Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	106	939

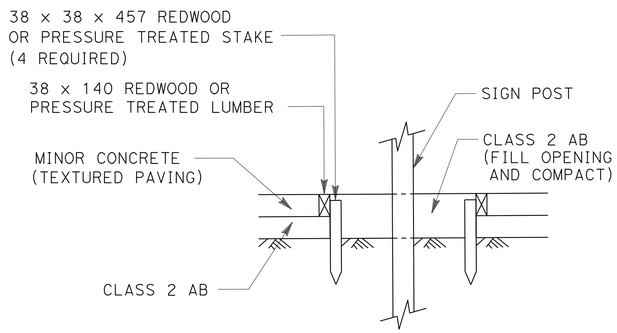
Donald C Rushton 9-12-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

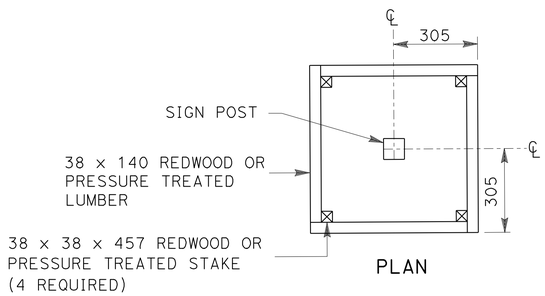
REGISTERED PROFESSIONAL ENGINEER Donald C. Rushton No. C35393 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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



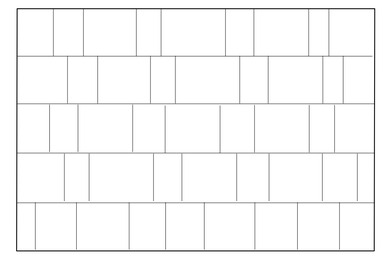
SECTION



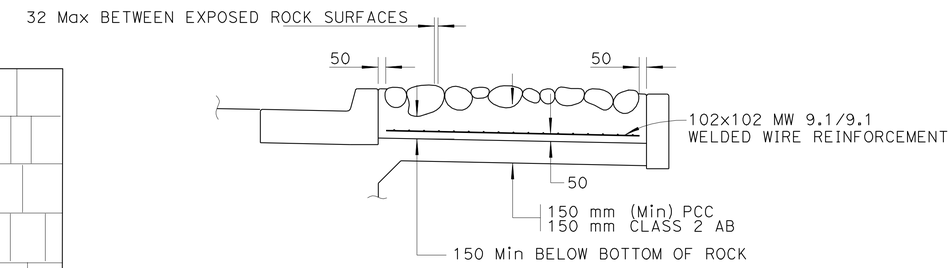
PLAN

OPENING FOR SIGN POST IN MINOR CONCRETE (TEXTURED PAVING)

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



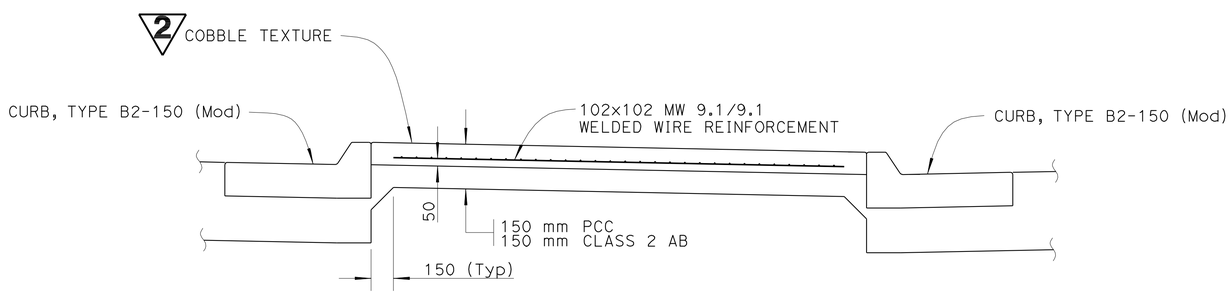
2 **MINOR CONCRETE (TEXTURED PAVING) RANDOM INTERLOCKING COBBLE TEXTURE**



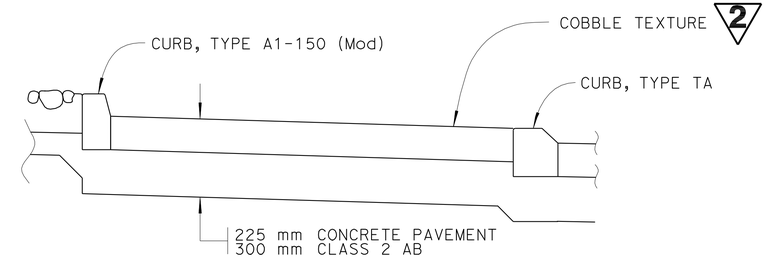
ROCK BLANKET

NOTES:

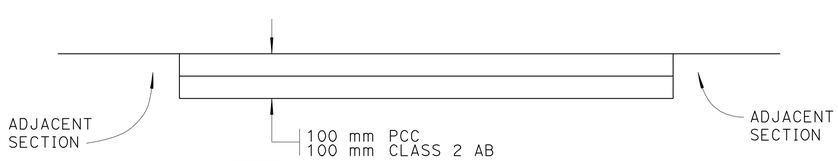
1. PLACE ROCK FLATTEST SIDE UP
2. 25 mm MAXIMUM VERTICAL DIFFERENCE BETWEEN ADJACENT ROCK SURFACES
3 PLACE TOP OF ROCK 25 TO 40 mm ABOVE CONCRETE SURFACE
4 SET CONCRETE SURFACE FLUSH WITH ADJACENT TOP OF CURB



SPLITTER ISLAND PAVING



TRUCK APRON



1 MULTI-USE PATH

2 **REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012**

1 **REVISED PER ADDENDUM No. 1 DATED JUNE 13, 2012**

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

ROUNDABOUT STRUCTURAL SECTION DETAILS

CONSTRUCTION DETAILS

NO SCALE

C-34

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 12-31-09 | DATE PLOTTED => | TIME PLOTTED =>

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	122	939

LICENSED LANDSCAPE ARCHITECT

1-23-12
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JAMES G. WILLIAMSON No. 5415 Signature 02-29-12 Renewal Date 09-19-11 Date STATE OF CALIFORNIA

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

Caltrans Metric

NOTES:

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

2 ~~2. LOCAL TOPSOIL 1 IS TO BE COLLECTED AND STOCKPILED WITHIN THE RIGHT OF WAY.~~

~~3. LOCAL TOPSOIL 2 IS TO BE COLLECTED AND STOCKPILED OUTSIDE THE RIGHT OF WAY AT A LOCATION DETERMINED BY THE ENGINEER.~~

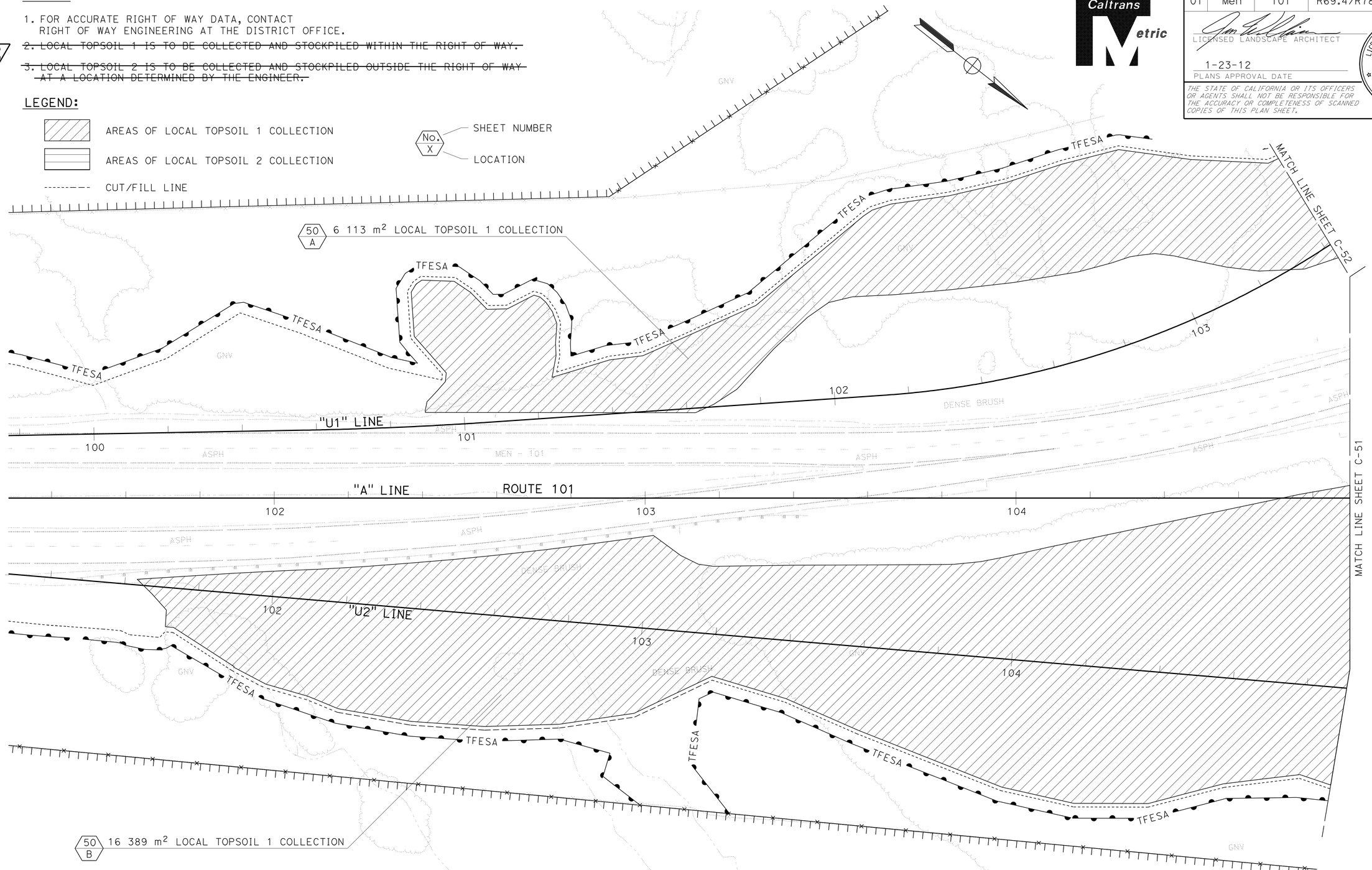
LEGEND:

