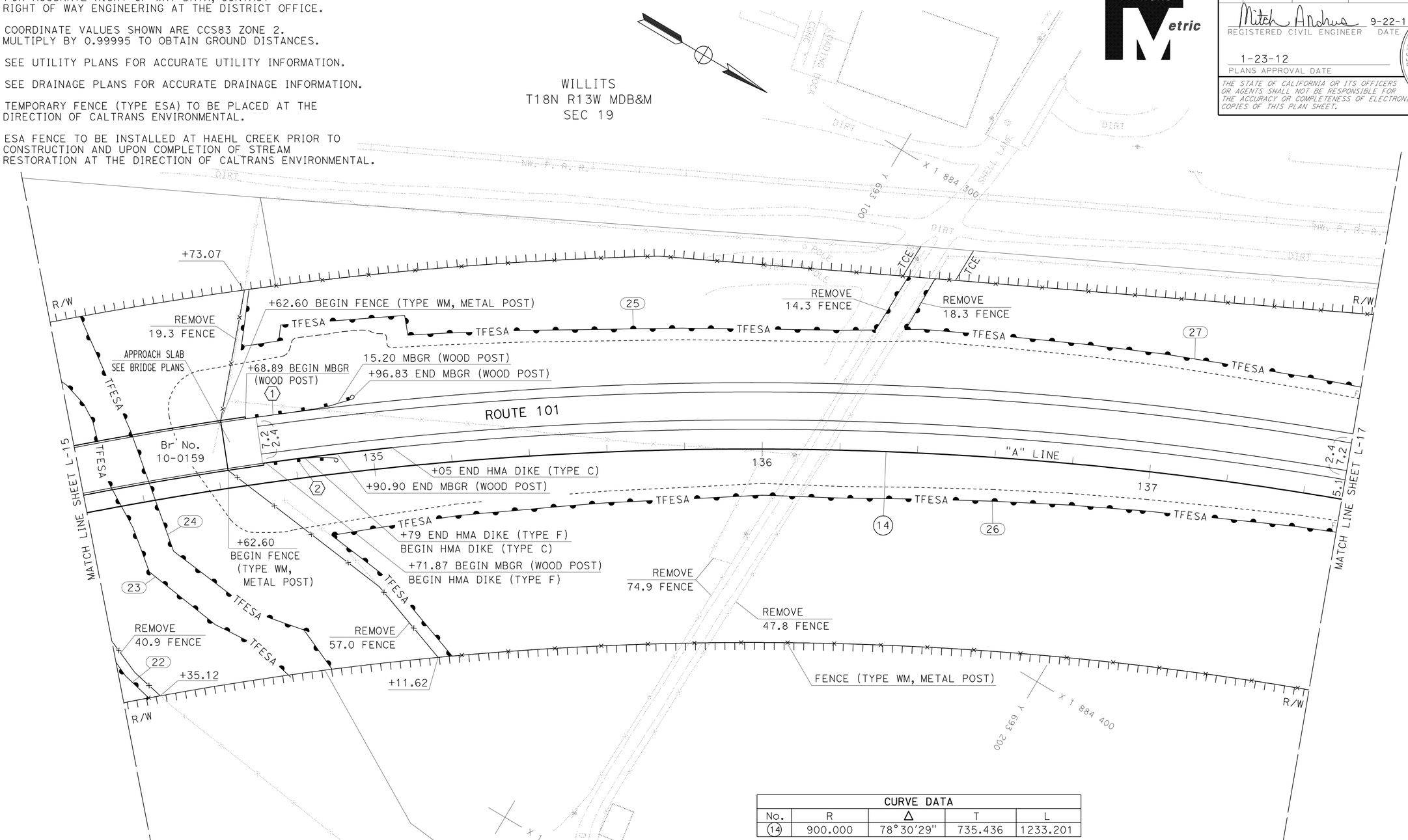

CURVE DATA				
No.	R	Δ	T	L
14	900.000	78°30'29"	735.436	1233.201

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	24	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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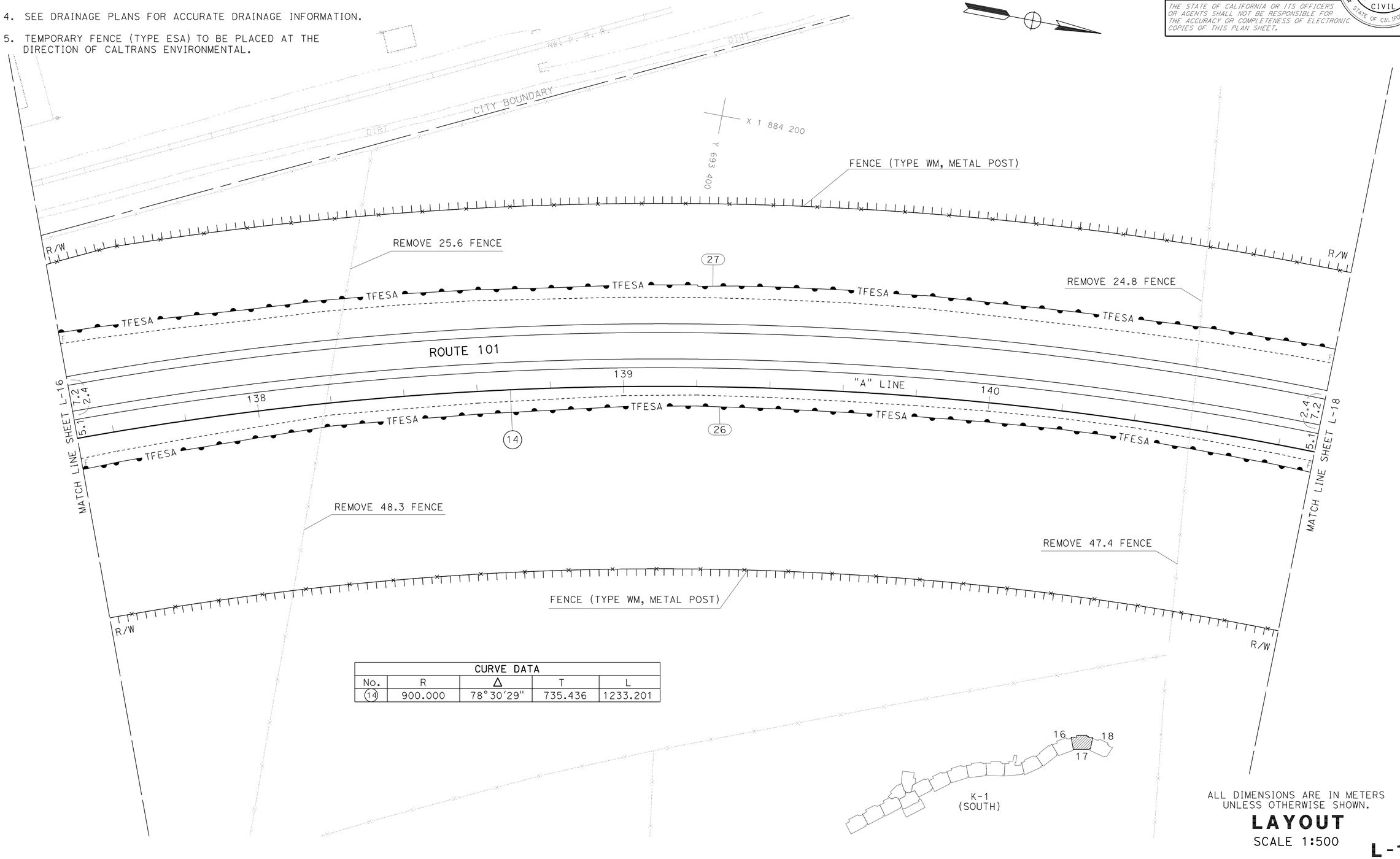
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 19



CURVE DATA				
No.	R	Δ	T	L
14	900.000	78°30'29"	735.436	1233.201

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MELISSA HAURY
CHECKED BY: MITCH ANDRUS
REVISED BY / DATE REVISED

LAST REVISION 08-10-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	25	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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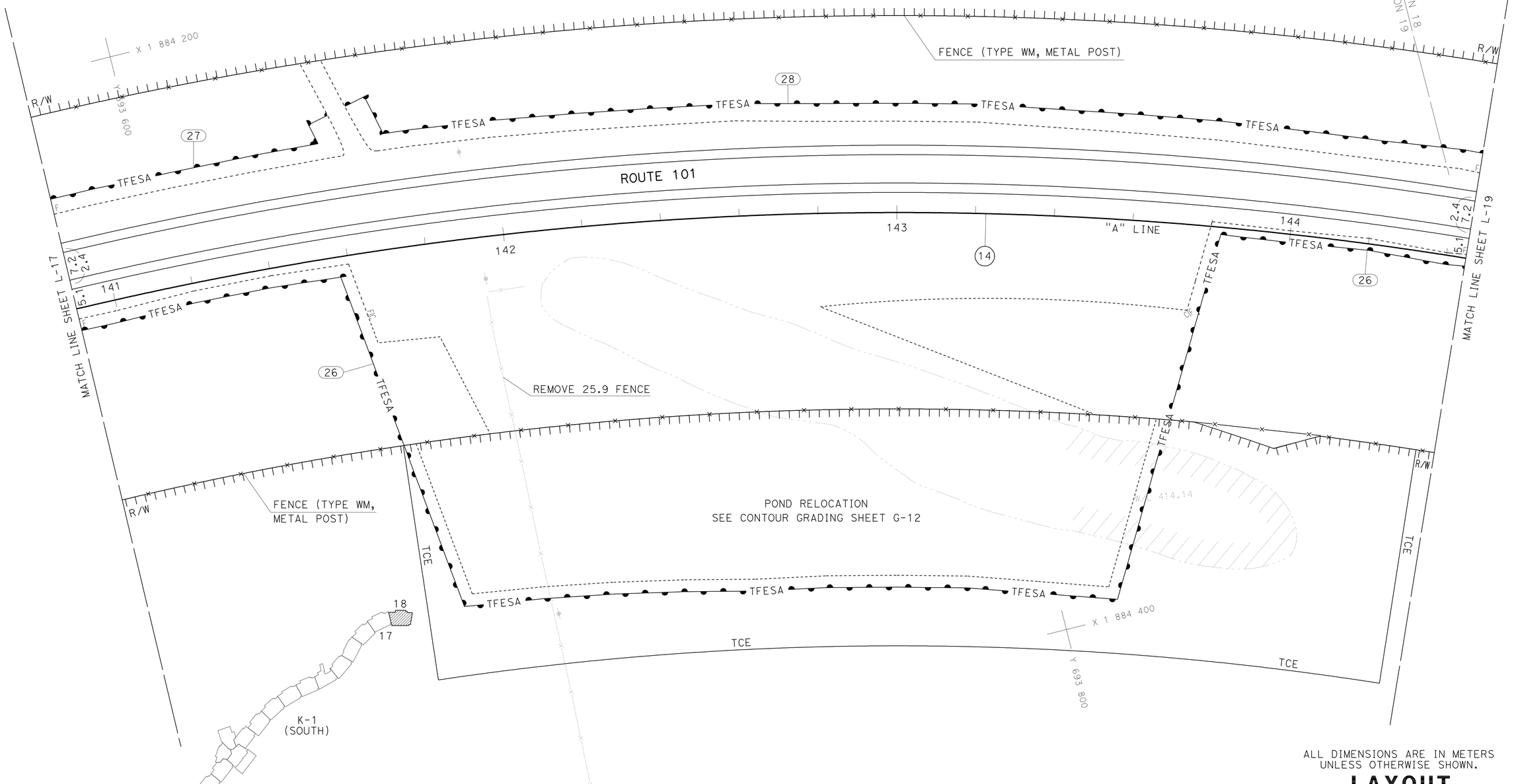
CURVE DATA				
No.	R	Δ	T	L
14	900.000	78°30'29"	735.436	1233.201

WILLITS
T18N R13W MDB&M
SEC 18 &19



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-18

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 09-08-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	26	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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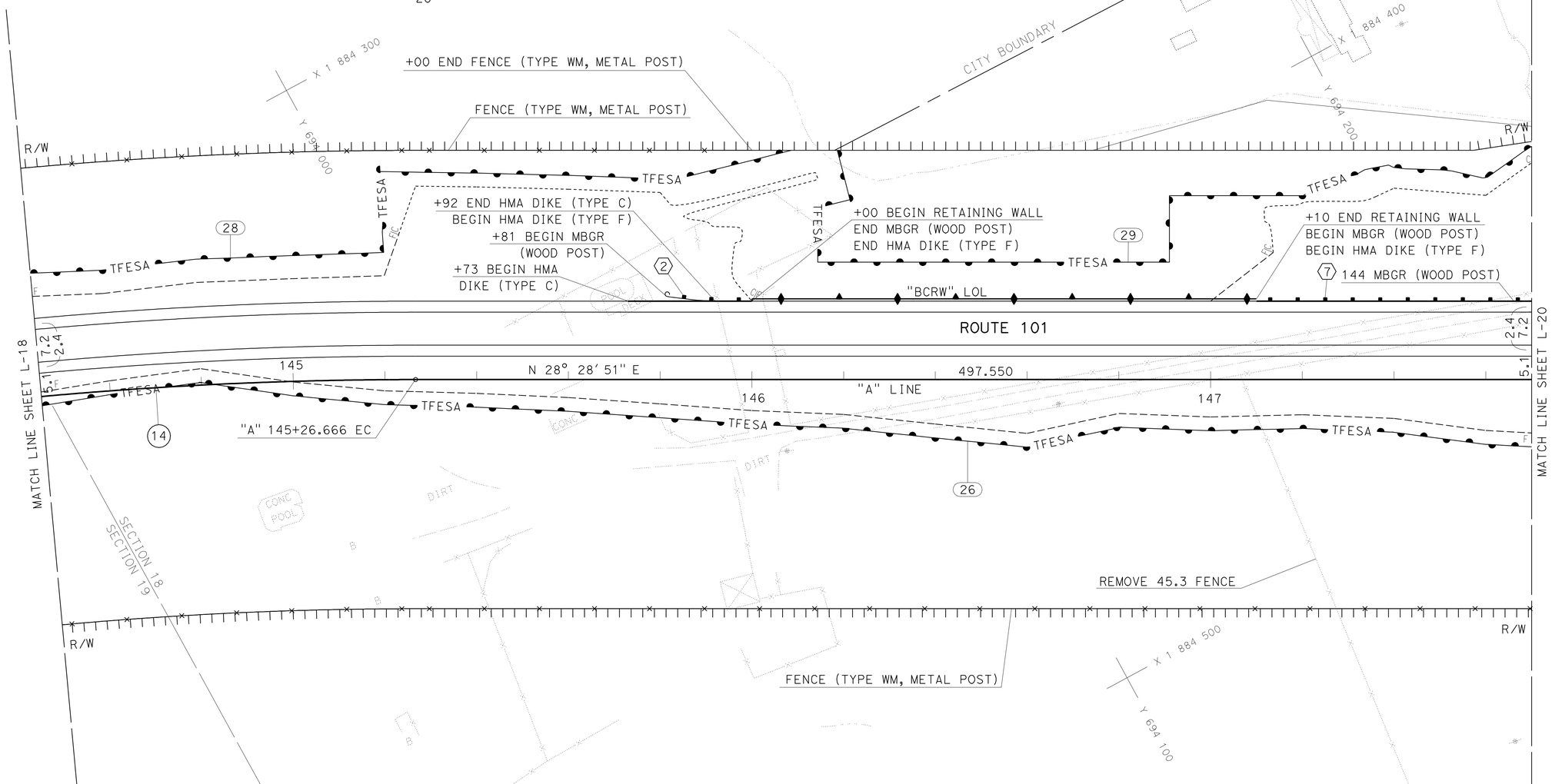
WILLITS
T18N R13W MDB&M
SEC 18 &19

K-1
(NORTH)

CURVE DATA				
No.	R	Δ	T	L
14	900.000	78°30'29"	735.436	1233.201



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 09-08-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	27	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

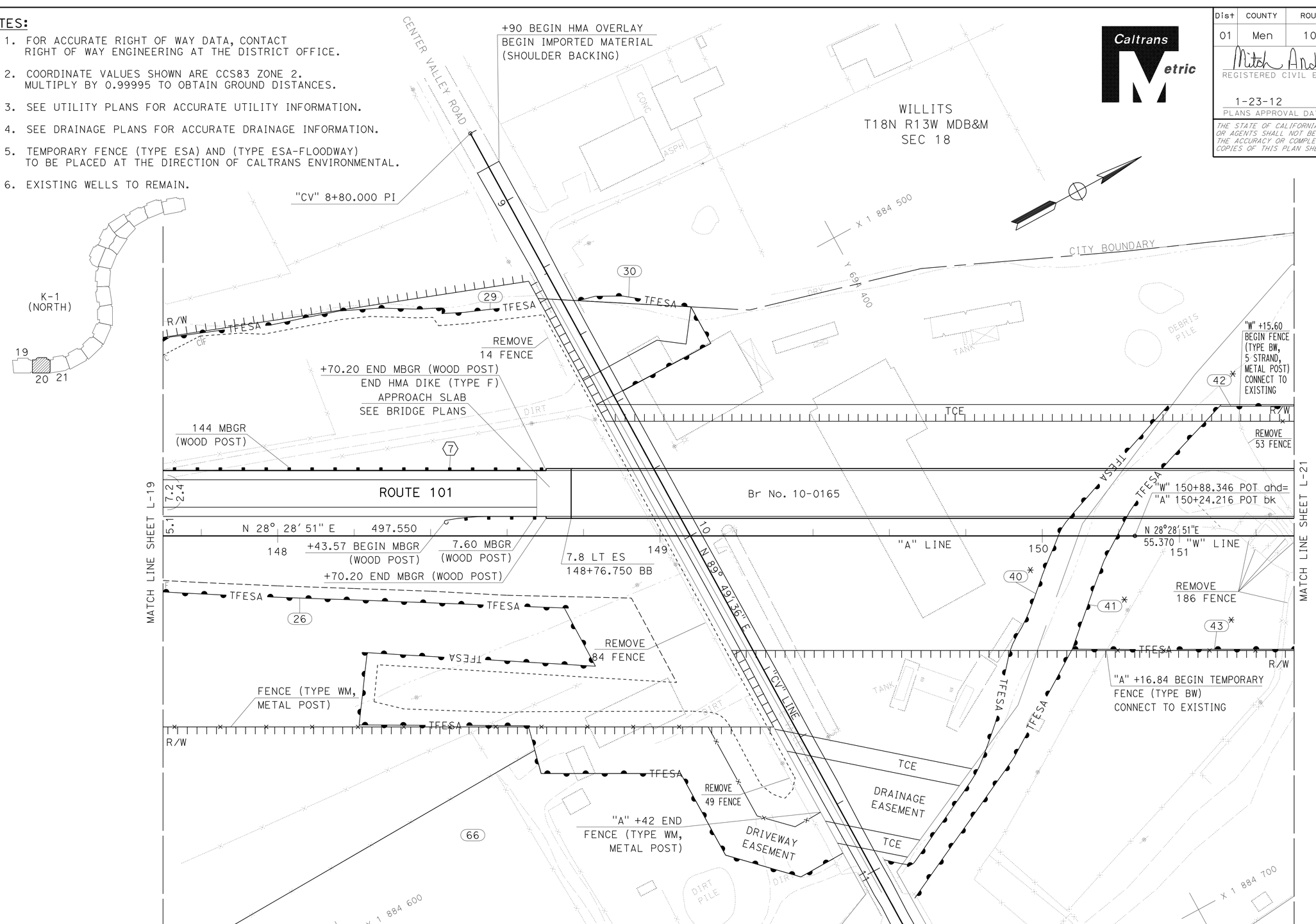
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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.

Caltrans Metric

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) AND (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. EXISTING WELLS TO REMAIN.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 09-15-11 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	28	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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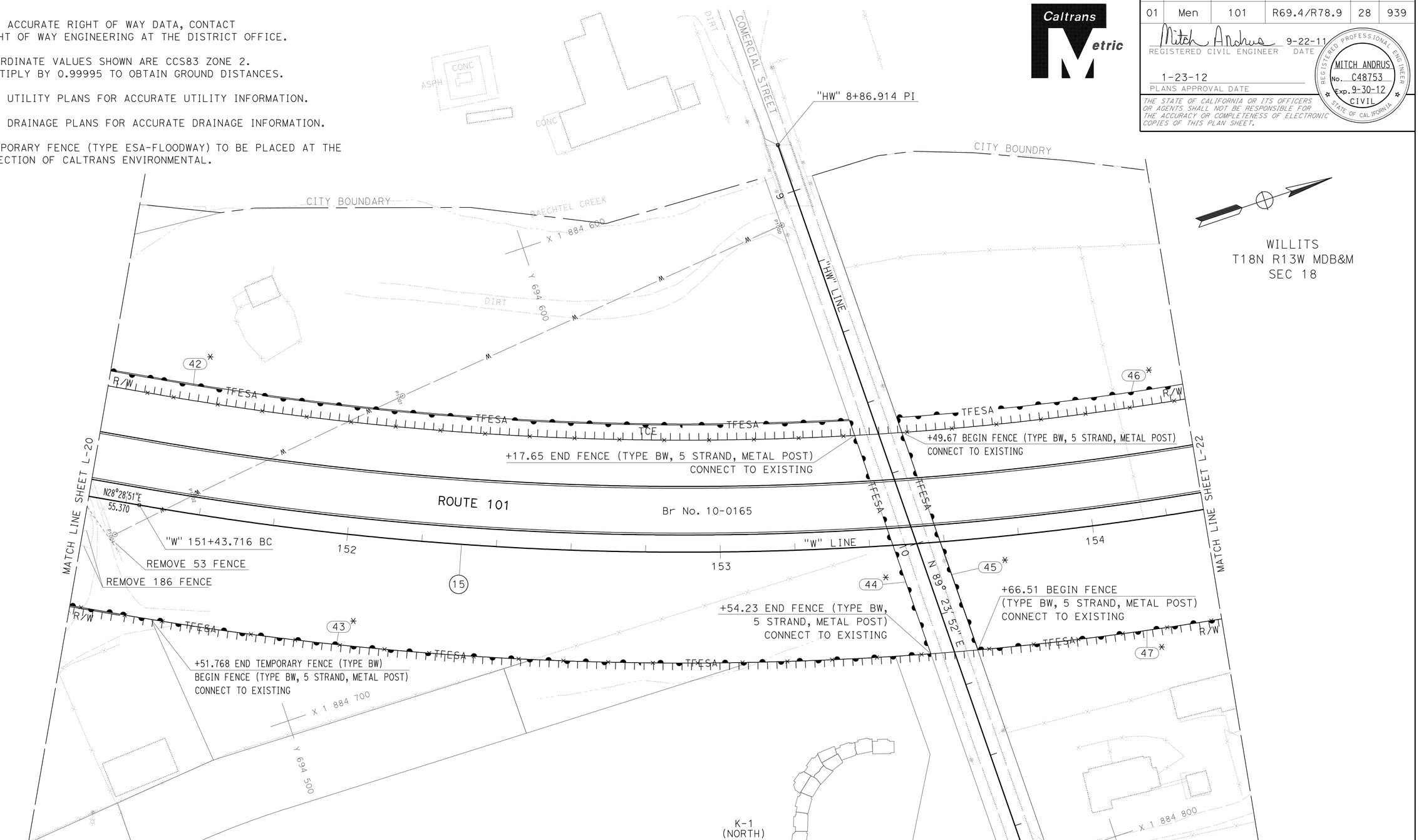
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
15	850.000	23°59'03"	180.550	355.811

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-12-11 DATE PLOTTED => 27-JAN-2012 TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	29	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

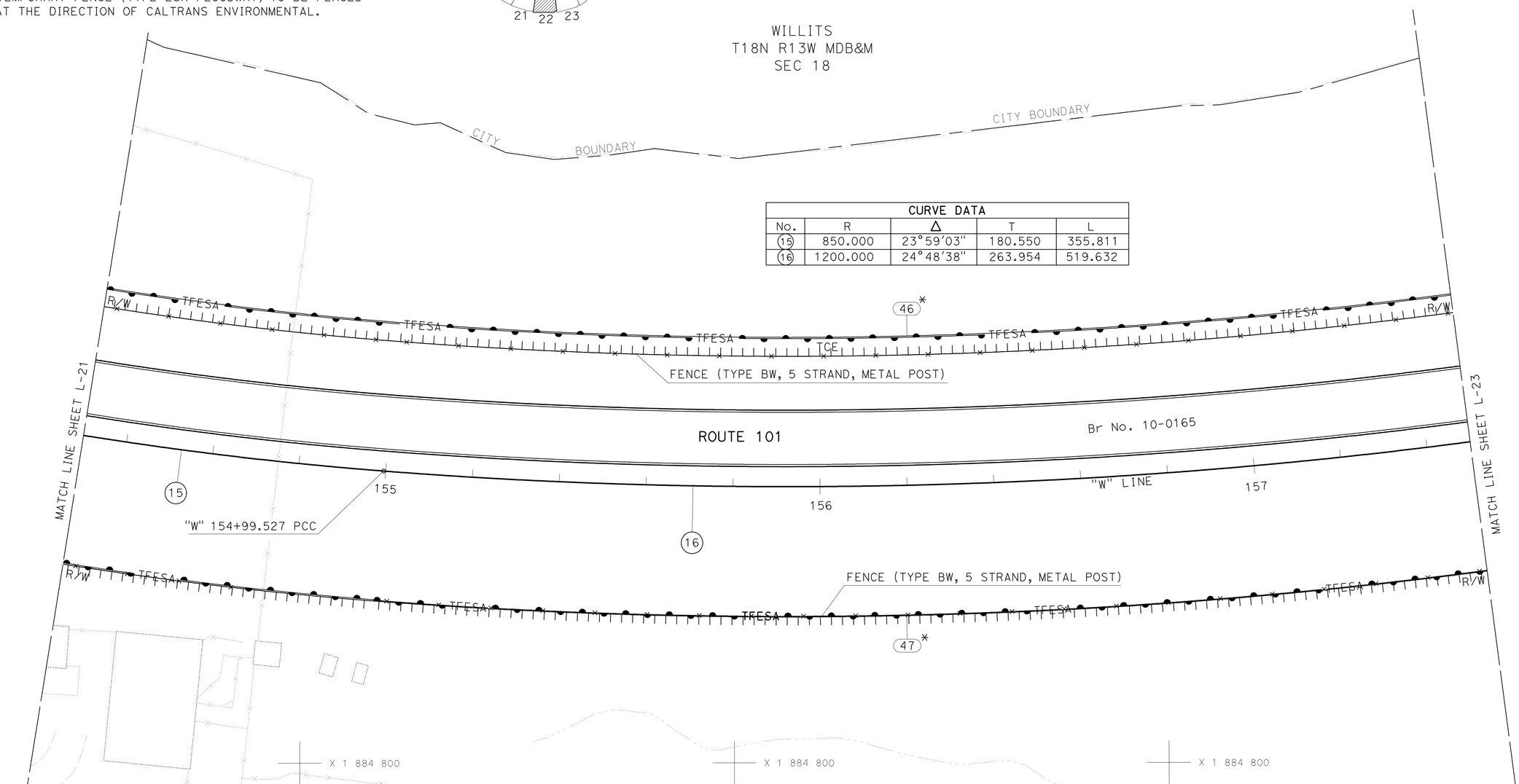
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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.

Caltrans Metric

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
15	850.000	23°59'03"	180.550	355.811
16	1200.000	24°48'38"	263.954	519.632

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 04-09-10
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	30	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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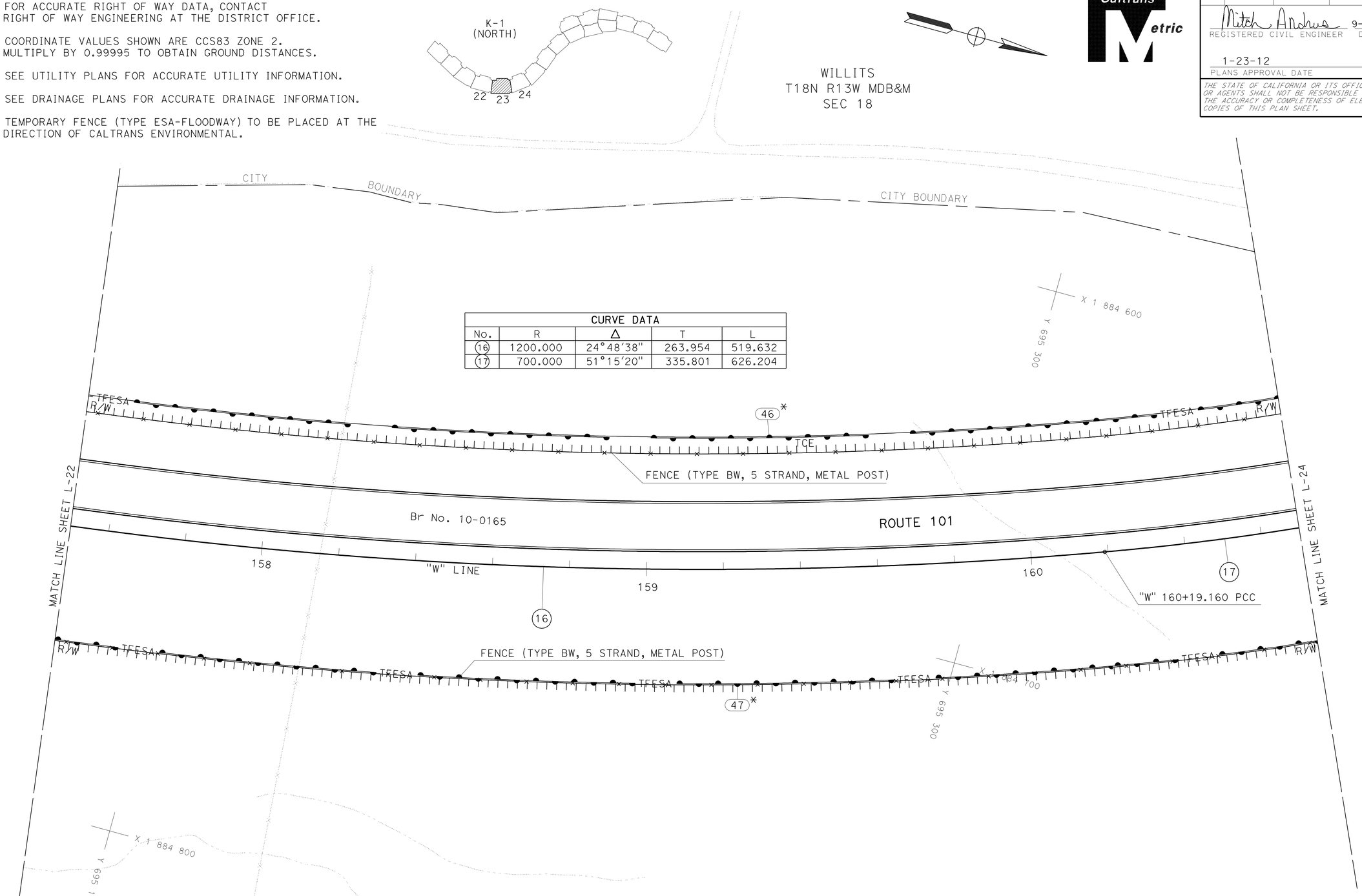
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
16	1200.000	24°48′38″	263.954	519.632
17	700.000	51°15′20″	335.801	626.204

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 04-09-10 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	31	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

Caltrans Metric

NOTES:

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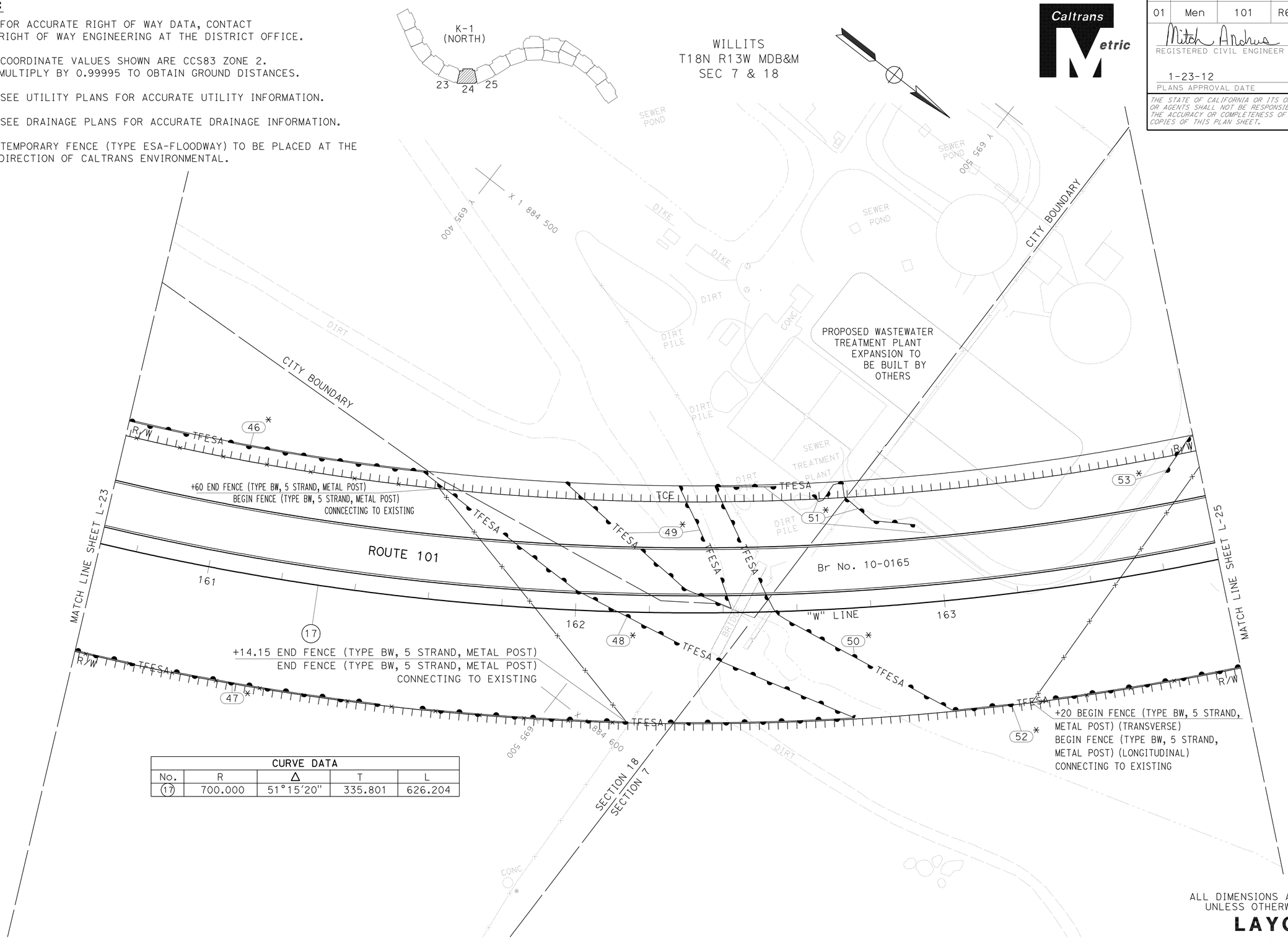
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
17	700.000	51°15'20"	335.801	626.204

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-24

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

LAST REVISION 09-15-11 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	32	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

Caltrans Metric

NOTES:

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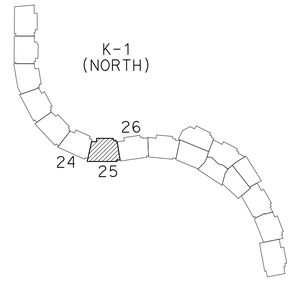
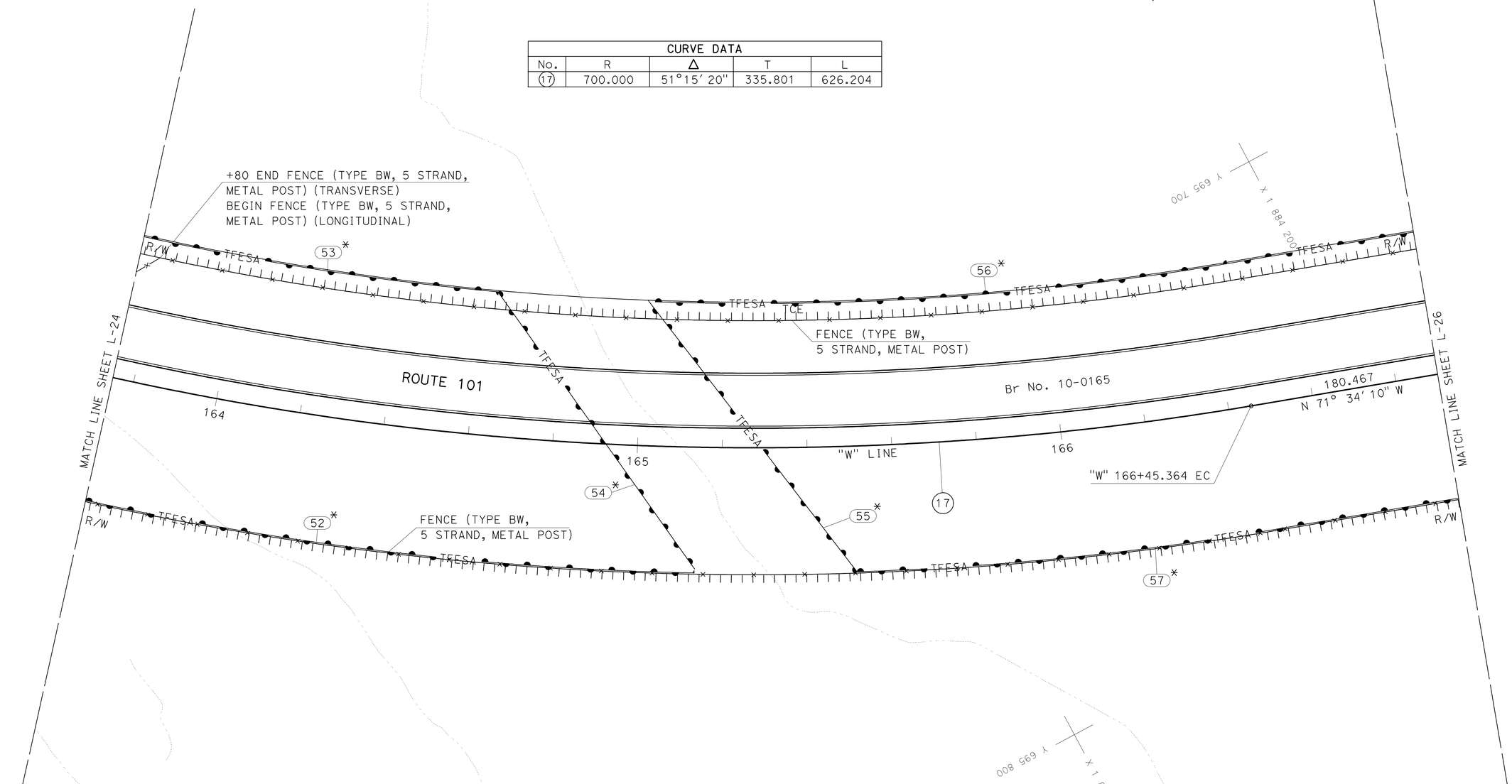
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



WILLITS
T18N R13W MDB&M
SEC 7

CURVE DATA				
No.	R	Δ	T	L
17	700.000	51°15′20″	335.801	626.204



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 09-15-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	33	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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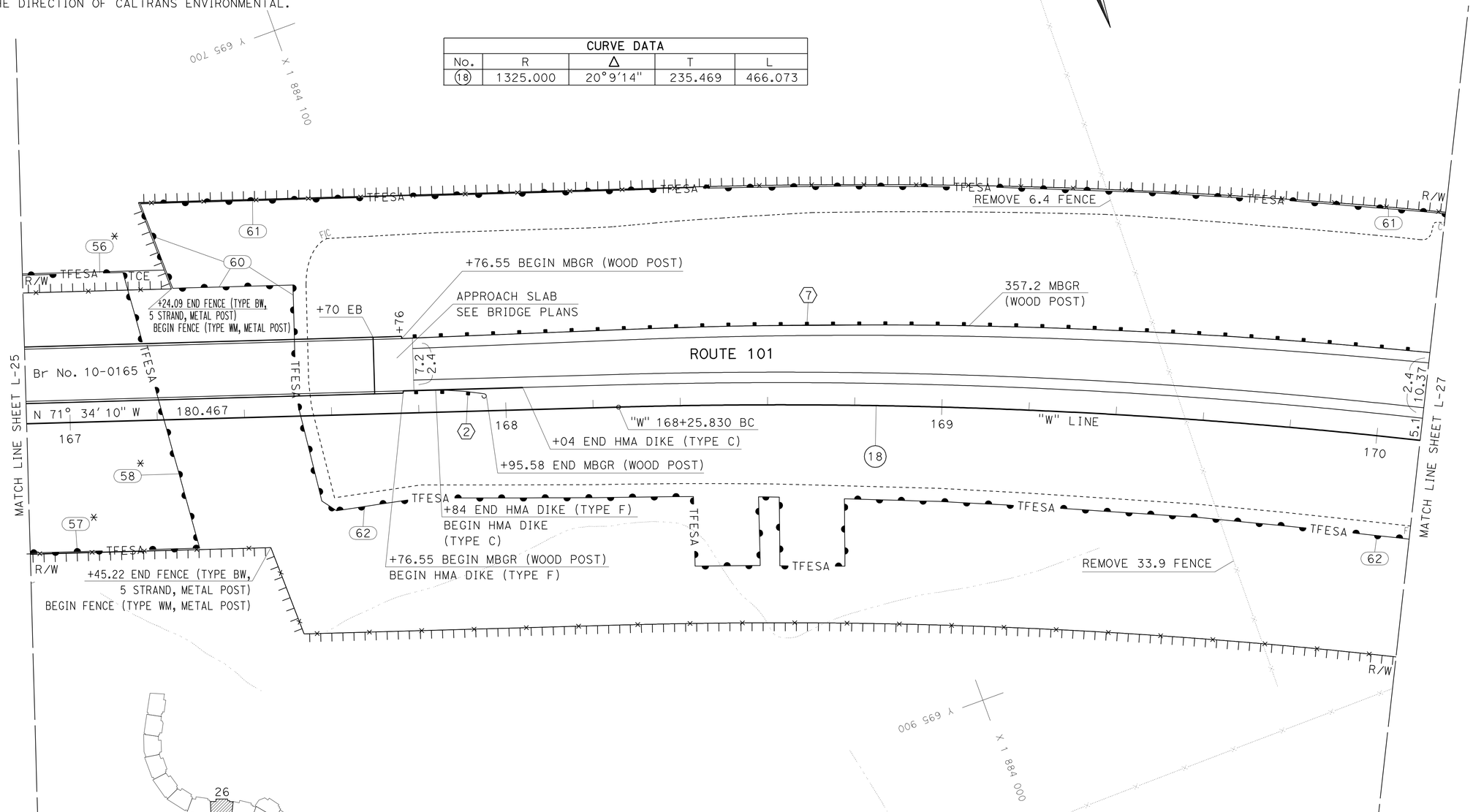
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) AND (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 7

CURVE DATA				
No.	R	Δ	T	L
18	1325.000	20°9'14"	235.469	466.073



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MELISSA HAURY
CHECKED BY: MITCH ANDRUS
REVISED BY / DATE REVISED

LAST REVISION 09-12-11 DATE PLOTTED => 27-JAN-2012 TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	34	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTES:

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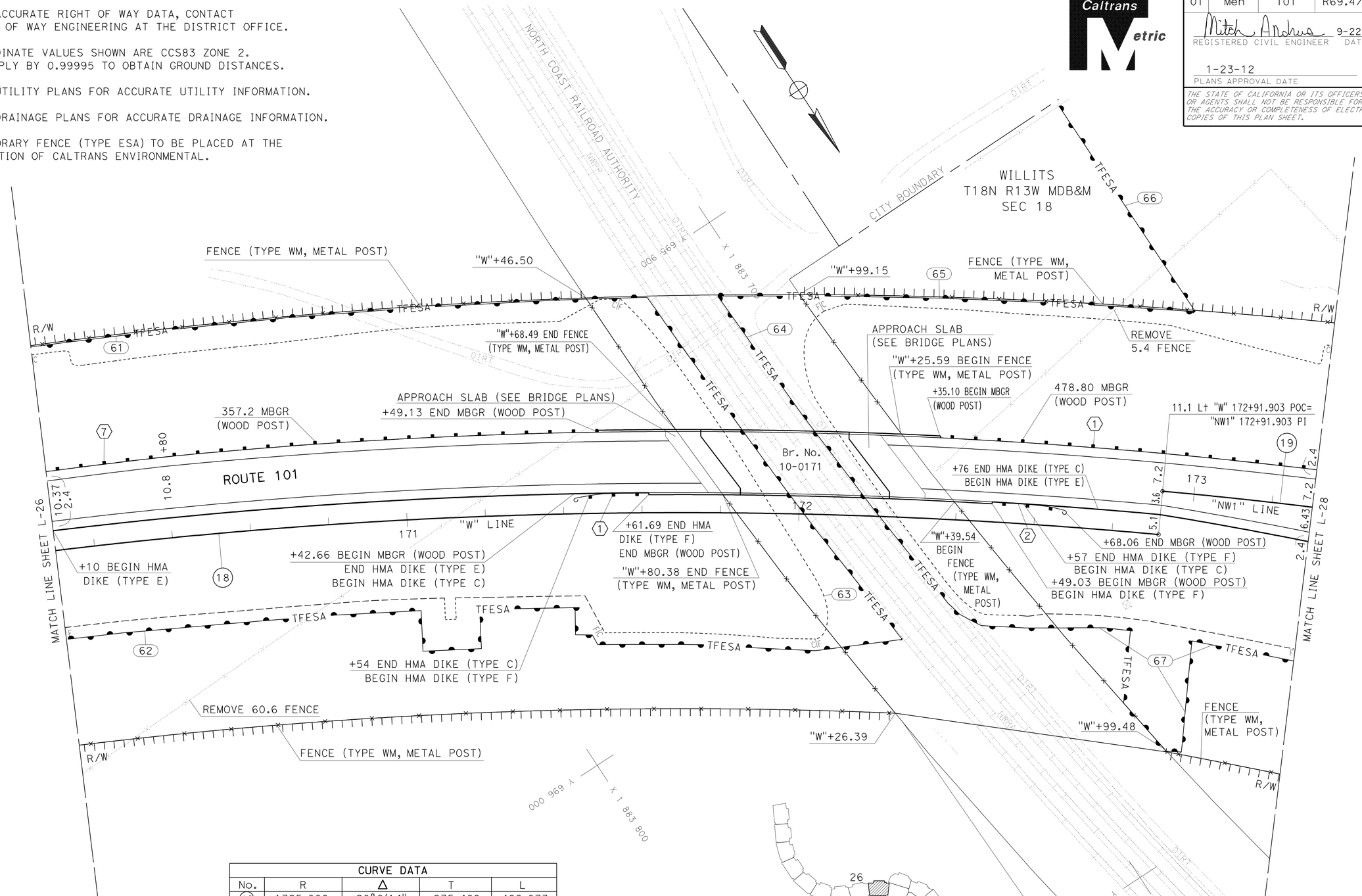
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
18	1325.000	20°9′14″	235.469	466.073
19	1336.107	19°22′36″	228.103	451.851

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 09-12-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	35	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTES:

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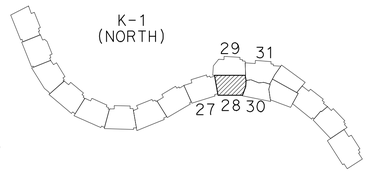
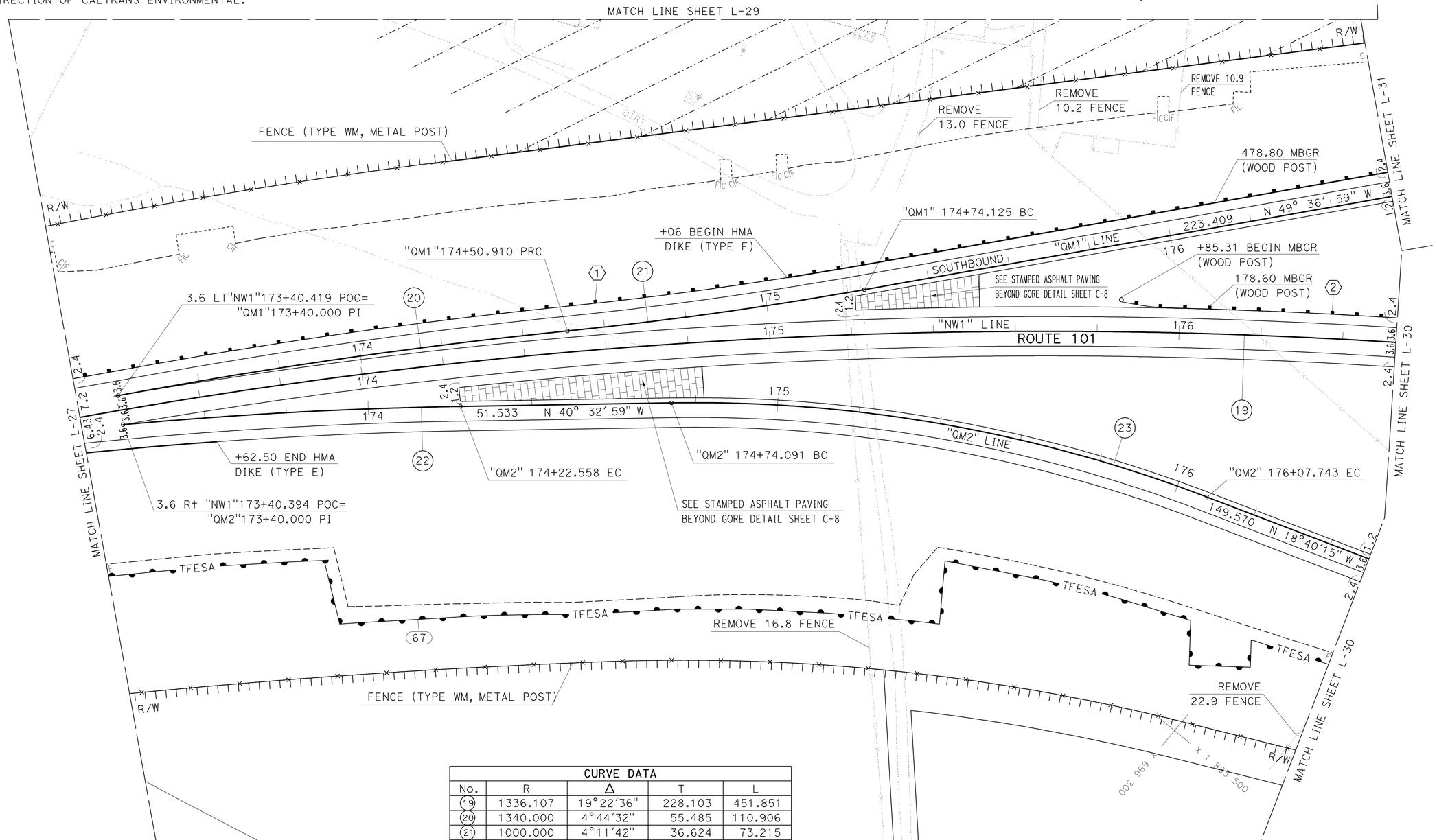
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



LEGEND:

AREA AVAILABLE FOR THE EXCLUSIVE USE OF THE CONTRACTOR

WILLITS
T18N R13W MDB&M
SEC 7



CURVE DATA				
No.	R	Δ	T	L
19	1336.107	19°22'36"	228.103	451.851
20	1340.000	4°44'32"	55.485	110.906
21	1000.000	4°11'42"	36.624	73.215
22	1100.000	4°18'00"	41.298	82.556
23	350.000	21°52'45"	67.650	133.652

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-28

REVISED BY | DATE REVISED
MITCH ANDRUS | MELISSA HAURY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-26-11 | DATE PLOTTED => 27-JAN-2012 TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	36	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

Caltrans Metric

NOTES:

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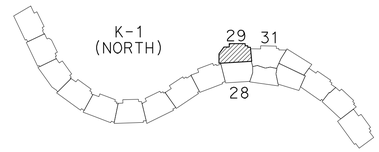
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

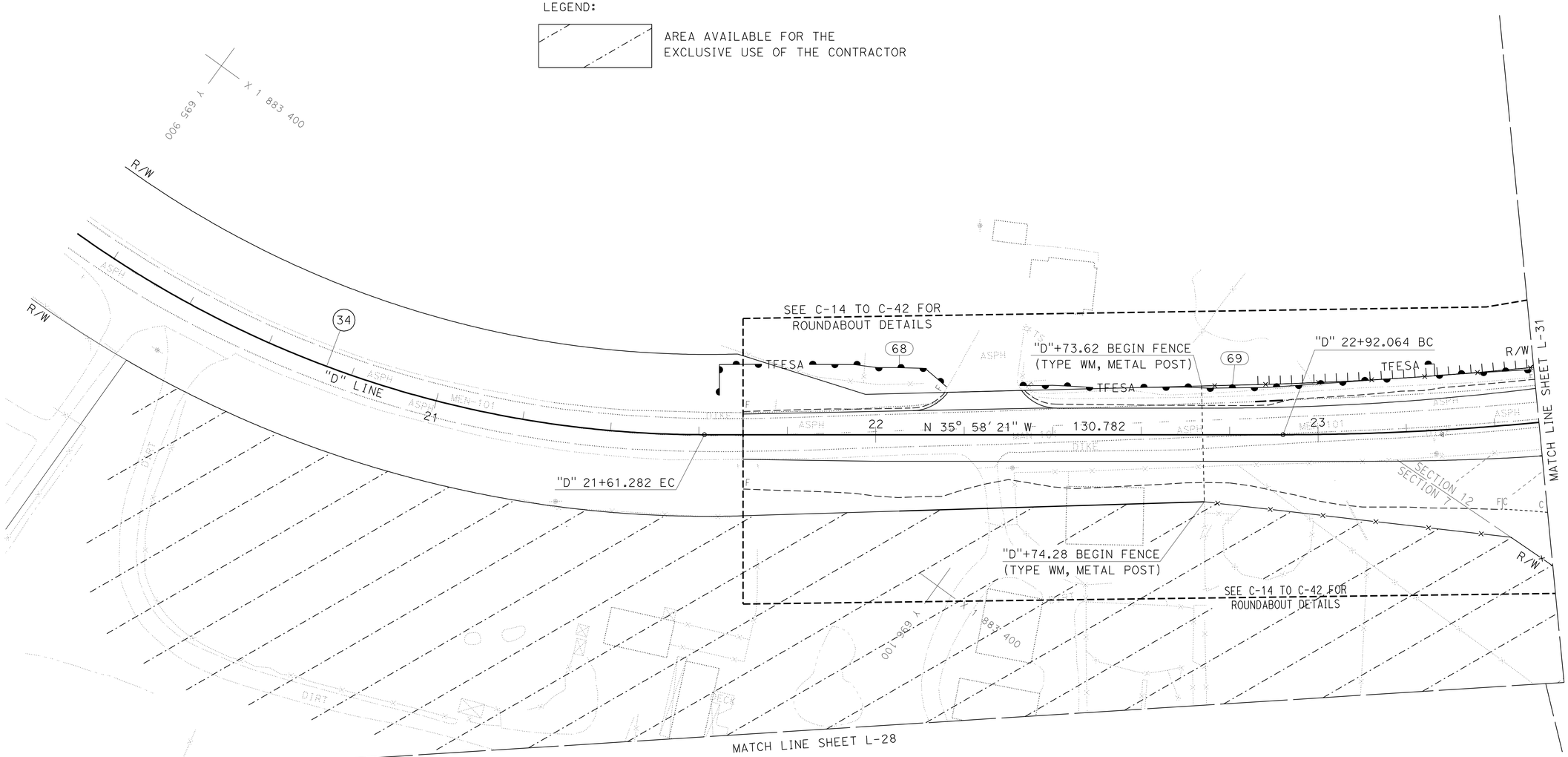


WILLITS
T18N R13 & 14W MDB&M
SEC 7 & 12

CURVE DATA				
No.	R	Δ	T	L
34	243.840	39°0'50"	86.382	166.036

LEGEND:

AREA AVAILABLE FOR THE EXCLUSIVE USE OF THE CONTRACTOR



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 04-19-10 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 13:58

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	37	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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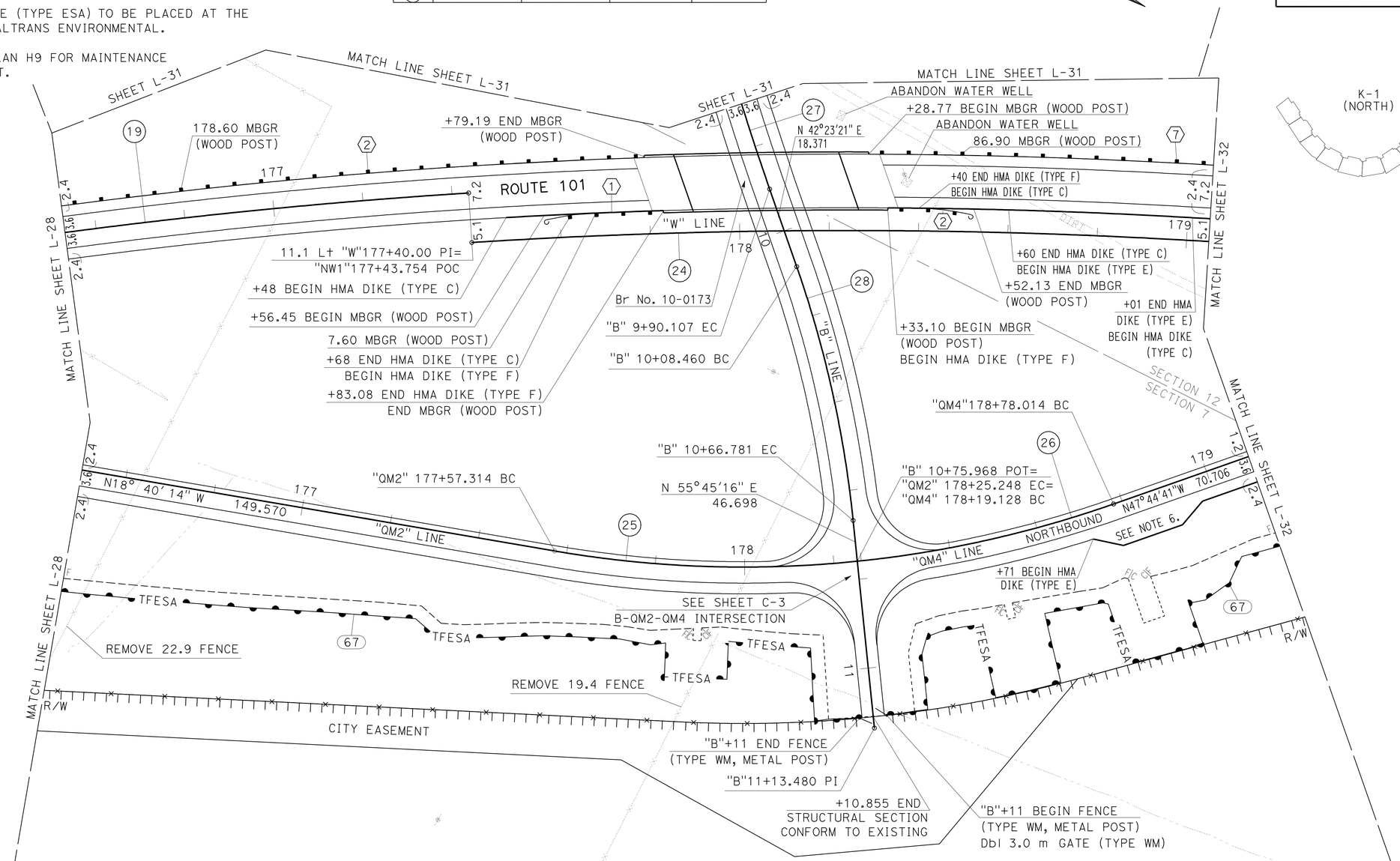
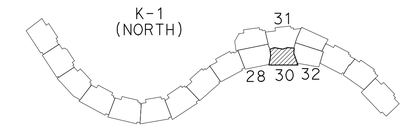
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. SEE STANDARD PLAN H9 FOR MAINTENANCE VEHICLE PULLOUT.

CURVE DATA				
No.	R	Δ	T	L
19	1336.107	19°22'36"	228.103	451.851
24	1325.000	12°6'29"	140.525	280.004
25	250.000	15°34'17"	34.182	67.943
26	250.000	13°29'25"	29.568	58.863
27	600.000	4°52'21"	25.528	51.025
28	250.000	13°21'59"	29.294	58.322

WILLITS
T18N R13 & 14W MDB&M
SEC 7 & 12





ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-15-11 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 13:58

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	38	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

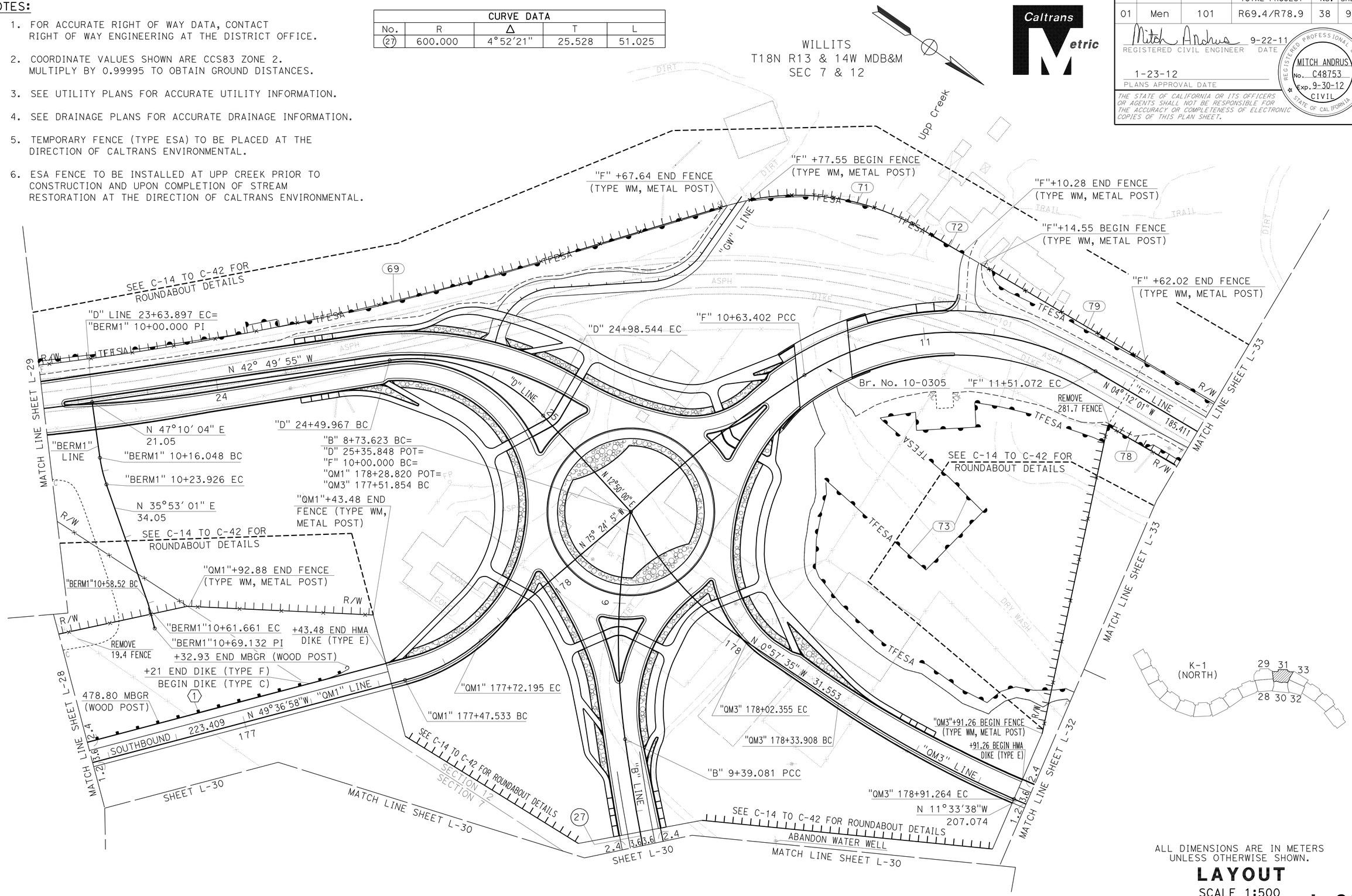
Caltrans Metric

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. ESA FENCE TO BE INSTALLED AT UPP CREEK PRIOR TO CONSTRUCTION AND UPON COMPLETION OF STREAM RESTORATION AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

CURVE DATA				
No.	R	Δ	T	L
27	600.000	4°52'21"	25.528	51.025

WILLITS
T18N R13 & 14W MDB&M
SEC 7 & 12



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT
SCALE 1:500

L-31

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MITCH ANDRUS	MELISSA HAURY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-15-11 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 13:58

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	39	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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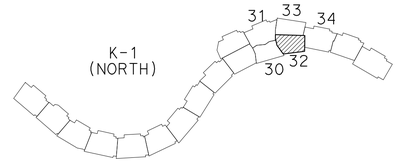
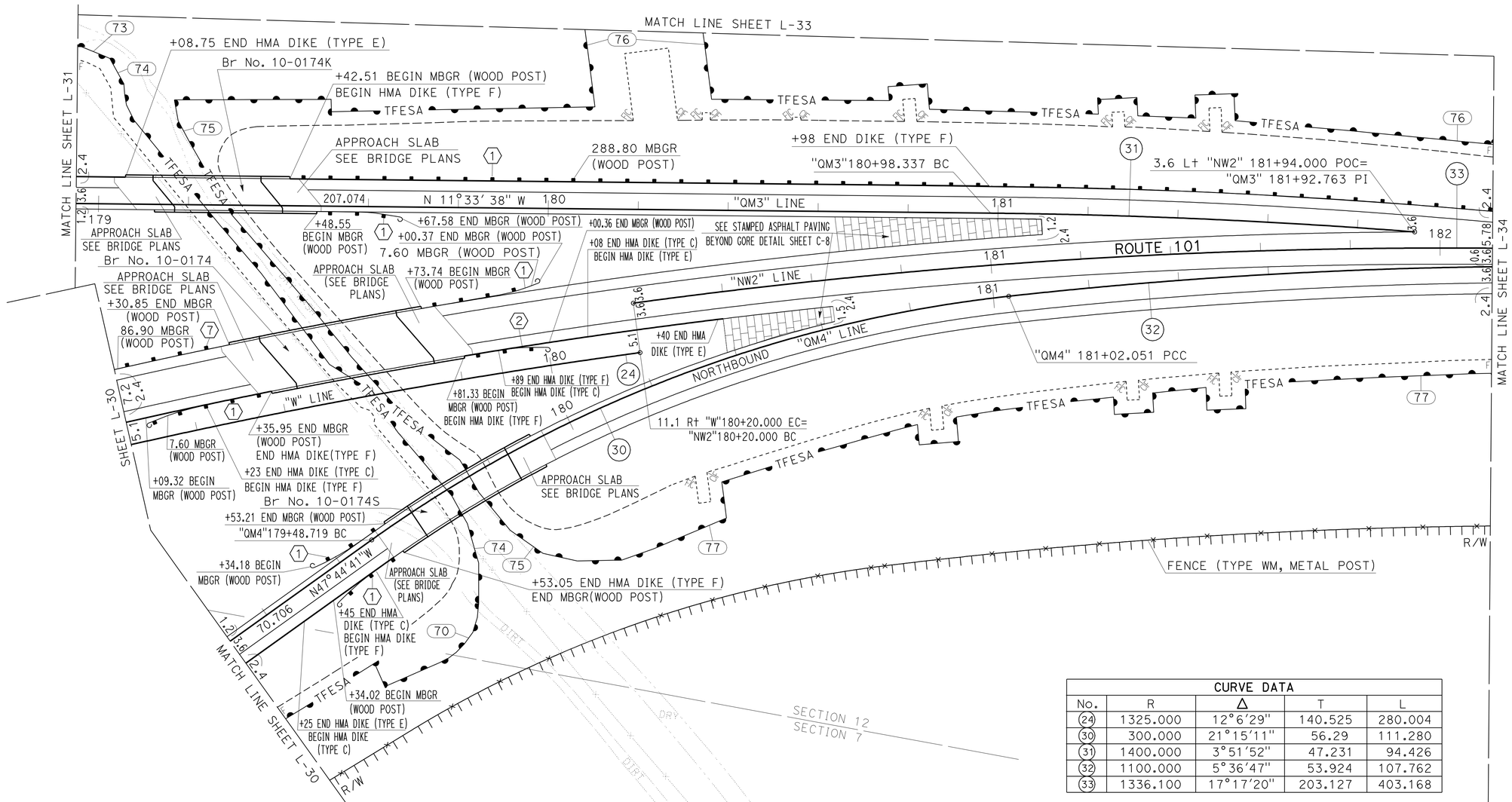


WILLITS
T18N R13 & 14W MDB&M
SEC 7 & 12



CURVE DATA				
No.	R	Δ	T	L
24	1325.000	12°6'29"	140.525	280.004
30	300.000	21°15'11"	56.29	111.280
31	1400.000	3°51'52"	47.231	94.426
32	1100.000	5°36'47"	53.924	107.762
33	1336.100	17°17'20"	203.127	403.168

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-32

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

LAST REVISION 08-15-11 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 13:58

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	40	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

Caltrans Metric

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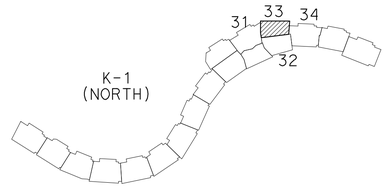
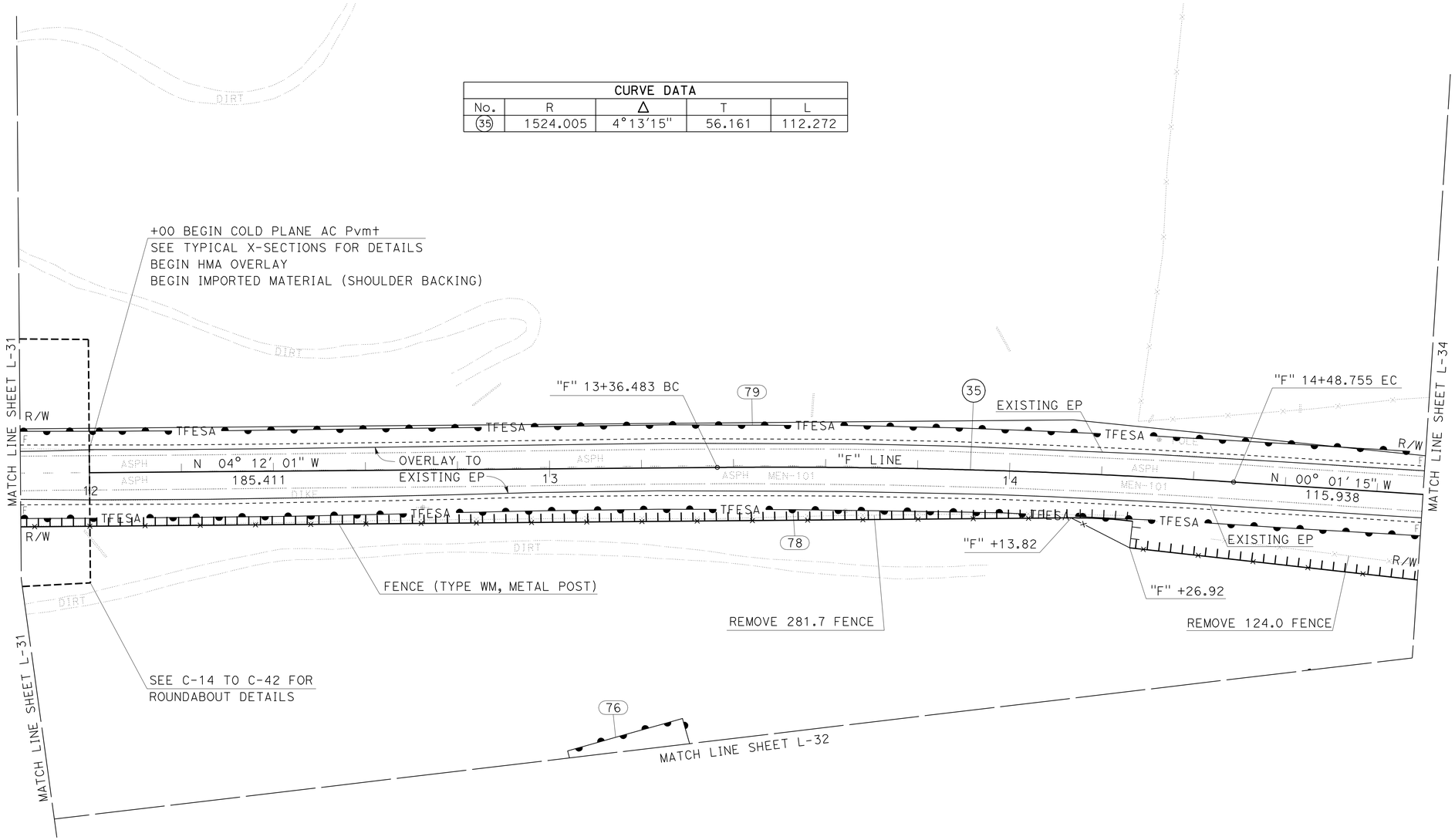
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



WILLITS
T18N R14W MDB&M
SEC 12

CURVE DATA				
No.	R	Δ	T	L
35	1524.005	4°13'15"	56.161	112.272



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-33

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-19-10 | DATE PLOTTED => 31-JAN-2012 | TIME PLOTTED => 13:02

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	41	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
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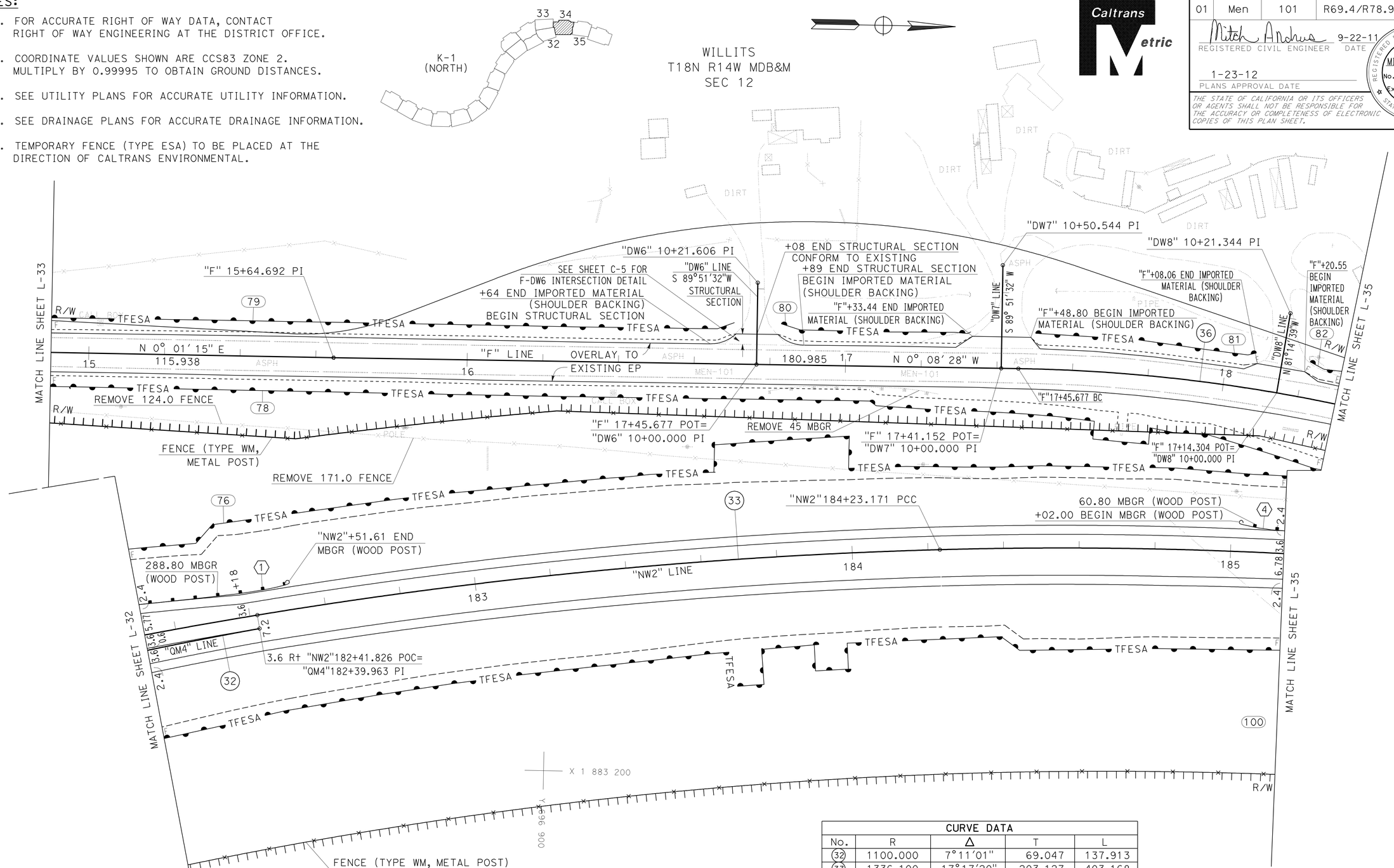

CURVE DATA				
No.	R	Δ	T	L
32	1100.000	7°11'01"	69.047	137.913
33	1336.100	17°17'20"	203.127	403.168
36	441.961	16°44'01"	65.001	129.077

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-34

REVISED BY | DATE REVISED
MITCH ANDRUS | MELISSA HAURY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

LAST REVISION 08-29-11 | DATE PLOTTED => 31-JAN-2012 | TIME PLOTTED => 13:02

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	42	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTES:

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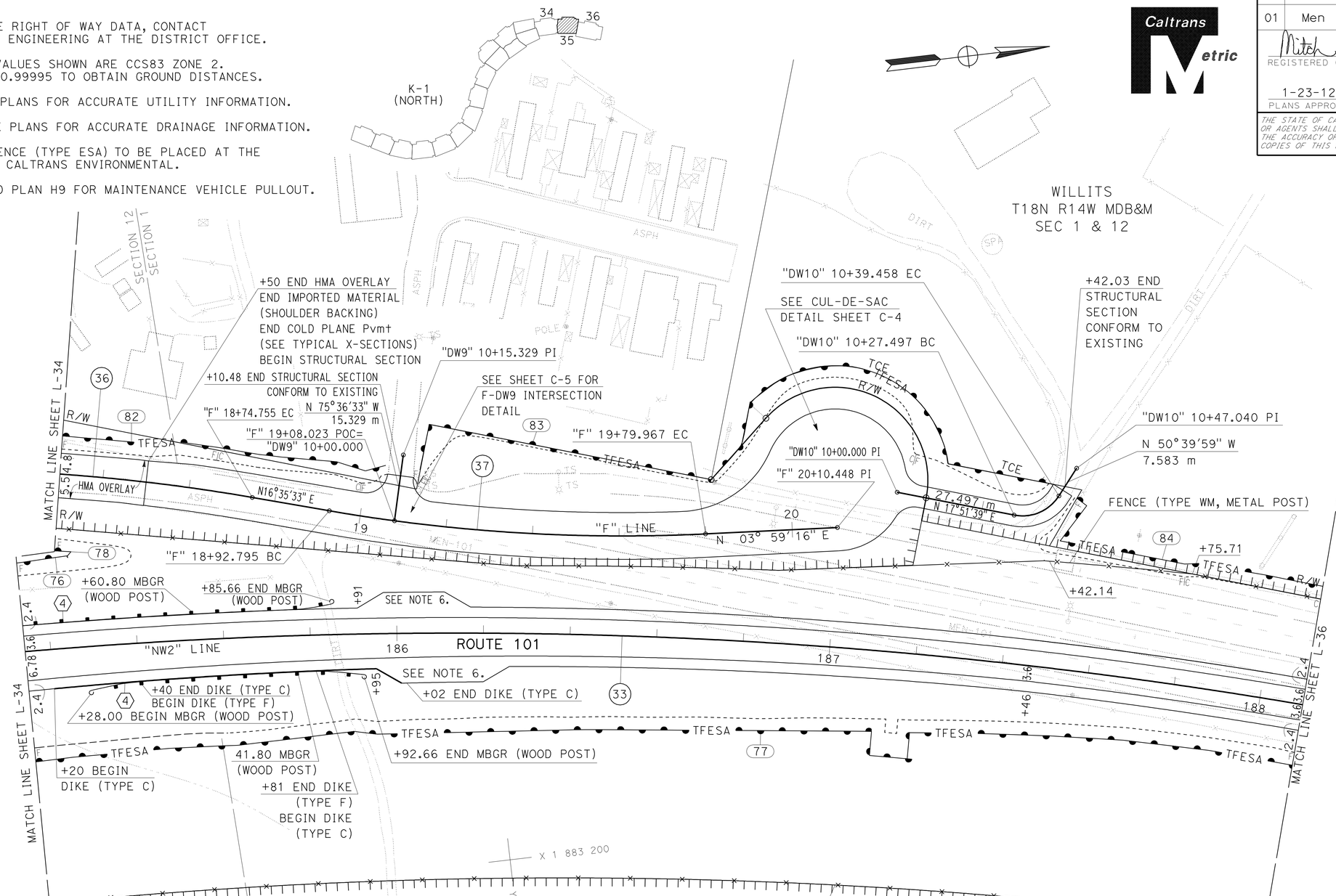
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. SEE STANDARD PLAN H9 FOR MAINTENANCE VEHICLE PULLOUT.