AREAS OF LOCAL TOPSOIL 1 COLLECTION

AREAS OF LOCAL TOPSOIL 2 COLLECTION

CUT/FILL LINE

No. / X — SHEET NUMBER / LOCATION



2 **REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LOCAL TOPSOIL COLLECTION CONSTRUCTION DETAILS

SCALE 1:500

C-50

APPROVED FOR EROSION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: J. WILLIAMSON
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 09-19-11
DATE PLOTTED => 02-JUL-2012
TIME PLOTTED => 10:45

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	172A	939

LICENSED LANDSCAPE ARCHITECT

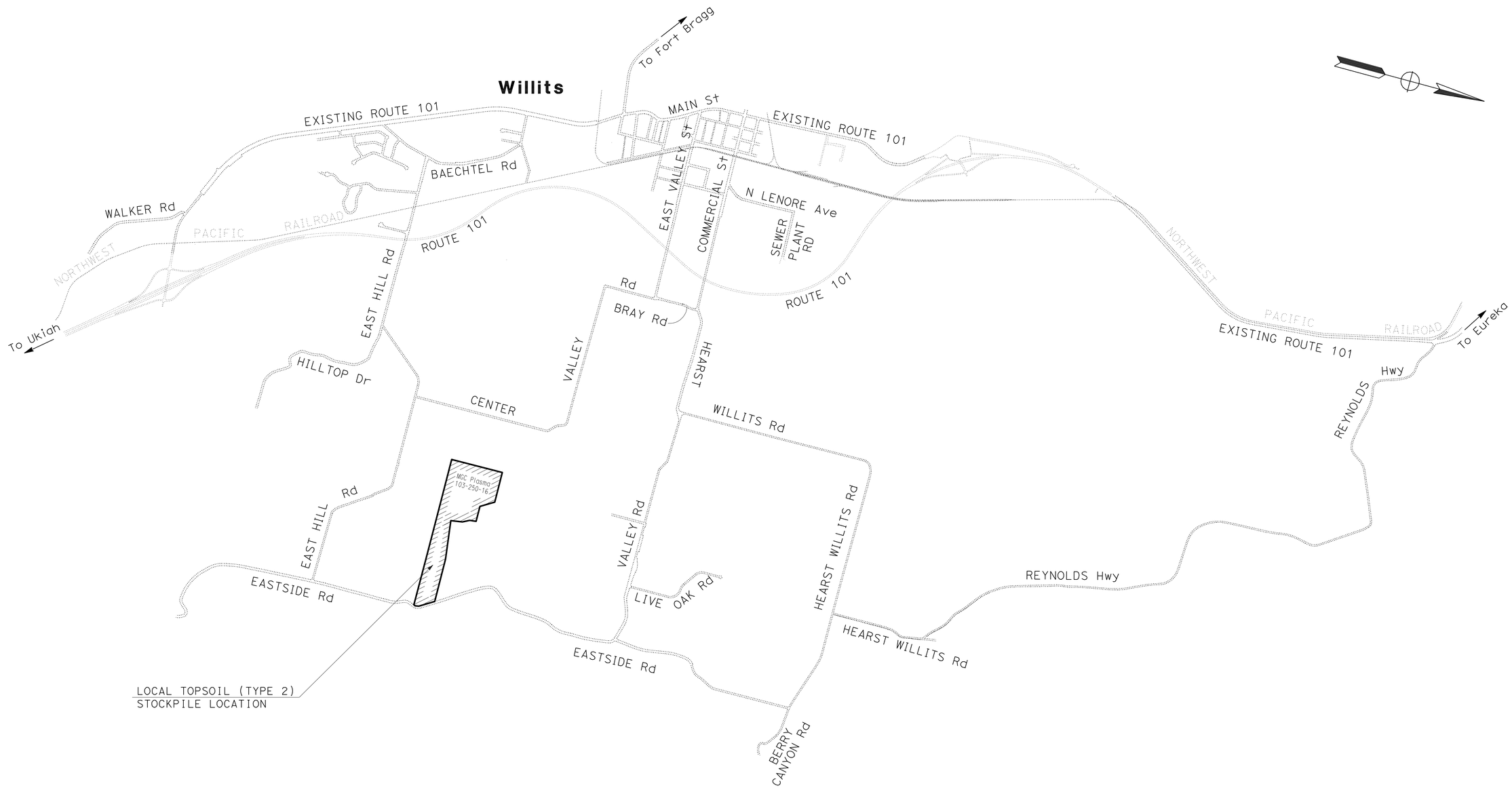
1-23-12
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT JAMES G. WILLIAMSON No. 5415 Signature 02-28-14 Renewal Date 06-22-12 Date 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

2



LOCAL TOPSOIL (TYPE 2)
LOCATION MAP DETAIL

LOCAL TOPSOIL PLACEMENT CONSTRUCTION DETAILS (TYPE 2 STOCKPILE LOCATION)

NO SCALE

C-101

2 ADDED PER ADDENDUM No. 2 DATED JULY 2, 2012

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: J. WILLIAMSON
CHECKED BY

REVISED BY
DATE REVISED

LAST REVISION 06-22-12
DATE PLOTTED => 02-JUL-2012
TIME PLOTTED => 10:45

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	172B	939

LICENSED LANDSCAPE ARCHITECT

1-23-12
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.

LICENSED LANDSCAPE ARCHITECT JAMES G. WILLIAMSON No. 5415 Signature 02-28-14 Renewal Date 06-22-12 Date STATE OF CALIFORNIA

2 Caltrans Metric

ABBREVIATIONS

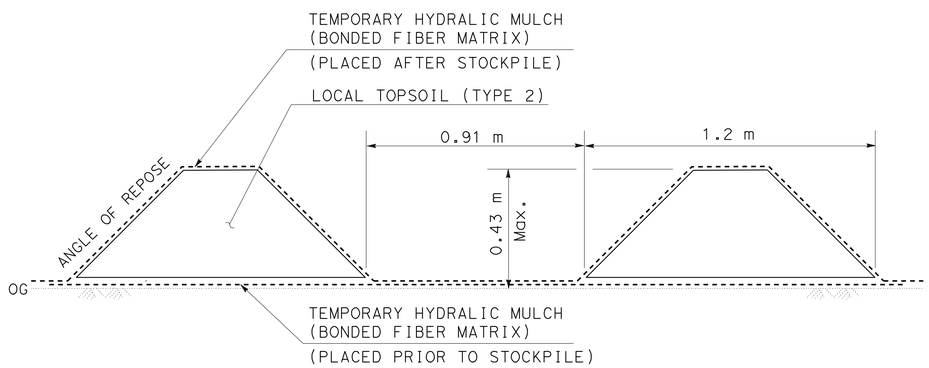
OG - ORIGINAL GROUND

NOTES

1. ASSUMES USE OF DOUBLE BELLY-DUMP TRAILER - 10 m3/LOAD
2. EACH WINDROW IS 1 LOAD
3. WINDROWS MAY NOT BE DISTURBED AFTER PLACEMENT
4. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