CURVE DATA				
No.	R	Δ	T	L
33	441.961	16°44'01"	65.001	129.077
36	396.241	12°36'17"	43.762	87.171
37	1161.000	11°28'19"	116.619	232.459

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-35

REVISED BY | DATE REVISED
MITCH ANDRUS | MELISSA HAURY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

LAST REVISION 09-13-11 | DATE PLOTTED => 27-JAN-2012 TIME PLOTTED => 13:58

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	43	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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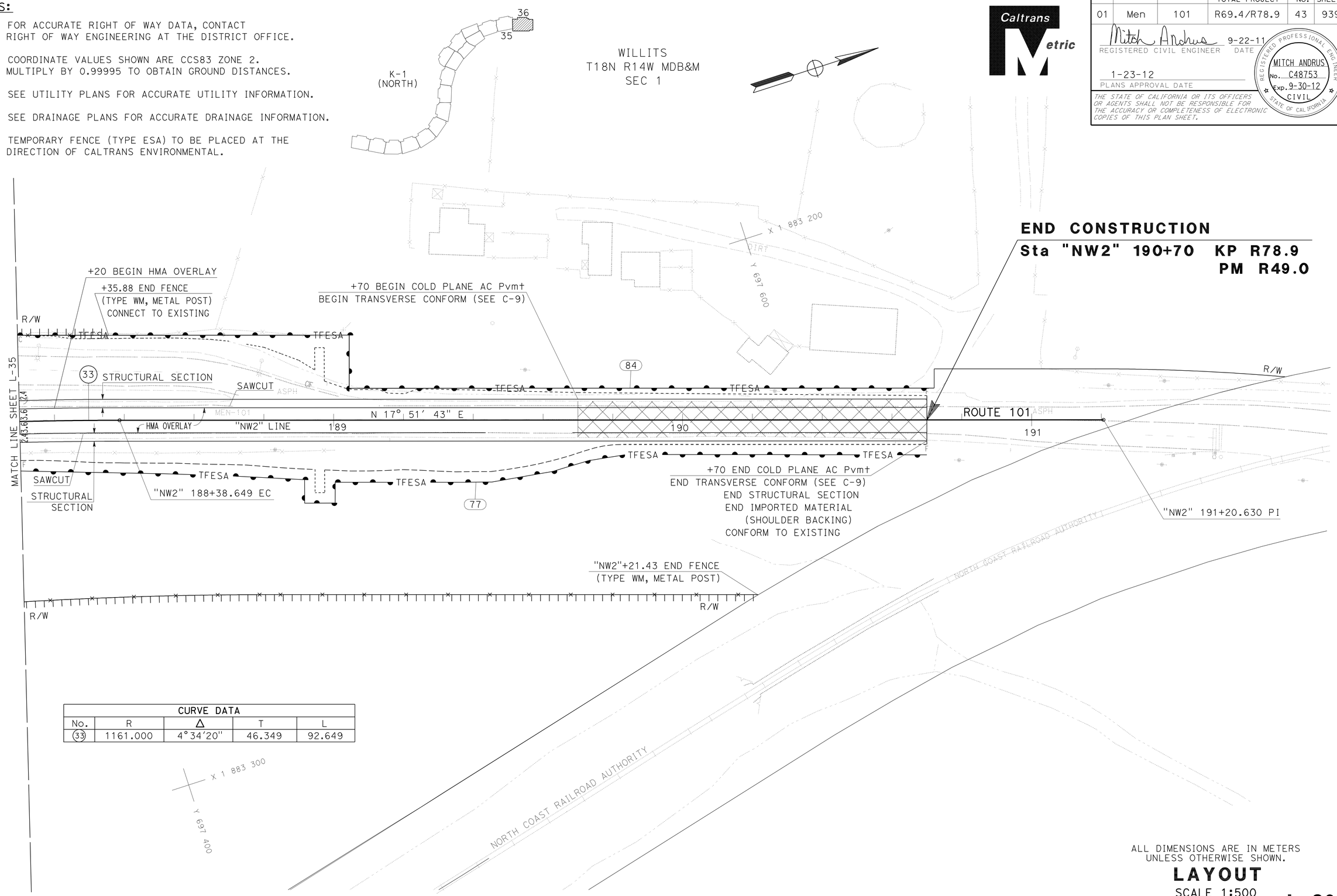

CURVE DATA				
No.	R	Δ	T	L
33	1161.000	4°34'20"	46.349	92.649

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-16-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 13:58

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	44	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MITCH ANDRUS
No. C48753
Exp. 9-30-12
CIVIL
STATE OF CALIFORNIA

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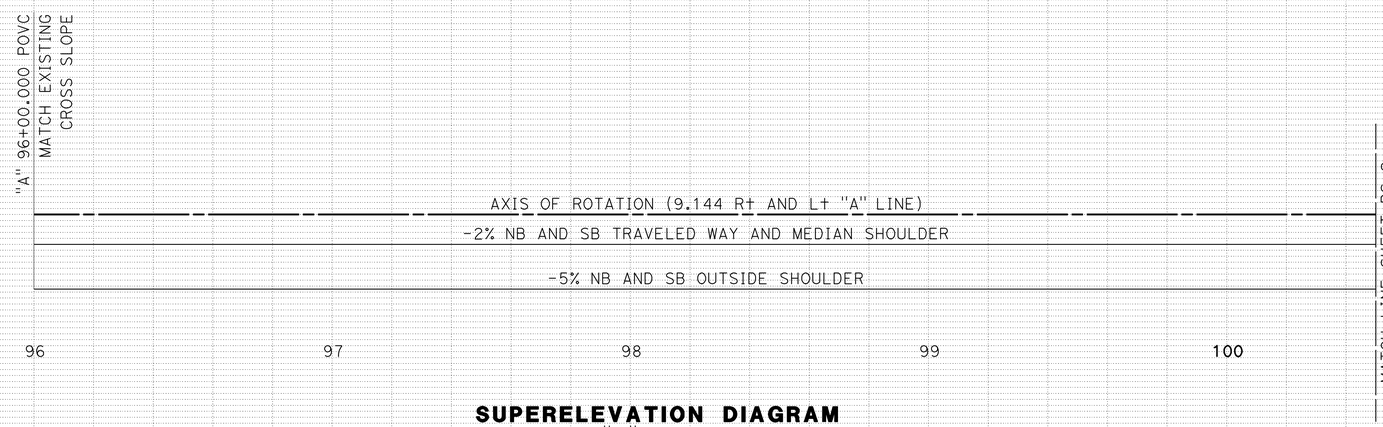
Caltrans Metric

NOTES:
1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. ALL SUPERELEVATION VERTICAL CURVES ARE 30 m UNLESS OTHERWISE DENOTED.



SUPERELEVATION DIAGRAM
"A" LINE
SCALE Horiz 1:1000

PROFILE
"A" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PROFILE AND SUPERELEVATION DIAGRAM

PS-1

Station 96 97 98 99 100

REVISED BY | DATE REVISED
MITCH ANDRUS | KARA BRIMHALL
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 00-00-00
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 12:41

NOTES:
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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	45	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MITCH ANDRUS
No. C48753
Exp. 9-30-12
CIVIL
STATE OF CALIFORNIA

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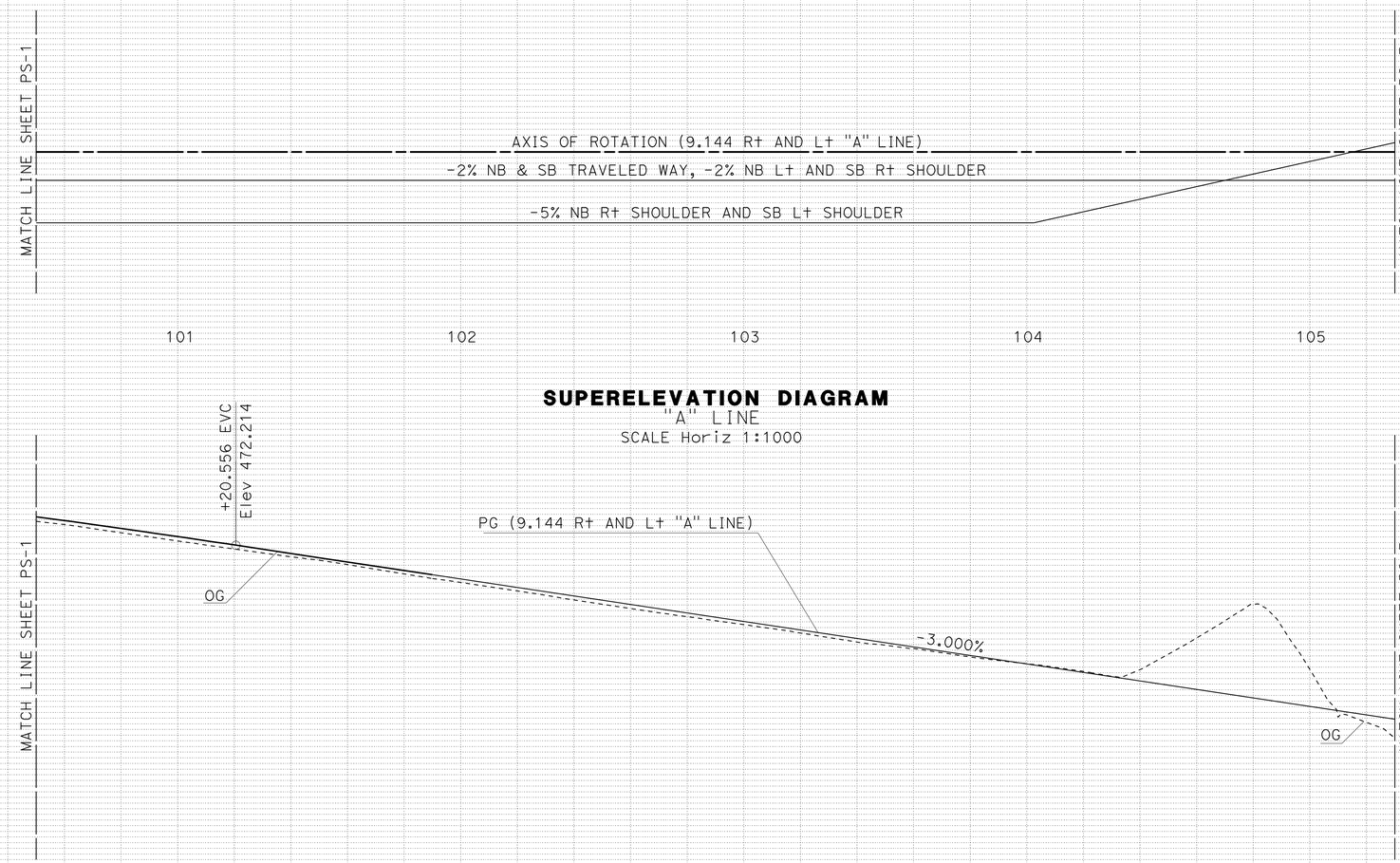

SUPERELEVATION DIAGRAM
"A" LINE
SCALE Horiz 1:1000

PROFILE
"A" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PROFILE AND SUPERELEVATION DIAGRAM

PS-2

Station 101 102 103 104 105

REVISED BY | DATE REVISED
MITCH ANDRUS | KARA BRIMHALL
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 00-00-00
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 12:41

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	46	939

Caltrans Metric

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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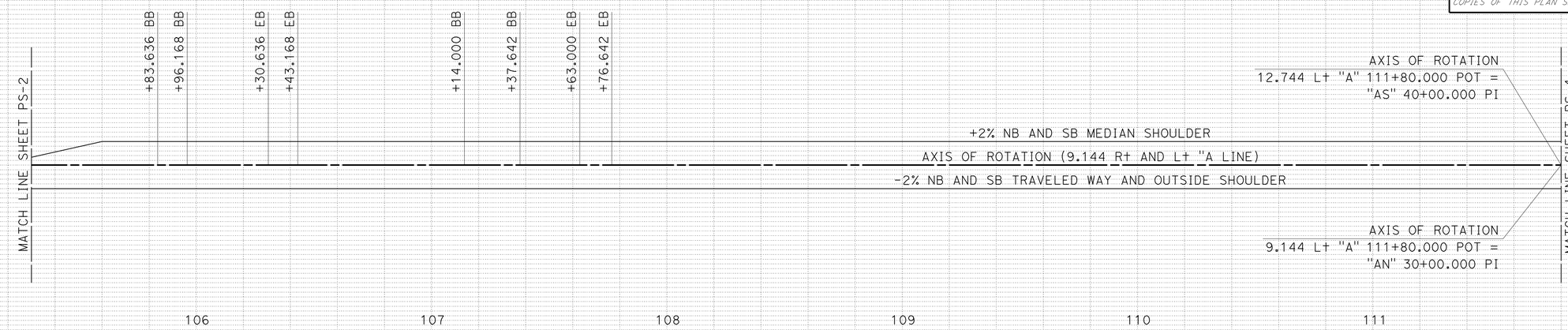
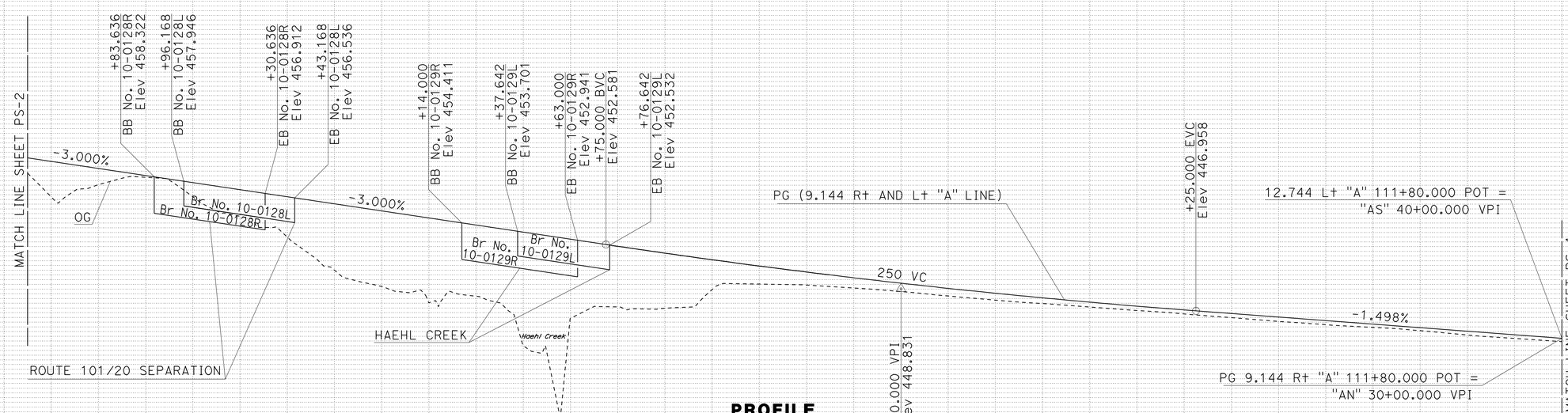


SUPERELEVATION DIAGRAM
"A" LINE
SCALE Horiz 1:1000



PROFILE
"A" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PROFILE AND SUPERELEVATION DIAGRAM

PS-3

REVISED BY	DATE REVISED
MITCH ANDRUS	KARA BRIMHALL

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: KARA BRIMHALL

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-16-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 12:41

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	47	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MITCH ANDRUS
No. C48753
Exp. 9-30-12
CIVIL
STATE OF CALIFORNIA

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Caltrans Metric

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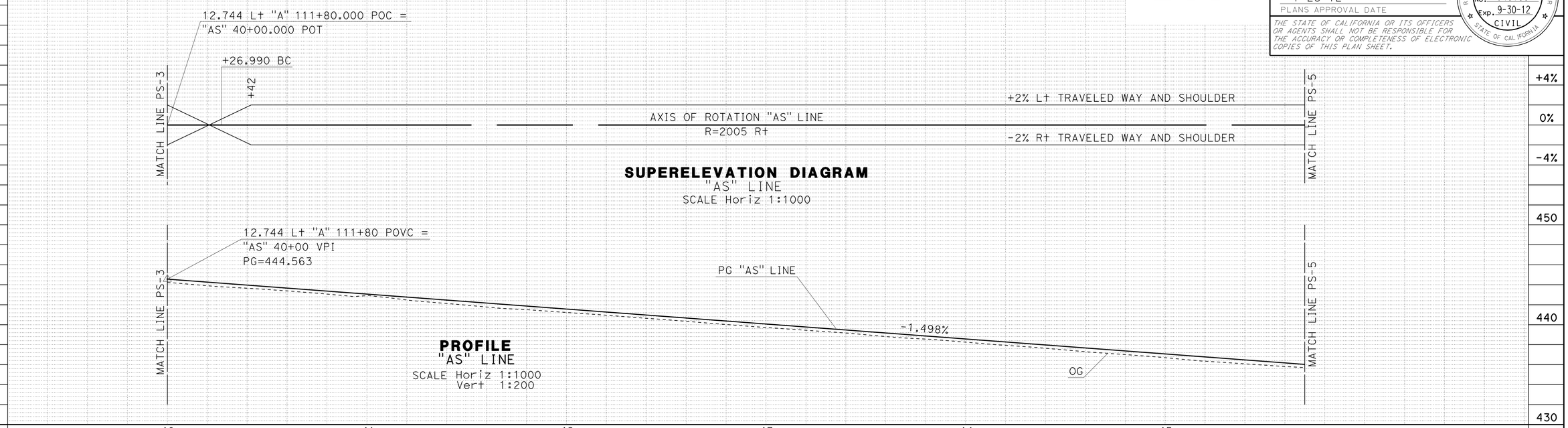

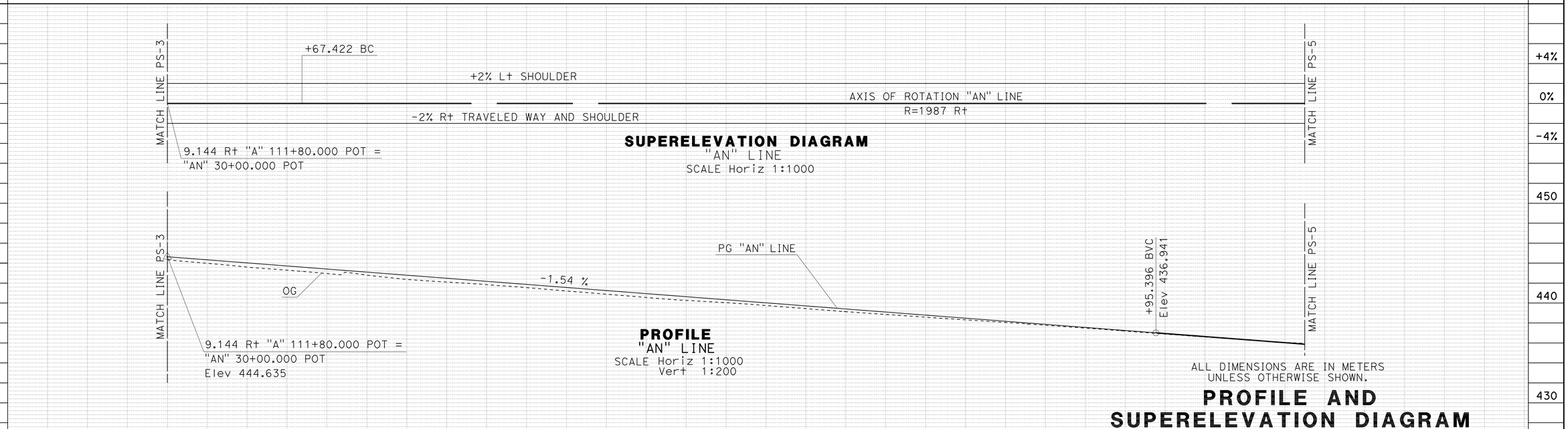

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PROFILE AND SUPERELEVATION DIAGRAM

PS-4

REVISED BY | DATE REVISED

MITCH ANDRUS | KARA BRIMHALL

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

LAST REVISION 00-00-00 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 12:42

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	48	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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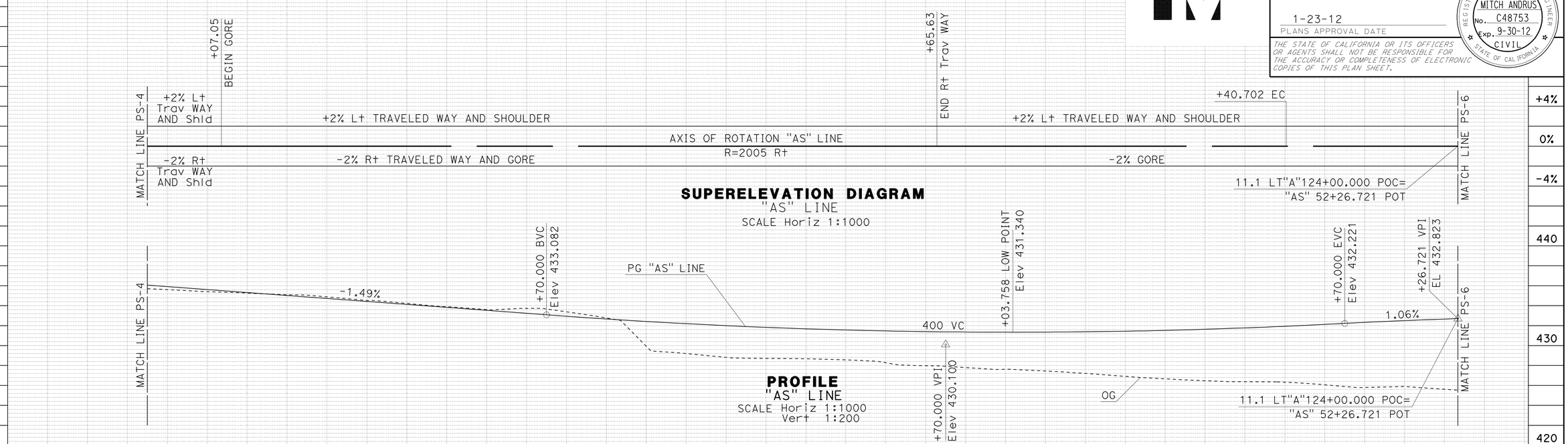

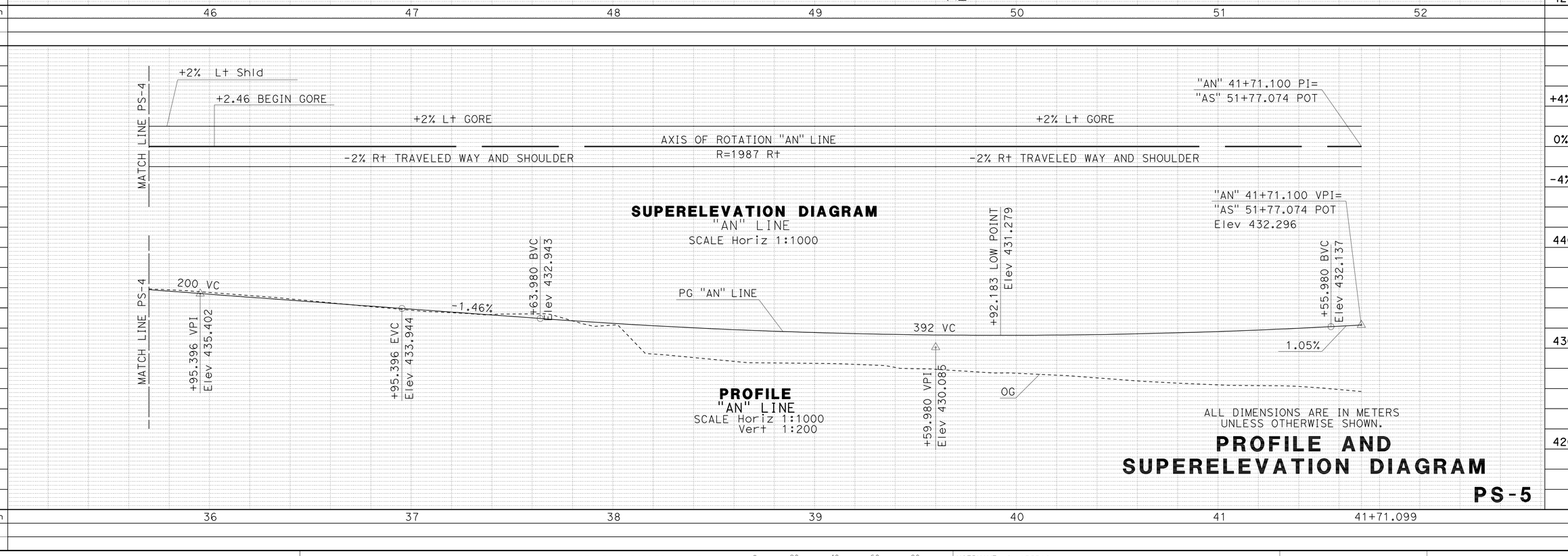

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PROFILE AND SUPERELEVATION DIAGRAM

PS-5

REVISED BY | DATE REVISED
MITCH ANDRUS | KARA BRIMHALL
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-DESIGN EAST

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	49	939

Caltrans Metric

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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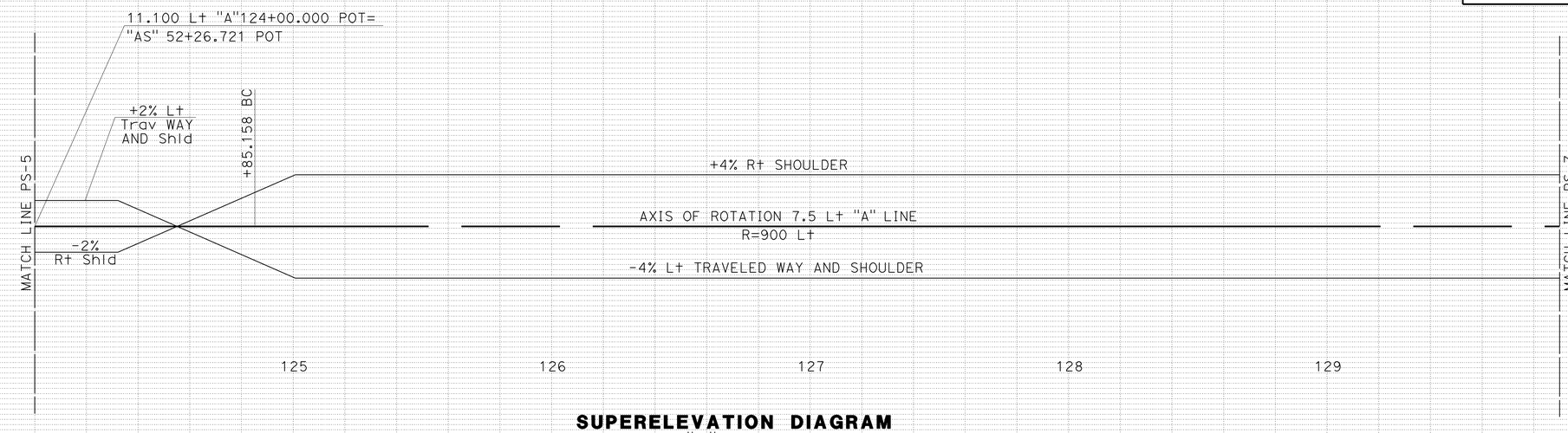
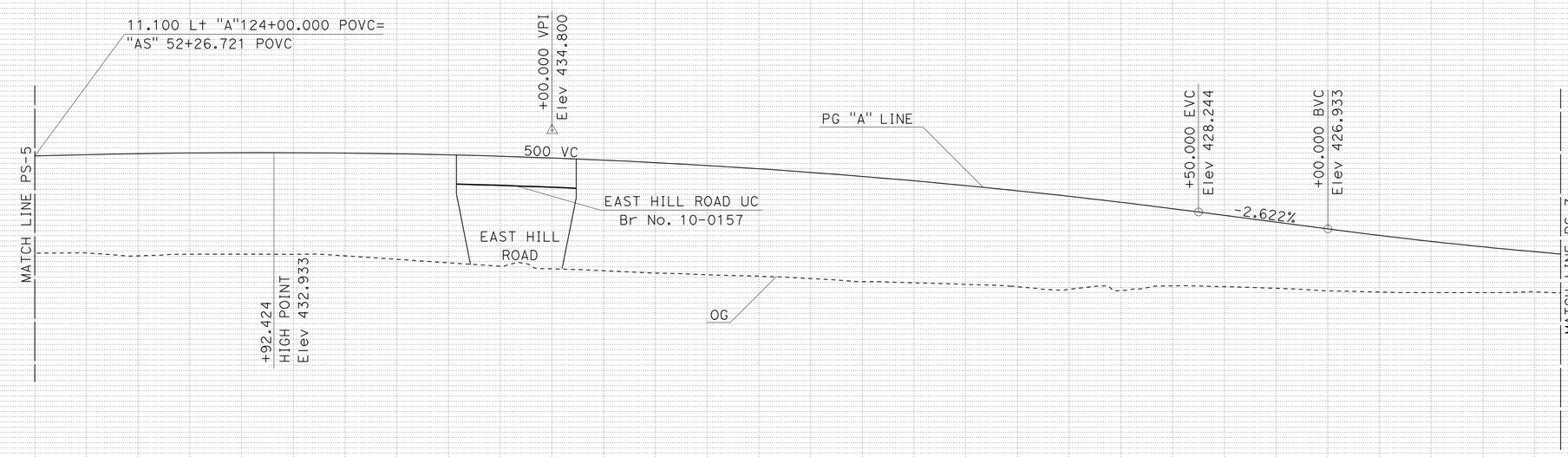


SUPERELEVATION DIAGRAM
"A" LINE
SCALE Horiz 1:1000



PROFILE
"A" LINE

SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-6

Station 124 125 126 127 128 129

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MITCH ANDRUS
KARA BRIMHALL

CALCULATED-DESIGNED BY
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FUNCTIONAL SUPERVISOR
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	50	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MITCH ANDRUS
No. C48753
Exp. 9-30-12
CIVIL
STATE OF CALIFORNIA

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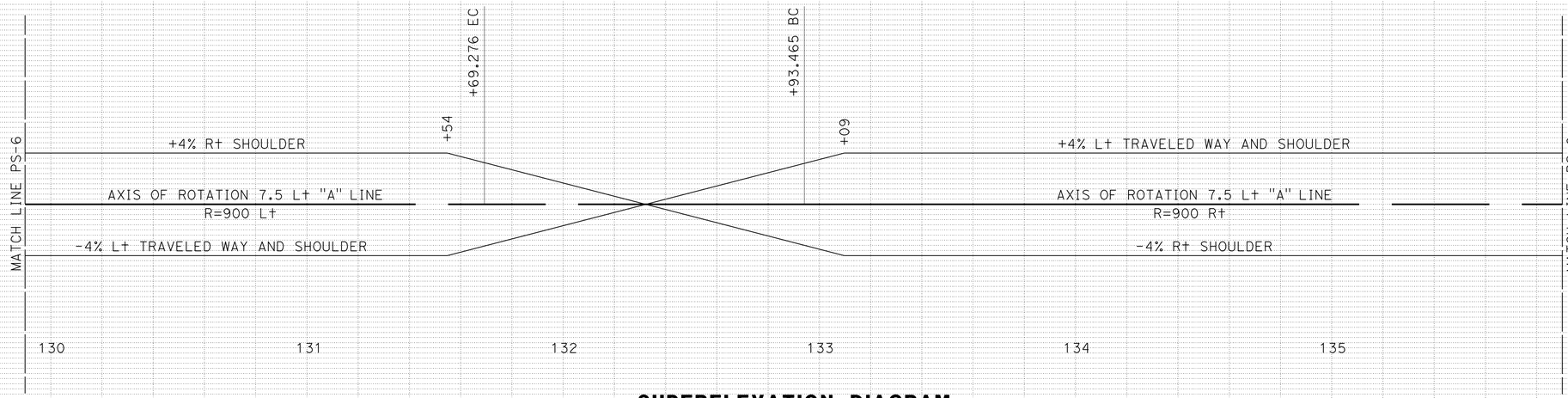

SUPERELEVATION DIAGRAM
"A" LINE
SCALE Horiz 1:1000

PROFILE
"A" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-7

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Caltrans
03-DESIGN EAST

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DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 12:42

NOTES:
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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	51	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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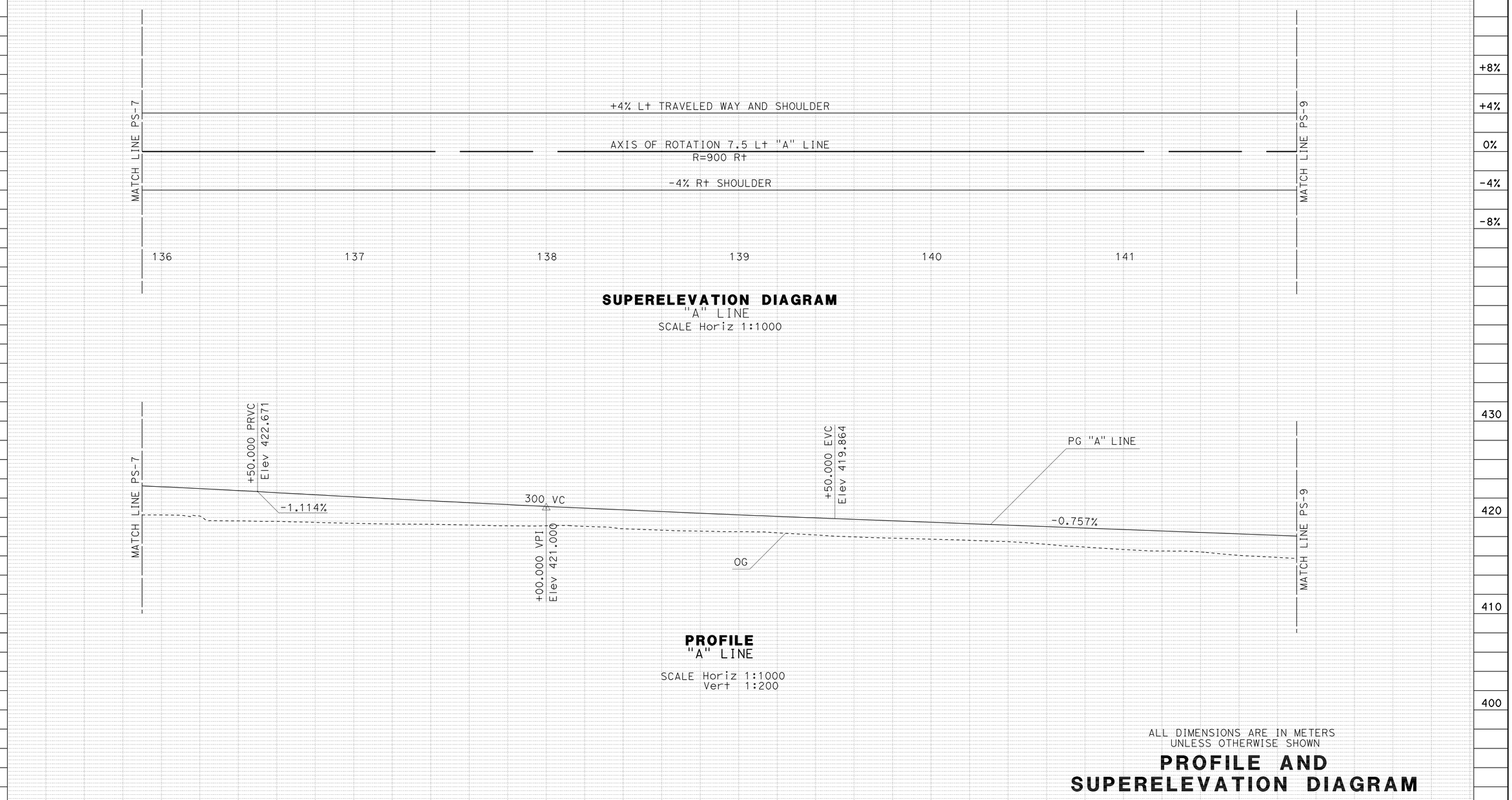

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-8

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NOTES:
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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	52	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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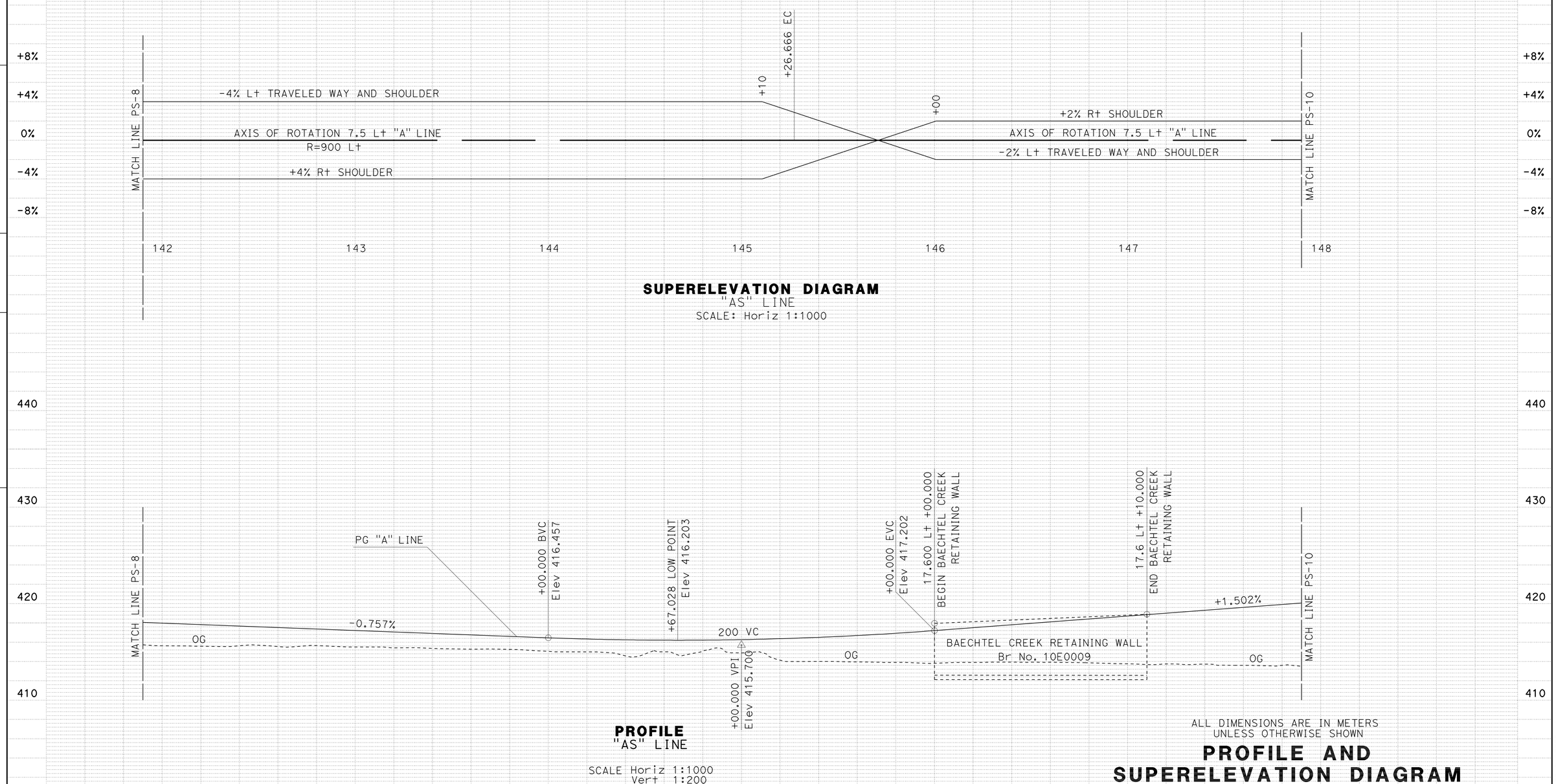

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: KARA BRIMHALL
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
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TIME PLOTTED => 12:42

NOTES:
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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	53	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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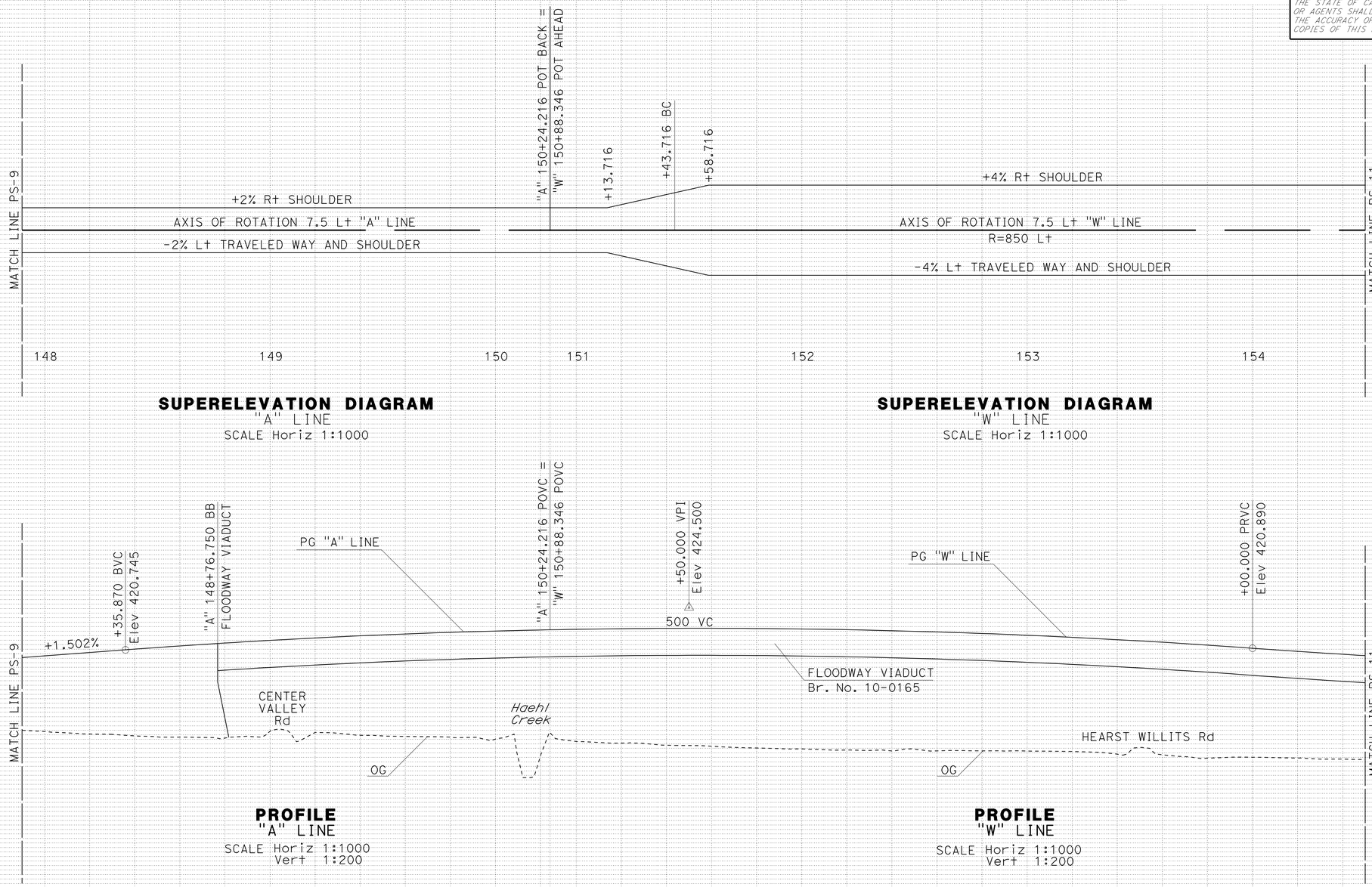

SUPERELEVATION DIAGRAM
"A" LINE
SCALE Horiz 1:1000

SUPERELEVATION DIAGRAM
"W" LINE
SCALE Horiz 1:1000

PROFILE
"A" LINE
SCALE Horiz 1:1000
Vert 1:200

PROFILE
"W" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-10

Station	148	149	150	151	152	153	154

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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	54	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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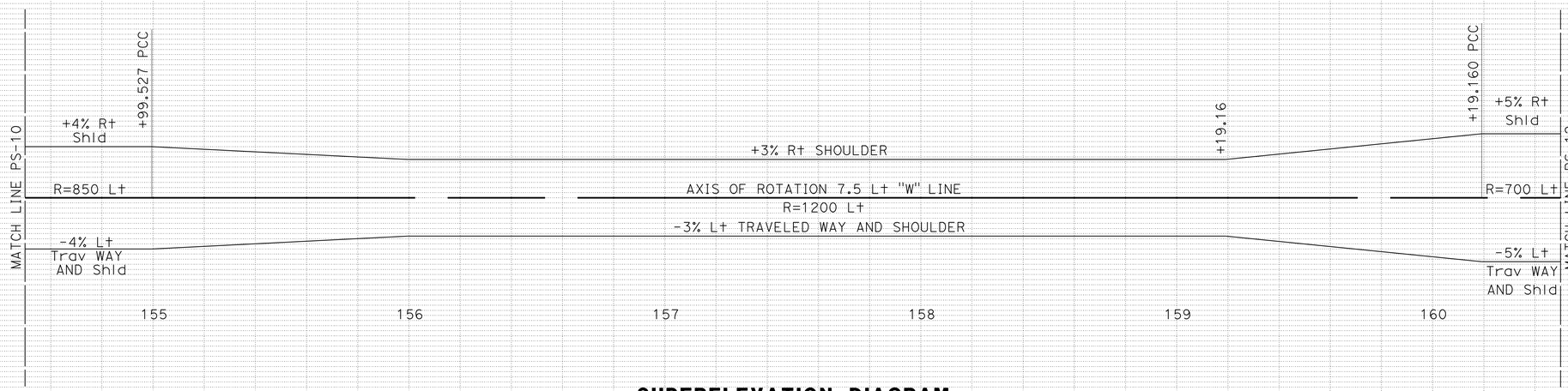

SUPERELEVATION DIAGRAM
"W" LINE
SCALE Horiz 1:1000

PROFILE
"W" LINE

SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-11

Station 155 156 157 158 159 160

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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	55	939

Mitch Andrus 9-22-11
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REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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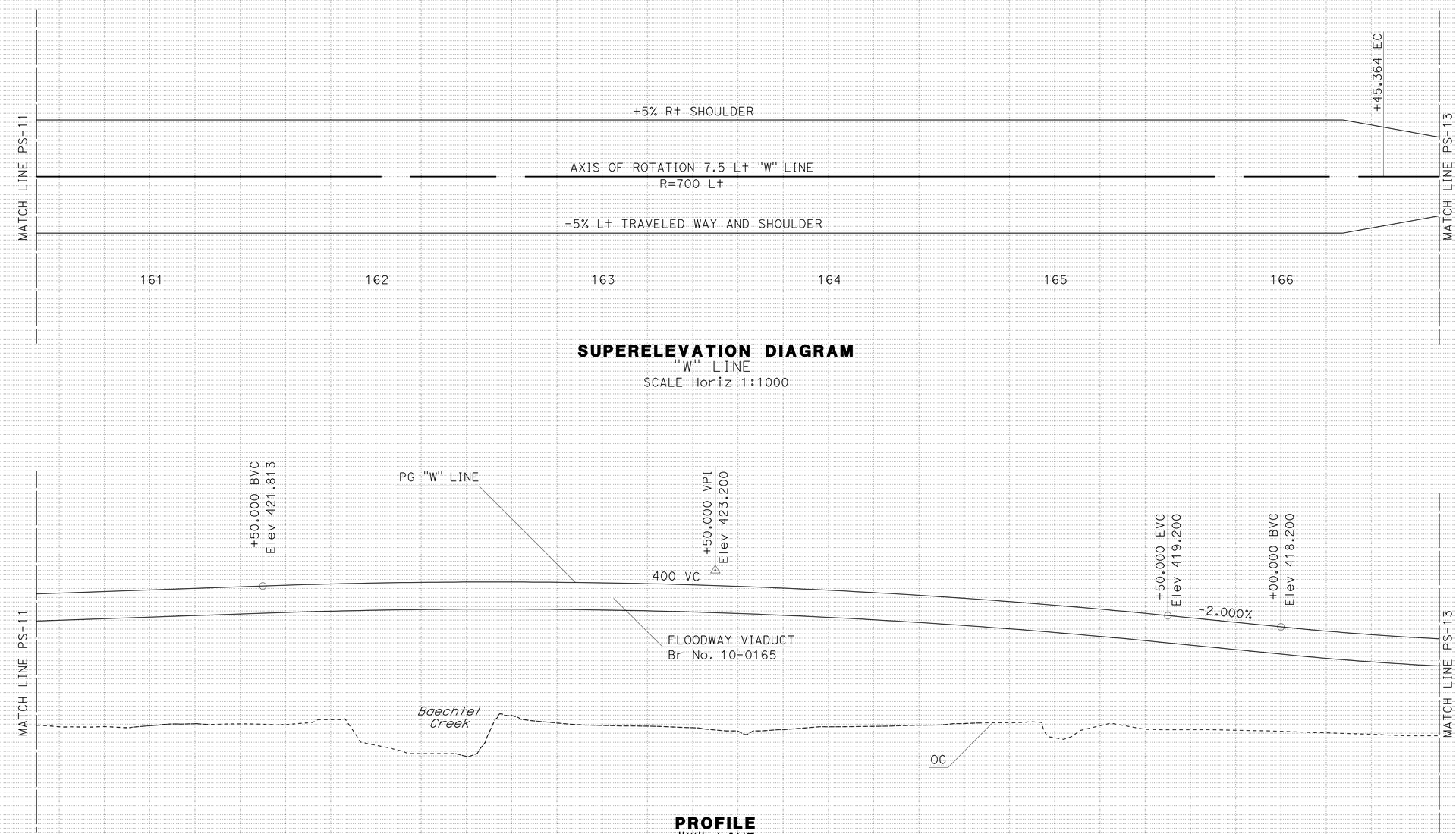

SUPERELEVATION DIAGRAM
"W" LINE
SCALE Horiz 1:1000

PROFILE
"W" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-12

Station	161	162	163	164	165	166

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3. VC=600, EVC="W"174+00.000, Elev 418.254.

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	56	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
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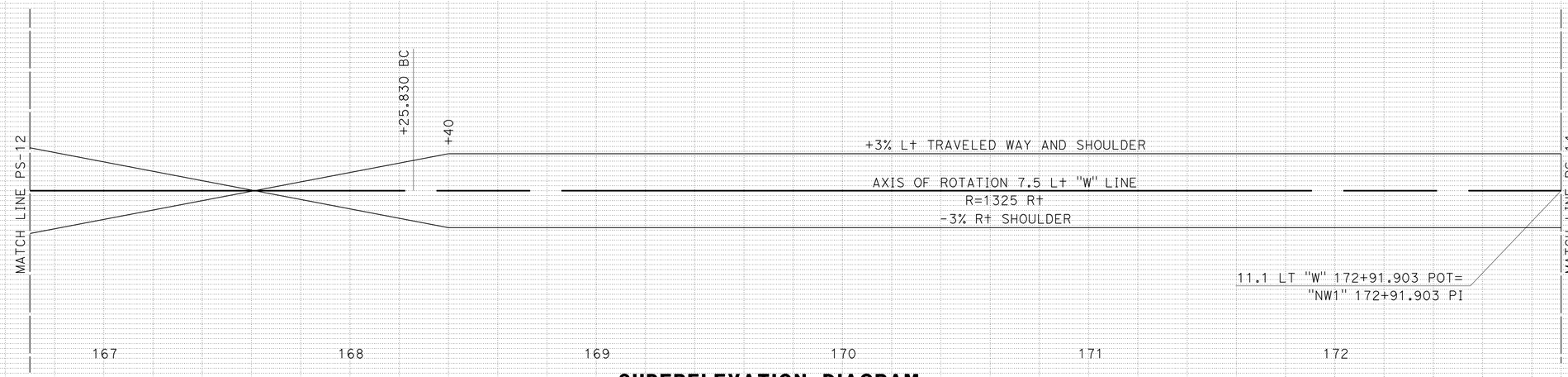
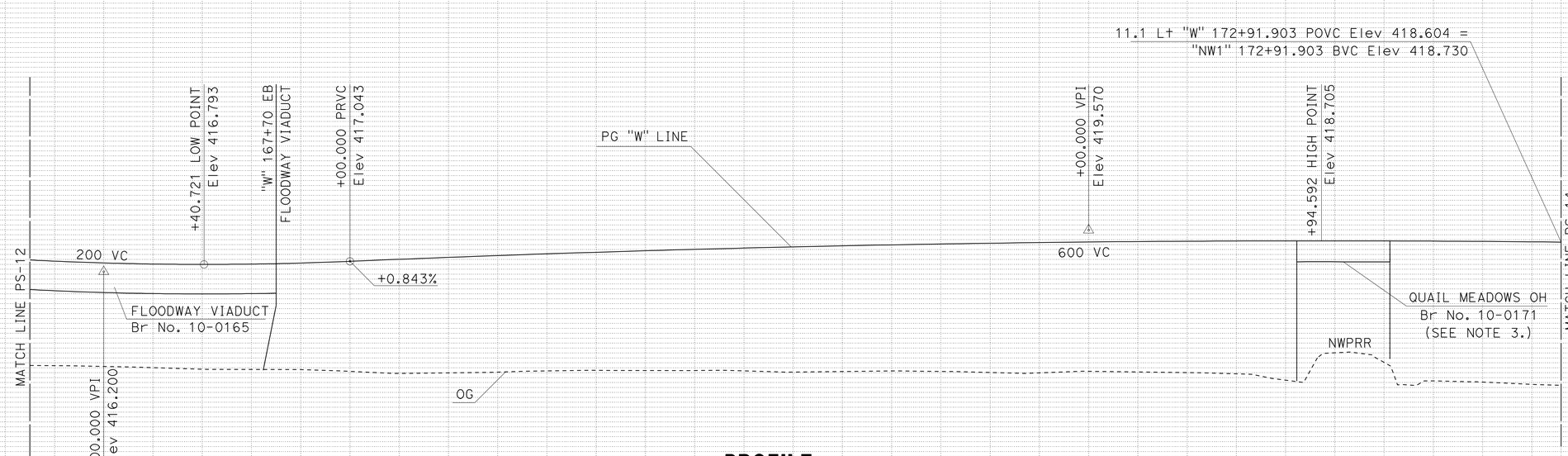


SUPERELEVATION DIAGRAM
"W" LINE
SCALE Horiz 1:1000



PROFILE
"W" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-13

Station 167 168 169 170 171 172

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	57	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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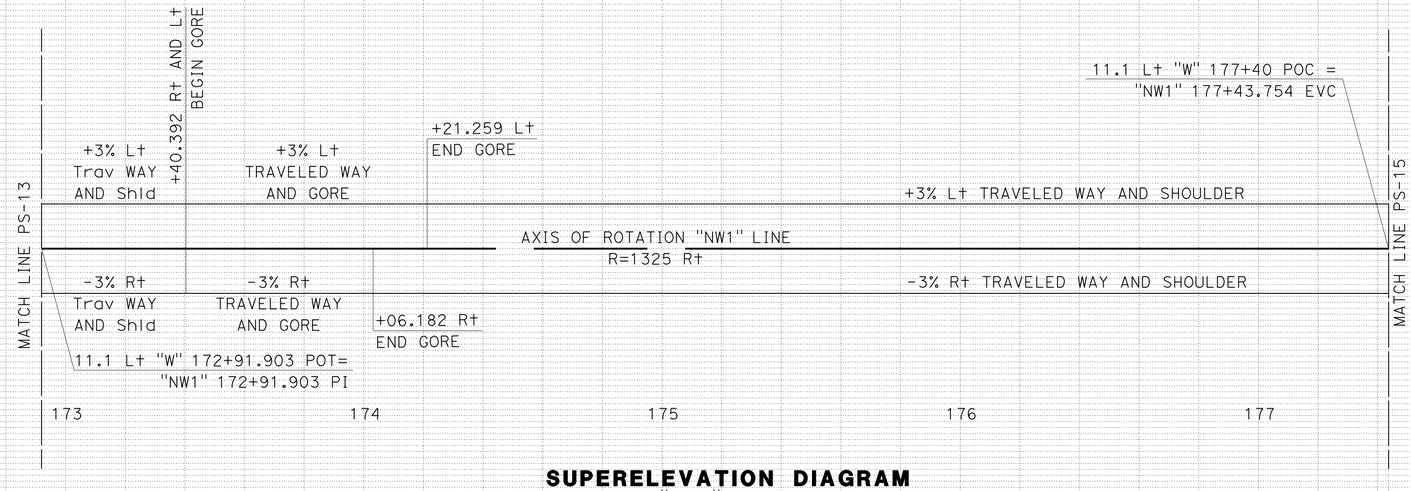
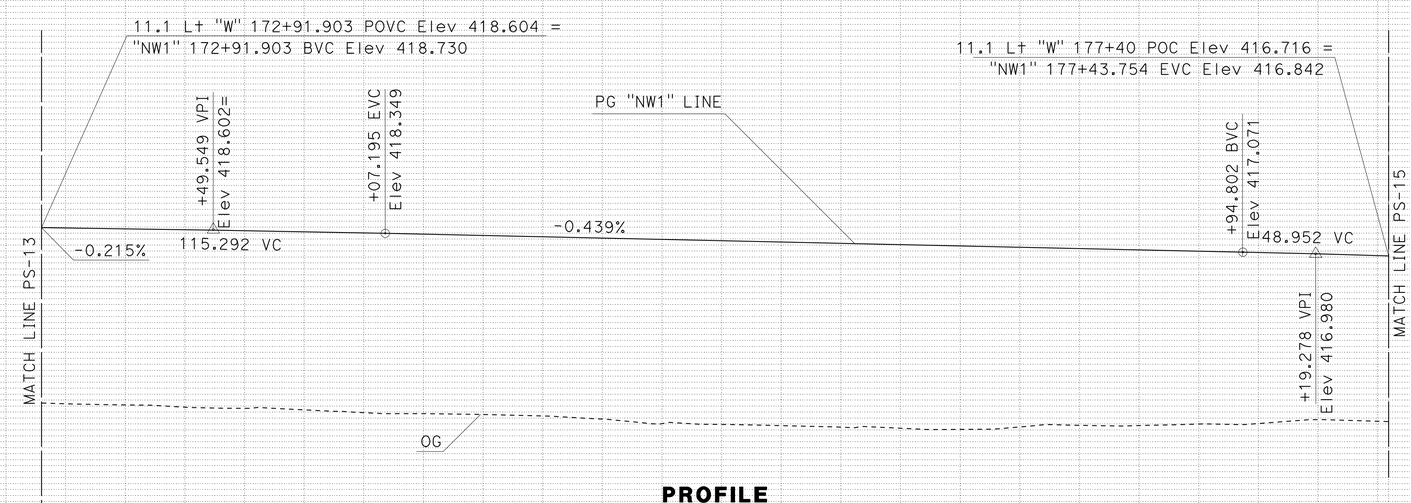


SUPERELEVATION DIAGRAM
"NW1" LINE
SCALE Horiz 1:1000



PROFILE
"NW1" LINE

SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
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PROFILE AND SUPERELEVATION DIAGRAM

PS-14

Station 173 174 175 176 177

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Caltrans 03-DESIGN EAST

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TIME PLOTTED => 12:42

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	58	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

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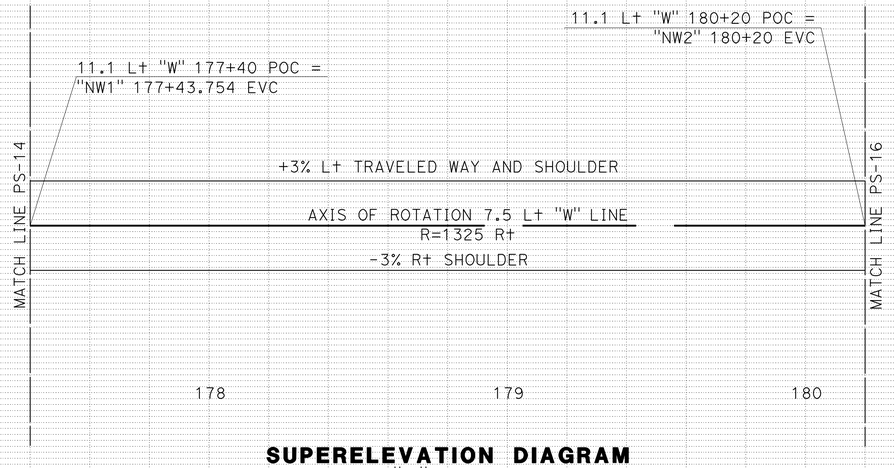
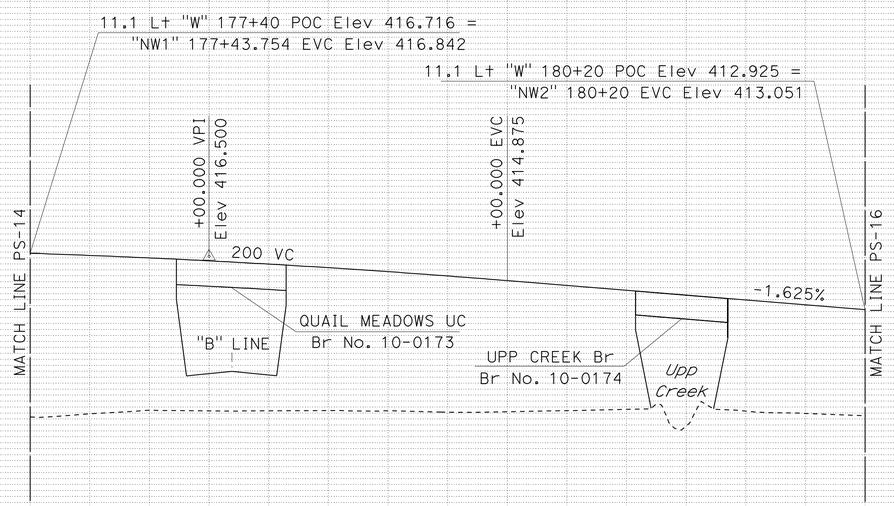


SUPERELEVATION DIAGRAM
"W" LINE
SCALE Horiz 1:1000



PROFILE
"W" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-15

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LAST REVISION 00-00-00 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 12:42

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	59	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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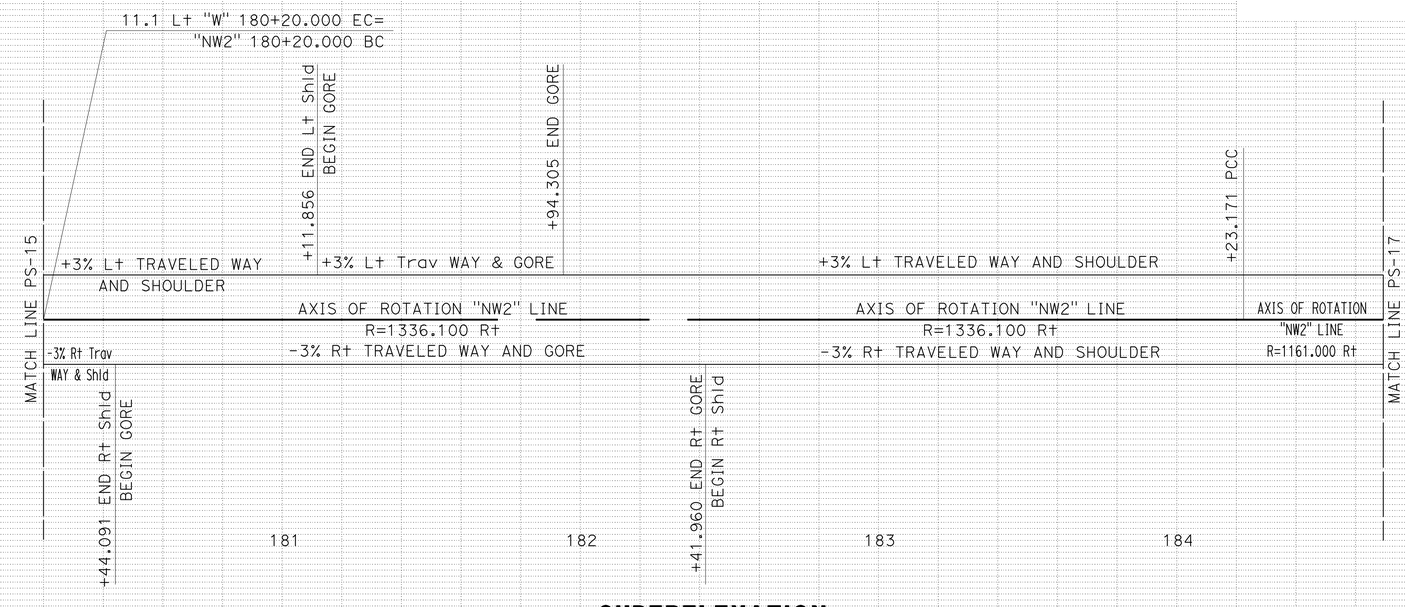
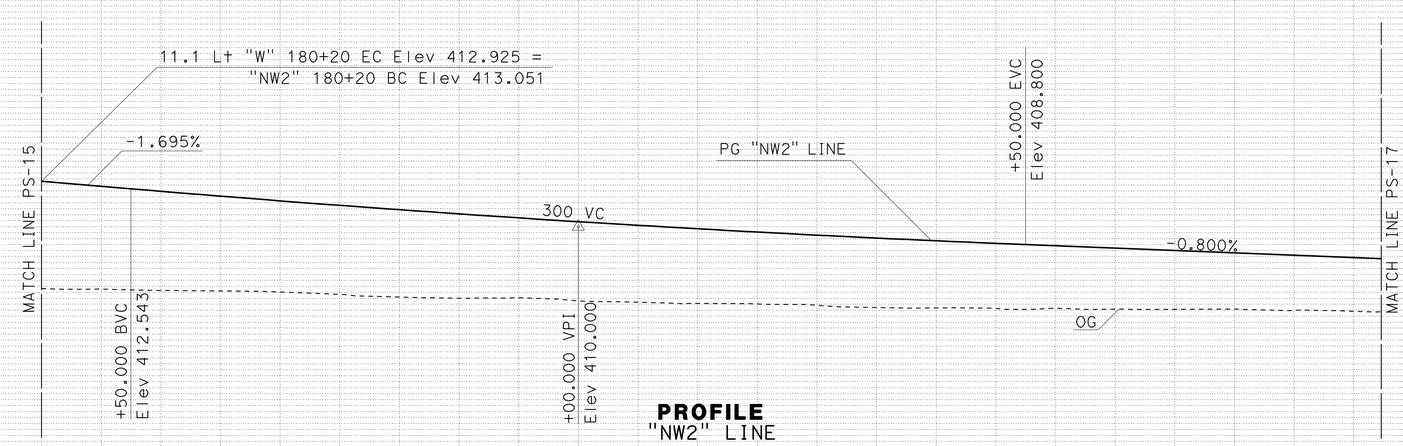


SUPERELEVATION DIAGRAM
"NW2" LINE
SCALE Horiz 1:1000



PROFILE
"NW2" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-16

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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03-DESIGN EAST

Station 181 182 183 184

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DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 12:42

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	60	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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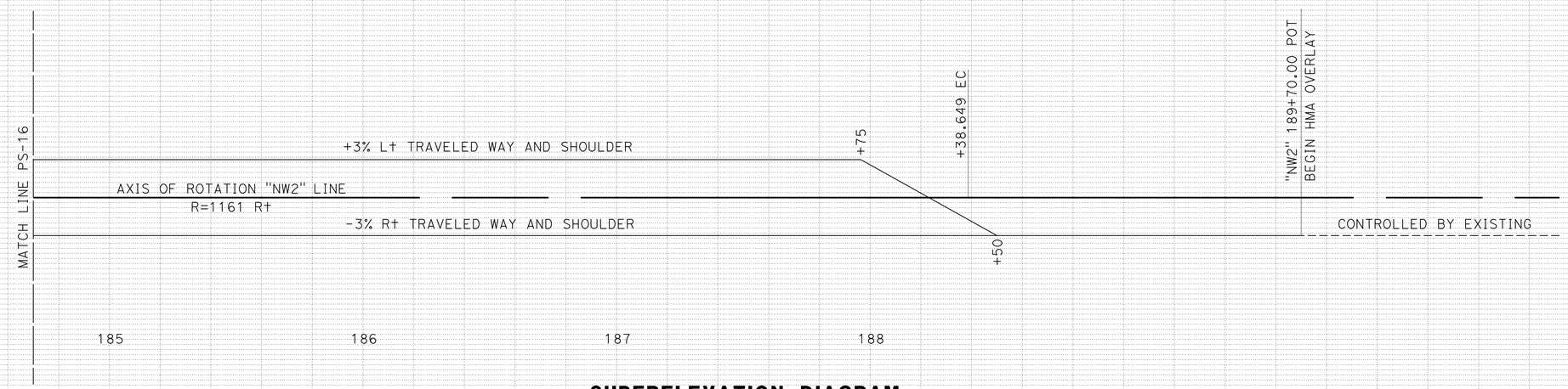
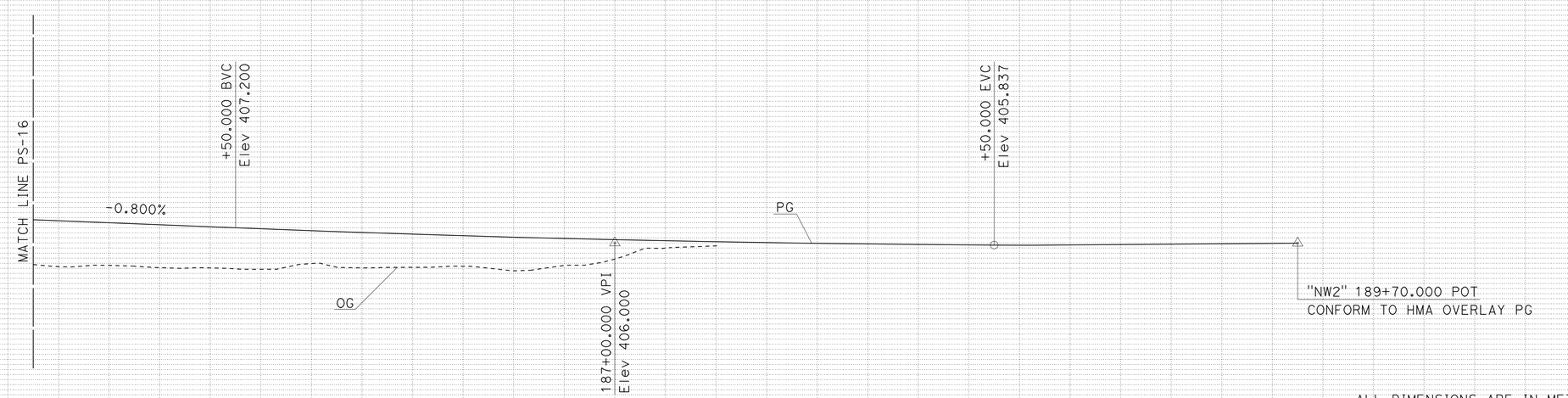


SUPERELEVATION DIAGRAM
"NW2" LINE
SCALE Horiz 1:1000



PROFILE
"NW2" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-17

Station 185 186 187 188 189 190 191

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	61	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MITCH ANDRUS
No. C48753
Exp. 9-30-12
CIVIL
STATE OF CALIFORNIA

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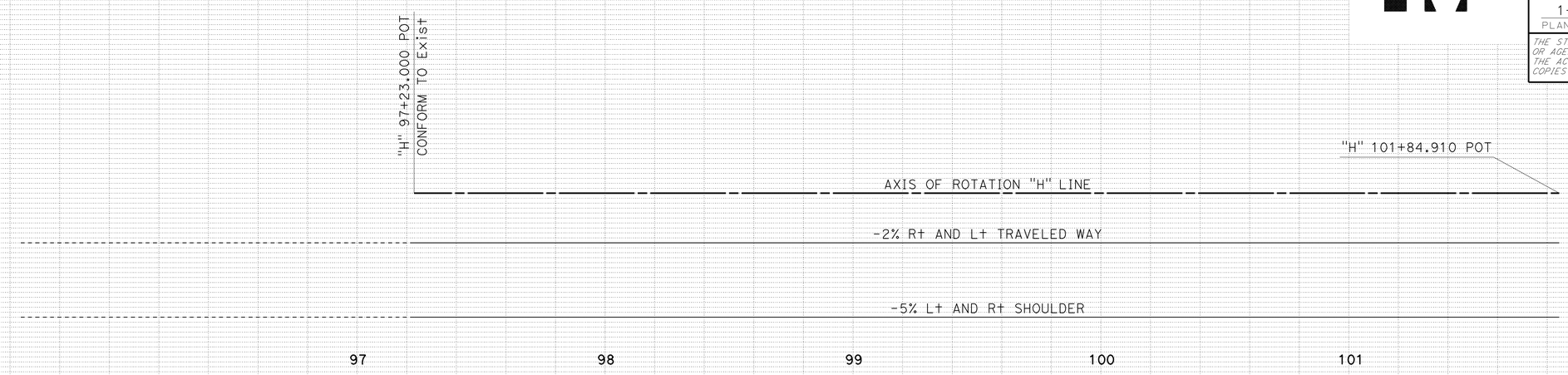
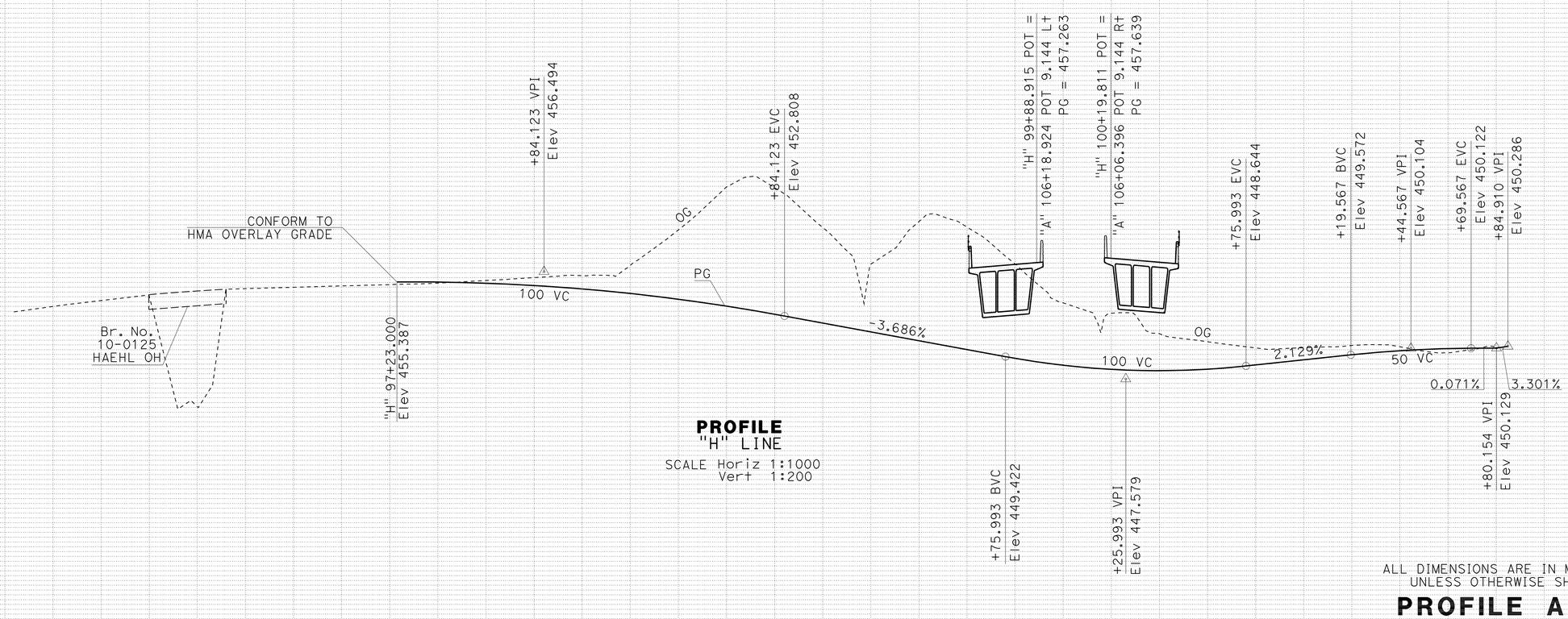


SUPERELEVATION DIAGRAM
"H" LINE
SCALE Horiz 1:1000



PROFILE
"H" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-18

REVISED BY | DATE REVISED
MITCH ANDRUS | KARA BRIMHALL
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 00-00-00 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 12:43

NOTES:
1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. ALL SUPERELEVATION VERTICAL CURVES ARE 30 m UNLESS OTHERWISE DENOTED.

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	62	939

REGISTERED CIVIL ENGINEER — DATE 9-22-11

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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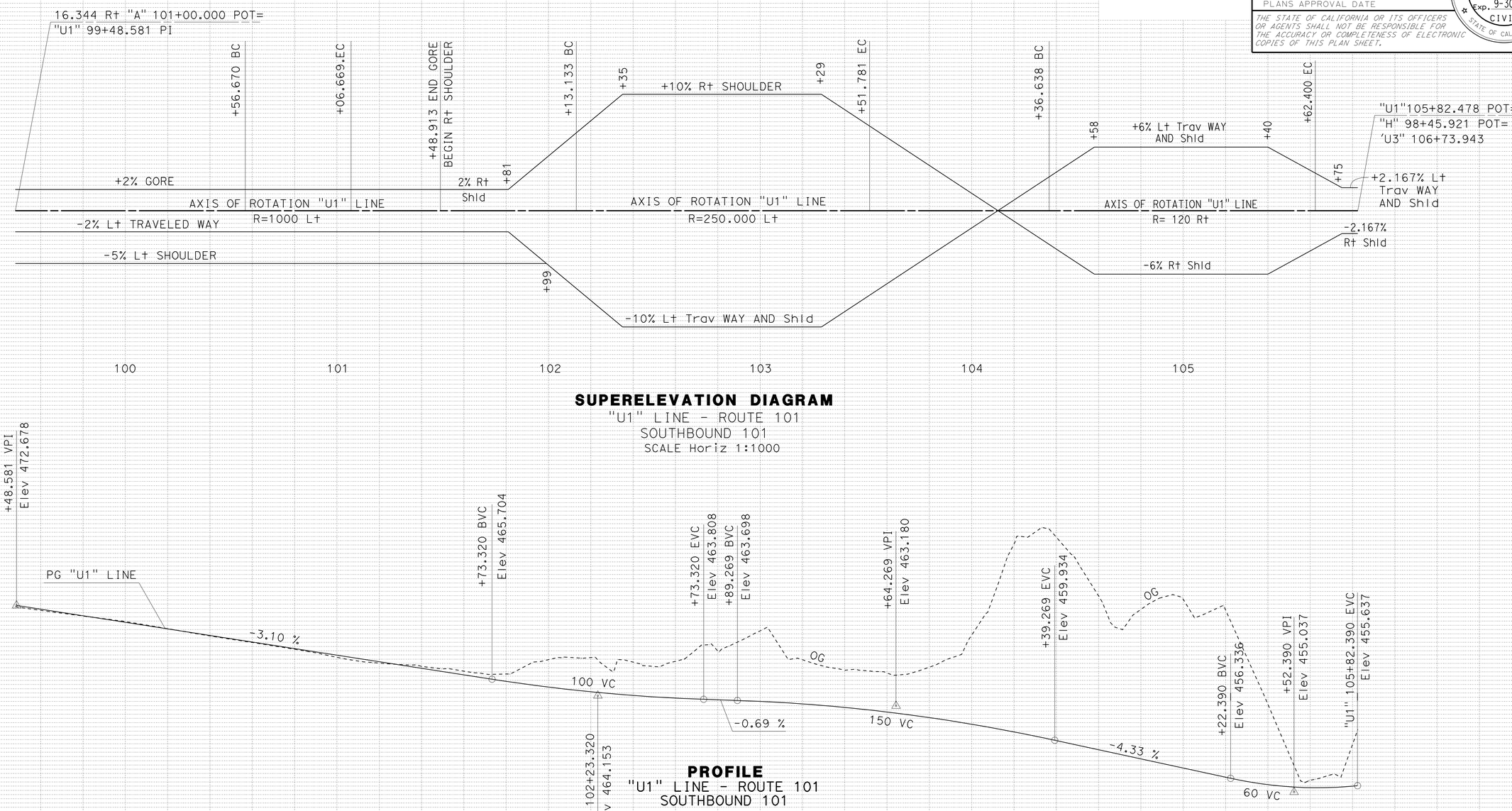

SUPERELEVATION DIAGRAM
"U1" LINE - ROUTE 101
SOUTHBOUND 101
SCALE Horiz 1:1000

PROFILE
"U1" LINE - ROUTE 101
SOUTHBOUND 101
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-19

Station 100 101 102 103 104 105

REVISED BY — DATE REVISED
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FUNCTIONAL SUPERVISOR — DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 01-21-10 DATE PLOTTED => 27-JAN-2012 TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	63	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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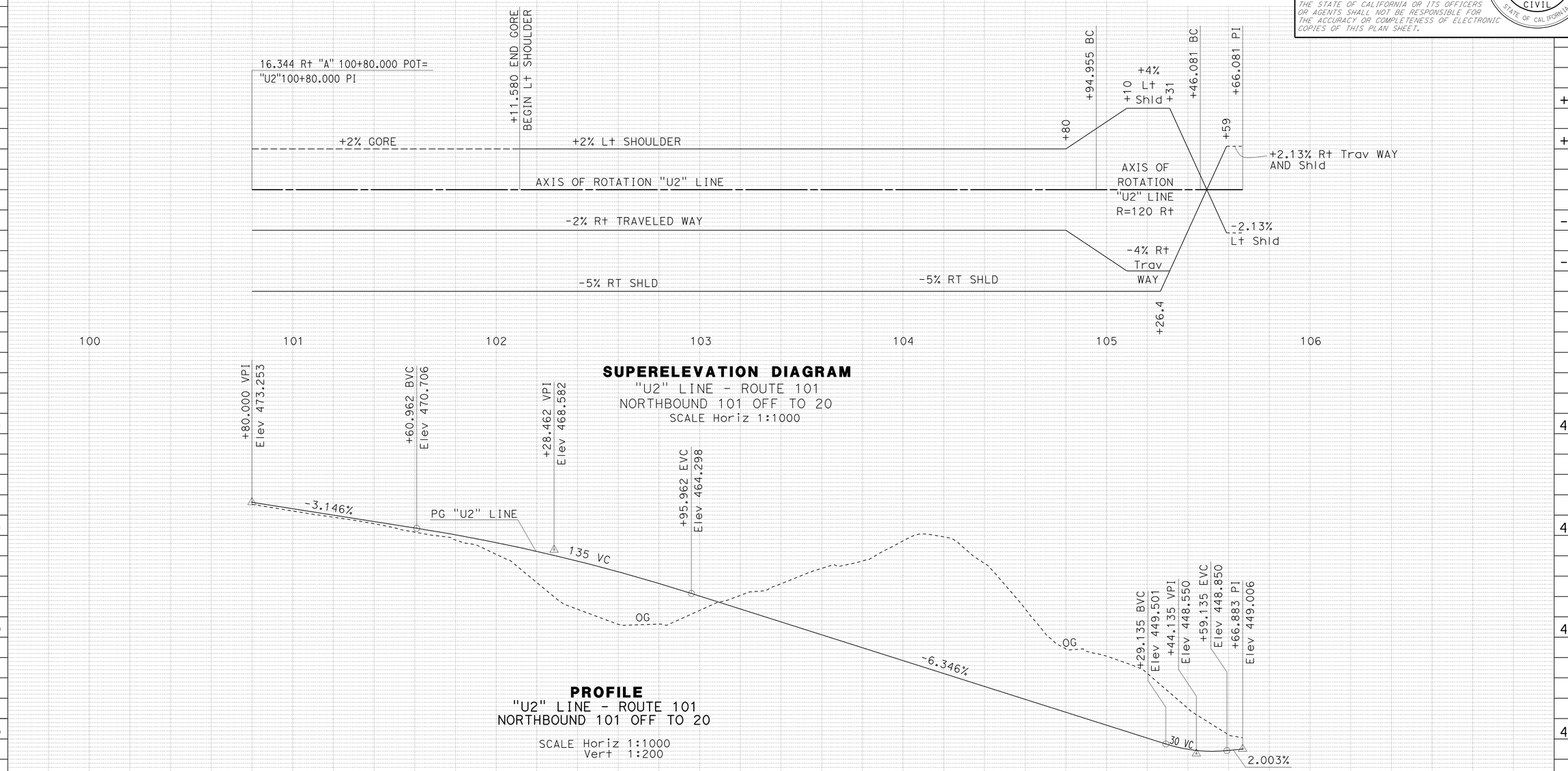

SUPERELEVATION DIAGRAM
"U2" LINE - ROUTE 101
NORTHBOUND 101 OFF TO 20
SCALE Horiz 1:1000

PROFILE
"U2" LINE - ROUTE 101
NORTHBOUND 101 OFF TO 20
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-20

Station	100	101	102	103	104	105	106

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 01-22-10
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TIME PLOTTED => 12:43

NOTES:
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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	64	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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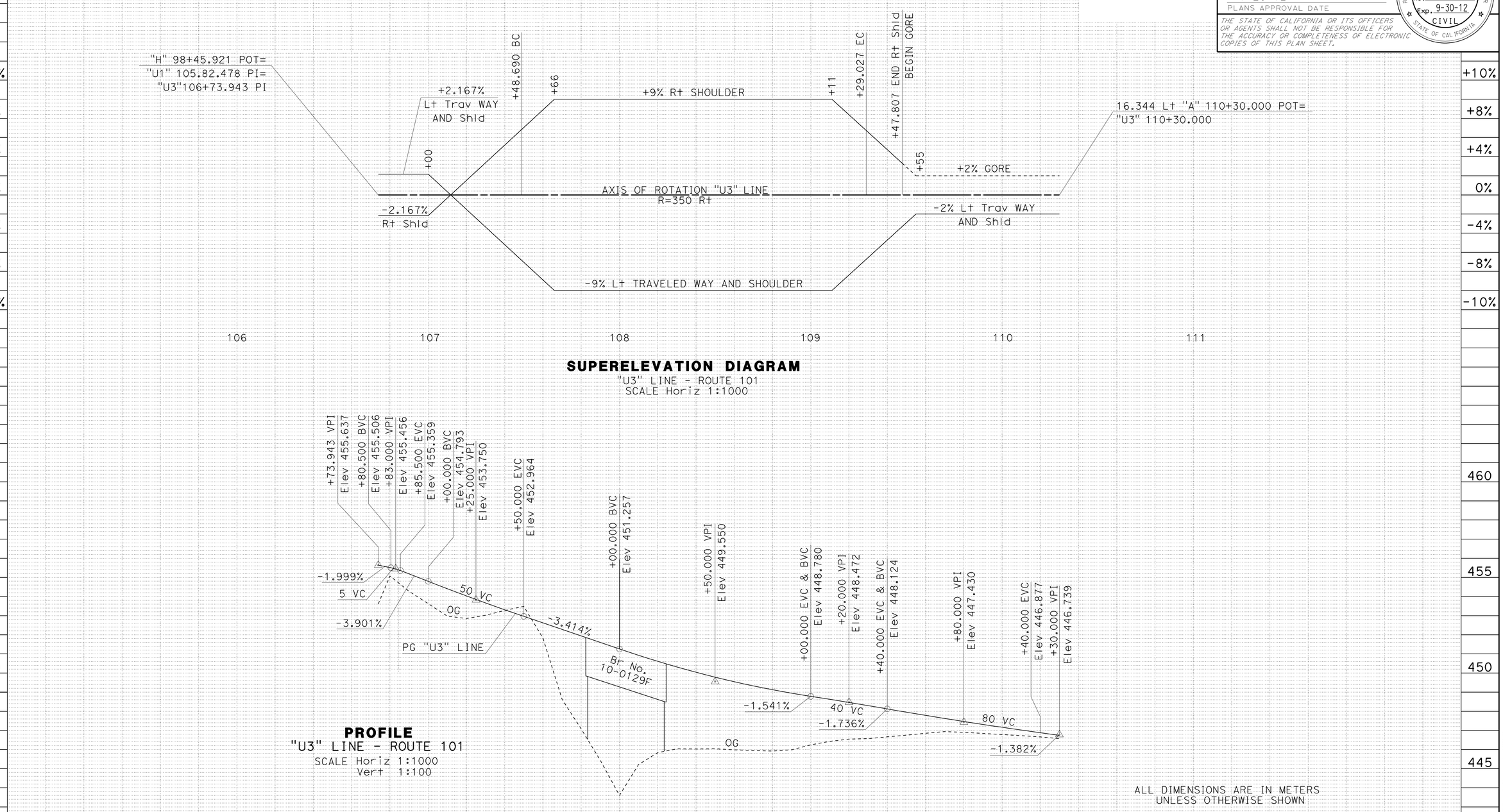