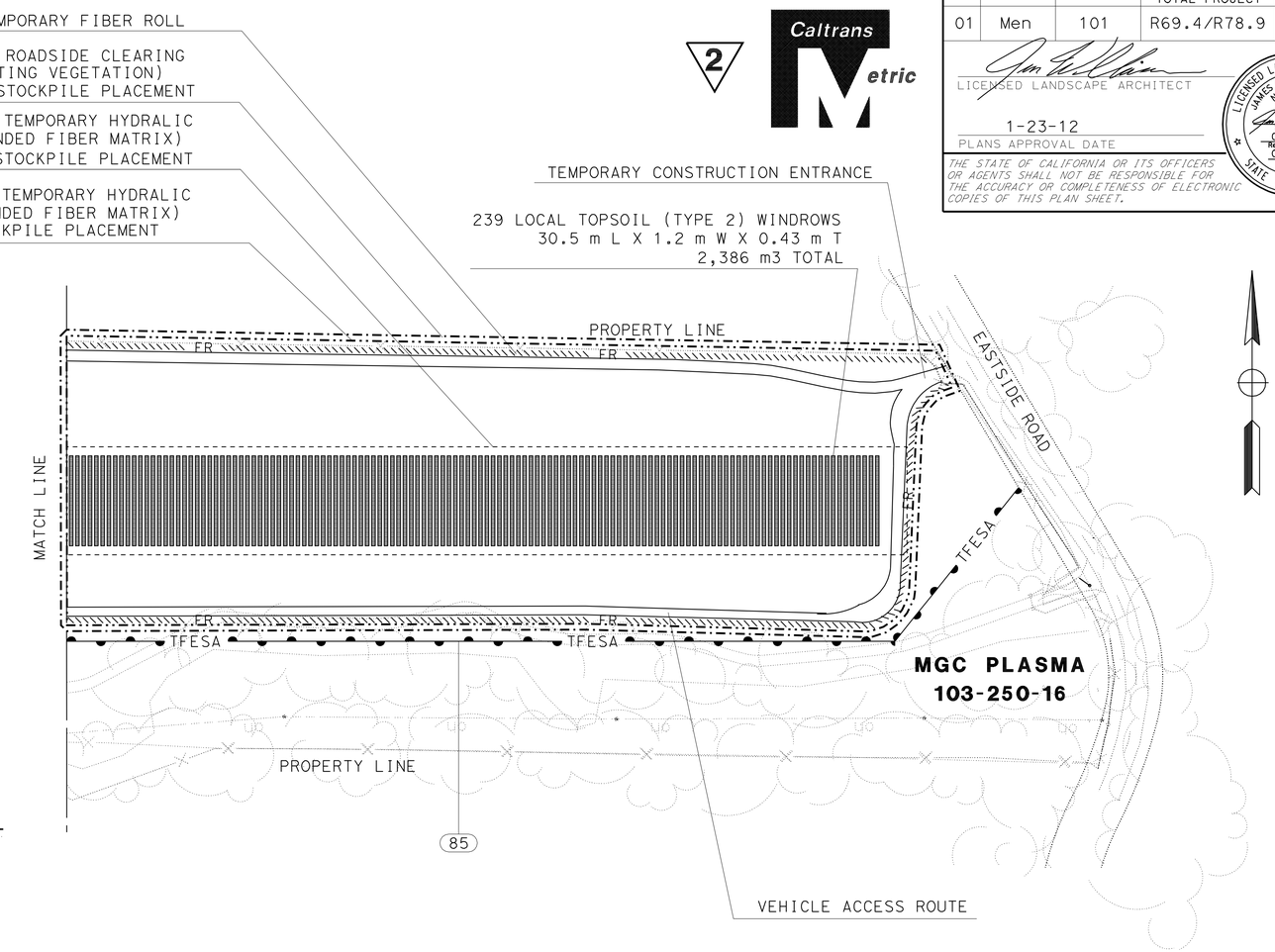
LEGEND

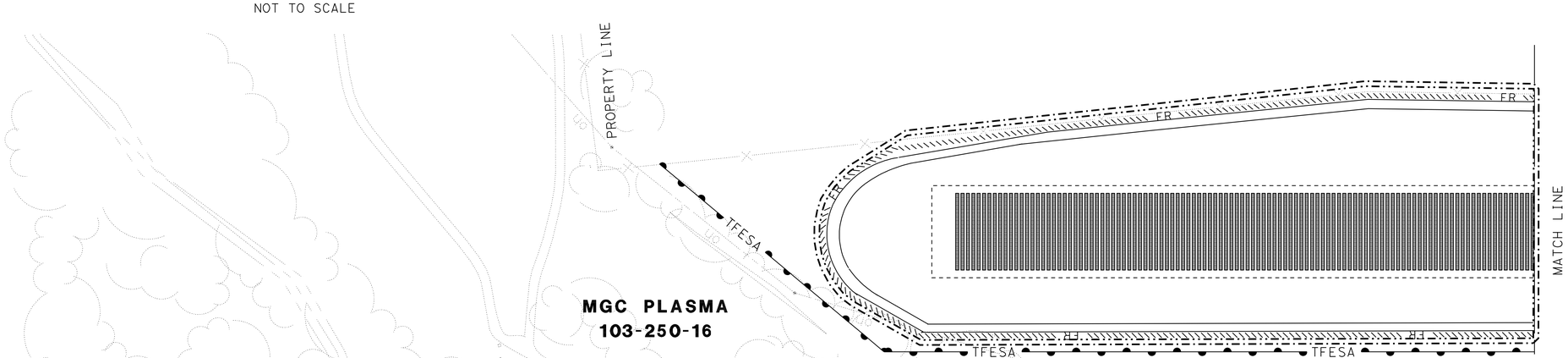
- FR — TEMPORARY FIBER ROLL
- TFESA — TEMPORARY FENCE (TYPE ESA)
- (No.) — TEMPORARY FENCE (TYPE ESA) AREA No. (SEE SHEET Q-4)
- WINDROW
- AREA OF TEMP. HYDRALIC MULCH (BONDED FIBER MATRIX) PRIOR TO STOCKPILE
- AREA OF ROADSIDE CLEARING PRIOR TO STOCKPILE
- AREA OF HYDRALIC MULCH (BONDED FIBER MATRIX) AFTER STOCKPILE



LOCAL TOPSOIL (TYPE 2) WINDROW SECTION

NOT TO SCALE





LOCAL TOPSOIL PLACEMENT CONSTRUCTION DETAILS (TYPE 2 STOCKPILE LOCATION)

SCALE 1:1000

C-102

2 ADDED PER ADDENDUM No. 2 DATED JULY 2, 2012

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: J. WILLIAMSON
CHECKED BY
REVISED BY / DATE REVISED

LAST REVISION 06-22-12 | DATE PLOTTED => 02-JUL-2012 | TIME PLOTTED => 10:45

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	173	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

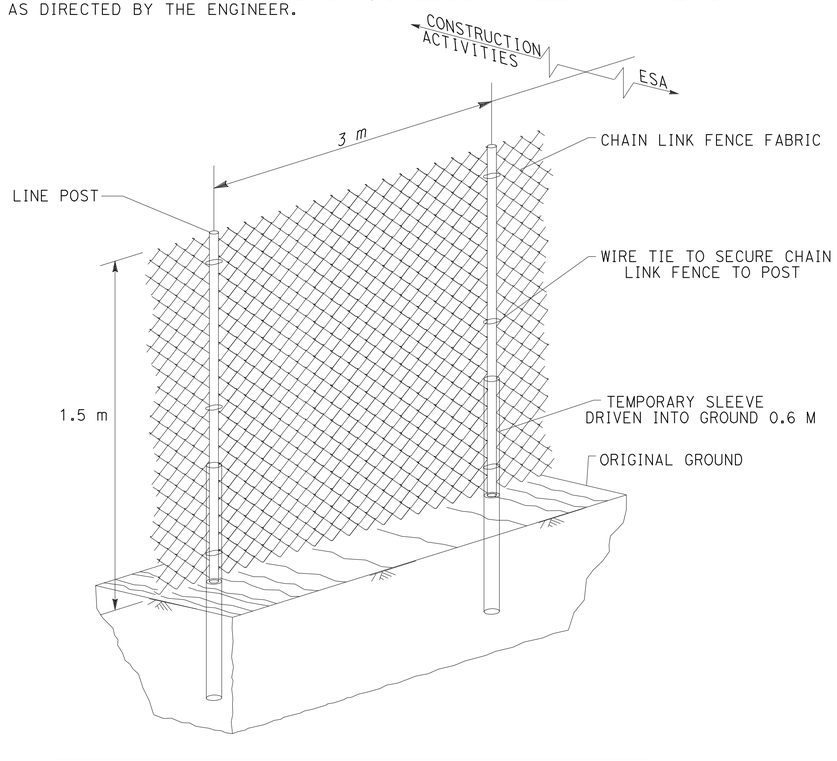
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. 48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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 2

NOTES:

1. TEMPORARY SILT FENCE AND TEMPORARY STRAW BALE BARRIER SHOWN FOR REFERENCE PURPOSES ONLY.
2. TEMPORARY SILT FENCE AND TEMPORARY FENCE (TYPE ESA) SHALL BE INSTALLED 23 METERS MINIMUM UPSTREAM AND DOWNSTREAM ALL STRUCTURES AND TEMPORARY STREAM CROSSINGS AND DIVERSIONS AND AS DIRECTED BY THE ENGINEER.
3. IN AREAS DESIGNATED AS WETLANDS OR ENVIRONMENTALLY SENSITIVE AREAS, TEMPORARY SILT FENCE AND TEMPORARY FENCE (TYPE ESA) SHALL BE INSTALLED 1 METER BEYOND EARTHWORK CATCH POINTS, CONSTRUCTION AND TREATMENT BMPS, DRAINAGE FACILITIES, AND AS DIRECTED BY THE ENGINEER
4. TEMPORARY FENCE (TYPE ESA-FLOODWAY) SHALL BE INSTALLED WITHIN THE FLOODWAY AS DIRECTED BY THE ENGINEER.



DIMENSIONS						
CHAIN LINK FENCE HEIGHT (M)	LINE POSTS			TEMPORARY SLEEVE		
	NPS (mm)	ROLL FORMED (mm)	LENGTH (M)	NPS (mm)	ROLL FORMED (mm)	LENGTH (M)
1.5	40	48 x 41	1.5	50	51 x 44	1.2

1. Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
2. Other sections which comply with the strength requirements and other provisions of the Specifications may be used on approval of the Engineer.
3. Dimensions shown are nominal.

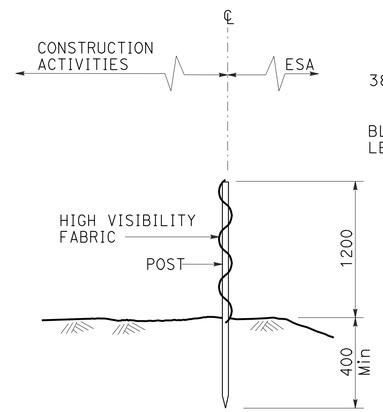
TEMPORARY FENCE (TYPE ESA-FLOODWAY)

(SEE NOTE 4)

2 **REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012**

ABBREVIATION

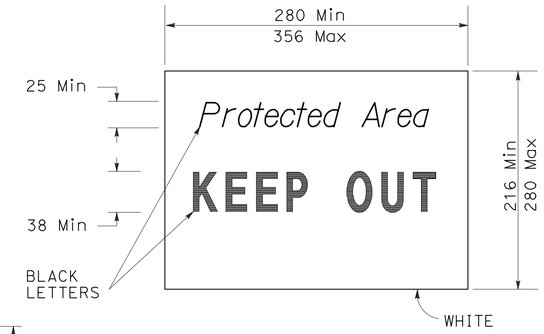
ESA - ENVIRONMENTALLY SENSITIVE AREA



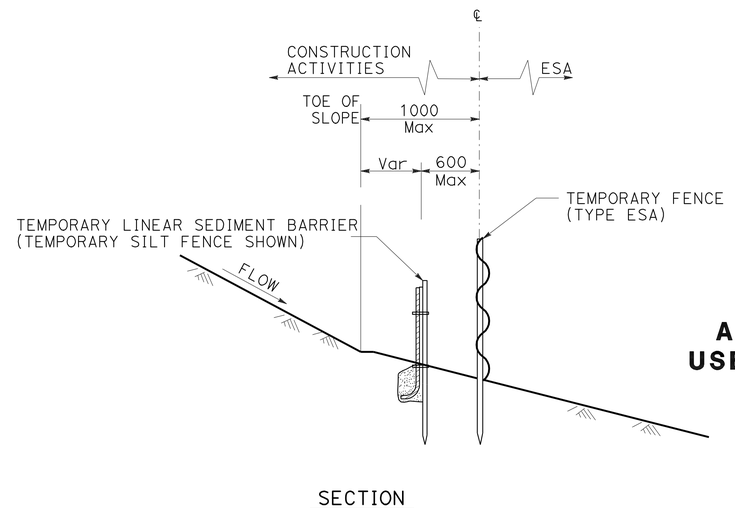
SECTION

TEMPORARY FENCE (TYPE ESA)

(SEE NOTE 2 AND 3)



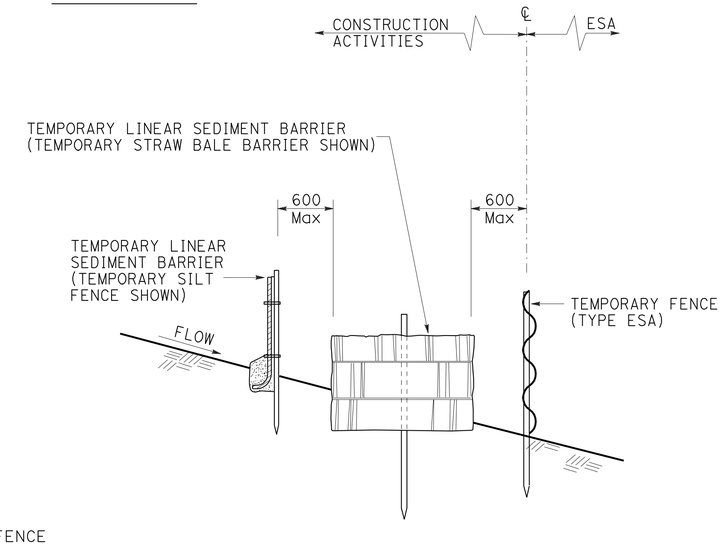
SIGN DETAIL



SECTION

PLACEMENT DETAIL FOR TEMPORARY SILT FENCE USED WITH TEMPORARY FENCE (TYPE ESA)

(SEE NOTE 1 AND 3)



SECTION

PLACEMENT DETAIL FOR TEMPORARY SILT FENCE AND TEMPORARY STRAW BALE BARRIER USED WITH TEMPORARY FENCE (TYPE ESA)

(SEE NOTE 1)

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

TEMPORARY WATER POLLUTION CONTROL DETAILS

NO SCALE

WPCD-1

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

FUNCTIONAL SUPERVISOR: DAVID G. KELLEY
CALCULATED-DESIGNED BY: ERIC SOUZA
CHECKED BY: J.A. HUERTA
REVISED BY
DATE REVISED

LAST REVISION 01/16/10
DATE PLOTTED => 02-JUL-2012
TIME PLOTTED => 10:45

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	233	939

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

1-23-12
PLANS APPROVAL DATE

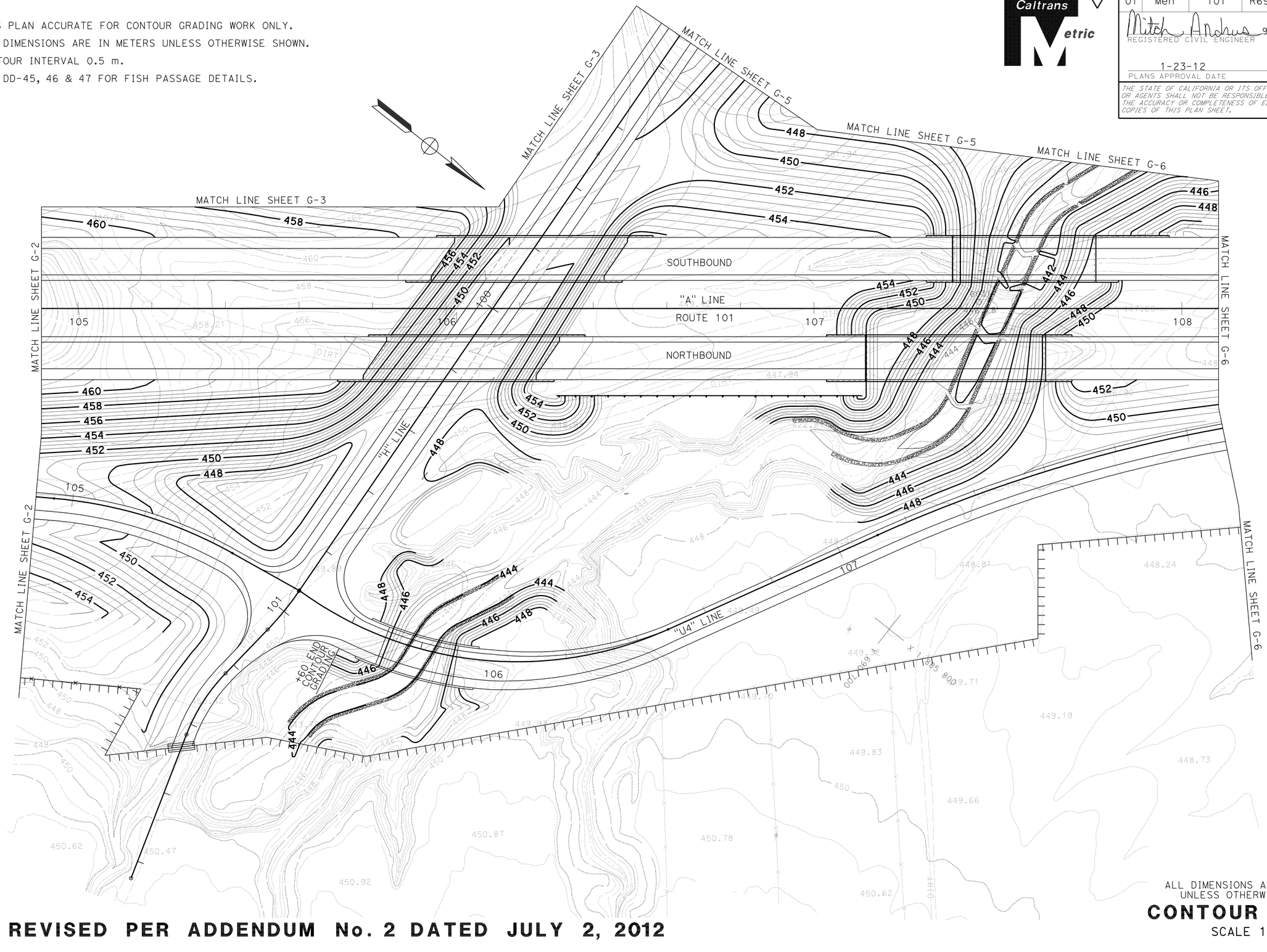
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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 2

NOTES:

1. THIS PLAN ACCURATE FOR CONTOUR GRADING WORK ONLY.
2. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
3. CONTOUR INTERVAL 0.5 m.
4. SEE DD-45, 46 & 47 FOR FISH PASSAGE DETAILS.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

CONTOUR GRADING

SCALE 1:500

G-4

2 **REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012**

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 | DATE PLOTTED => 02-JUL-2012 | TIME PLOTTED => 10:45

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	234	939

Caltrans Metric

2

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

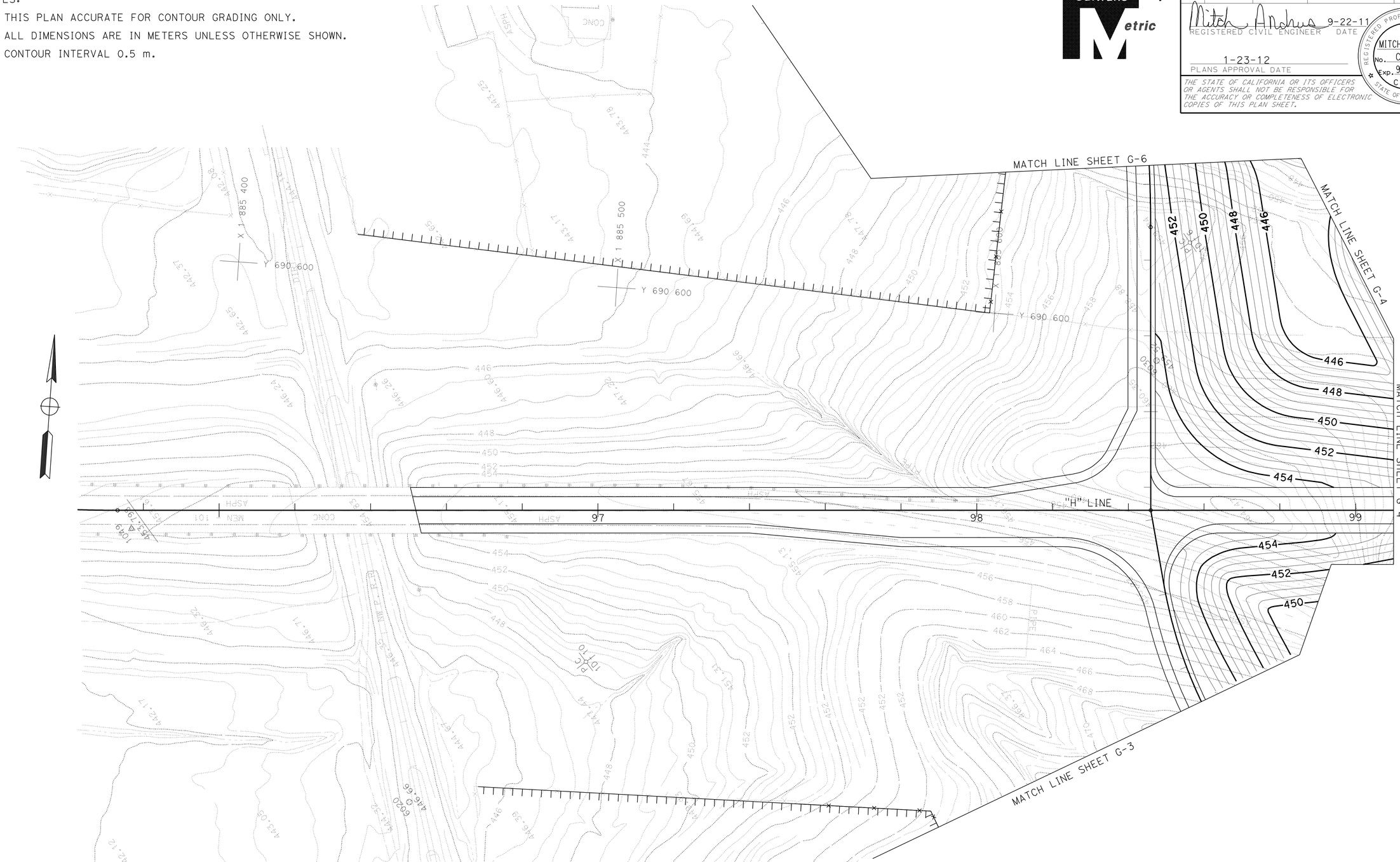
1-23-12
PLANS APPROVAL DATE

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. THIS PLAN ACCURATE FOR CONTOUR GRADING ONLY.
2. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
3. CONTOUR INTERVAL 0.5 m.