SUPERELEVATION DIAGRAM
"U3" LINE - ROUTE 101
SCALE Horiz 1:1000

PROFILE
"U3" LINE - ROUTE 101
SCALE Horiz 1:1000
Vert 1:100

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-21

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-22-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	65	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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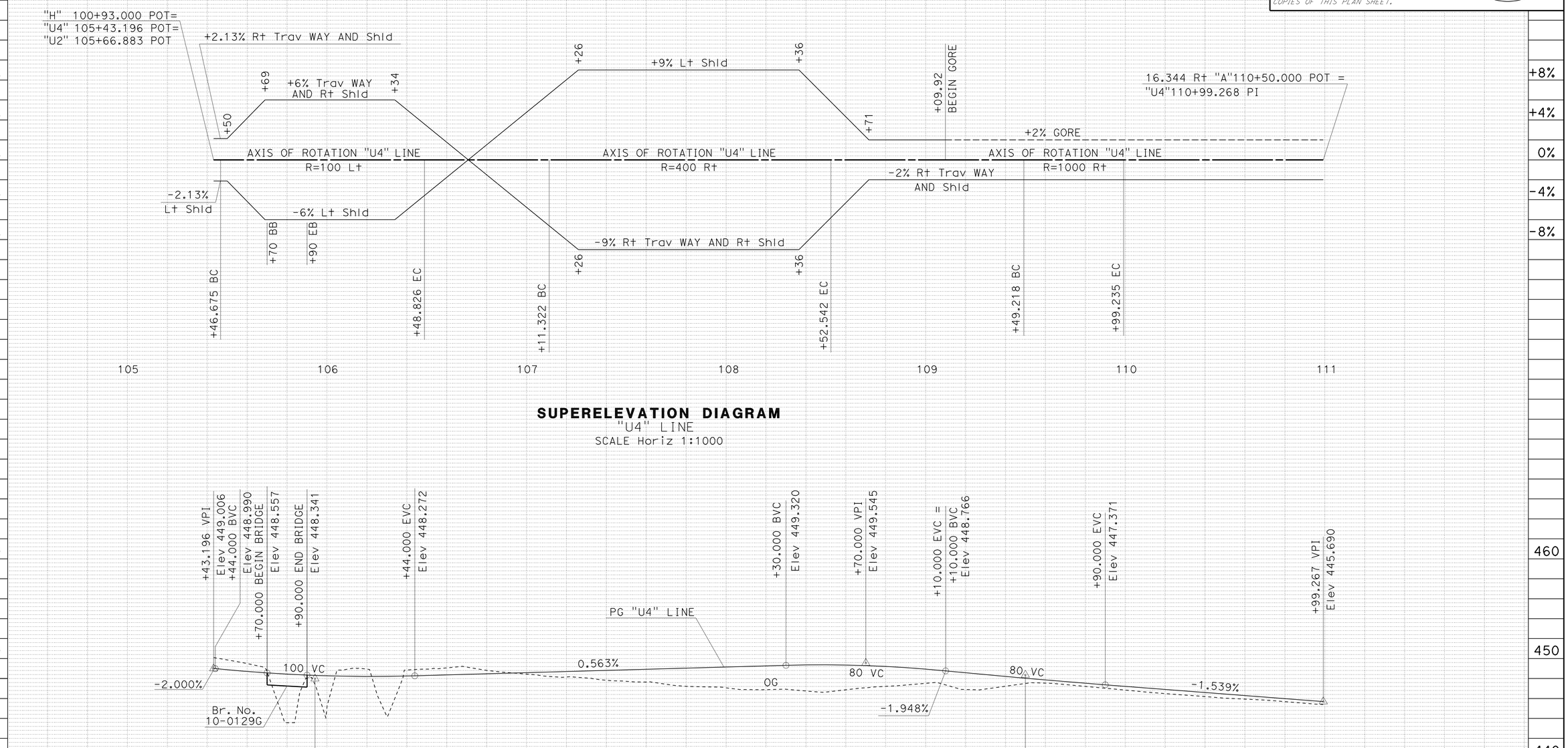

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-22

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	66	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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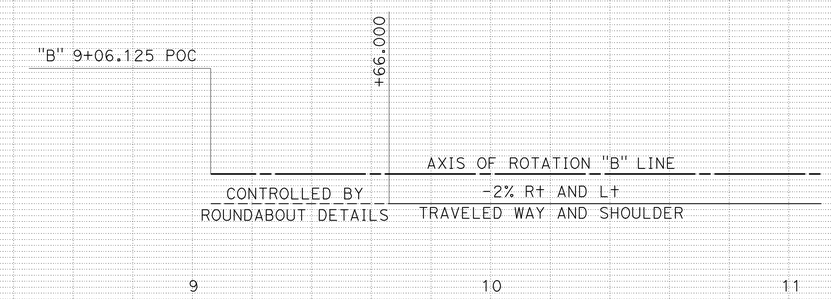
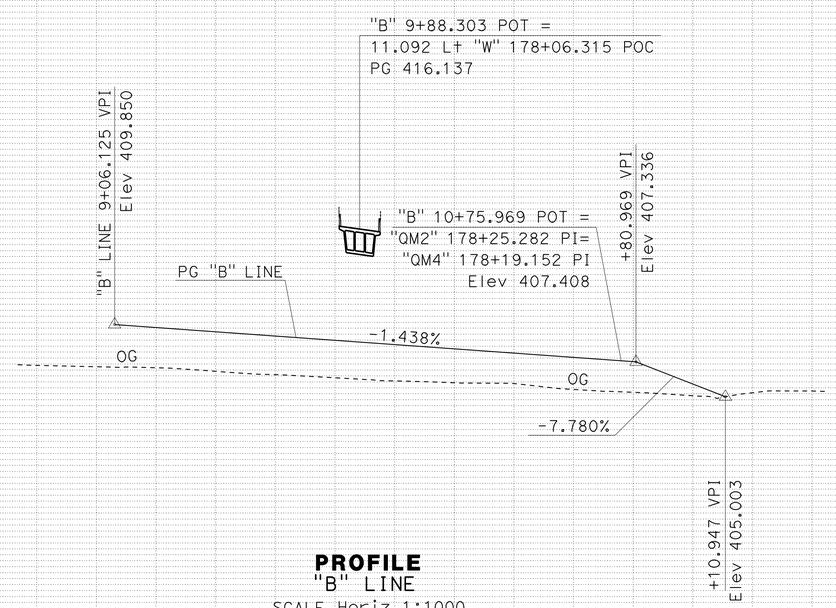


SUPERELEVATION DIAGRAM
"B" LINE
SCALE Horiz 1:1000



PROFILE
"B" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-23

Station 8 9 10 11 12

REVISED BY	DATE REVISED
MITCH ANDRUS	KARA BRIMHALL

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: KARA BRIMHALL
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 09-21-11 DATE PLOTTED => 27-JAN-2012 TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	67	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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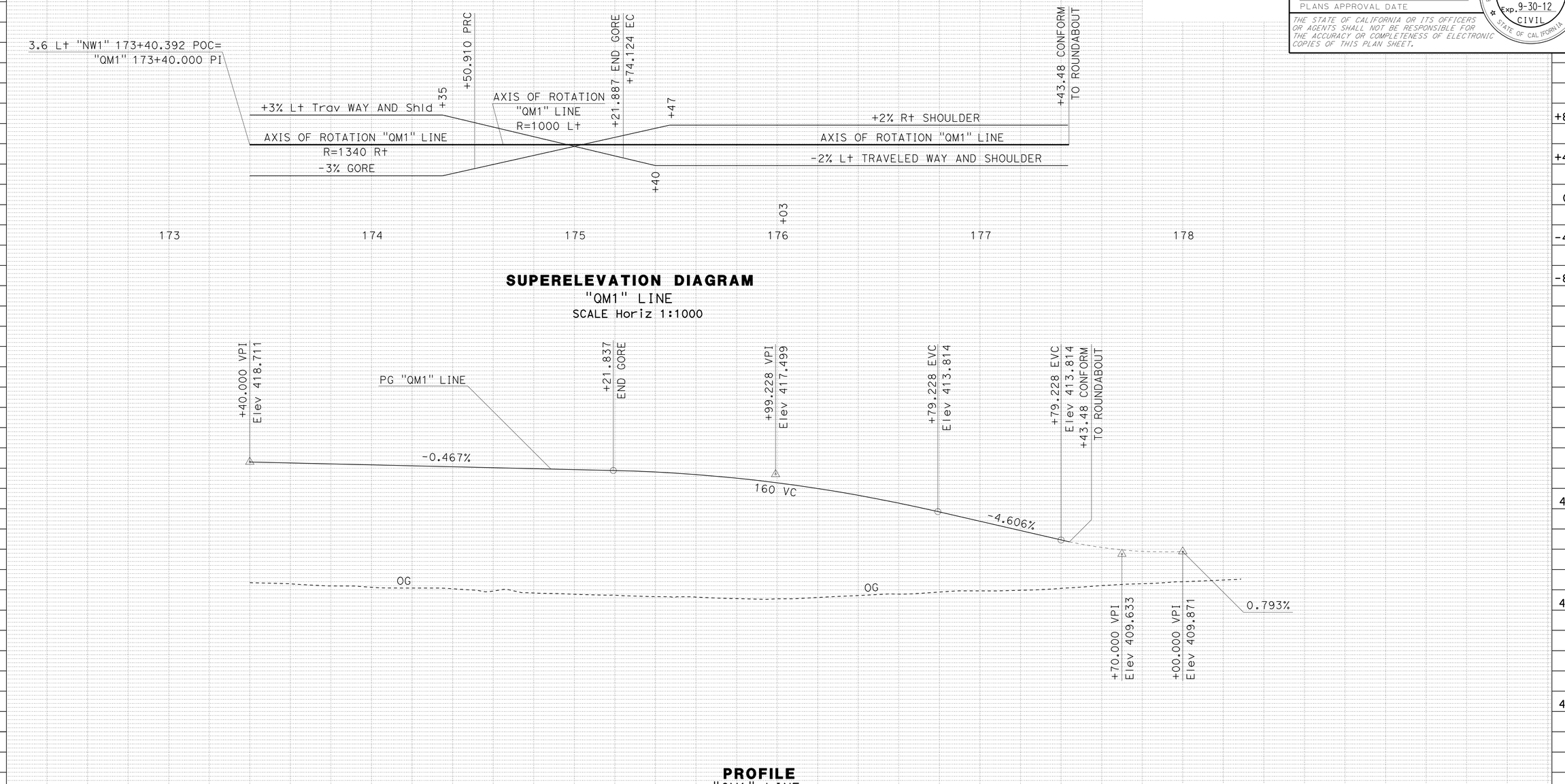

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-24

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 03-02-10 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	68	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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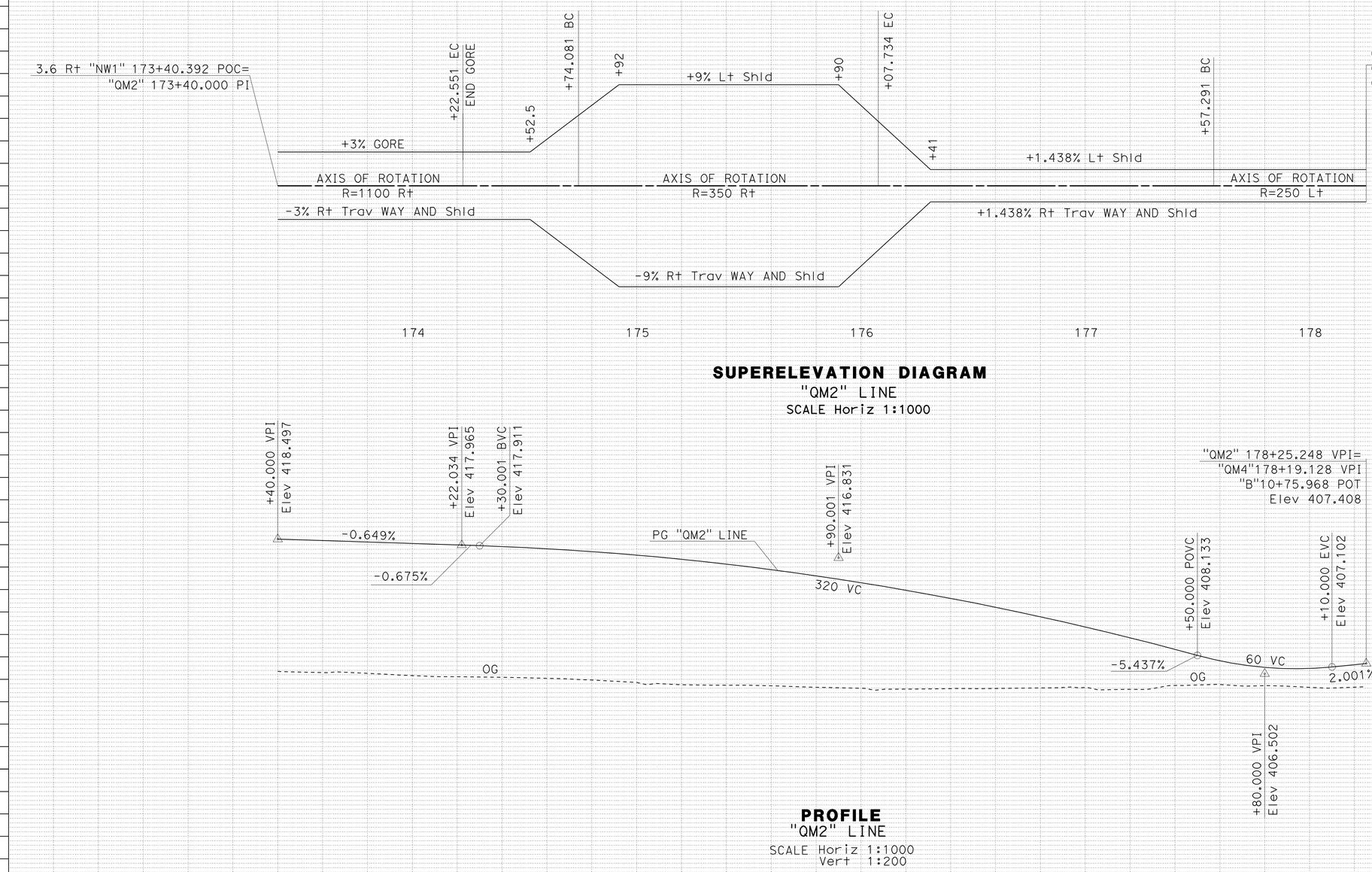

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-25

REVISED BY	DATE REVISED
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 09-21-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	69	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
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REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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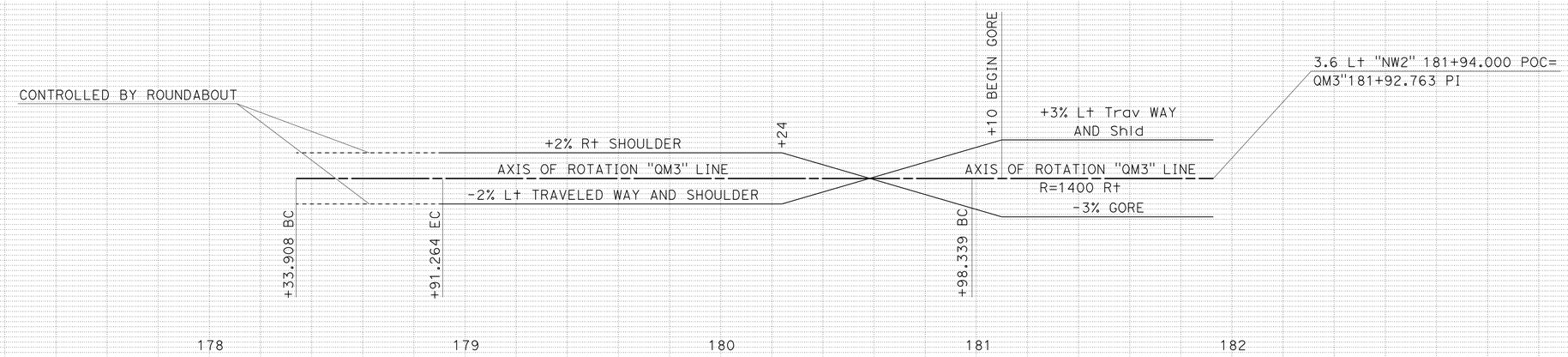
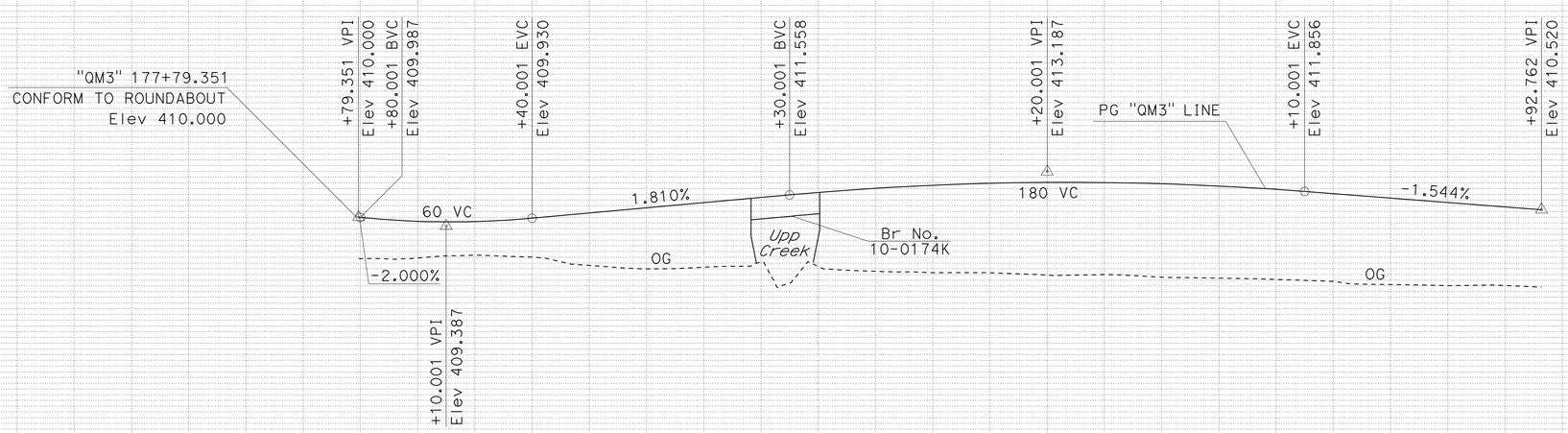


SUPERELEVATION DIAGRAM
"QM3" LINE
SCALE Horiz 1:1000



PROFILE
"QM3" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-26

Station 178 179 180 181 182

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: KARA BRIMHALL
REVISED BY / DATE REVISED

LAST REVISION 03-02-10
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	70	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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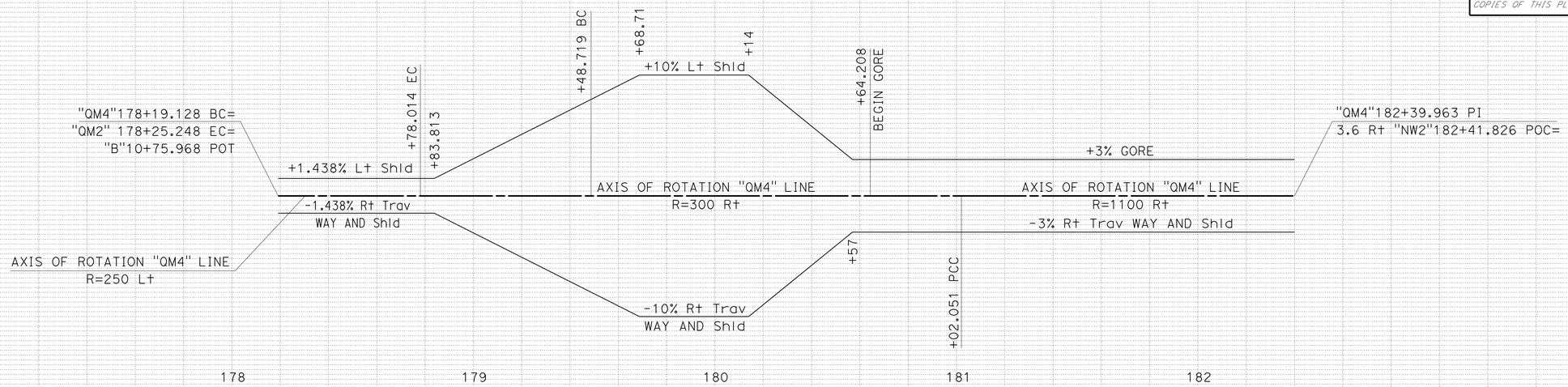
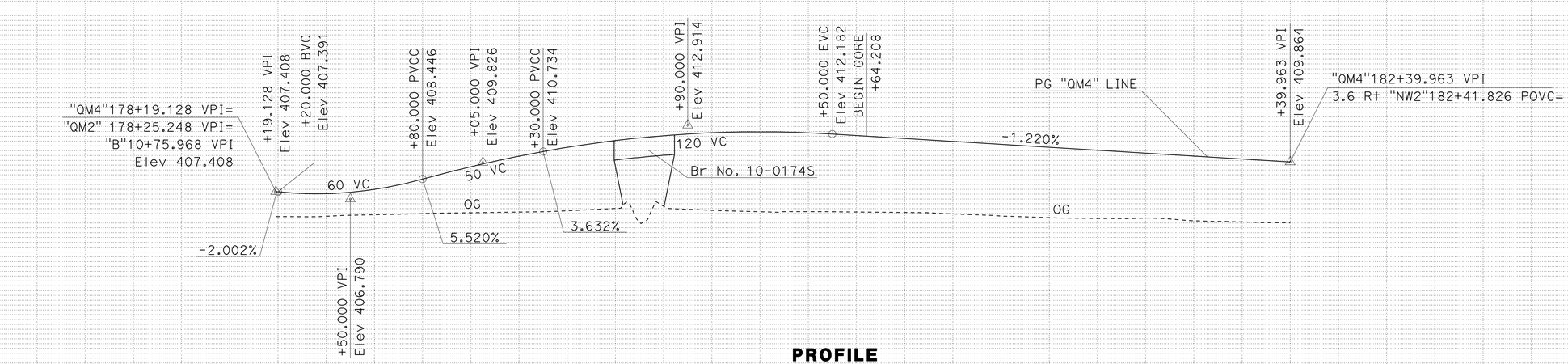


SUPERELEVATION DIAGRAM
"QM4" LINE
SCALE Horiz 1:1000



PROFILE
"QM4" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

PROFILE AND SUPERELEVATION DIAGRAM

PS-27

Station 178 179 180 181 182

REVISED BY | DATE REVISED
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 09-21-11 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 12:43

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	71	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MITCH ANDRUS
No. C48753
Exp. 9-30-12
CIVIL
STATE OF CALIFORNIA

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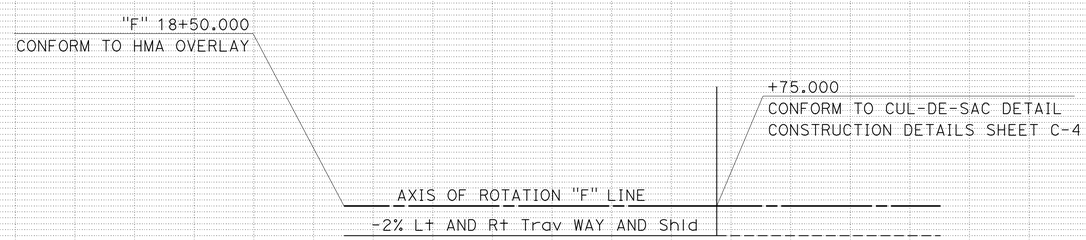

SUPERELEVATION DIAGRAM
"F" LINE
SCALE Horiz 1:1000

PROFILE
"F" LINE
SCALE Horiz 1:1000
Vert 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

PROFILE AND SUPERELEVATION DIAGRAM

PS-28

Station 18 19 20 21

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Caltrans 03-DESIGN EAST

LAST REVISION 03-02-10
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 14:49

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	72	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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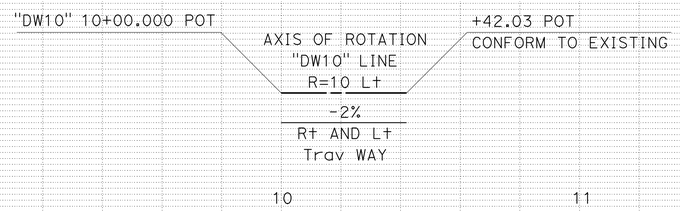
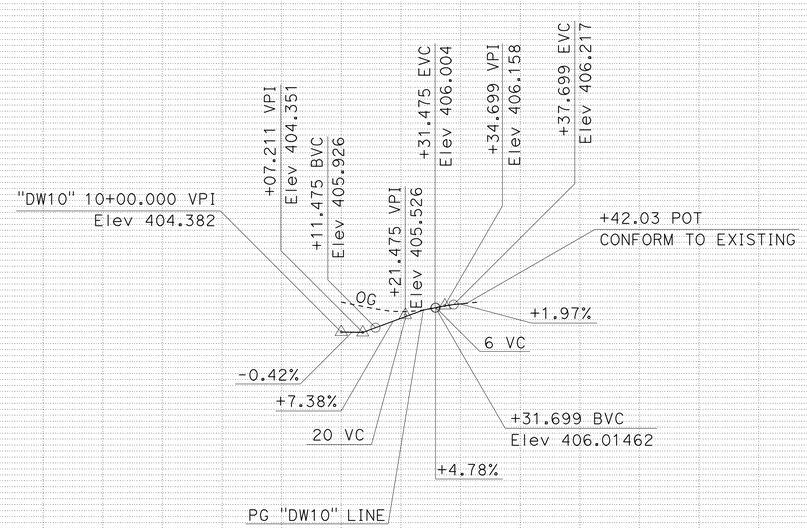


SUPERELEVATION DIAGRAM
"DW10" LINE
SCALE Horiz 1:1000



PROFILE
"DW10" LINE
SCALE Horiz 1:1000
Vert 1:200

Station 10 11 Station

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PROFILE AND SUPERELEVATION DIAGRAM

PS-29

REVISED BY | DATE REVISED
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-02-11
DATE PLOTTED => 27-JAN-2012
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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	73	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

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Caltrans Metric

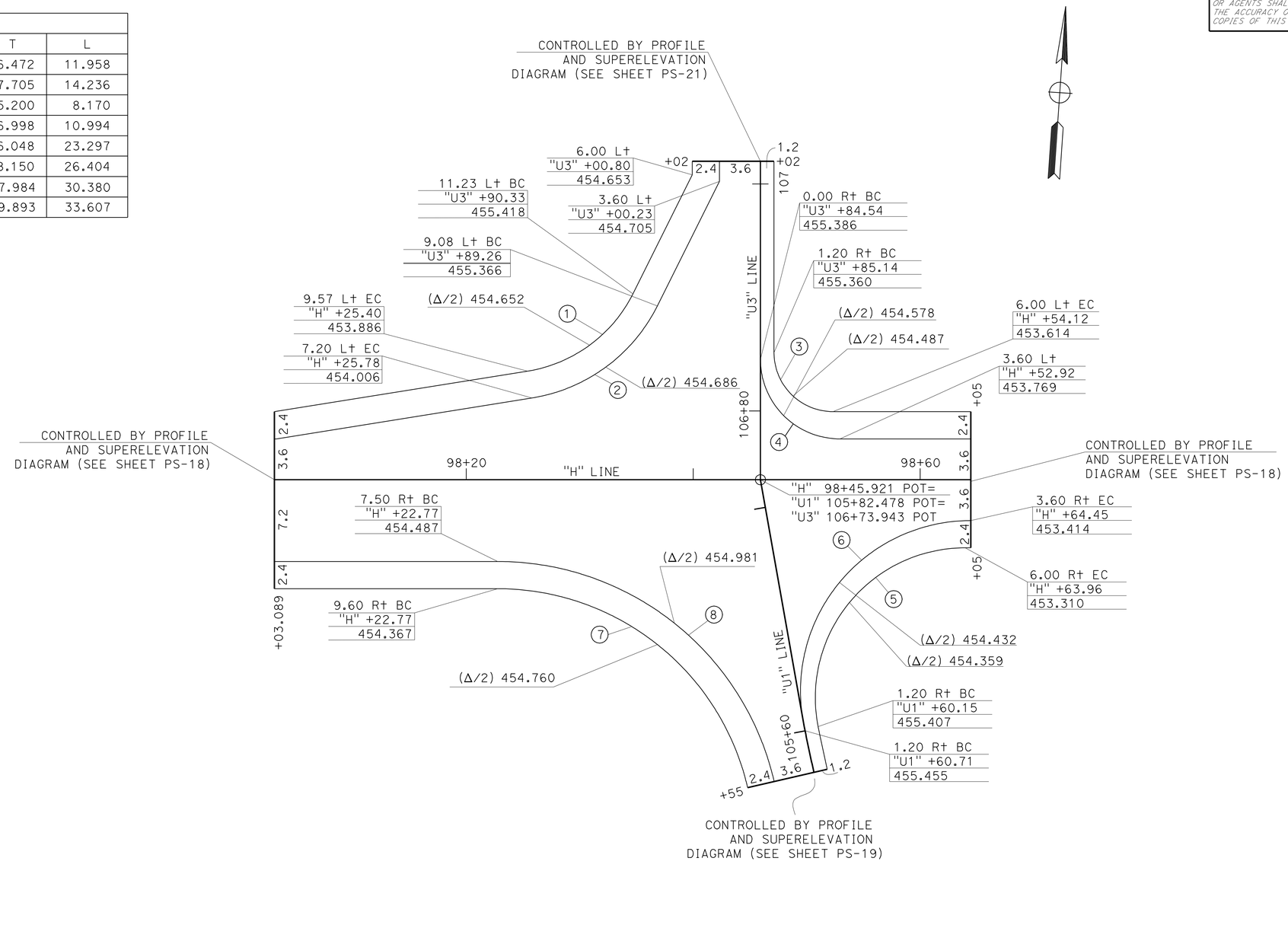
NOTES:
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ELEVATIONS ARE BASED ON 1929 (ASSUMED) NATIONAL GEODETIC VERTICAL DATUM.

CURVE DATA

No.	R	Δ	T	L
1	12.600	54° 22′ 40″	6.472	11.958
2	15.000	54° 22′ 40″	7.705	14.236
3	5.200	89° 59′ 03″	5.200	8.170
4	7.000	89° 59′ 03″	6.998	10.994
5	13.200	101° 7′ 29″	16.048	23.297
6	15.000	100° 51′ 20″	18.150	26.404
7	22.600	77° 1′ 15″	17.984	30.380
8	25.000	77° 1′ 15″	19.893	33.607

LEGEND:

OFFSET
STATION
ELEVATION



H-U1-U3 INTERSECTION

PAVEMENT ELEVATIONS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

INTERSECTION DETAIL
CONSTRUCTION DETAILS

SCALE 1:200

C-1

REVISED BY | DATE REVISED
KARA BRIMHALL | MITCH ANDRUS
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-31-08 | DATE PLOTTED => 27-JAN-2012 TIME PLOTTED => 14:49

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	74	939

Caltrans Metric

Mitch Andrus 9-22-11
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NOTES:

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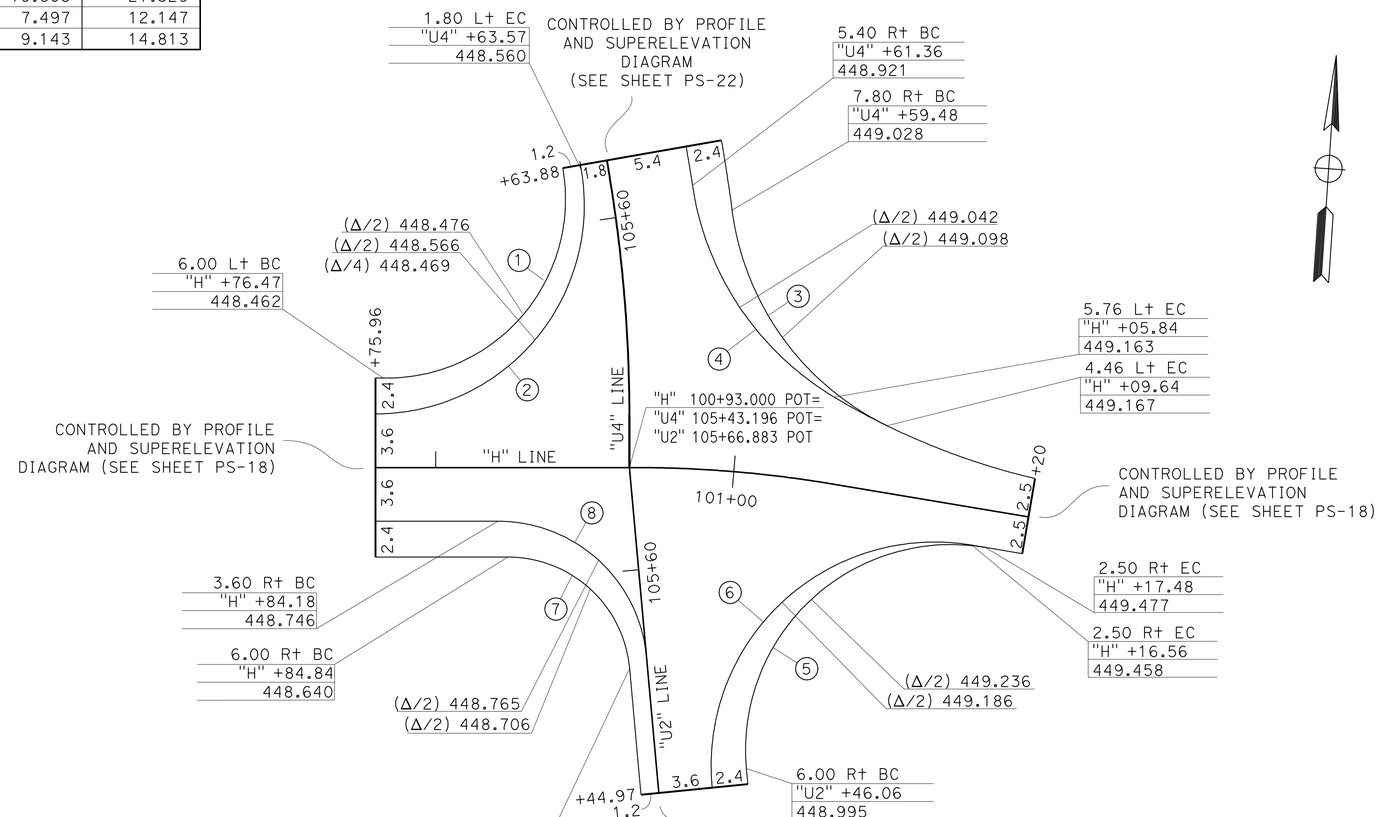
CURVE DATA

No.	R	Δ	T	L
1	12.000	99°59′17″	14.298	20.941
2	18.800	56°31′07″	10.106	18.545
3	20.000	50°35′22″	9.452	17.659
4	13.800	104°37′50″	17.865	25.201
5	15.000	105°9′18″	19.603	27.529
6	8.200	84°52′23″	7.497	12.147
7	10.000	84°52′23″	9.143	14.813

LEGEND:

OFFSET
STATION
ELEVATION



H-U2-U4 INTERSECTION

PAVEMENT ELEVATIONS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

INTERSECTION DETAIL
CONSTRUCTION DETAILS

SCALE 1:200

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: KARA BRIMHALL
CHECKED BY: MITCH ANDRUS
REVISED BY / DATE REVISED

LAST REVISION 08-05-04 DATE PLOTTED => 27-JAN-2012 TIME PLOTTED => 14:49

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	75	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.

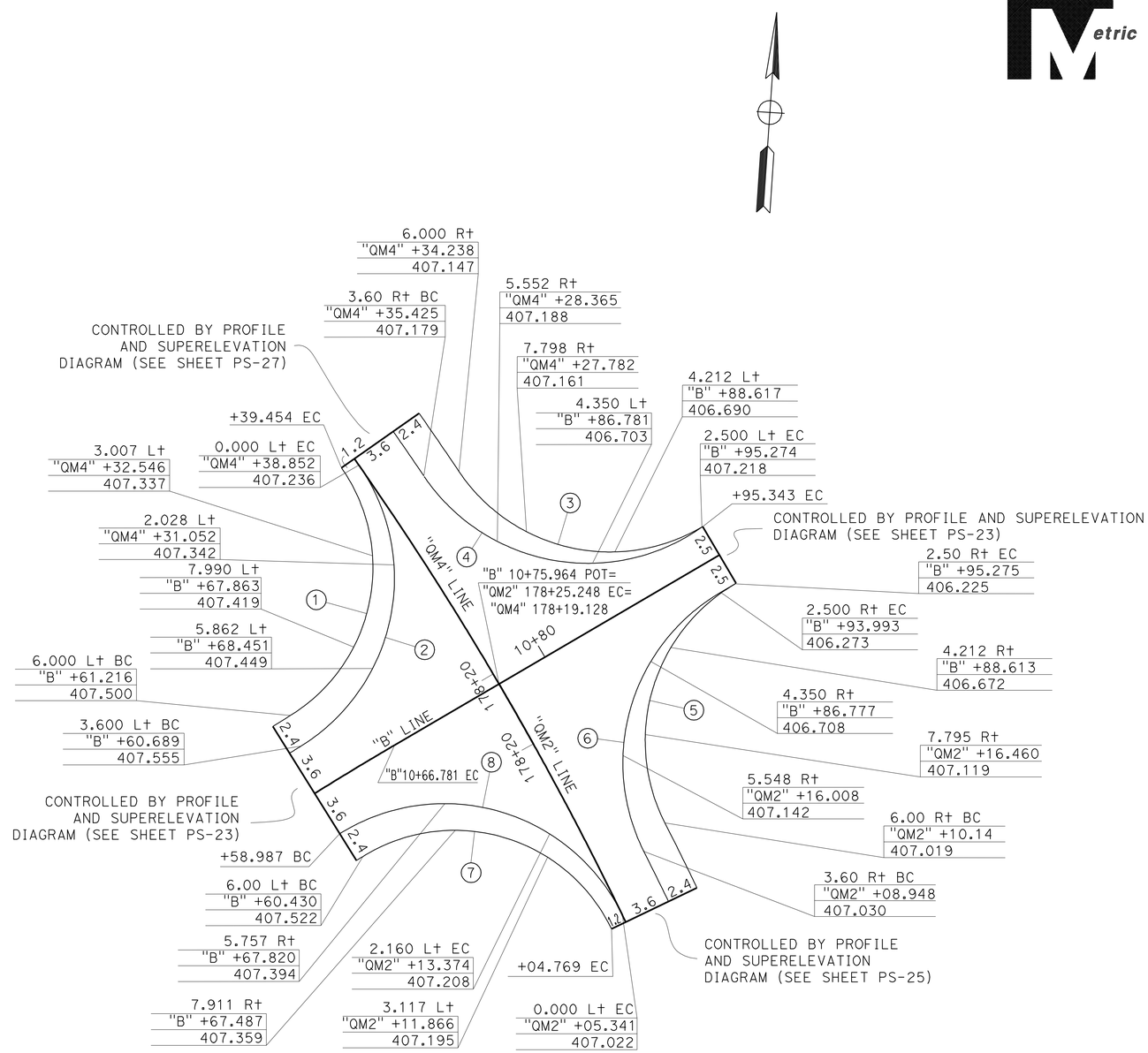
Caltrans Metric

NOTES:
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ELEVATIONS ARE BASED ON 1929 (ASSUMED) NATIONAL GEODETIC VERTICAL DATUM.