2 REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

CONTOUR GRADING

SCALE 1:500

G-5

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 | DATE PLOTTED => 02-JUL-2012 | TIME PLOTTED => 10:45

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s124496
DGN FILE => 0100000005ha005.add

CU 03226

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	235	939

Caltrans Metric 2

Mitch Andrus 9-22-11
REGISTERED CIVIL ENGINEER DATE

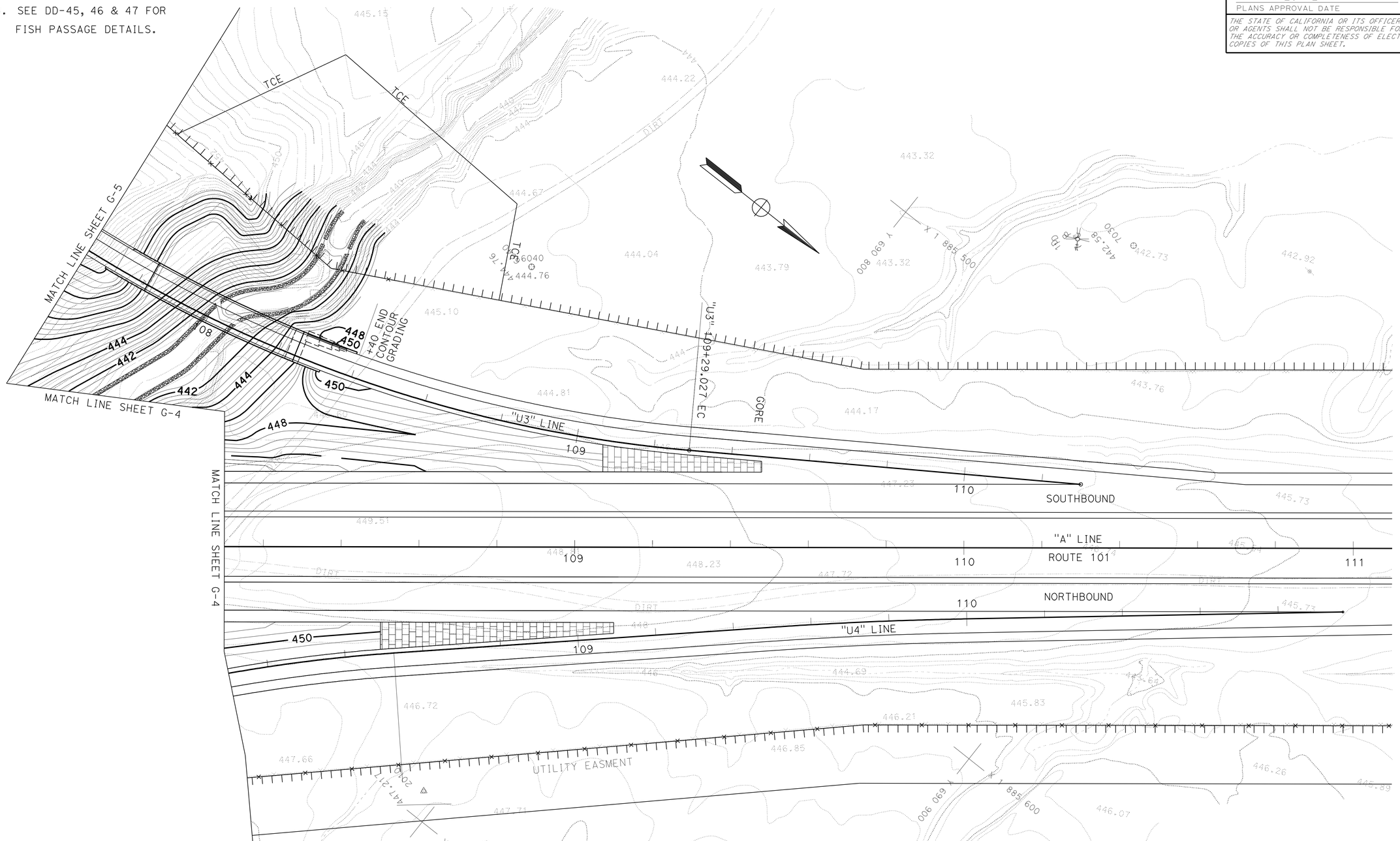
1-23-12
PLANS APPROVAL DATE

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. THIS PLAN ACCURATE FOR CONTOUR GRADING ONLY.
2. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
3. CONTOUR INTERVAL 0.5 m.
4. SEE DD-45, 46 & 47 FOR FISH PASSAGE DETAILS.



2 REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

CONTOUR GRADING

SCALE 1:500

G-6

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 DATE PLOTTED => 02-JUL-2012 TIME PLOTTED => 10:46

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	515	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

METAL BEAM GUARD RAILING

STATION TO STATION						MBGR (WOOD POST) (m)	END ANCHOR ASSEMBLY (TYPE SFT) (EA)	ALTERNATIVE FLARED TERMINAL SYSTEM (EA)	TRANSITION RAILING (TYPE WB) (EA)	WEED CONTROL MAT (FIBER) (m^2)	CRASH CUSHION (TYPE CAT) (EA)	CRASH CUSHION (TYPE CAT) BACKUP (EA)	DOUBLE MBGR (WOOD POST) (m)	END CAP (TYPE A) (EA)
RT	"A" NB	97+10.50	RT	"A" NB	97+33.33	11.40	1	1		39				
LT	"A" SB	97+16.50	LT	"A" SB	97+77.33	49.40	1	1		179*				
RT	"A" NB	102+85.49	RT	"A" NB	105+70.52	266.00		1	1	318				
LT	"A" NB	105+20.00	LT	"A" NB	105+78.90	7.60			1	170	1	1	30.40	
LT	"H"	96+49.92	LT	"H"	97+75.35	106.40		1	1	162				
RT	"H"	96+53.35	RT	"H"	96+83.78	11.40		1	1	57				
LT	"H"	100+56.22	LT	"U4"	105+64.62	22.80		1	1	61				
RT	"U4"	105+64.61	LT	"H"	101+40.00	34.20		1	1	66				
RT	"A" NB	106+29.41	RT	"A" NB	107+03.38	66.40			1	89				1
LT	"A" NB	106+55.86	LT	"A" NB	107+03.38	7.60			1	118	1	1	26.60	
RT	"A" SB	106+47.90	RT	"A" SB	107+06.80	7.60			1	169	1	1	30.40	
LT	"A" SB	106+56.28	LT	"A" SB	107+30.52	66.70			1	83				1
RT	"A" SB	107+82.76	RT	"A" SB	108+41.66	7.60			1	169	1	1	30.40	
LT	"A" SB	107+96.56	LT	"A" SB	108+53.59	38.00		1	1	79				
LT	"U3"	108+39.23	LT	"U3"	108+73.46	15.20		1	1	50				
RT	"U3"	108+31.77	RT	"U3"	108+50.80	0.00		1	1	49				
RT	"U4"	106+63.00	RT	"U4"	107+20.03	45.60		1	1	257*				
LT	"AS"	50+66.48	LT	"A"	125+59.99	300.20		1	1	358				
RT	"A"	125+30.26	RT	"A"	125+56.89	7.60		1	1	58				
RT	"A"	126+14.39	RT	"A"	126+33.42	0.00		1	1	46				
LT	"A"	126+19.19	LT	"A"	128+63.00	224.30		1	1	343				
RT	"A"	133+80.96	RT	"A"	134+07.59	7.60		1	1	40				
LT	"A"	133+88.65	LT	"A"	134+07.68	0.00		1	1	44				
RT	"A"	134+71.87	RT	"A"	134+90.90	0.00		1	1	36				
LT	"A"	134+68.89	LT	"A"	134+96.83	15.20		1	1	59				
LT	"A"	145+92.00	LT	"A"	146+00.00	0.00		1	1	20				
LT	"A"	147+10.00	LT	"A"	148+70.20	144.00			2	161				
RT	"A"	148+43.57	RT	"A"	148+70.20	7.60		1	1	49				
LT	"W"	167+76.55	LT	"W"	171+49.13	357.20			2	402				
RT	"W"	167+76.55	RT	"W"	167+95.58	0.00		1	1	41				
RT	"W"	171+42.66	RT	"W"	171+61.69	0.00		1	1	37				
LT	"W"	172+35.10	LT	"QM1"	177+32.93	478.80		1	1	547				
RT	"W"	172+49.03	RT	"W"	172+68.06	0.00		1	1	540				
LT	"NW1"	175+85.31	LT	"W"	177+79.19	178.60		1	1	229				
RT	"W"	177+56.45	RT	"W"	177+83.08	7.60		1	1	43				
LT	"W"	178+28.77	LT	"W"	179+30.85	86.90			2	111				
RT	"W"	178+33.10	RT	"W"	178+52.13	0.00		1	1	38				
RT	"W"	179+09.32	RT	"W"	179+35.95	7.60		1	1	41				
LT	"QM4"	179+34.18	LT	"QM4"	179+53.21	0.00		1	1	45				
RT	"QM4"	179+34.02	RT	"QM4"	179+53.05	0.00		1	1	36				
LT	"QM3"	179+42.51	LT	"NW2"	182+51.61	288.80		1	1	346				
RT	"QM3"	179+48.55	RT	"QM3"	179+67.58	0.00		1	1	41				
LT	"W"	179+73.74	LT	"W"	180+00.37	7.60		1	1	57				
RT	"W"	179+81.33	RT	"W"	180+00.36	0.00		1	1	37				
LT	"NW2"	185+02.00	LT	"NW2"	180+85.66	60.80		2		294*				
RT	"NW2"	185+28.00	RT	"NW2"	185+92.66	41.80		2		224*				
	** ONE AND TWO POST WEED CONTROL									163**				
					TOTAL	2986.10	2	39	45	6601	4	4	117.80	2

* INCLUDES WEED CONTROL MAT (FIBER) AROUND ELECTRICAL CABINETS. SEE E-1 TO E-14.
** SEE SHEETS PD-1 TO PD-32 FOR SIGN POST LOCATIONS.