CURVE DATA				
No.	R	Δ	T	L
1	13.200	93° 23′ 10″	14.004	21.515
2	15.000	93° 07′ 39″	15.842	24.381
3	13.800	86° 31′ 58″	12.989	20.842
4	15.000	91° 25′ 41″	15.379	23.936
5	13.800	86° 32′ 11″	12.990	20.843
6	15.000	86° 15′ 52″	14.053	22.584
7	13.200	96° 11′ 08″	14.708	22.160
8	15.000	96° 11′ 25″	16.715	25.183

LEGEND:

OFFSET
STATION
ELEVATION



B-QM2-QM4 INTERSECTION

PAVEMENT ELEVATIONS

1.20 LT EC
"QM2" +08.47
407.065

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

INTERSECTION DETAIL
CONSTRUCTION DETAILS

SCALE 1:200

C-3

REVISED BY | DATE REVISED
KARA BRIMHALL | MITCH ANDRUS
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 09-22-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 14:49

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	76	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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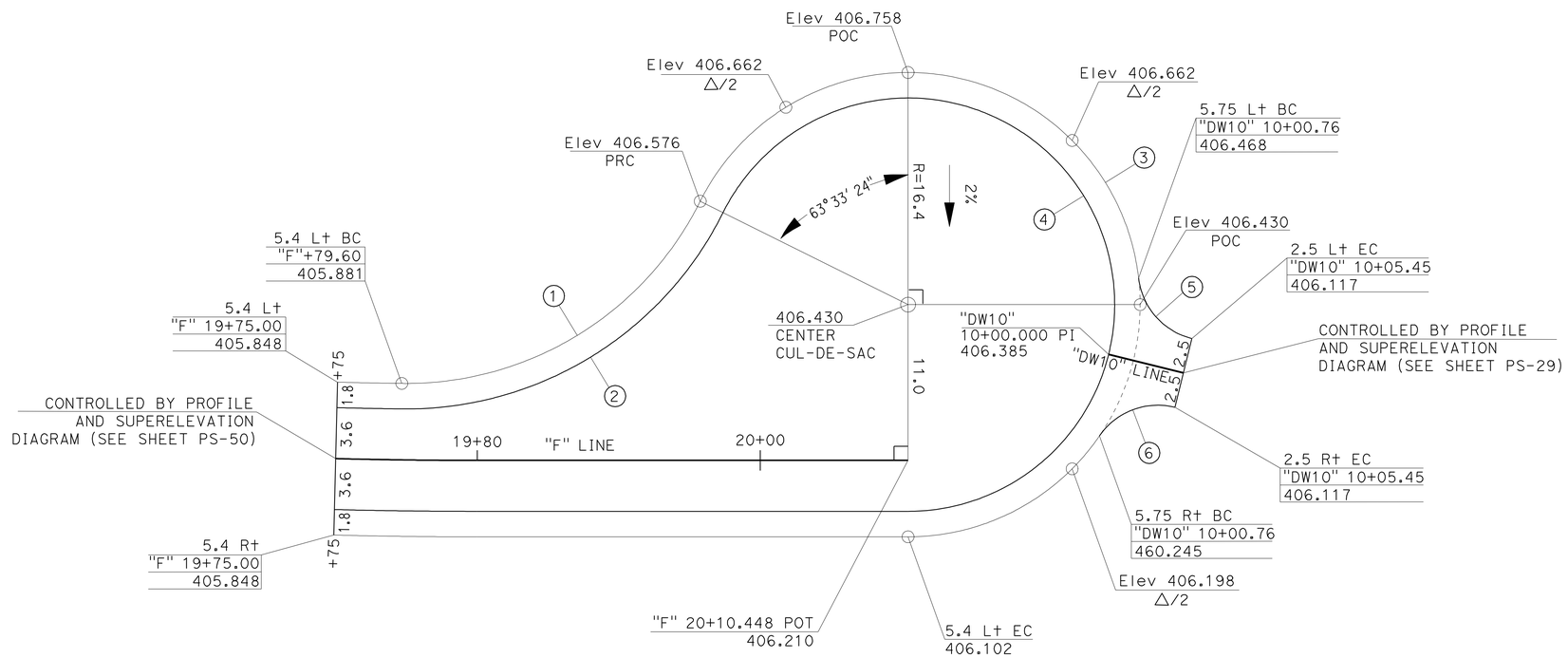
Caltrans Metric

NOTES:
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. ELEVATIONS ARE BASED ON 1929 (ASSUMED) NATIONAL GEODETIC VERTICAL DATUM.

CURVE DATA				
No.	R	Δ	T	L
1	23.200	64°20′04″	14.591	26.050
2	25.000	64°20′04″	15.723	28.071
3	16.400	243°33′32″	26.472	69.715
4	14.600	243°33′33″	23.566	62.063
5	5.000	69°26′37″	3.465	6.060
6	5.000	69°31′28″	3.470	6.067

LEGEND:

OFFSET
STATION
ELEVATION



CUL-DE-SAC

"F" LINE
PAVEMENT ELEVATIONS

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

CUL-DE-SAC DETAIL
CONSTRUCTION DETAILS

SCALE 1:200

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: KARA BRIMHALL
CHECKED BY: MITCH ANDRUS
REVISED BY
DATE REVISED

LAST REVISION 01-15-10
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 14:49

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	77	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

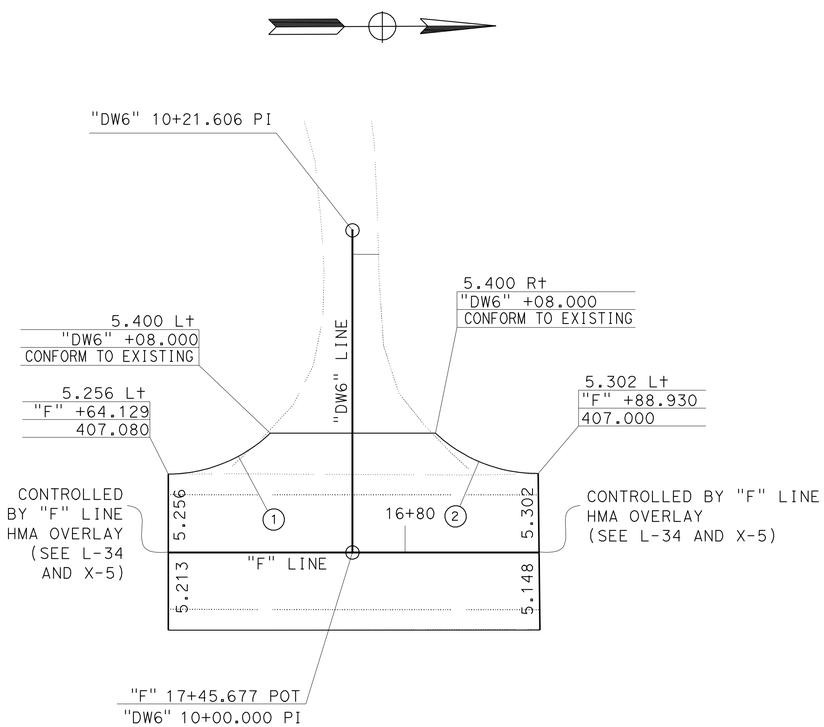
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTE:

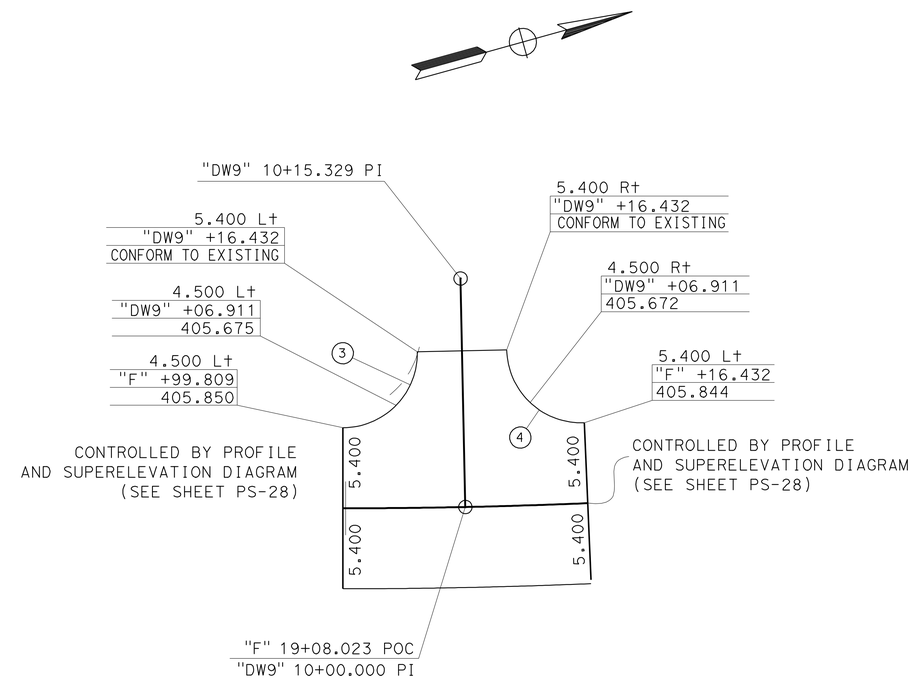
1. ELEVATIONS ARE BASED ON 1929 NATIONAL GEODETIC VERTICAL DATUM.

CURVE DATA				
No.	R	Δ	T	L
1	10.000	43°11′18"	3.958	7.538
2	10.000	43°24′12"	3.980	7.575
3	5.000	91°11′17"	5.105	7.958
4	5.000	91°11′17"	5.105	7.958



F-DW6 INTERSECTION

PAVEMENT ELEVATIONS



F-DW9 INTERSECTION

PAVEMENT ELEVATIONS

OFFSET
STATION
ELEVATION

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

CONSTRUCTION DETAILS

SCALE 1:200

C-5

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 09-02-11
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 14:49

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	78	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

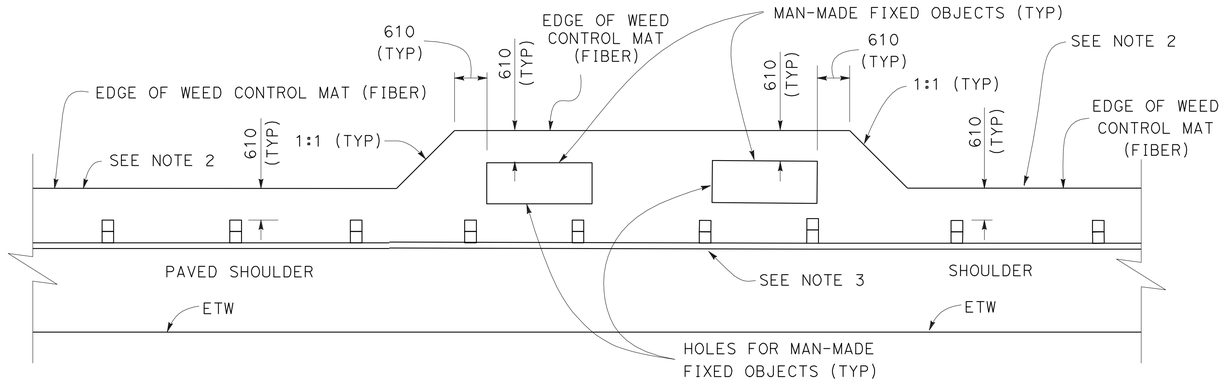
1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

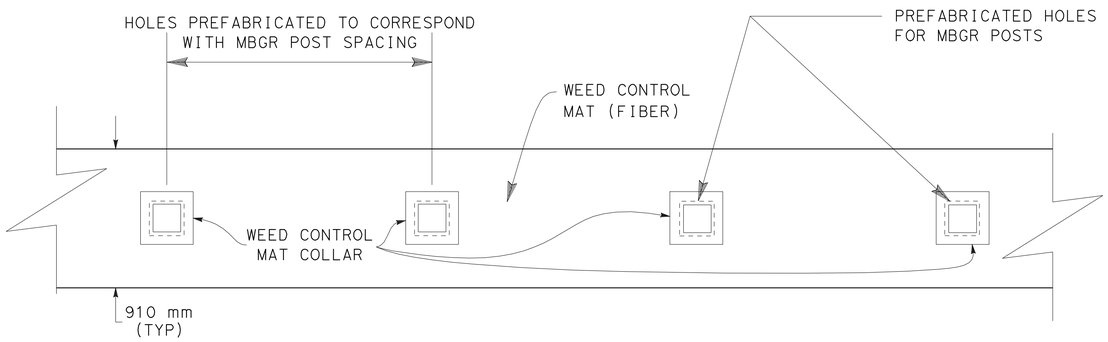
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:
1. SEE NEW STANDARD PLAN NSP A77C5 FOR ADDITIONAL VEGETATION CONTROL DETAILS.
2. WHERE THE DISTANCE BETWEEN BACK OF MBGR POST AND HINGE POINT IS LESS THAN 610mm, WEED CONTROL MAT TO BE CONSTRUCTED FLUSH WITH THE BACK EDGE OF THE POST.
3. WHERE DIKE IS CONSTRUCTED UNDER RAILING, CONSTRUCT VEGETATION CONTROL TO BACK EDGE OF DIKE.
4. WHERE PAVED SHOULDER IS CONSTUCTED WITHIN 610 mm IN FRONT OF THE MBGR POST, CONSTRUCT WEED CONTROL MAT TO THE EDGE OF PAVED SHOULDER.

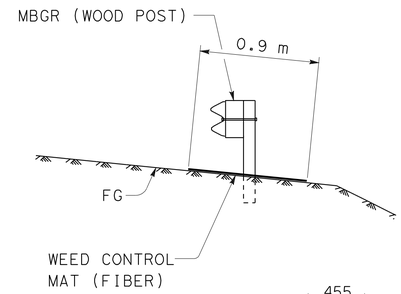


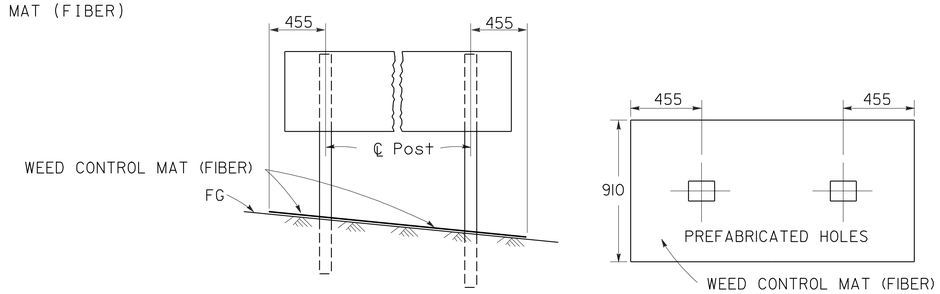
WEED CONTROL MAT (FIBER) AT FIXED OBJECT(S) ON SHOULDER



WEED CONTROL MAT (FIBER) UNDER MBGR

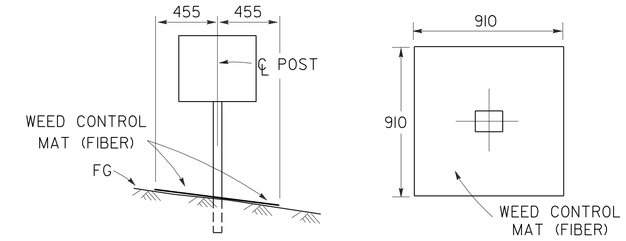
(INCLUDES ALL END SECTION TYPES)





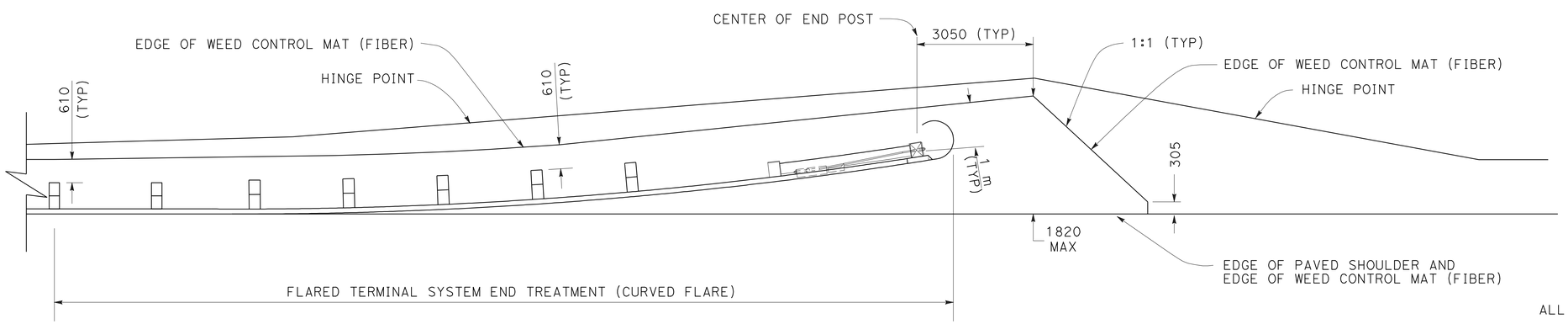
WEED CONTROL MAT (FIBER) UNDER ROADSIDE SIGN

(TWO POST)



WEED CONTROL MAT (FIBER) UNDER ROADSIDE SIGN

(ONE POST)



WEED CONTROL MAT (FIBER) AT TERMINAL SECTION

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

CONSTRUCTION DETAILS

NO SCALE

C-6

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-23-10 | DATE PLOTTED => | TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	79	939

Caltrans Metric

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

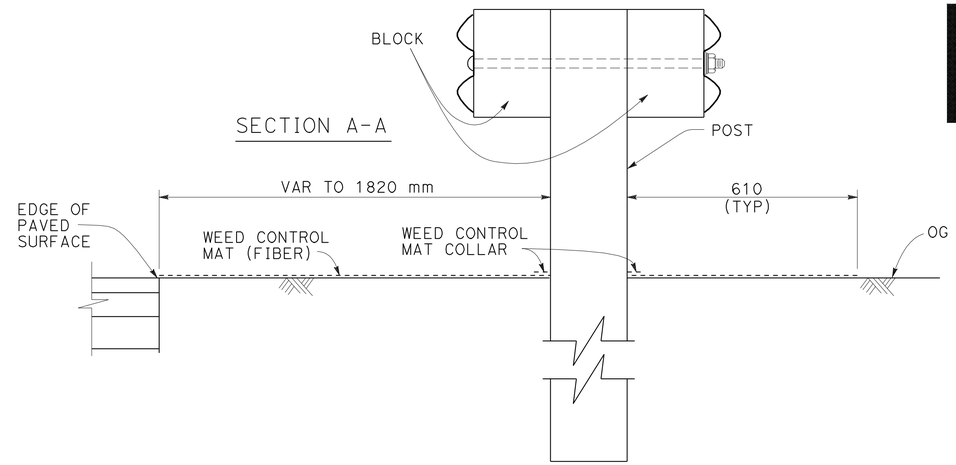
1-23-12
PLANS APPROVAL DATE

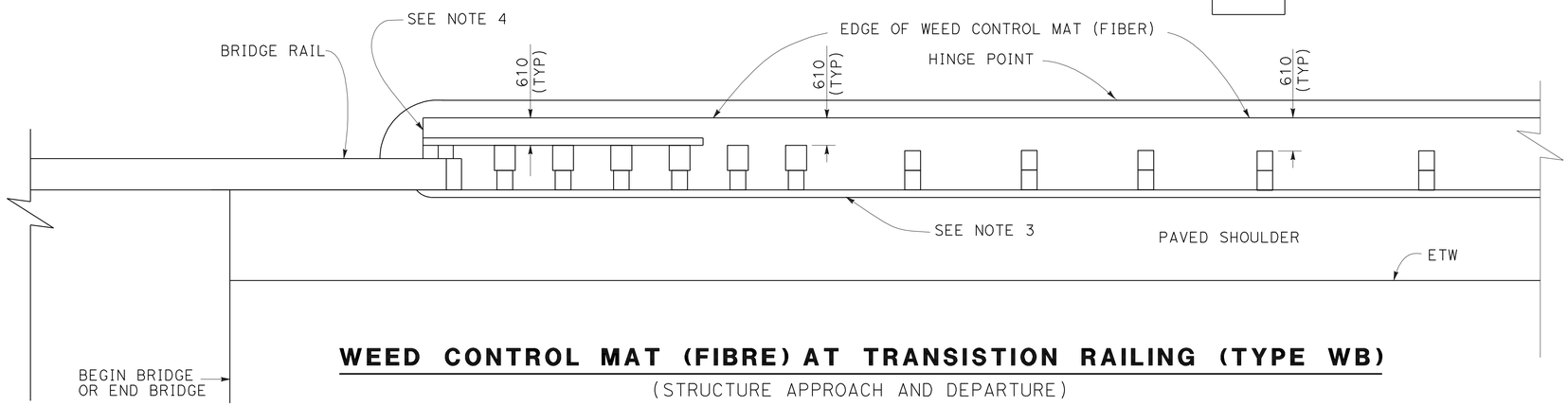
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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.

NOTES:

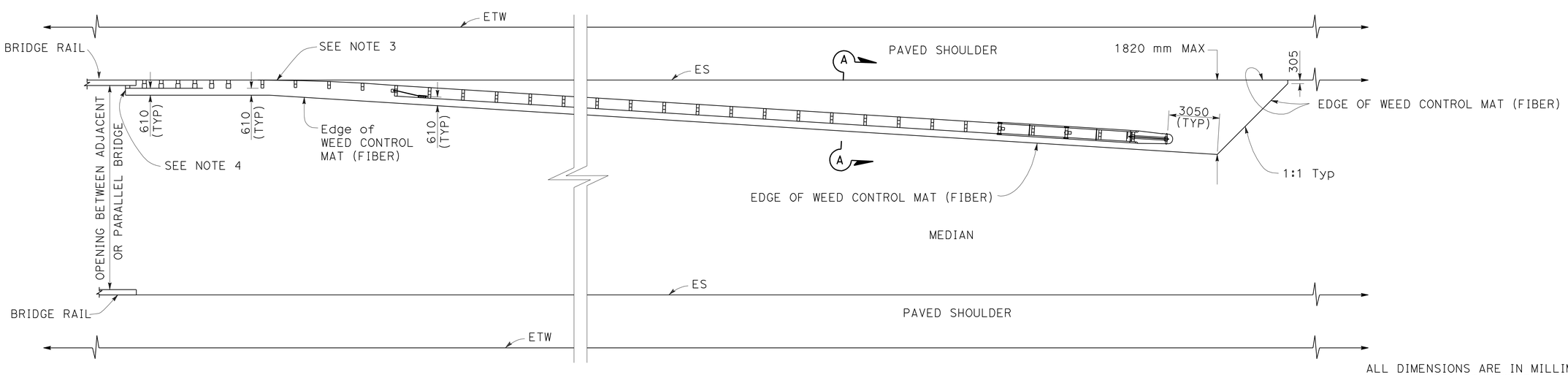
1. SEE NEW STANDARD PLAN NSP A77C5 FOR ADDITIONAL VEGETATION CONTROL DETAILS.
2. WHERE THE DISTANCE BETWEEN BACK OF MBGR POST AND HINGE POINT IS LESS THAN 610 mm, VEGETATION CONTROL TO BE CONSTRUCTED FLUSH WITH THE BACK EDGE OF THE POST.
3. WHERE DIKE IS CONSTRUCTED UNDER RAILING, CONSTRUCT VEGETATION CONTROL TO BACK EDGE OF DIKE. WHERE PAVED SHOULDER IS CONSTUCTED WITHIN 610mm IN FRONT OF THE MBGR POST, CONSTRUCT VEGETATION CONTROL TO THE EDGE OF PAVED SHOULDER.
4. END VEGETATION CONTROL AT END OF BACKSIDE RAIL ELEMENT.





WEED CONTROL MAT (FIBRE) AT TRANSISTION RAILING (TYPE WB)

(STRUCTURE APPROACH AND DEPARTURE)



WEED CONTROL MAT (FIBER) AT TYPE 12E LAYOUT

(STRUCTURE APPROACH AND DEPARTURE)

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

CONSTRUCTION DETAILS

NO SCALE

C-7

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 09-15-11
DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	80	939

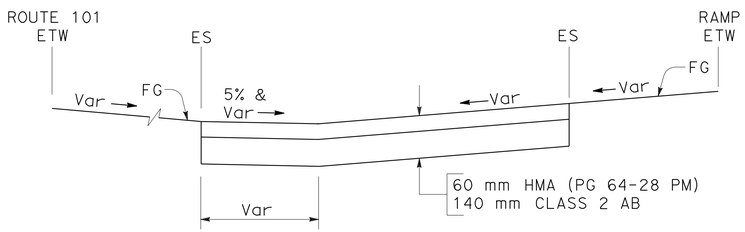
Caltrans Metric

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

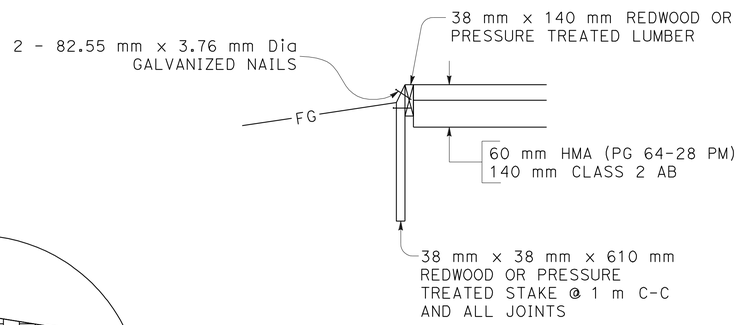
1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

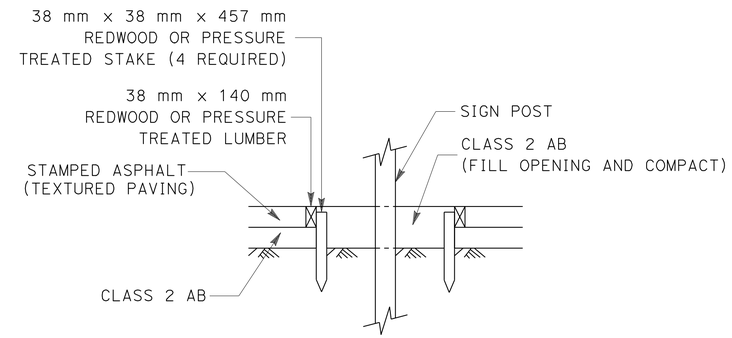
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



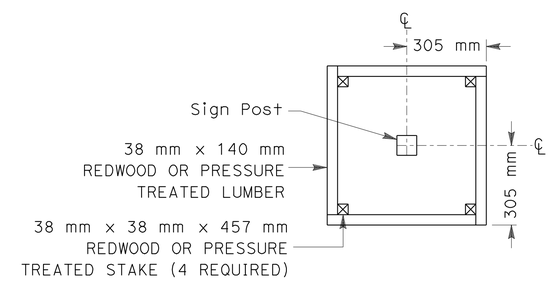
SECTION A-A



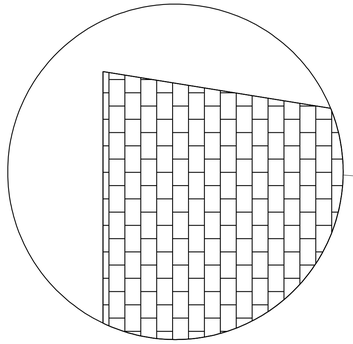
SECTION B-B
HEADER BOARD DETAIL



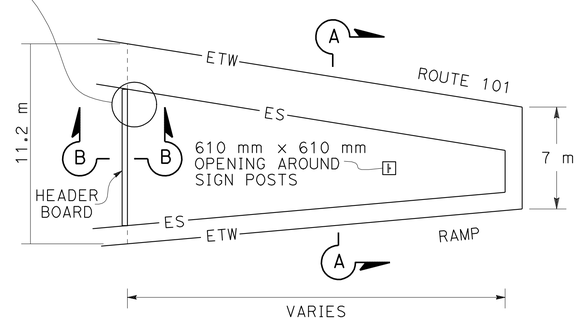
SECTION



OPENING AROUND SIGN POSTS
PLAN



PAVEMENT TEXTURE
(OFFSET-BRICK PATTERN)



STAMPED ASPHALT PAVING BEYOND GORE DETAIL

L-3, L-8, L-28 AND L-32

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

CONSTRUCTION DETAILS

NO SCALE

C-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 09-16-11 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 14:50

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	81	939

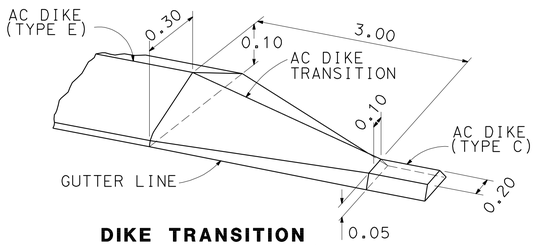
Caltrans Metric

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

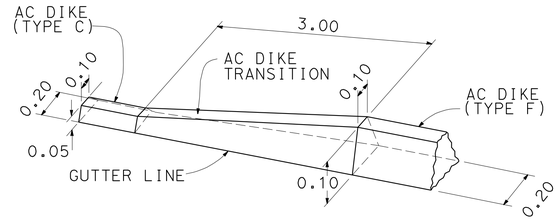
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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.



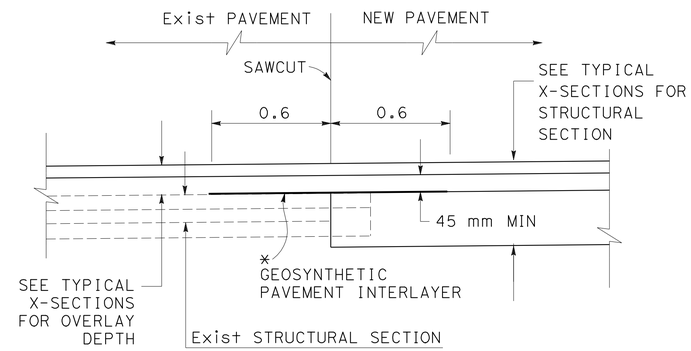
DIKE TRANSITION TYPE E TO TYPE C

(FOR LOCATION SEE LAYOUT SHEETS)



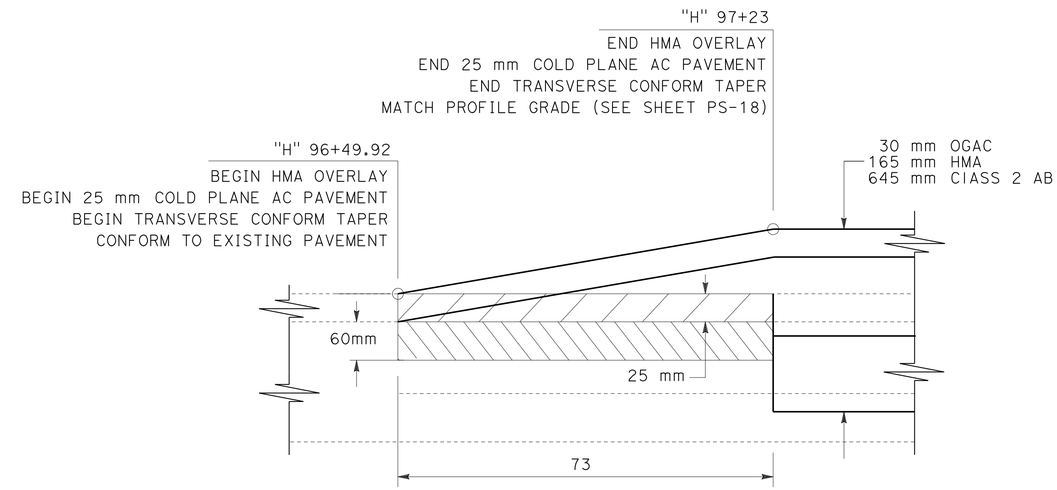
DIKE TRANSITION TYPE C TO TYPE F

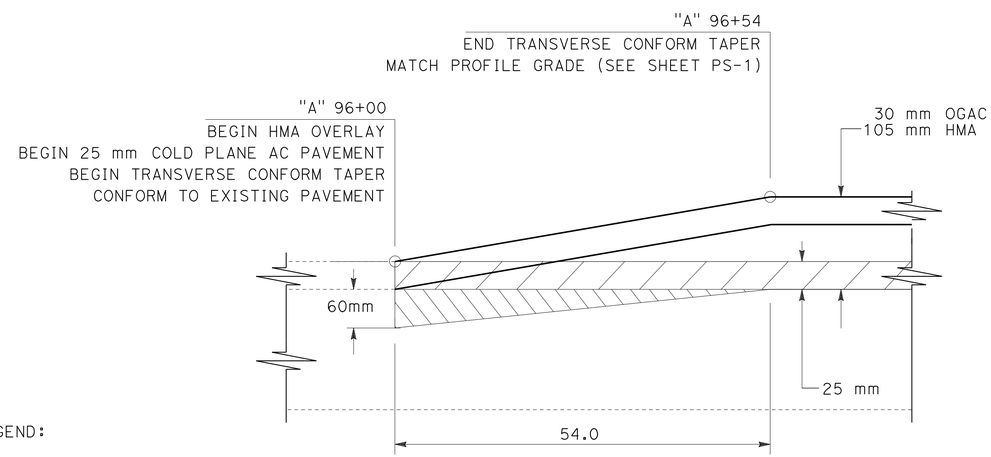
(FOR LOCATION SEE LAYOUT SHEETS)

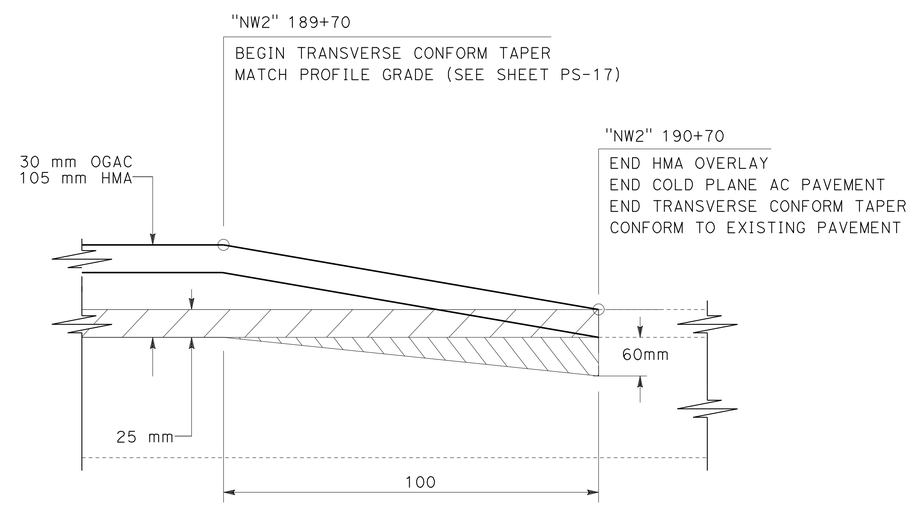


SECTION AT SAWCUT

*PLACE OVER PAVING ASPHALT, GPI







LEGEND:

25 mm COLD PLANE AC PAVEMENT

60 mm MAX COLD PLANE AC PAVEMENT

TRANSVERSE CONFORMS

L-1, L-6 AND L-36

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

CONSTRUCTION DETAILS

NO SCALE

C-9

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY

CHECKED BY

FUNCTIONAL SUPERVISOR

DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 09-16-11

DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 14:50

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	82	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

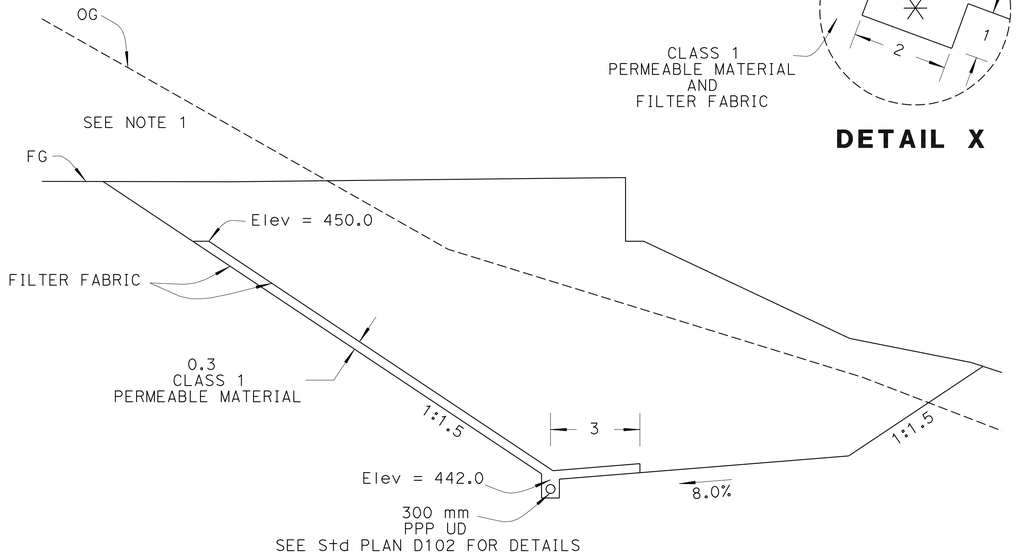
1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

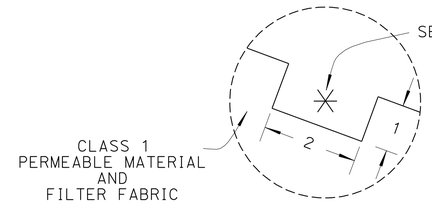
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

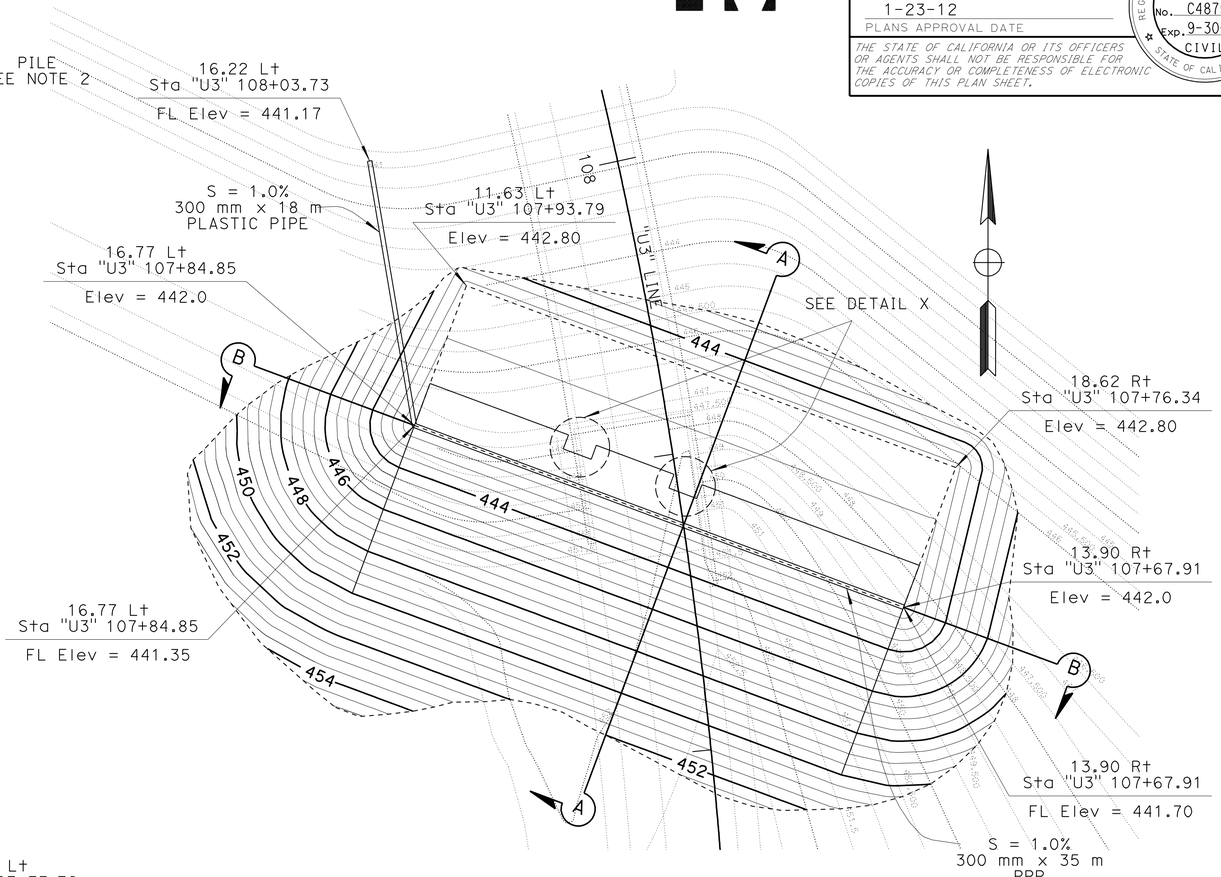
NOTES: 1. THE STABILIZATION TRENCH EXCAVATION SHALL BE DONE ONLY AFTER THE EXCAVATION TO FINISH GRADE IS COMPLETED.
2. SEE STRUCTURE PLANS FOR THE FOUNDATION PILE LOCATIONS.



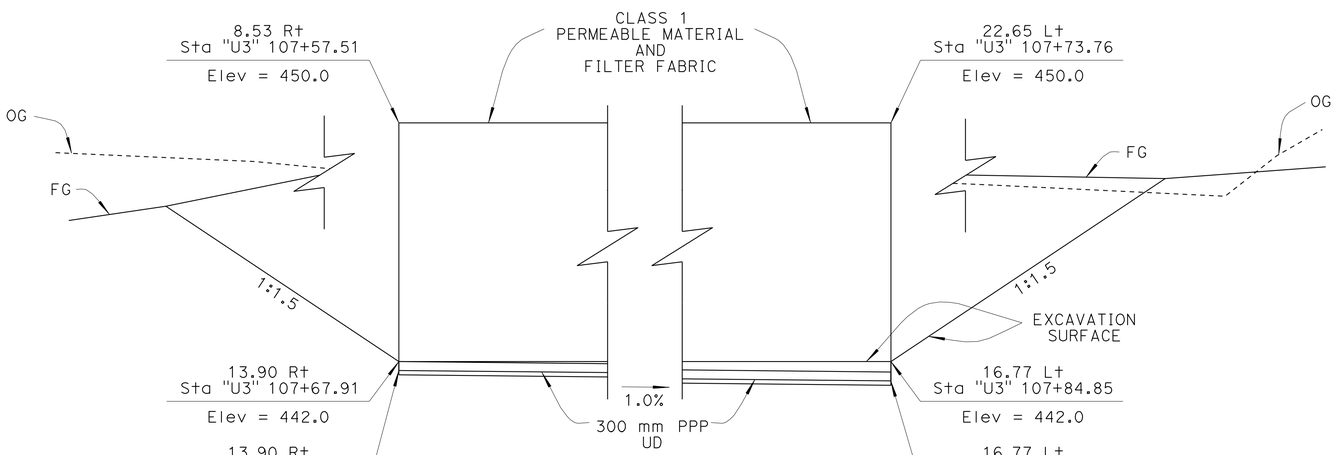
SECTION A-A
NO SCALE



DETAIL X



EXCAVATION LAYOUT
Scale 1:200



SECTION B-B
NO SCALE

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

STABILIZATION TRENCH CONSTRUCTION DETAILS

SCALE AS SHOWN

C-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
North Region
Division of Project Development

FUNCTIONAL SUPERVISOR: David G. Kelley
CALCULATED-DESIGNED BY: Aung M. Maung
CHECKED BY: Santiago Cruz-Roveda
REVISED BY / DATE REVISED

LAST REVISION 04-23-10
DATE PLOTTED => 27-JAN-2012
TIME PLOTTED => 14:50

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	83	939

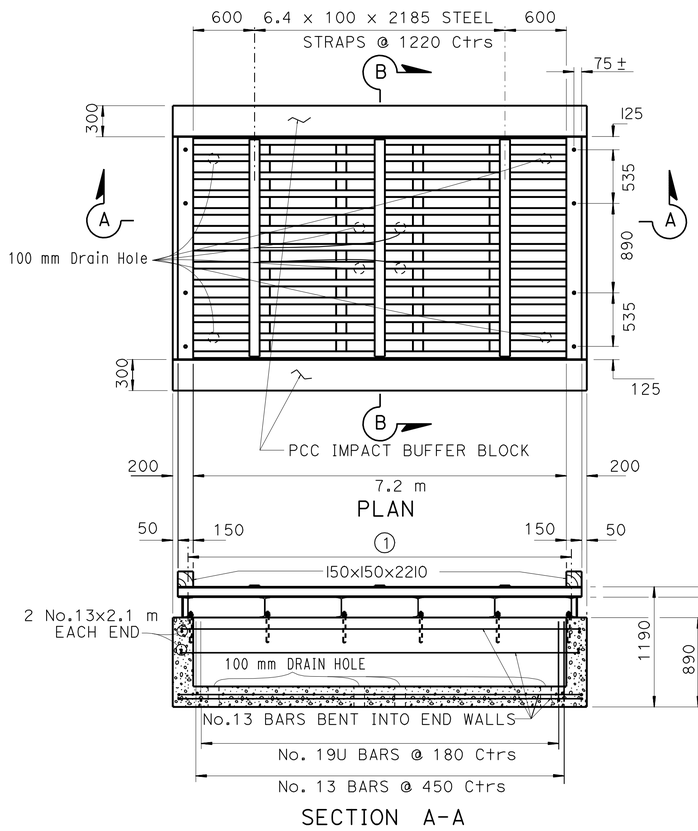
Caltrans Metric

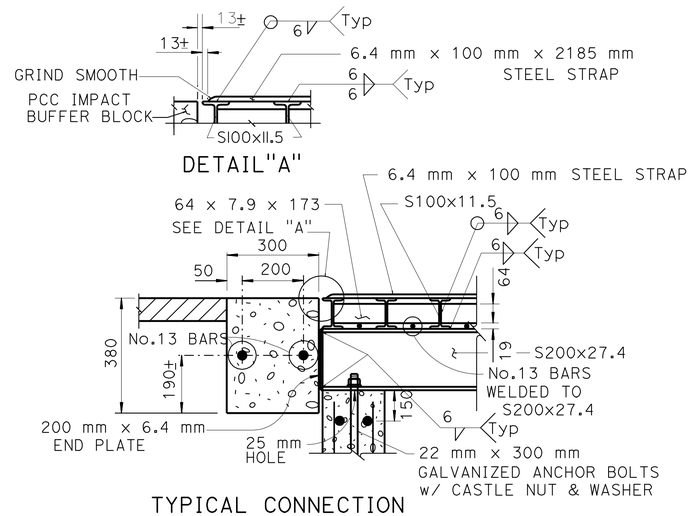
Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

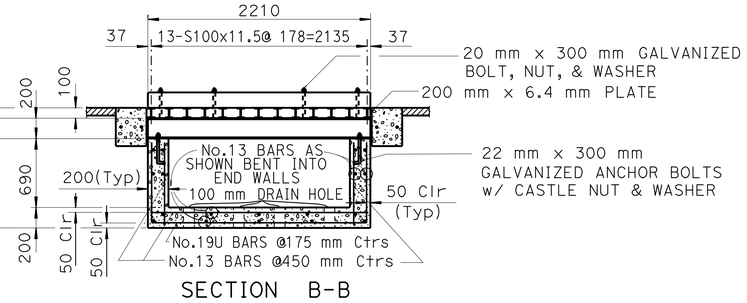
1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 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.







1

9-S200x27.4@780=6240 FOR 7.2 m CATTLE GUARD

METAL CATTLE GUARD 7.2 m DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SHOWN

CONSTRUCTION DETAILS

NO SCALE

C-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
North Region
Division of Project Development

FUNCTIONAL SUPERVISOR: DOUGLS S. JONES

CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 06-09-10 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 14:50

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	84	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTE: SEE SUMMARY OF QUANTITIES SHEET Q-5.

200 mm PERFORATED PLASTIC PIPE OUTLETS AND EXTENSIONS

① DESCRIPTION	OFFSET	℄ ELEVATION
① "U1" 100+97.423	17.200 LT (SEE NOTE a)	466.750
② "U1" 103+64.500	9.700 LT (SEE NOTE b)	460.325
③ "U1" 103+65.450	9.700 LT (SEE NOTE b)	460.325
③ "U1" 103+86.300	9.700 LT (SEE NOTE c)	459.993
④ "U1" 103+87.300	9.700 LT (SEE NOTE c)	459.993
④ "U1" 104+74.600	9.700 LT (SEE NOTE d)	457.006
⑤ "U1" 104+75.600	9.700 LT (SEE NOTE d)	457.006
⑤ "U1" 104+94.500	9.700 LT (SEE NOTE e)	456.206
⑥ "U1" 104+95.400	9.700 LT (SEE NOTE e)	456.206
⑥ "U1" 105+52.000	9.700 LT (SEE NOTE f)	453.950
⑦ "U1" 105+53.000	9.700 LT (SEE NOTE f)	453.950
⑦ "U1" 105+65.200	12.809 LT (SEE NOTE g)	453.832
⑧ "U1" 105+66.200	13.124 LT (SEE NOTE g)	453.832
⑧ "H" 97+62.200	10.700 RT (SEE NOTE h)	454.098
⑨ "U2" 105+36.900	10.000 RT (SEE NOTE k)	447.239
⑩ "U2" 105+44.800	9.500 RT (SEE NOTE m)	447.120
⑩ "H" 101+13.300	7.400 RT (SEE NOTE n)	447.676
⑪ "H" 101+15.400	7.100 RT (SEE NOTE n)	447.676
⑫ "H" 100+70.500	13.800 RT (SEE NOTE p)	447.500

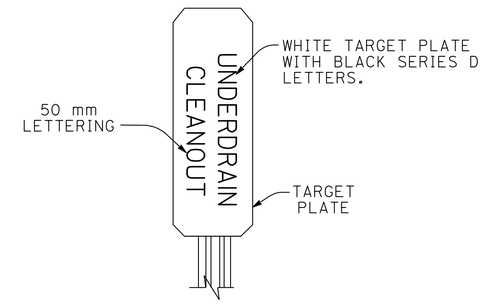
a. OUTLET INTO DRAINAGE BASIN 1, SEE L-3, DP-2 AND DD-1.
b. OUTLET INTO DI ⓐ SYSTEM 18, L-4, D-5 AND DP-7.
c. OUTLET INTO DI ⓑ SYSTEM 18, L-4, D-5 AND DP-7.
d. OUTLET INTO DI ⓑ SYSTEM 17, L-4, D-5 AND DP-7.
e. OUTLET INTO DI ⓐ SYSTEM 17, L-4, D-5 AND DP-7.
f. OUTLET INTO DI ⓐ SYSTEM 13, L-6, D-4 AND DP-64.
g. OUTLET INTO DI ⓑ SYSTEM 13, L-6, D-4 AND DP-64.
h. OUTLET INTO DI ⓐ SYSTEM 10, L-6, D-4 AND DP-4.
k. OUTLET INTO DI ⓕ SYSTEM 25, L-5, D-5 AND DP-10.
m. OUTLET INTO DI ⓐ SYSTEM 25, L-5, D-5 AND DP-10.
n. OUTLET INTO DI ⓘ SYSTEM 25, L-5, D-5 AND DP-10.
p. OUTLET ONTO RSP ⓒ SYSTEM 23, L-5, D-5 AND DP-9.

200 mm PERFORATED PLASTIC PIPE UNDERDRAIN

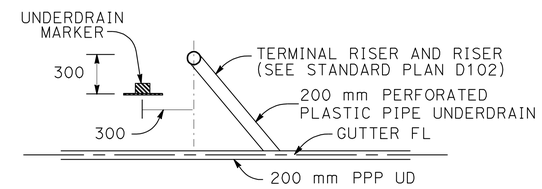
	STATION TO STATION			
①	"A"	99+40.000	"U1"	100+80.000
②	"U1"	100+20.000	"U1"	103+63.500
③	"U1"	103+66.500	"U1"	103+83.300
④	"U1"	103+88.300	"U1"	104+73.600
⑤	"U1"	104+76.400	"U1"	104+93.600
⑥	"U1"	104+96.400	"U1"	105+51.100
⑦	"U1"	105+53.900	"U1"	105+64.200
⑧	"H"	97+63.200	"U1"	105+67.100
⑨	"U2"	103+22.000	"U2"	105+35.800
⑩	"U2"	105+46.100	"H"	101+46.100
⑪	"H"	105+16.400	"H"	101+43.100
⑫	"H"	99+70.000	"H"	100+60.000

200 mm PERFORATED PLASTIC PIPE RISERS

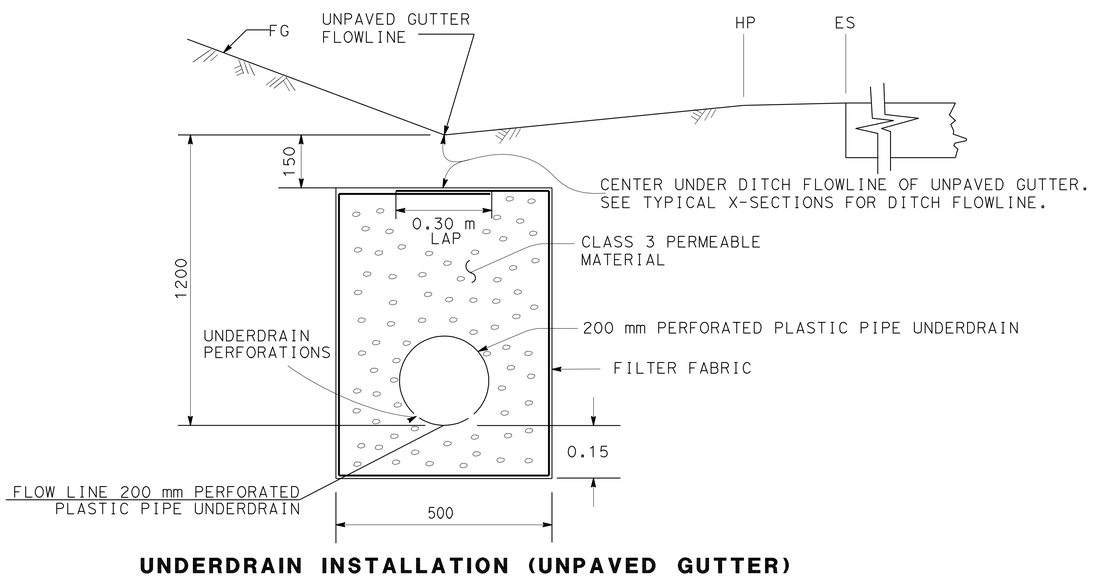
		DESCRIPTION		TYPE
①	LT	"A"	99+40.000	TERMINAL RISER
	LT	"A"	100+40.000	UNDERDRAIN RISER
	LT	"U1"	100+80.000	UNDERDRAIN RISER
②	LT	"U1"	101+20.000	TERMINAL RISER
	LT	"U1"	102+20.000	UNDERDRAIN RISER
	LT	"U1"	103+20.000	UNDERDRAIN RISER
⑨	RT	"U2"	103+22.000	TERMINAL RISER
	RT	"U2"	104+20.000	UNDERDRAIN RISER
	RT	"U2"	105+00.000	UNDERDRAIN RISER
⑪	RT	"H"	101+43.100	TERMINAL RISER
⑫	RT	"H"	99+70.000	TERMINAL RISER



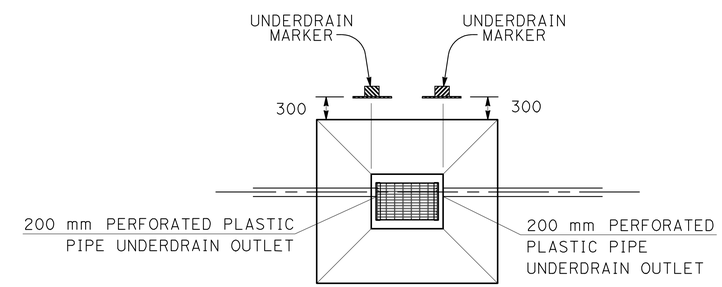
UNDERDRAIN MARKER
(FOR DETAILS NOT SHOWN SEE STANDARD PLAN A73B)



UNDERDRAIN RISER MARKER LOCATIONS
PLAN



UNDERDRAIN INSTALLATION (UNPAVED GUTTER)
(SEE STANDARD PLAN D102)



UNDERDRAIN OUTLET INTO DI MARKER LOCATIONS
SINGLE OR DOUBLE INSTALLATION
NOT TO SCALE
PLAN

ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SHOWN

UNDERDRAIN DETAILS
CONSTRUCTION DETAILS
NO SCALE

C-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST
FUNCTIONAL SUPERVISOR DOUGLAS S. JONES
CALCULATED-DESIGNED BY KARA BRIMHALL
CHECKED BY MITCH ANDRUS
REVISED BY
DATE REVISED

LAST REVISION 09-06-11
DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	85	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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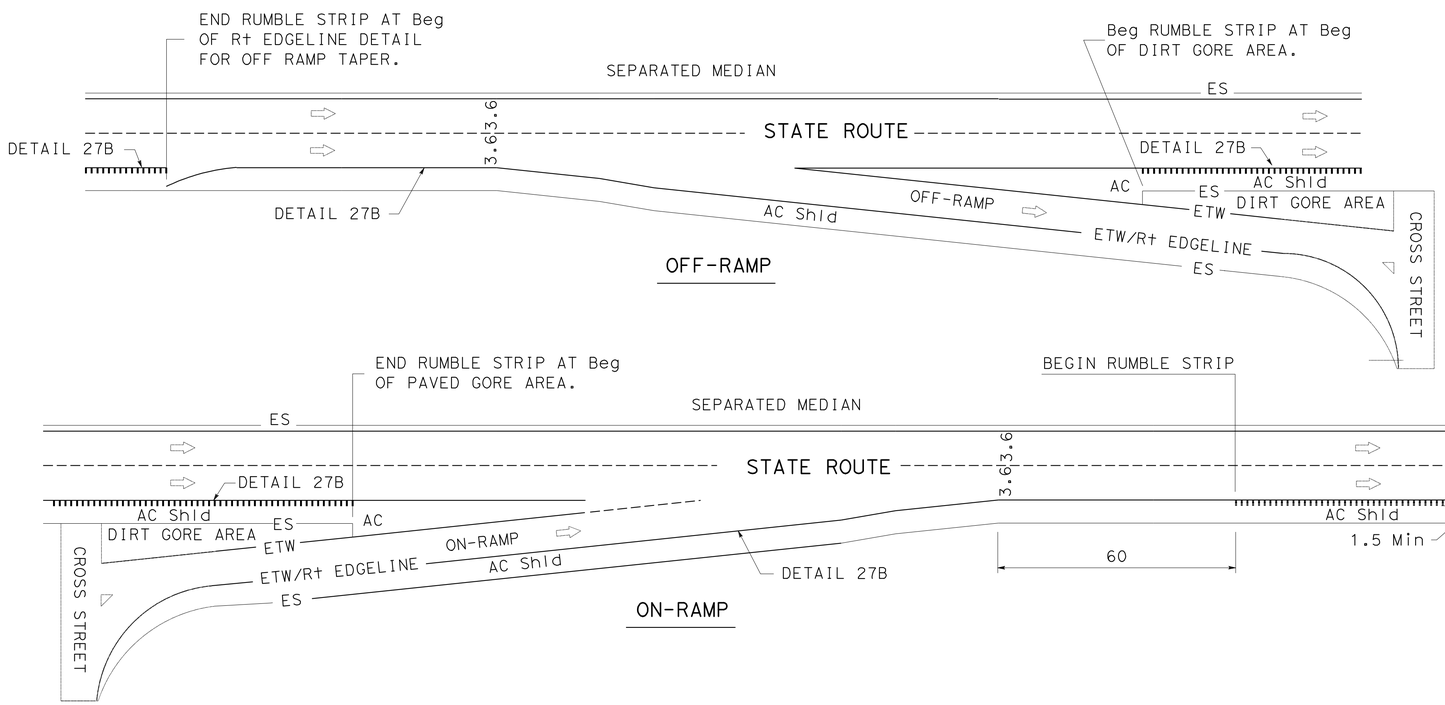
Caltrans Metric

NOTES:

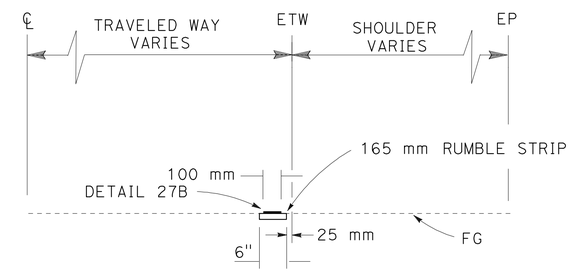
1. ALL RUMBLE STRIP AREAS SHOWN ON PLAN SHEETS SHALL BE VERIFIED WITH THE APPROPRIATE HIGHWAY MAINTENANCE SUPERVISOR TO ASSURE THAT PLANNED INSTALLATION LOCATIONS WILL NOT IMPEDE FUTURE HIGHWAY MAINTENANCE WORK ACTIVITIES DURING ADVERSE WEATHER CONDITIONS.

LEGEND

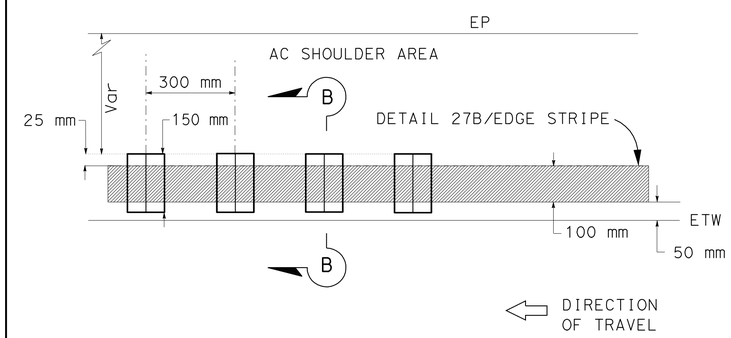
⇨ DIRECTION OF TRAVEL
RUMBLE STRIP (GROUND-IN)



ELEVATION
OUTSIDE SHOULDER AREA



SECTION B-B



PLAN

MODIFIED GROUND-IN RUMBLE STRIP OUTSIDE SHOULDER AREA

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

CONSTRUCTION DETAILS

STANDARD GROUND IN RUMBLE STRIP

PLACEMENT AT INTERSECTING RAMPS, ROADS AND MAJOR DRIVEWAYS

NO SCALE

C-13

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-22-10 | DATE PLOTTED => 27-JAN-2012 | TIME PLOTTED => 14:50

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	86	939

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald C. Rushton
No. C35393
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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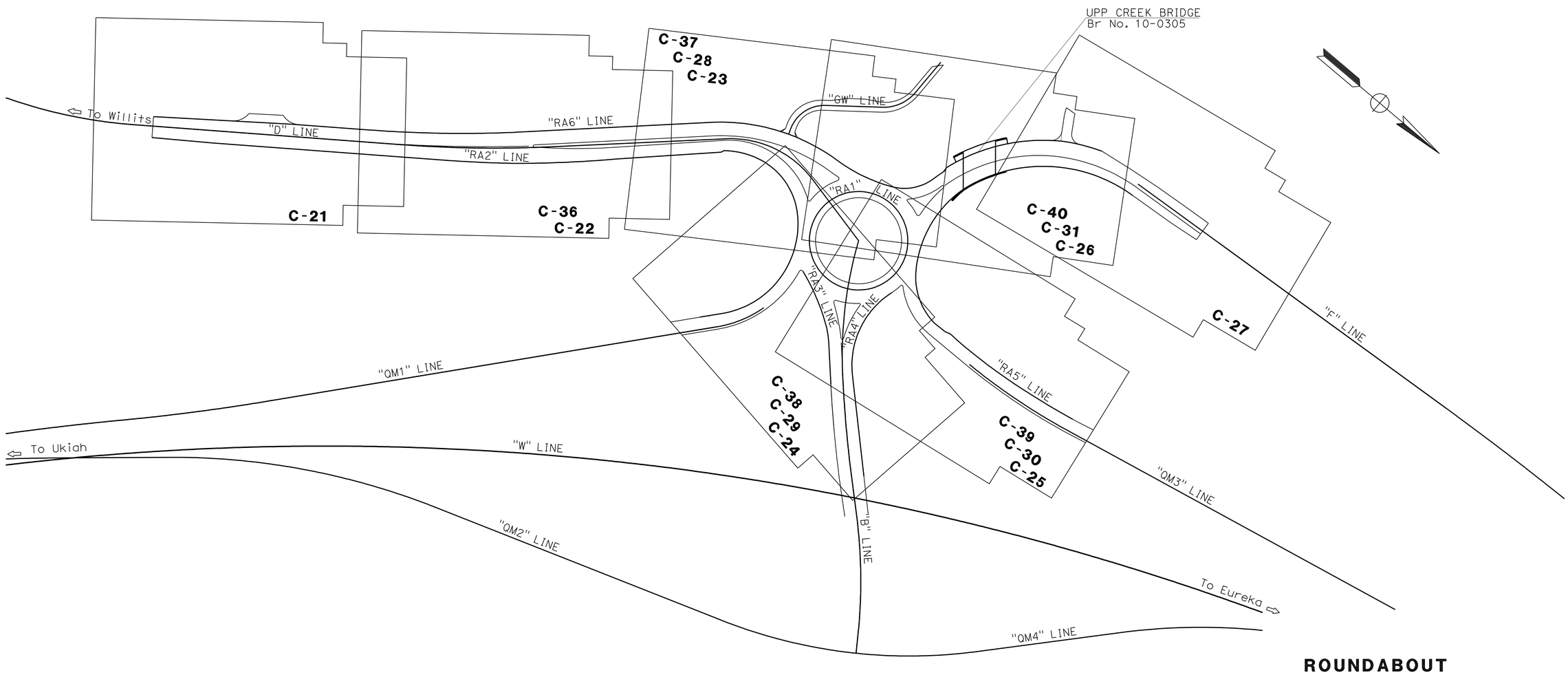
Caltrans Metric

INDEX TO ROUNDABOUT CONSTRUCTION DETAILS

Sheet No.	Title
C-14	KEY MAP AND LINE INDEX
C-15	SECTION LOCATIONS
C-16 - C-19	SECTIONS
C-20	CURVE DATA
C-21 - C-27	ROADWAY & CURB LAYOUT
C-28 - C-31	MULTI-USE PATH LAYOUT
C-32	DRIVEWAY LAYOUT
C-33	CURBS
C-34	STRUCTURAL SECTION DETAILS
C-35	MULTI-USE PATH DETAILS
C-36 - C-40	CONCRETE PAVEMENT JOINTING PLAN
C-41 - C-42	JOINT DETAILS



For bypass key map and line index see sheet K-1

ROUNDABOUT KEY MAP AND LINE INDEX CONSTRUCTION DETAILS

NO SCALE

C-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David C. Kelley
CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-20-10
DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	87	939

Caltrans Metric

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald C. Rushton
No. C35393
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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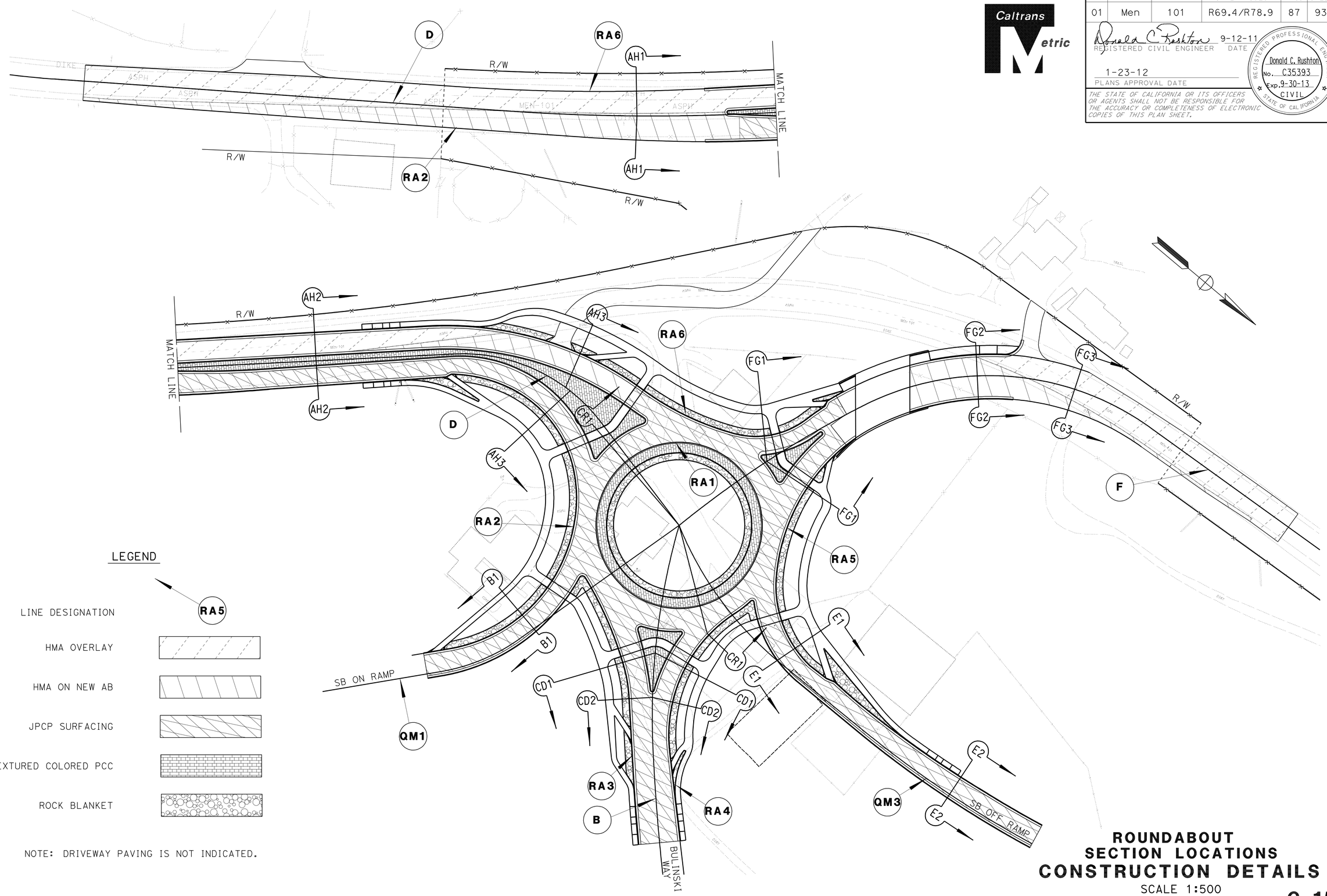

LEGEND

LINE DESIGNATION	RA5
HMA OVERLAY	
HMA ON NEW AB	
JPCP SURFACING	
TEXTURED COLORED PCC	
ROCK BLANKET	

NOTE: DRIVEWAY PAVING IS NOT INDICATED.

ROUNDABOUT SECTION LOCATIONS
CONSTRUCTION DETAILS
SCALE 1:500

C-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David G. Kelley

CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY

REVISED BY
DATE REVISED

LAST REVISION 04-20-10
DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	88	939

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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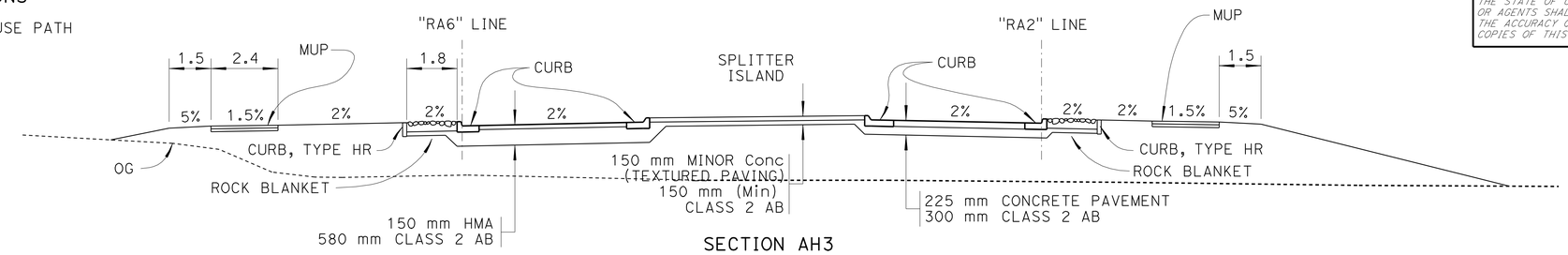
Caltrans Metric

NOTE:
ALL CURBS ALONG SPLITTER ISLANDS ARE TYPE B2-150 (MODIFIED) UNLESS OTHERWISE SHOWN. ALL OTHER CURBS ARE TYPE A2-150 (MODIFIED) UNLESS OTHERWISE INDICATED.

ABBREVIATIONS

MUP MULIT-USE PATH



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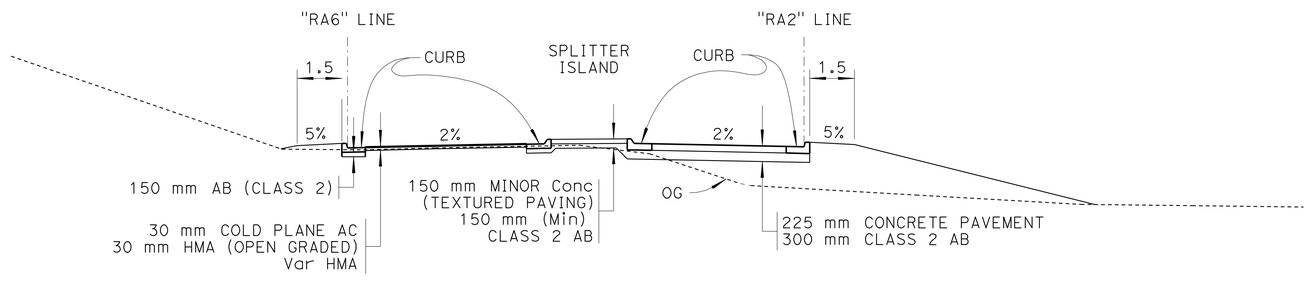

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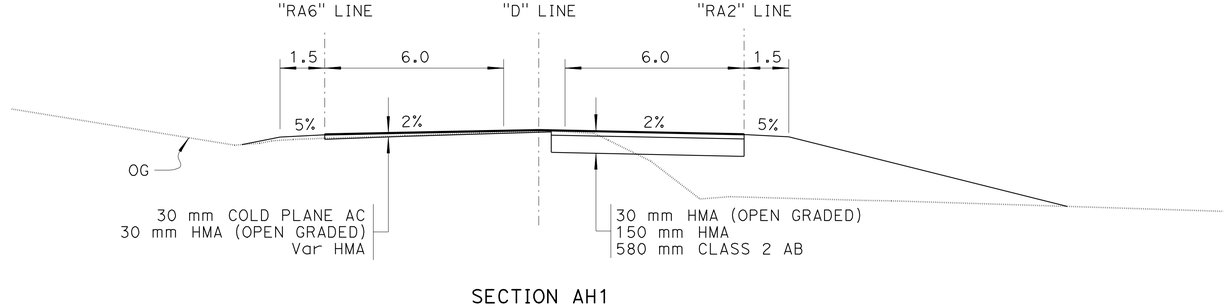

SECTION AH1

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

ROUNDABOUT SECTIONS
CONSTRUCTION DETAILS

NO SCALE

C-16

REVISED BY	DATE REVISED

DONALD C. RUSHTON

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
David G. Kelley

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans North Region - Division of Design & Engineering Services

LAST REVISION 12-29-09 DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	89	939

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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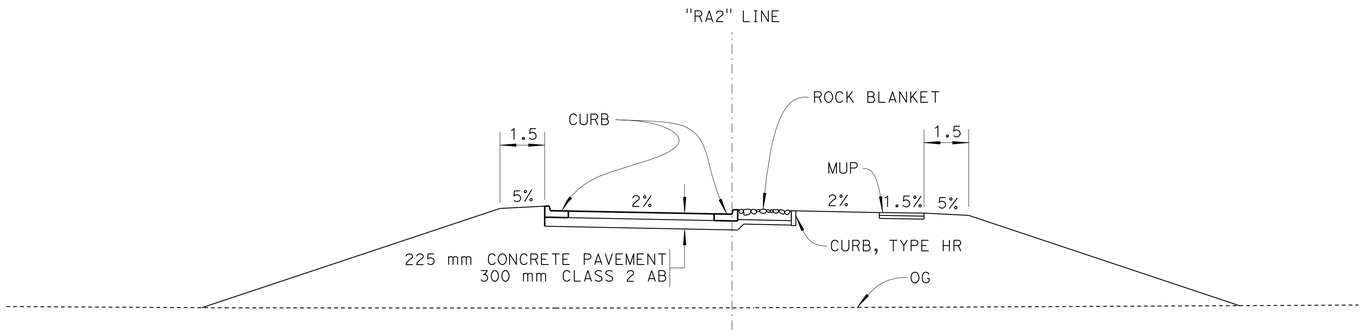
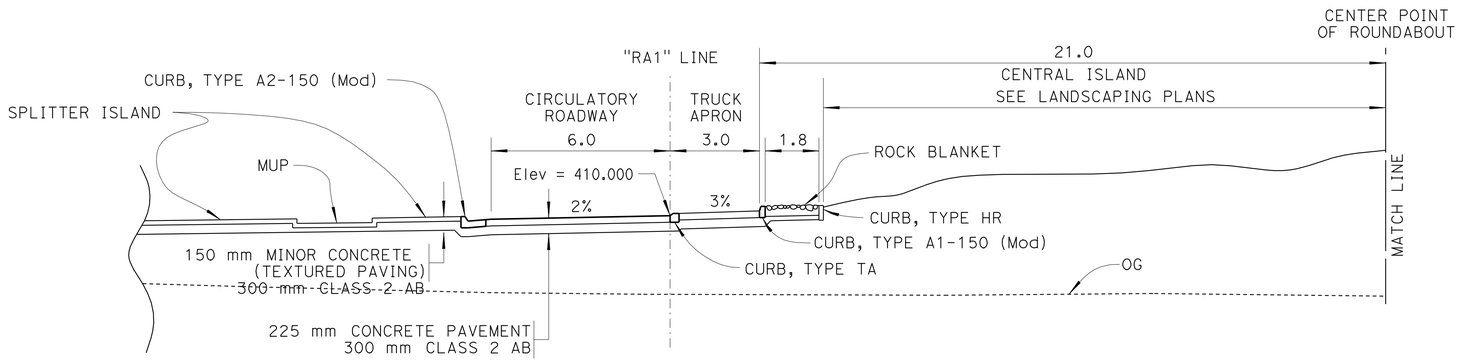
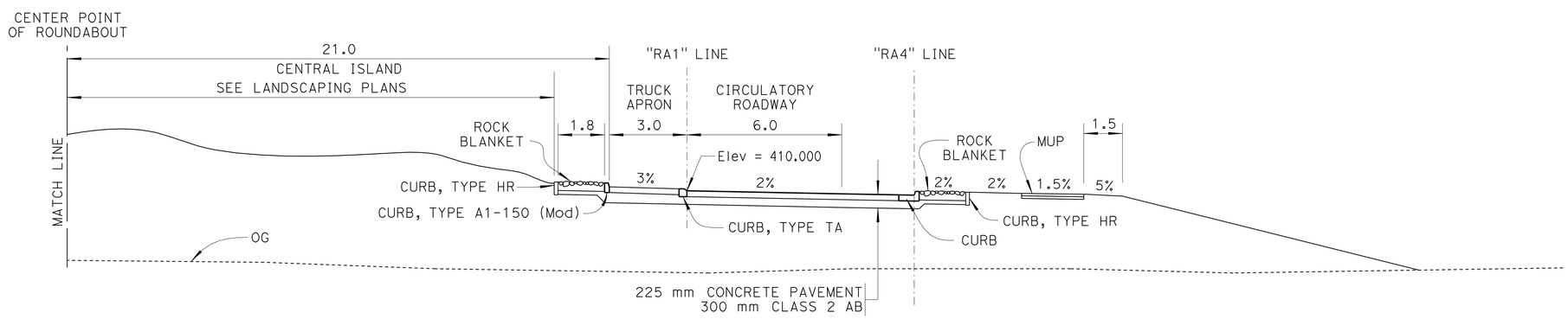
Caltrans Metric



SECTION B1



SECTION CR1 (LEFT SIDE)



SECTION CR1 (RIGHT SIDE)

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

ROUNDABOUT SECTIONS
CONSTRUCTION DETAILS

NO SCALE

C-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David G. Kelley
CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 12-29-09
DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	90	939

Caltrans Metric

Donald C. Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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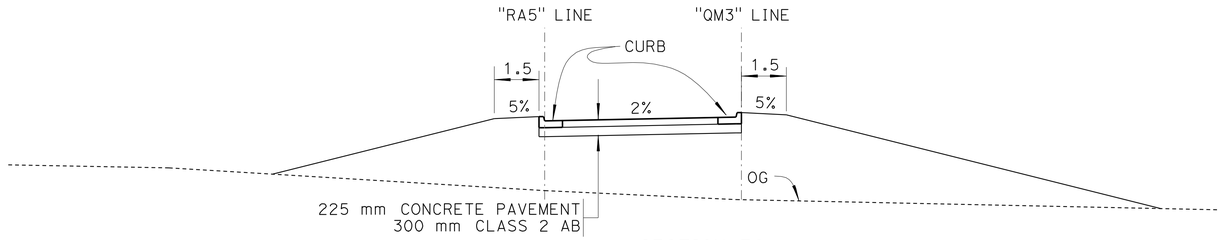

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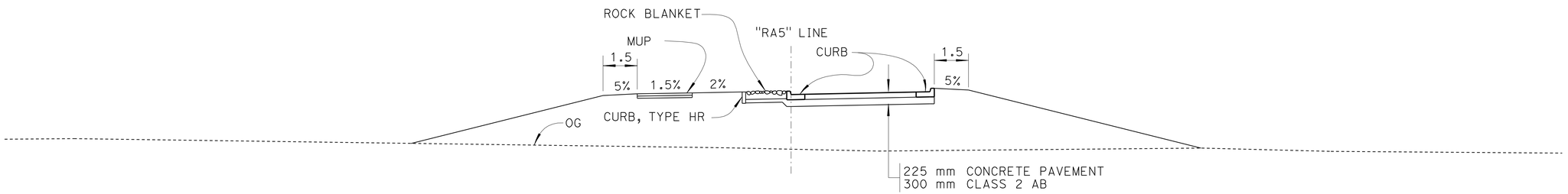
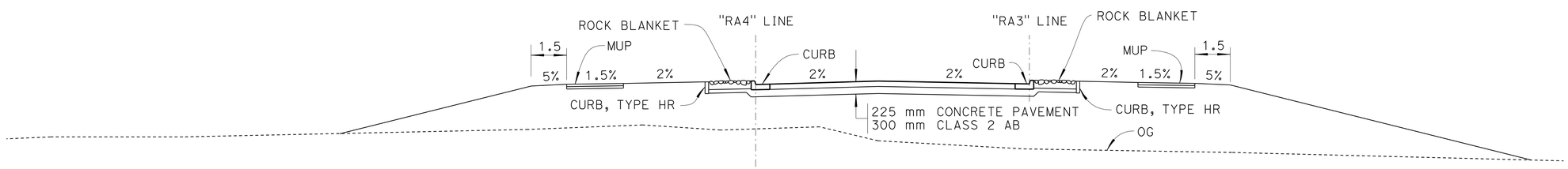
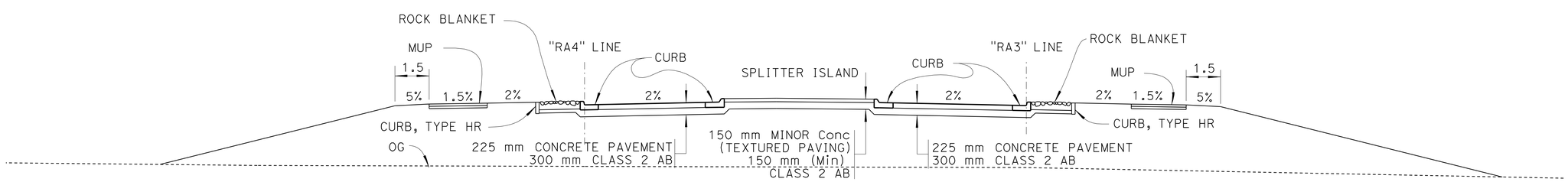


SECTION E1



SECTION CD2



SECTION CD1

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

ROUNDABOUT SECTIONS
CONSTRUCTION DETAILS

NO SCALE

C-18

REVISED BY | DATE REVISED

DONALD C. RUSHTON

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: David G. Kelley

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION | DATE PLOTTED => 12-29-09 | TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	91	939

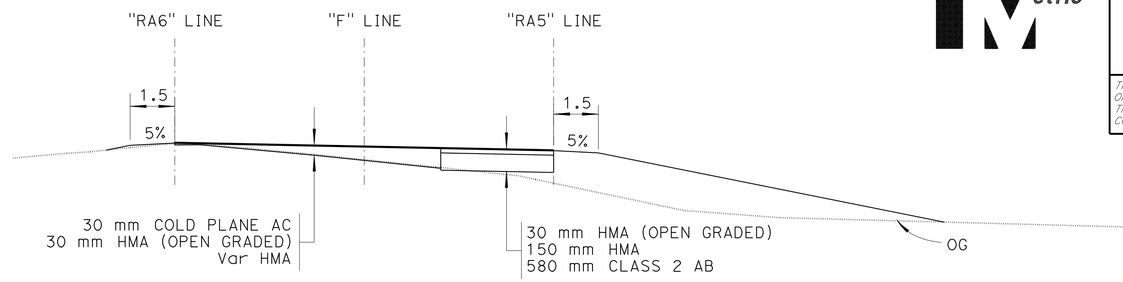
Caltrans Metric

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 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.