REMOVE CATTLE GUARD

SHEET	DESCRIPTION	QUANTITY (EA)
L-9	RT "AN" 30+71	1
L-9	LT "AS" 41+05	1
	TOTAL:	2

METAL CATTLE GUARD (7.2 M)

SHEET	DESCRIPTION	QUANTITY (EA)
L-5	"H" 101+44	1
	TOTAL:	1

ABANDON WATER WELL

SHEET	DESCRIPTION	QUANTITY (EA)
L-31	34 LT "W" 178+22.00	1
L-30	26 LT "W" 178+37.00	1
L-30	11 LT "W" 178+39.50	1
	TOTAL:	3

REMOVE METAL BEAM GUARD RAILING

STATION TO STATION						QUANTITY (m)
RT	"A"	101+46.76	RT	"A"	103+43.90	199
LT	"H"	96+49.92	LT	"H"	98+04.04	155
RT	"H"	96+53.35	RT	"H"	96+78.87	26
RT	"F"	16+80.00	RT	"F"	17+25.00	45
					TOTAL:	425

CLEARING AND GRUBBING

65 HA

IMPORTED MATERIAL (SHOULDER BACKING)

STATION TO STATION					(N) (M^3)	QUANTITY (TONNE)
OVERLAY	"A" SB	LT SHLD	96+00.00	97+16.50	6.12	15.29
OVERLAY + DIKE(TYPE F)	"A" SB	LT SHLD	97+16.50	97+66.00	5.07	12.68
OVERLAY + DIKE(TYPE C)	"A" SB	LT SHLD	97+66.00	97+85.00	1.47	3.68
OVERLAY	"A" SB	LT SHLD	97+85.00	99+40.00	8.14	20.34
OVERLAY	"A" SB	RT SHLD	96+00.00	99+00.00	15.75	39.38
OVERLAY	"A" NB	LT SHLD	96+00.00	100+80.00	25.20	63.00
OVERLAY	"A" NB	RT SHLD	96+00.00	97+02.50	5.38	13.45
OVERLAY + DIKE(TYPE C)	"A" NB	RT SHLD	97+02.50	97+22.00	1.51	3.78
OVERLAY + DIKE(TYPE F)	"A" NB	RT SHLD	97+22.00	97+33.33	1.16	2.90
OVERLAY	"A" NB	RT SHLD	97+22.00	97+33.33	18.20	45.50
OVERLAY + DIKE(TYPE F)	"H"	LT SHLD	96+49.92	97+23.00	7.49	18.73
OVERLAY + DIKE(TYPE F)	"H"	RT SHLD	96+53.35	96+72.00	1.91	4.78
OVERLAY + DIKE(TYPE C)	"H"	RT SHLD	96+72.00	96+92.00	1.55	3.88
OVERLAY	"H"	RT SHLD	96+92.00	97+23.00	1.63	4.07
OVERLAY	"CV"	LT SHLD	8+90.00	11+30.00	5.40	13.50
OVERLAY	"CV"	RT SHLD	8+90.00	11+30.00	5.40	13.50
OVERLAY	"F"	LT SHLD	12+00.00	18+50.00	34.13	85.31
OVERLAY	"F"	RT SHLD	12+00.00	18+50.00	34.13	85.31
				TOTAL:	179.64	449.08

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

3.0 M WIRE MESH GATE

SHEET	DESCRIPTION	QUANTITY (EA)
L-30	"B" 11+00	2
	TOTAL:	2

3.7 M WIRE MESH GATE

SHEET	DESCRIPTION	QUANTITY (EA)
L-5	"H" 101+44	2
	TOTAL:	2

2 **REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012**

2

ROADSIDE CLEARING

SHEET	(m^2) (N)
C-102	52,600
TOTAL	52,600

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-2

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 11-29-11 | DATE PLOTTED => 02-JUL-2012 | TIME PLOTTED => 10:46

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	517	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

TEMPORARY FENCE (TYPE ESA)

AREA NUMBER (#)	SHEET NUMBER L-#	LOCATION				LENGTH m
1	1,2	L+	"A" 96+00.000	L+	"A" 101+00.000	577
2	1,2	R+	"A" 96+00.000	R+	"A" 100+80.000	522
3	2-4,6	L+	"U1" 99+48.581	R+	"H" 96+53.350	915
4	2,3	R+	"U2" 100+80.000	R+	"U2" 103+03.500	237
5	3,5	R+	"U2" 103+27.000	R+	"H" 101+52.678	282
6	5	L+	"H" 101+42.000			28
7	5	R+	"U4" 105+68.730	R+	"U4" 105+79.500	27
8	5	R+	"U4" 105+87.432	R+	"U4" 106+02.486	24
9	6,8	L+	"H" 97+47.635	L+	"U3" 108+71.844	364
10	8	L+	"U3" 108+93.884	L+	"U3" 109+39.379	47
11	5,8	R+	"U4" 106+57.974	L+	"U3" 108+32.010	183
12	8-10	L+	"U3" 109+93.570	L+	"AS" 44+00.418	709
13	8-10	R+	"U4" 110+52.557	R+	"AN" 33+11.952	421
14	10	R+	"AN" 33+36.804	R+	"AN" 33+59.372	46
15	10	R+	"AN" 33+80.000			22
16	10	L+	"AS" 44+14.289	L+	"AS" 45+98.632	192
17	10-13	R+	"AN" 34+34.890	R+	"A" 125+92.062	991
18	11-13	L+	"AS" 46+33.382	L+	"A" 125+86.957	810
19	13-15	R+	"A" 125+87.013	R+	"A" 133+07.095	810
20	14,15	L+	"A" 128+26.127	L+	"A" 131+70.532	418
21	15	L+	"A" 131+97.357	L+	"A" 133+85.502	235
22	15,16	R+	"A" 133+22.745	R+	"A" 134+31.966	129
23	15,16	L+	"A" 134+14.386	R+	"A" 134+71.144	124
24	16	L+	"A" 134+32.617	R+	"A" 134+82.535	118
25	16	L+	"A" 134+74.230	L+	"A" 136+35.734	203
26	16-20	R+	"A" 135+15.468	R+	"CV" 10+92.070	1812
27	16-18	L+	"A" 136+42.236	L+	"A" 141+60.489	565
28	18-19	L+	"A" 141+65.134	L+	"A" 146+08.593	482
29	19,20	L+	"A" 146+18.641	L+	"A" 148+68.853	306
30	20	L+	"CV" 9+31.956	L+	"CV" 9+58.245	67
60	26	L+	"W" 167+17.474	R+	"W" 167+60.492	103
61	26,27	L+	"W" 167+17.474	L+	"W" 171+61.636	458
62	26,27	R+	"W" 167+60.492	R+	"W" 172+27.736	552
63	27	L+	"W" 171+61.636	R+	"W" 172+27.736	109
64	27	L+	"W" 171+01.085	R+	"W" 172+39.042	98
65	27	L+	"W" 171+01.085	L+	"NW1" 172+95.872	122
66	27	L+	"W" 172+39.232	L+	"NW1" 172+95.872	63
67	27,28,30	R+	"W" 172+39.042	R+	"B" 11+10.953	701
68	29	L+	"D" 21+65.908	L+	"D" 22+16.057	61
69	29,31	L+	"D" 22+32.529	L+	"F" 10+67.640	328
70	30,32	L+	"B" 11+10.953	R+	"QM4" 179+60.804	226
71	31	L+	"F" 10+77.550	L+	"F" 10+91.868	35
72	31	L+	"F" 10+96.323	L+	"F" 11+10.280	23
73	31,32	R+	"F" 11+62.024	L+	"QM3" 179+02.132	309
74	32	L+	"QM3" 179+02.132	R+	"QM4" 179+02.132	151
75	32	L+	"QM3" 179+99.207	R+	"QM4" 179+96.831	140
76	32,34,35	L+	"QM3" 179+99.207	L+	"F" 14+70.500	668
77	32,34-36	R+	"QM4" 179+96.831	R+	"NW2" 190+70.000	1152
78	31,33-35	R+	"F" 11+62.024	L+	"F" 18+33.967	676
79	31,33,34	L+	"F" 11+14.550	L+	"F" 16+70.500	567
80	34	L+	"F" 16+82.836	L+	"F" 17+32.997	51
81	34	L+	"F" 17+30.061	L+	"F" 19+07.578	59
82	34,35	L+	"F" 18+21.487	L+	"F" 10+04.194	85
83	35	L+	"F" 19+12.410	L+	"DW10" 10+42.03	183
84	35,36	R+	"DW10" 10+42.03	L+	"NW2" 190+70.000	353
85	102+		LOCAL TOPSOIL (TYPE 2) STOCKPILE LOCATION			720
					TOTAL:	19659

+ FOR AREA NUMBER 85, SEE SHEET C-102.

2 **REVISED PER ADDENDUM No. 2, DATED JULY 2, 2012**

TEMPORARY FENCE (TYPE ESA - FLOODWAY)

AREA NUMBER (#)*	SHEET NUMBER L-#	LOCATION				LENGTH m
40	20	L+	"CV" 10+97.685	L+	"W" 40+97.008	148
41	20	L+	"CV" 11+11.348	L+	"W" 151+09.173	154
42	20,21	L+	"W" 151+09.173	L+	"W" 153+36.431	218
43	20,21	R+	"W" 150+07.827	R+	"W" 153+54.195	290
44	21	L+	"W" 153+36.431	R+	"W" 153+54.195	67
45	21	L+	"W" 153+49.623	R+	"W" 153+66.468	66
46	21-24	L+	"W" 153+49.623	L+	"W" 161+54.872	778
47	21-24	R+	"W" 153+66.468	R+	"W" 162+73.837	937
48	24	L+	"W" 161+54.872	R+	"W" 162+73.837	136
49	24	L+	"W" 161+95.429	L+	"W" 162+27.779	94
50	24	L+	"W" 162+38.065	R+	"W" 162+99.383	93
51	24	L+	"W" 162+38.065	L+	"W" 162+93.855	64
52	24,25	R+	"W" 162+99.383	R+	"W" 165+13.982	224
53	24,25	L+	"W" 163+65.293	L+	"W" 164+63.895	97
54	25	L+	"W" 164+63.895	R+	"W" 165+13.982	81
55	25	L+	"W" 165+01.206	R+	"W" 165+50.850	89
56	25,26	L+	"W" 165+01.206	L+	"W" 167+13.061	204
57	25,26	R+	"W" 165+50.850	R+	"W" 167+28.900	183
58	26	L+	"W" 167+13.061	R+	"W" 167+28.900	66
					TOTAL:	3989

FENCE (TYPE WM, METAL POST)

STATION TO STATION						QUANTITY (m)
"A"	R+	177+48.00	"H"	R+	177+68.00	938.3
"U1"	L+	101+43.03	"H"	R+	97+52.00	451.5
"H"	L+	101+44.90	"A"	R+	125+64.42	2038.3
"U3"	L+	107+26.00	"U3"	L+	108+43.76	111.4
"AS"	L+	47+58.09	"A"	L+	125+91.65	661.6
"A"	R+	125+78.38	"A"	R+	134+13.60	940.5
"A"	L+	126+06.99	"A"	L+	134+13.60	797.4
"A"	R+	134+62.60	"A"	R+	149+42.00	1462.1
"A"	L+	134+62.60	"A"	L+	146+00.00	1226.1
"W"	L+	167+24.09	"W"	L+	171+68.49	463.0
"W"	R+	167+45.22	"W"	R+	171+80.38	551.7
"W"	L+	172+25.59	"QM1"	L+	177+43.48	597.6
"W"	R+	172+39.54	"B"	R+	11+11.00	582.9
"D"	R+	22+74.28	"QM1"	L+	176+92.88	126.0
"D"	L+	22+73.62	"F"	L+	10+67.64	277.8
"F"	L+	10+77.55	"F"	L+	11+10.28	65.2
"F"	L+	11+14.55	"F"	L+	11+62.02	55.0
"QM3"	L+	178+91.26	"NW2"	L+	188+35.88	1076.0
"B"	L+	11+11.00	"NW2"	R+	190+21.43	1145.4
					TOTAL:	13567.8

FENCE (TYPE BW, 5 STRAND, METAL POST)

STATION TO STATION						QUANTITY (m)
"W"	L+	150+15.60	"W"	L+	153+17.65	215.3
"W"	R+	151+51.77	"W"	R+	153+54.23	202.5
"W"	L+	153+49.67	"W"	L+	161+76.08	784.9
"W"	R+	153+66.51	"W"	R+	162+14.15	874.3
"W"	L+	161+76.08	"W"	R+	162+14.15	76.1
"W"	R+	163+20.00	"W"	L+	163+80.00	84.8
"W"	R+	163+20.00	"W"	R+	167+45.22	439.2
"W"	L+	163+80.00	"W"	L+	167+24.09	332.8

TEMPORARY FENCE (TYPE BW)

STATION TO STATION						QUANTITY (m)
"A"	R+	150+16.84	"W"	R+	151+51.77	71.3
					TOTAL:	71.3

REMOVE FENCE

LOCATION					QUANTITY (m)
	LINE	FROM STATION	LINE	TO STATION	
L+	U1	101+43.02	U1	102+99.72	136.2
R+	A	96+00.00	U4	105+88.95	989.1
R+	U4	106+40.33	AN	35+26.05	1065.4
R+	AN	39+90.00			42.6
R+	A	124+00.00			77.7
R+	A	130+40.00			62.8
R+	A	131+40.00			58.4
L+	A	133+90.00			20.8
R+	A	134+30.00			40.9
L+	A	134+72.00			19.3
R+	A	135+00.00			57.0
R+	A	135+85.00			74.9
R+	A	135+92.00			47.8
L+	A	136+33.00			14.3
L+	A	136+40.00			18.3
R+	A	138+07.00			48.3
L+	A	138+31.00			25.6
L+	A	140+53.00			47.3
R+	A	140+57.00			24.8
R+	A	141+95.00			25.9
R+	A	147+23.00			45.3
L+	A	148+75.00			14.0
L+/R+	A	149+00.00			84.0
R+	A	149+30.00			49.0
R+	W	151+20.00			186.0
L+	W	151+25.00			53.0
L+	W	169+38.00			6.4
R+	W	169+75.00			33.9
R+	W	170+35.00			60.6
L+	W	172+72.00			5.4
R+	QM2	175+25.00			16.8
L+	QM1	175+45.00			13.0
L+	QM1	175+75.00			10.2
L+	QM1	176+70.00			10.9
R+	QM2	176+55.00			22.9
L+	QM1	176+65.00			19.4
R+	QM2	177+85.00			19.4
R+	F	11+44.05	F	14+25.55	281.7
R+	F	14+44.70	F	15+68.50	124.0
L+	NW2	182+71.73	NW2	184+36.50	171.0
				TOTAL:	4124.3

SUMMARY OF QUANTITIES

Q-4

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 11-29-11 DATE PLOTTED => 02-JUL-2012 TIME PLOTTED => 10:46

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9	520	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

DRAINAGE WICK

FROM	TO	DRAINAGE WICK (m)
Br No. 10-0165	Br No. 10-0171	278 182.8
Br No. 10-0171	Br No. 10-0173	735 336.0
Br No. 10-0173	Br No. 10-0174K Br No. 10-0174 Br No. 10-0174S	252 579.6
Br No. 10-0174K Br No. 10-0174 Br No. 10-0174S	Sta 180+55	78 044.4
TOTAL		1 344 142.8

TEMPORARY SUMP SYSTEM

NUMBER	LOCATION (℄ OF DI)	EA
1	"W" 168+40.00 Rt 21.45	1
2	"W" 171+20.00 Rt 24.45	1
3	"NW1" 173+21.00 Rt 39.45	1
4	"QM2" 175+48.00 Rt 33.45	1
5	"QM2" 177+70.00 Rt 18.45	1
6	"QM4" 179+01.00 Rt 22.45	1
7	"QM4" 180+56.00 Rt 26.45	1
	TOTAL	7

STABILIZATION TRENCH SYSTEM "U3"

CLASS 1 PERMEABLE MATERIAL	* FILTER FABRIC	300 mm PERFORATED PLASTIC PIPE UNDERDRAIN	300 mm PLASTIC PIPE
m^3	m^2	m	m
182	1234	35	18

SEE C-10 FOR LOCATION AND DETAILS.
SEE Q-1 FOR ROADWAY EXCAVATION QUANTITY.
*SEE SHEET LD-5 FOR ADDITIONAL QUANTITY FOR ROUNDABOUT.

HORIZONTAL STRIP DRAIN

FROM	TO	150 mm HORIZONTAL STRIP DRAIN (m)	300 mm HORIZONTAL STRIP DRAIN (m)
Br No. 10-0165	Br No. 10-0171	8 751	456
Br No. 10-0171	Br No. 10-0173	22 853	595
Br No. 10-0173	Br No. 10-0174K Br No. 10-0174 Br No. 10-0174S	7 495	162
Br No. 10-0174K Br No. 10-0174 Br No. 10-0174S	Sta 180+61	2 452	72
TOTAL		41 551	1 285

200 mm PLASTIC PIPE (COLLECTOR)

FROM	TO	200 mm PLASTIC PIPE (COLLECTOR) (m)
Br No. 10-0165	Br No. 10-0171	139.7
Br No. 10-0171	Br No. 10-0173	341.4
Br No. 10-0173	Br No. 10-0174K Br No. 10-0174 Br No. 10-0174S	78.8
Br No. 10-0174K Br No. 10-0174 Br No. 10-0174S	Sta 180+61	45.5
TOTAL		605.4

2 TEMPORARY WATER POLLUTION CONTROL

TEMPORARY EROSION CONTROL BLANKET	TEMPORARY FIBER ROLL	TEMPORARY SILT FENCE	TEMPORARY GRAVEL BAG BERM	TEMPORARY CONSTRUCTION ENTERANCE	TEMPORARY COVER	TEMPORARY CHECK DAM	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)
m^2	m	m	m	EA	m^2	m	EA	EA	m^2
44,800	61,000	27,000	2020	20	45,000	1170	20	158	682,000

2 REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012

SUMMARY OF QUANTITIES

Q-7

REVISED BY	DATE REVISED
MGA	05-30-11

KAO THAO — SCOTT FOSTER
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 => 02-JUL-2012 | TIME PLOTTED => 10:46

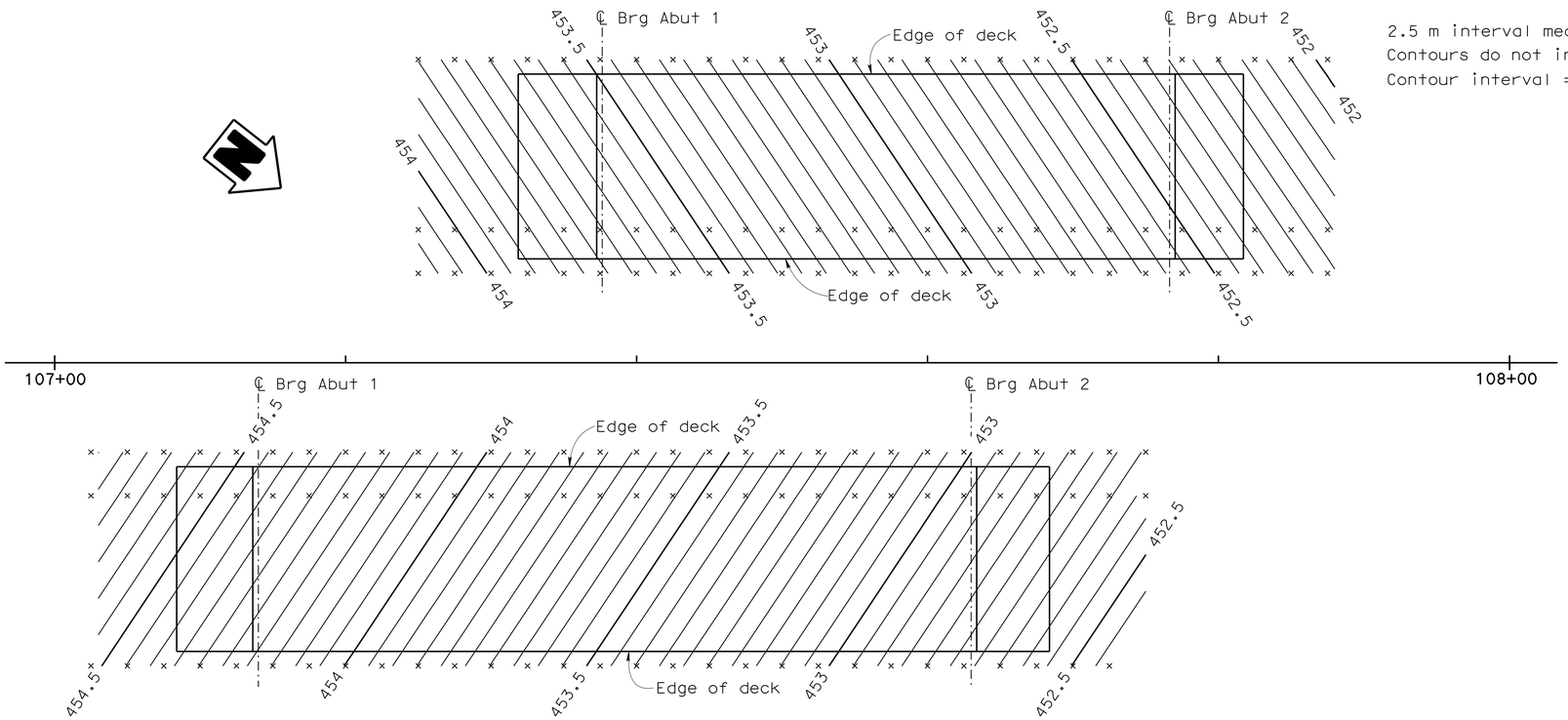
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
01	Men	101	R69.4/R78.9	683	939

REGISTERED CIVIL ENGINEER 9-15-11 DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER M. Friedheim No. 57968 Exp. 6-30-12 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.



2.5 m interval measured along station line
Contours do not include camber
Contour interval = 0.05 m

DECK CONTOURS
1:200

GENERAL NOTES (LOAD FACTOR DESIGN)

DESIGN: Bridge Design Specifications - April 2000 (LFD) (1996 AASHTO with interims and revisions by Caltrans).