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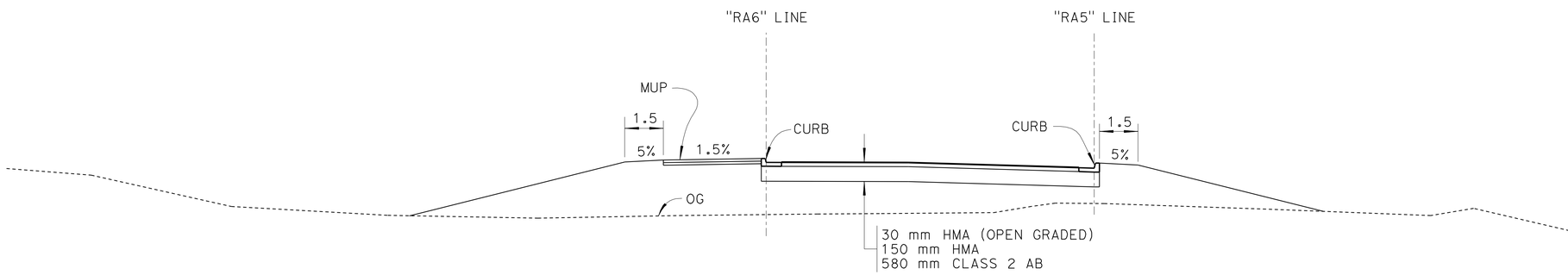
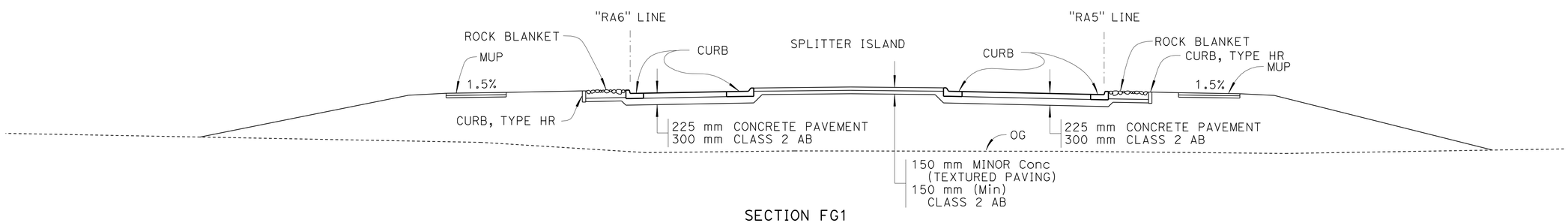


SECTION FG2



SECTION FG1

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

ROUNDABOUT SECTIONS
CONSTRUCTION DETAILS

NO SCALE

C-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David G. Kelley
CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 12-29-09
DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	92	939

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

COORDINATES INDICATED ARE FOR CENTERS OF CURVES.

CURVE DATA

ALIGNMENT	No.	R	△	T	L	N	E
RA1	1	24.000	360°00′00"	NA	150.796	696343.243	1883218.594
RA2	2	605.985	3°17′43"	17.431	34.853	695807.552	1882828.714
RA2	3	599.998	4°44′34"	24.847	49.666	695802.710	1882840.542
RA2	4	40.000	24°55′46"	8.842	17.404	696290.092	1883258.365
RA2	5	34.000	52°33′03"	16.786	31.185	696288.608	1883252.552
RA2	6	39.999	18°15′04"	6.425	12.741	696284.896	1883257.265
RA2	7	46.001	18°39′04"	7.554	14.974	696279.894	1883260.580
RA2	8	44.000	55°16′05"	23.036	42.443	696281.827	1883260.066
RA3	9	105.000	15°23′19"	14.186	28.201	696298.277	1883346.878
RA3	10	40.000	12°34′45"	4.409	8.782	696334.807	1883293.114
RA4	11	42.000	63°55′03"	26.202	46.854	696412.008	1883239.933
RA5	12	74.000	63°10′00"	45.495	81.582	696436.358	1883189.258
RA5	13	50.000	19°30′08"	8.593	17.019	696414.199	1883180.038
RA5	14	55.000	38°02′41"	18.962	36.520	696419.192	1883180.306
RA5	15	32.000	50°56′24"	15.243	28.450	696400.341	1883193.483
RA5	16	294.938	1°39′06"	4.252	8.503	696419.292	1882929.724
RA5	17	300.001	8°34′57"	22.511	44.938	696412.933	1882924.641
RA5	18	293.995	3°36′49"	9.274	18.542	696419.276	1882929.768
RA6	19	594.000	7°09′16"	37.134	74.171	695778.228	1882849.979
RA6	20	96.000	39°12′53"	34.198	65.705	696316.557	1883291.156
RA6	21	80.000	21°01′57"	14.851	29.367	696304.737	1883115.554
RA6	22	24.000	52°28′28"	11.829	21.980	696328.301	1883166.355
RA6	23	84.200	3°44′32"	2.751	5.499	696433.877	1883190.037
RA6	24	85.097	5°48′41"	4.319	8.631	696433.874	1883190.036
RA6	25	90.000	31°57′29"	25.771	50.199	696438.448	1883191.816
RA6	26	91.000	28°11′03"	22.844	44.764	696436.558	1883194.257
D	27	600.000	6°51′37"	35.963	71.840	695790.744	1882840.894
D	28	50.000	55°39′53"	26.398	48.577	696295.765	1883259.059
QM1	29	54.800	25°47′08"	12.544	24.662	696275.940	1883259.579
B	30	199.886	18°45′48"	33.025	65.459	696525.875	1883137.353
QM3	31	99.925	28°57′27"	25.803	50.502	696390.136	1883130.355
QM3	32	300.000	10°36′03"	27.832	55.506	696419.277	1882929.762
F	33	300.000	12°06′31"	31.819	63.401	696637.829	1883275.332
F	34	80.000	62°47′21"	48.822	87.670	696435.334	1883189.333
GW	35	17.678	71°43′26"	12.779	22.130	696299.368	1883192.405
GW	36	20.000	51°45′37"	9.703	18.068	696297.716	1883145.693

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

ROUNDABOUT CURVE DATA
CONSTRUCTION DETAILS

C-20

REVISED BY | DATE REVISED

DONALD C. RUSHTON

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR
David G. Kelley

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 12-30-09 | DATE PLOTTED => | TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	93	939

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald C. Rushton
No. C35393
Exp. 9-30-13
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.

Caltrans Metric

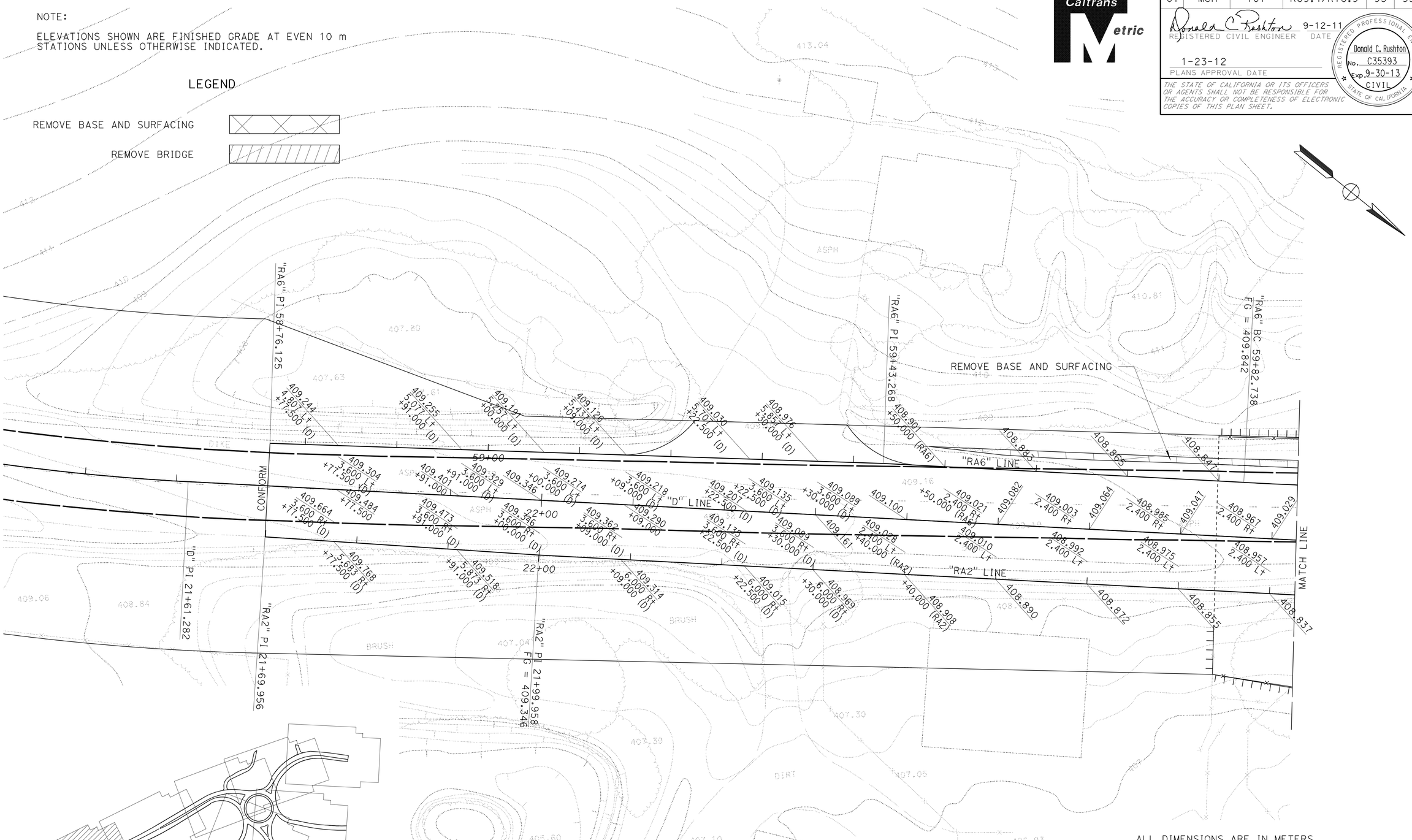
NOTE:

ELEVATIONS SHOWN ARE FINISHED GRADE AT EVEN 10 m STATIONS UNLESS OTHERWISE INDICATED.

LEGEND

REMOVE BASE AND SURFACING

REMOVE BRIDGE



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ROUNDABOUT ROADWAY & CURB LAYOUT CONSTRUCTION DETAILS

SCALE 1:200

C-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David G. Kelley

CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 12-30-09 | TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	94	939

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

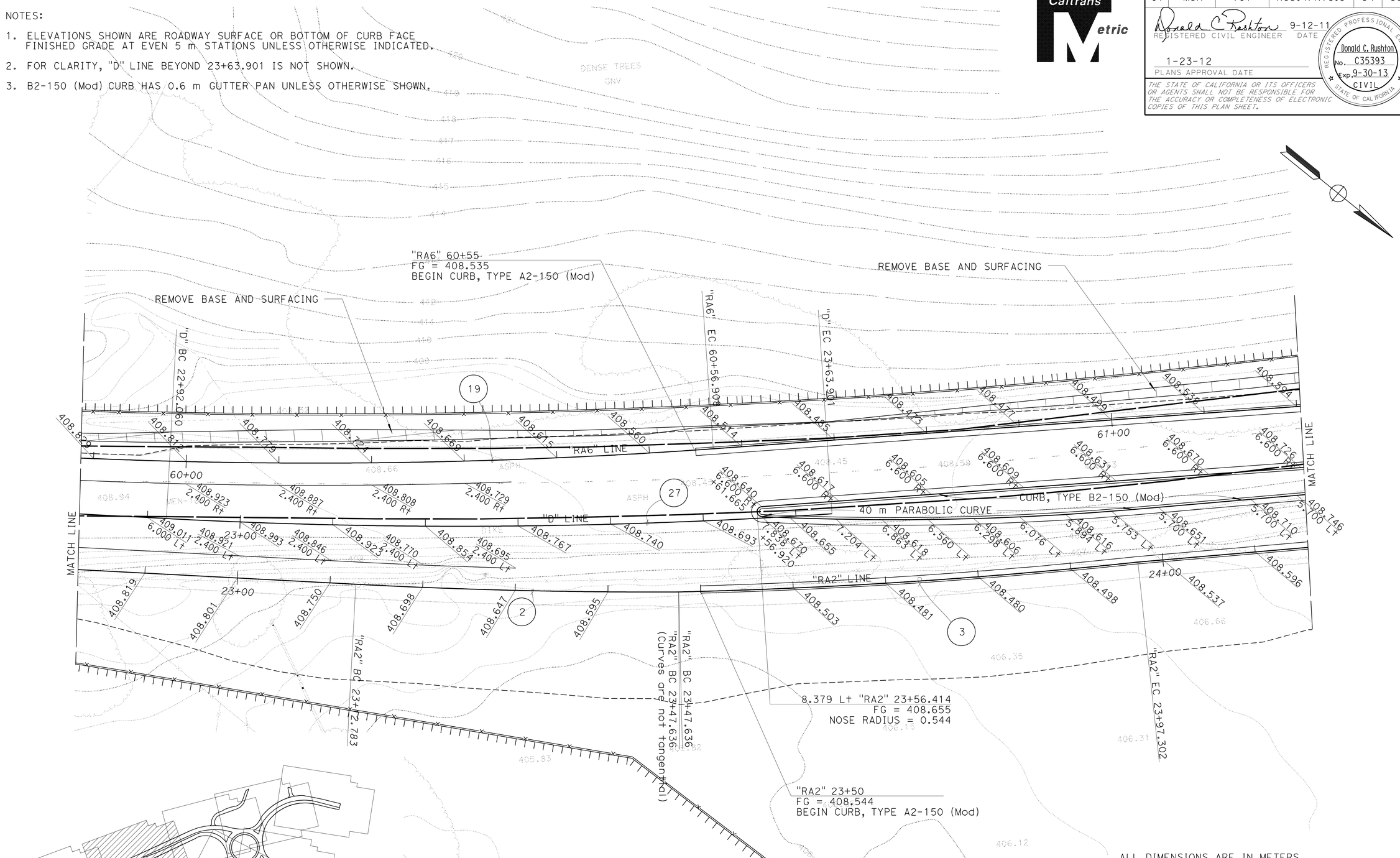
REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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.

Caltrans Metric

NOTES:

1. ELEVATIONS SHOWN ARE ROADWAY SURFACE OR BOTTOM OF CURB FACE FINISHED GRADE AT EVEN 5 m STATIONS UNLESS OTHERWISE INDICATED.
2. FOR CLARITY, "D" LINE BEYOND 23+63.901 IS NOT SHOWN.
3. B2-150 (Mod) CURB HAS 0.6 m GUTTER PAN UNLESS OTHERWISE SHOWN.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ROUNDABOUT ROADWAY & CURB LAYOUT CONSTRUCTION DETAILS

SCALE 1:200

C-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David G. Kelley

CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY

REVISED BY
DATE REVISED

LAST REVISION 12-30-09
DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	95	939

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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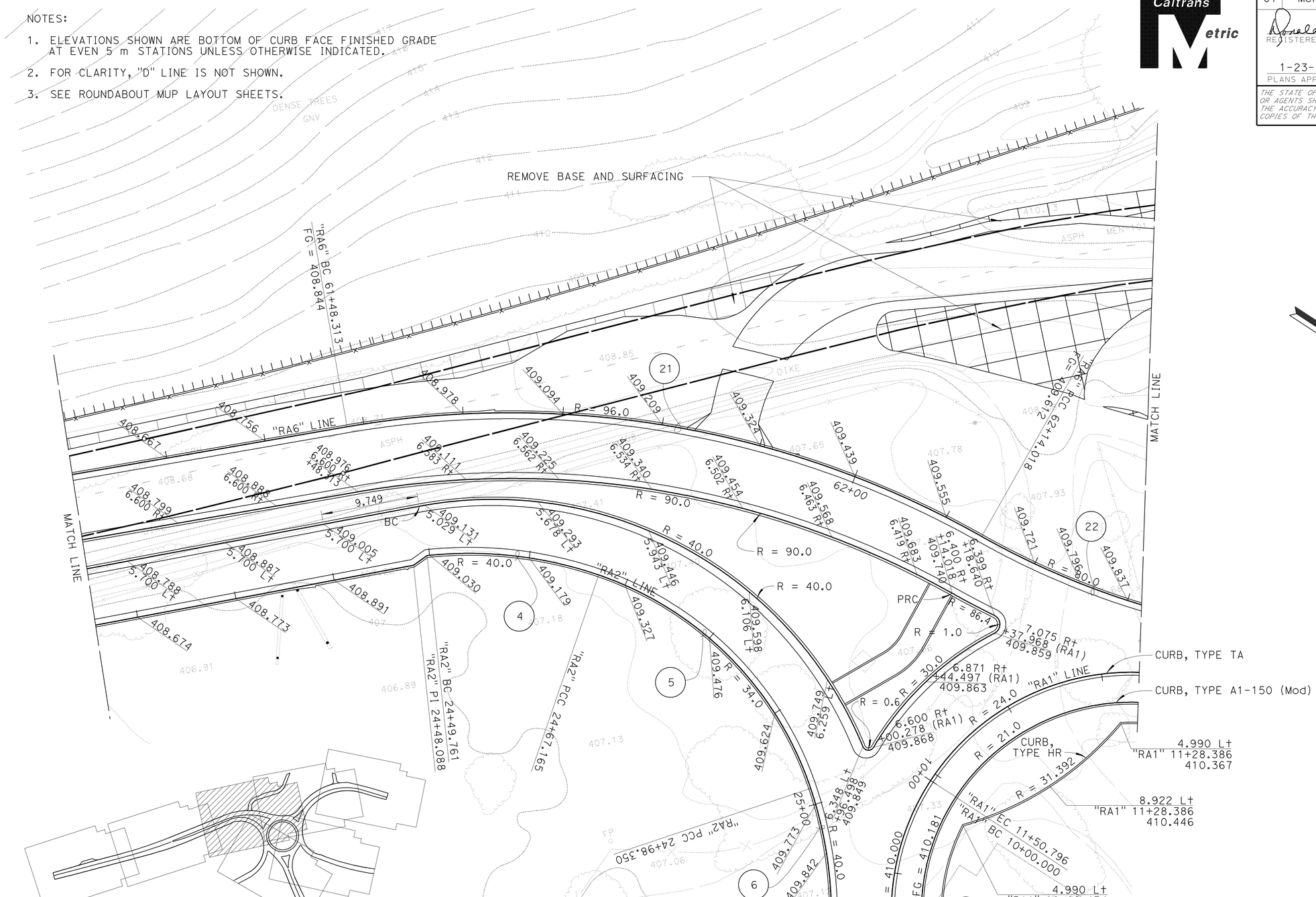
Caltrans Metric

NOTES:

1. ELEVATIONS SHOWN ARE BOTTOM OF CURB FACE FINISHED GRADE AT EVEN 5 m STATIONS UNLESS OTHERWISE INDICATED.
2. FOR CLARITY, "D" LINE IS NOT SHOWN.
3. SEE ROUNDABOUT MUP LAYOUT SHEETS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ROUNDABOUT ROADWAY & CURB LAYOUT CONSTRUCTION DETAILS

SCALE 1:200

C-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David G. Kelley
CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 01-14-10 | DATE PLOTTED => | TIME PLOTTED =>

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => s109858 | DGN FILE => 0100000005ga023.dgn | CU 03221 | EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	96	939

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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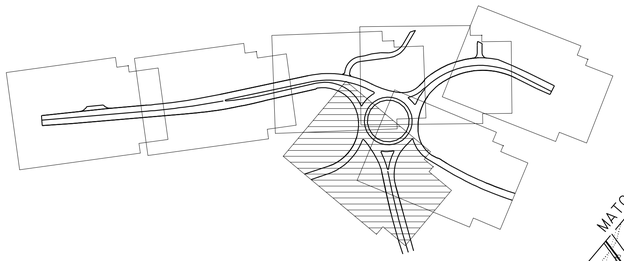
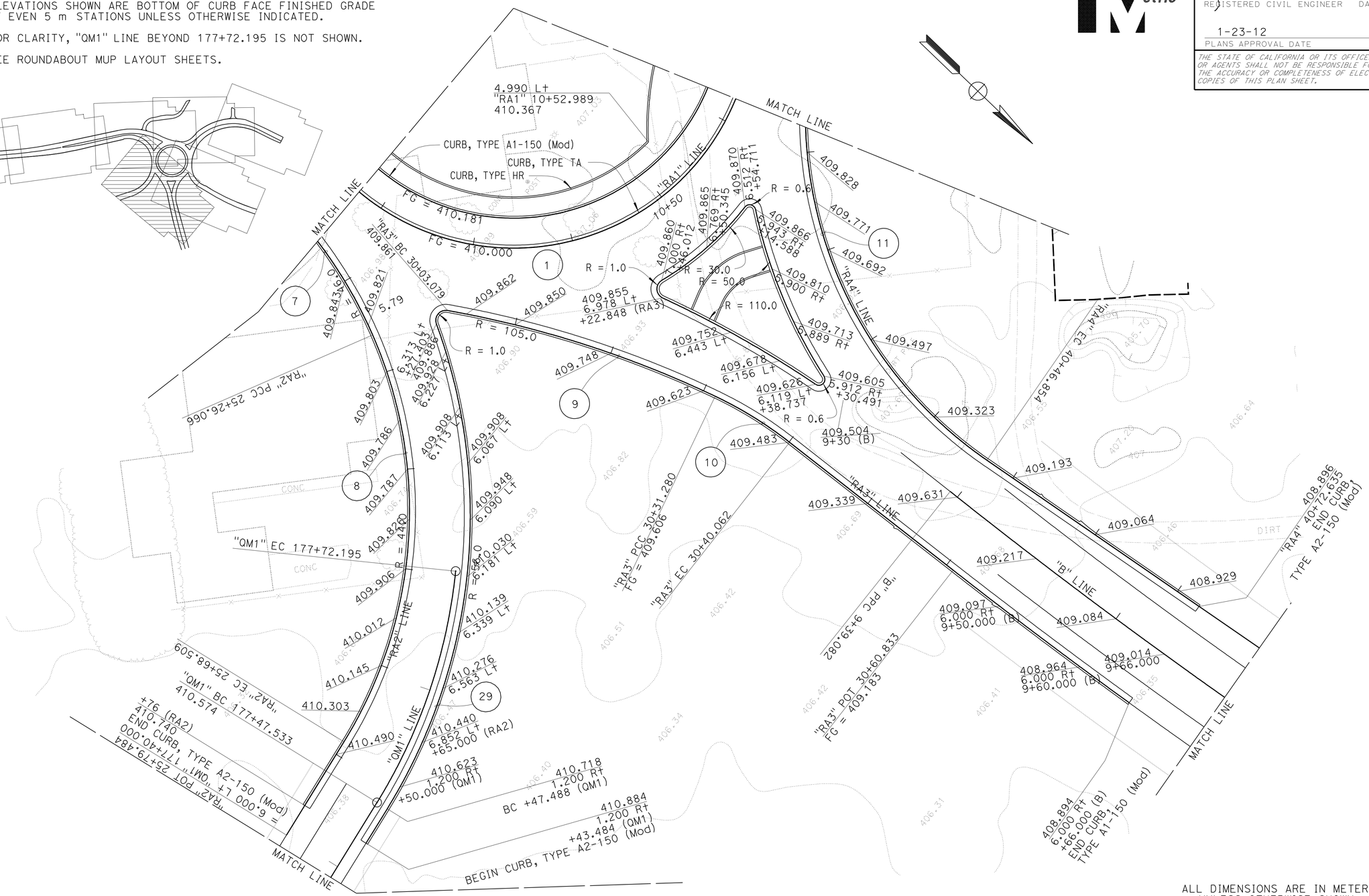
Caltrans Metric

NOTES:

1. ELEVATIONS SHOWN ARE BOTTOM OF CURB FACE FINISHED GRADE AT EVEN 5 m STATIONS UNLESS OTHERWISE INDICATED.
2. FOR CLARITY, "QM1" LINE BEYOND 177+72.195 IS NOT SHOWN.
3. SEE ROUNDABOUT MUP LAYOUT SHEETS.





ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ROUNDABOUT ROADWAY & CURB LAYOUT CONSTRUCTION DETAILS

SCALE 1:200

C-24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David G. Kelley
CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 01-14-10
DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	97	939

Caltrans Metric

Donald C. Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

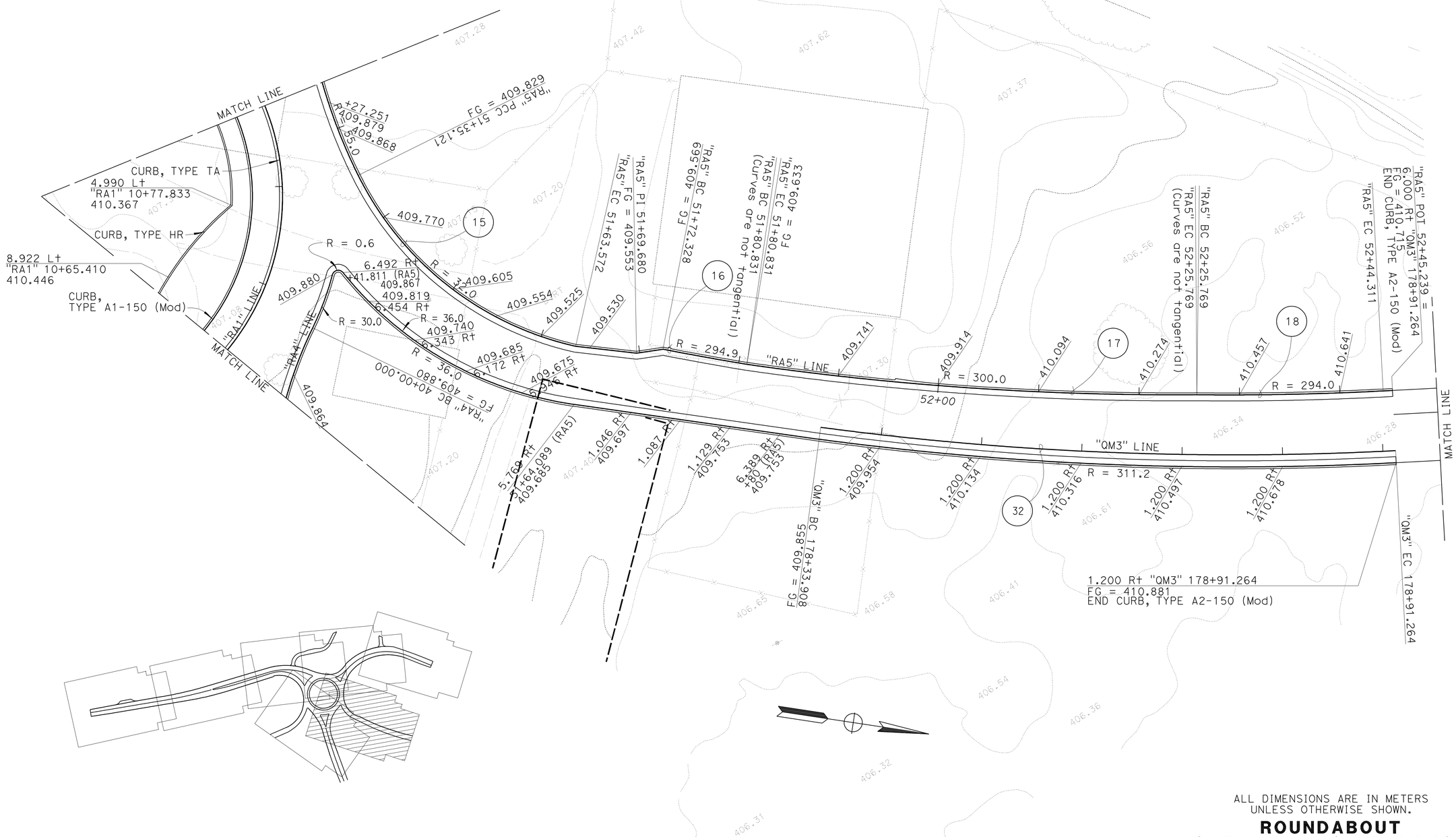
1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 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.

NOTES:

1. ELEVATIONS SHOWN ARE BOTTOM OF CURB FACE FINISHED GRADE AT EVEN 5 m STATIONS UNLESS OTHERWISE INDICATED.
2. FOR CLARITY, "B" LINE BEFORE 9+39.0802 AND "QM3" LINE BEFORE 178+02.355 ARE NOT SHOWN.
3. SEE ROUNDABOUT MUP LAYOUT SHEETS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ROUNDABOUT ROADWAY & CURB LAYOUT CONSTRUCTION DETAILS

SCALE 1:200

C-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David G. Kelley
CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 01-14-10
DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	98	939

Donald C. Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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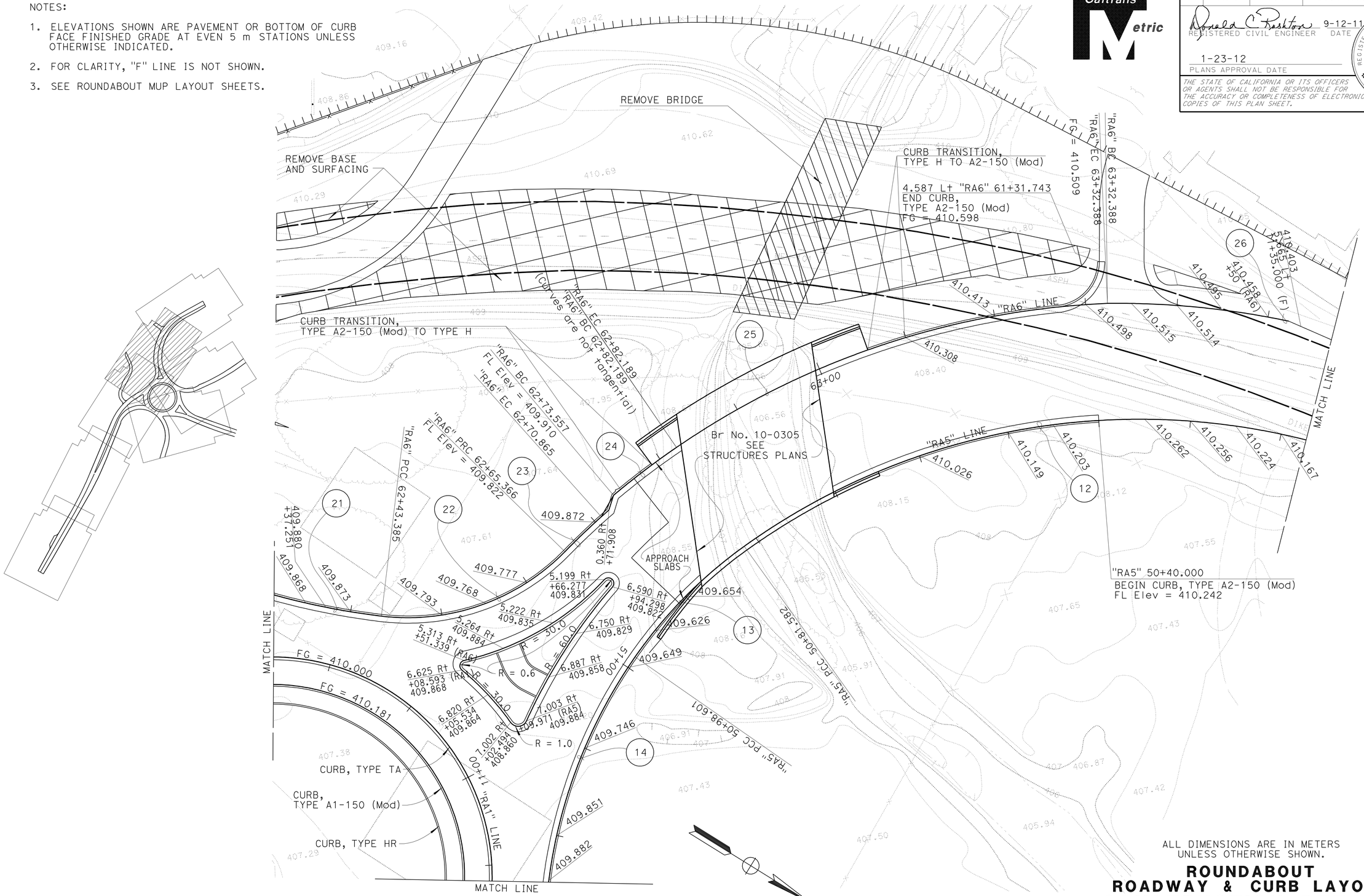
Caltrans Metric

NOTES:

1. ELEVATIONS SHOWN ARE PAVEMENT OR BOTTOM OF CURB FACE FINISHED GRADE AT EVEN 5 m STATIONS UNLESS OTHERWISE INDICATED.
2. FOR CLARITY, "F" LINE IS NOT SHOWN.
3. SEE ROUNDABOUT MUP LAYOUT SHEETS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ROUNDABOUT ROADWAY & CURB LAYOUT CONSTRUCTION DETAILS

SCALE 1:200

C-26

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY:

FUNCTIONAL SUPERVISOR: David G. Kelley

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 04-21-10 | DATE PLOTTED => | TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	99	939

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald C. Rushton
No. C35393
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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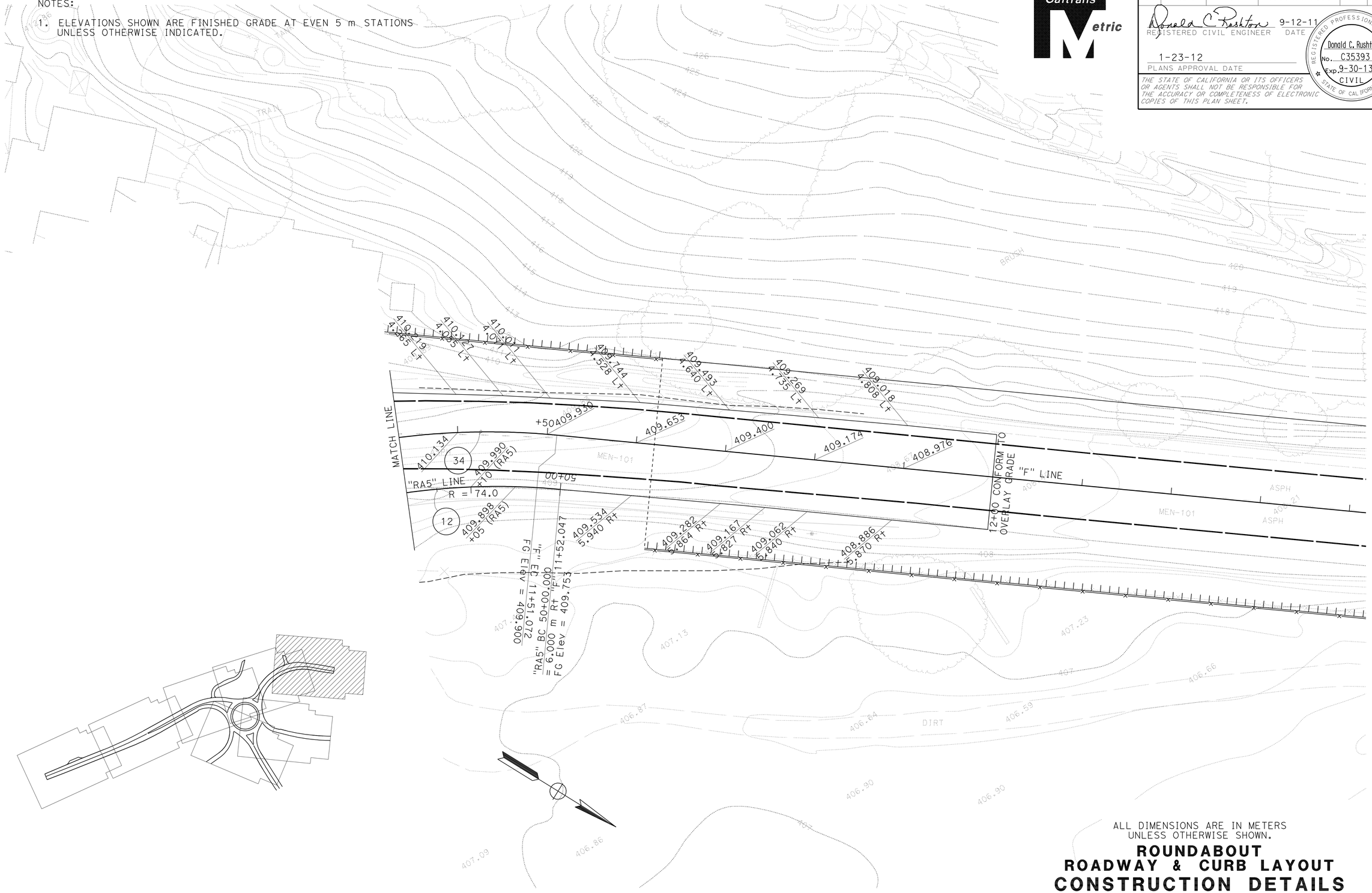
Caltrans Metric

NOTES:

1. ELEVATIONS SHOWN ARE FINISHED GRADE AT EVEN 5 m STATIONS UNLESS OTHERWISE INDICATED.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ROUNDABOUT ROADWAY & CURB LAYOUT CONSTRUCTION DETAILS

SCALE 1:200

C-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David G. Kelley
CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 04-22-10
DATE PLOTTED =>
TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	100	939

Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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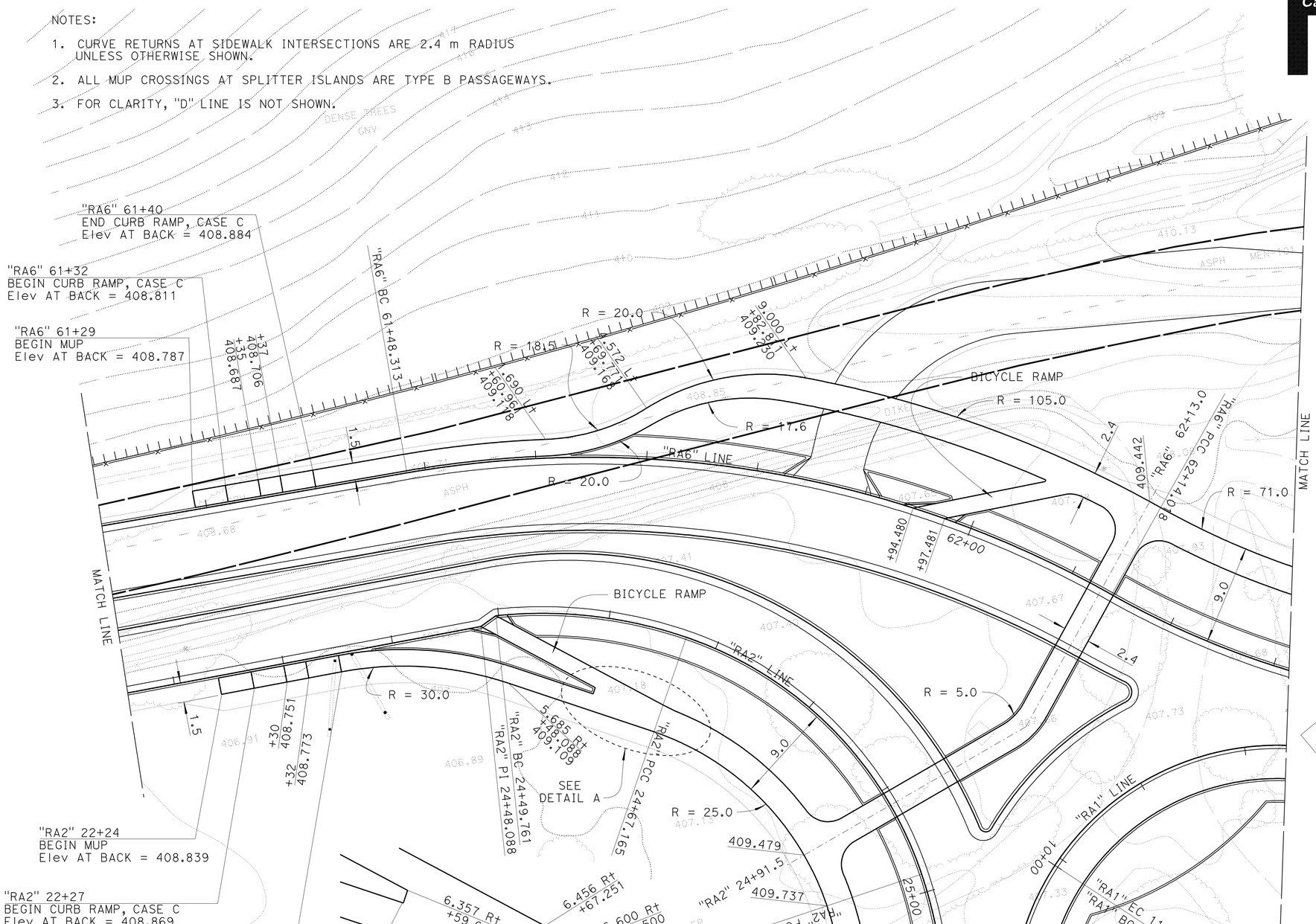
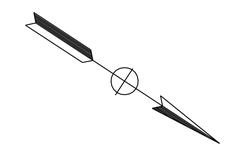
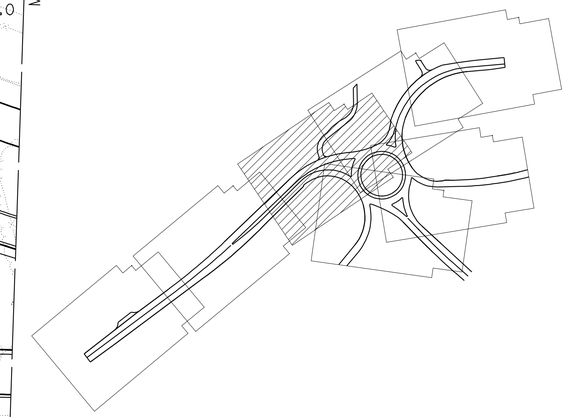
Caltrans Metric

NOTES:

1. CURVE RETURNS AT SIDEWALK INTERSECTIONS ARE 2.4 m RADIUS UNLESS OTHERWISE SHOWN.
2. ALL MUP CROSSINGS AT SPLITTER ISLANDS ARE TYPE B PASSAGEWAYS.
3. FOR CLARITY, "D" LINE IS NOT SHOWN.







DETAIL A
SCALE 1:100

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ROUNDABOUT MULTI-USE PATH LAYOUT CONSTRUCTION DETAILS

SCALE 1:200

C-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: David G. Kelley
CALCULATED-DESIGNED BY: DONALD C. RUSHTON
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 12-31-09
DATE PLOTTED =>
TIME PLOTTED =>