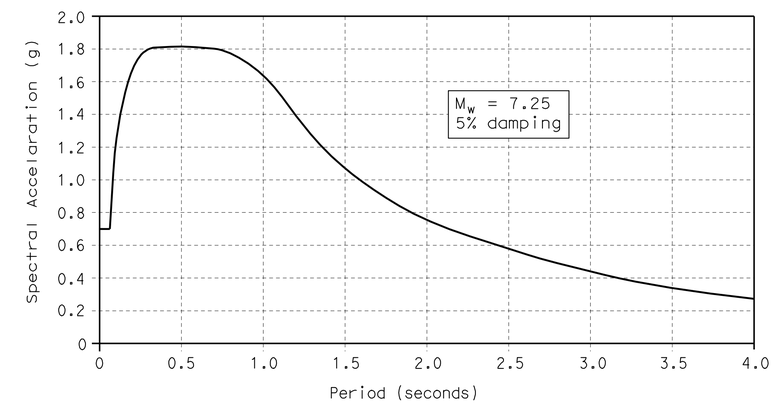
Project Specific Design Criteria - March 2009.

SEISMIC DESIGN: Caltrans Seismic Design Criteria Ver. 1.4 - June 2006.

DEAD LOAD: Includes 1675 Pa for future wearing surface. Includes 1460 N/m for future utilities.

LIVE LOAD: HS20-44 and alternative and permit design load.

SEISMIC LOADING: Modified Caltrans Seismic Design Criteria for Soil Profile Type D, PBA = 0.7 g. See Response Spectrum below.

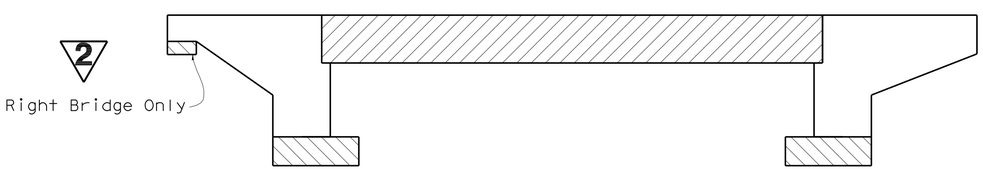


REINFORCED CONCRETE:
fy = 420 MPa
f'c = 25 MPa (See concrete strength and type limits for exceptions)

Transverse Deck Slab (working stress design)
fs = 140 MPa
f'c = 8 MPa
n = 10

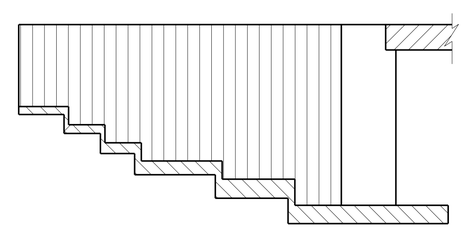
PRESTRESSED CONCRETE: See "Prestressing Notes" on Girder Layout sheet

HP STEEL PILE: A572, Grade 50



Structural Concrete, Bridge
Structural Concrete, Bridge f'_c= 28 MPa @ 28 days
Structural Concrete, Bridge Footing

CONCRETE STRENGTH AND TYPE LIMITS
No Scale



2 CONCRETE STRENGTH AND TYPE LIMITS ABUT 2L
No Scale

2 REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012

DESIGN	BY M. Abdi	CHECKED N. Nguyen
DETAILS	BY C. Figuerres	CHECKED N. Nguyen
QUANTITIES	BY T. Bui	CHECKED M. Schott

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 2

BRIDGE NO. 10-0129RL
KILOMETER POST R70.578

WILLITS BYPASS
HAEHL CREEK
DECK CONTOURS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 01
EA 262001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 1-23-09 | 3-02-05 | 10-12-05 | 11-02-05 | 12-09-05 | 10-3-06 | 1-31-07 | 2-09-07 | 4-30-08

SHEET 3 OF 26

FILE => 10-0129rl_dbdkcont.add

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

USERNAME => s124496 DATE PLOTTED => 02-JUL-2012 TIME PLOTTED => 10:49

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
01	Men	101	R69.4/R78.9	830	939

REGISTERED CIVIL ENGINEER 9-15-11 DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER M. Friedheim No. 57968 Exp. 06-30-12 CIVIL STATE OF CALIFORNIA

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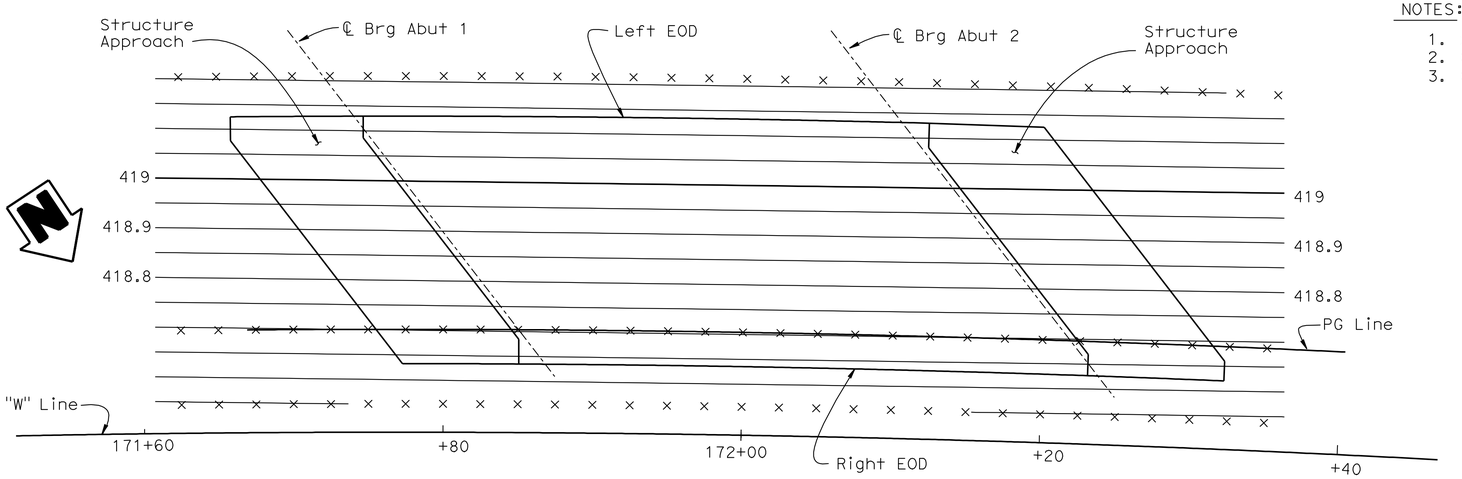
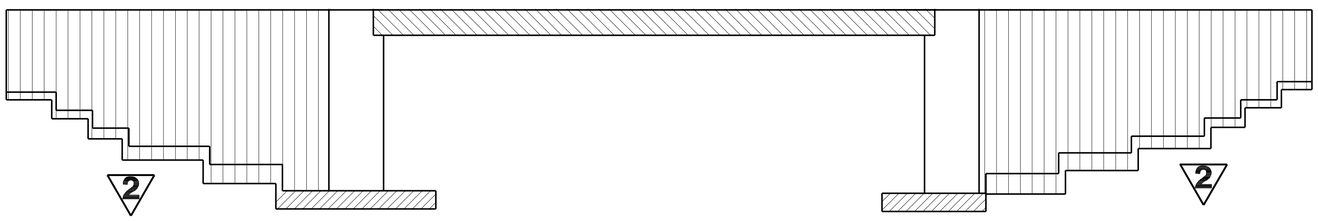
NOTES:

1. x = 2.5 m interval measured along station line
2. Contours do not include camber
3. Contour interval = 0.05 m



DECK CONTOURS

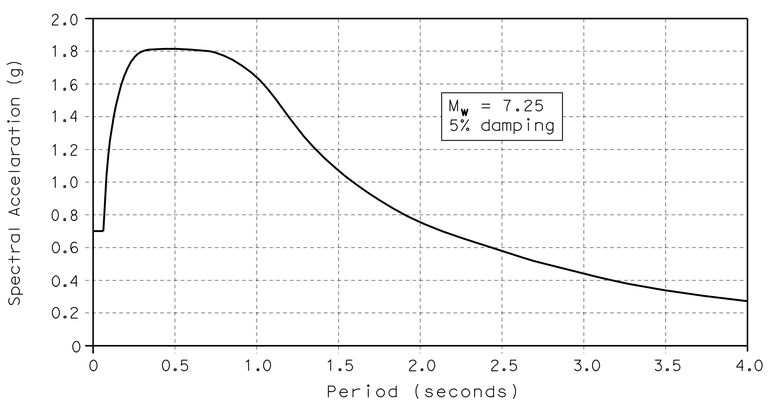
1:200



Structural Concrete, Bridge
Structural Concrete, Retaining Wall
Structural Concrete, Bridge (28 Mpa @ 28 days)
Structural Concrete, Bridge Footing

CONCRETE STRENGTH AND TYPE LIMITS

1:200



GENERAL NOTES (LOAD FACTOR DESIGN)

DESIGN:	Bridge Design Specifications - April 2000 (LFD) (1996 AASHTO with interims and revisions by Caltrans). Project Specific Design Criteria - March 2009.
SEISMIC DESIGN:	Caltrans SDC Version 1.4 - June 2006
DEAD LOAD:	Includes 1675 Pa for future wearing surface. Includes 1460 N/m for future utilities.
LIVE LOAD:	HS20-44 and alternative and permit design load.
SEISMIC LOADING:	Modified Caltrans Seismic Design Criteria for Soil Profile Type D, PBA = 0.7 g. See Response Spectrum below.
REINFORCED CONCRETE:	fy = 420 MPa f'c = 25 MPa (See concrete strength and type limits for exceptions) Transverse Deck Slab (working stress design) fs = 140 MPa f'c = 8 MPa n = 10
PRESTRESSED CONCRETE:	See "Prestressing Notes" on Girder Layout sheet

2 **REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012**

Caltrans Metric

	BY	CHECKED
DESIGN	T. Bui	I. Chernioglo
DETAILS	L. Wang/G. Souza	I. Chernioglo
QUANTITIES	I. Chernioglo	T. Bui

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 2

BRIDGE NO. 10-0171
KILOMETER POST R76.807

WILLITS BYPASS
QUAIL MEADOWS OH
DECK CONTOURS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 01
EA 262001

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 11-24-08 12-15-08 01-07-09 02-11-09 02-18-09 04-24-09

SHEET 3 OF 25

FILE => 10-0171_hbdc.add

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

USERNAME => s124496 DATE PLOTTED => 02-JUL-2012 TIME PLOTTED => 10:49

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
01	Men	101	R69.4/R78.9	932	939

REGISTERED CIVIL ENGINEER 9-15-11 DATE

1-23-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER M. Friedheim No. 57968 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

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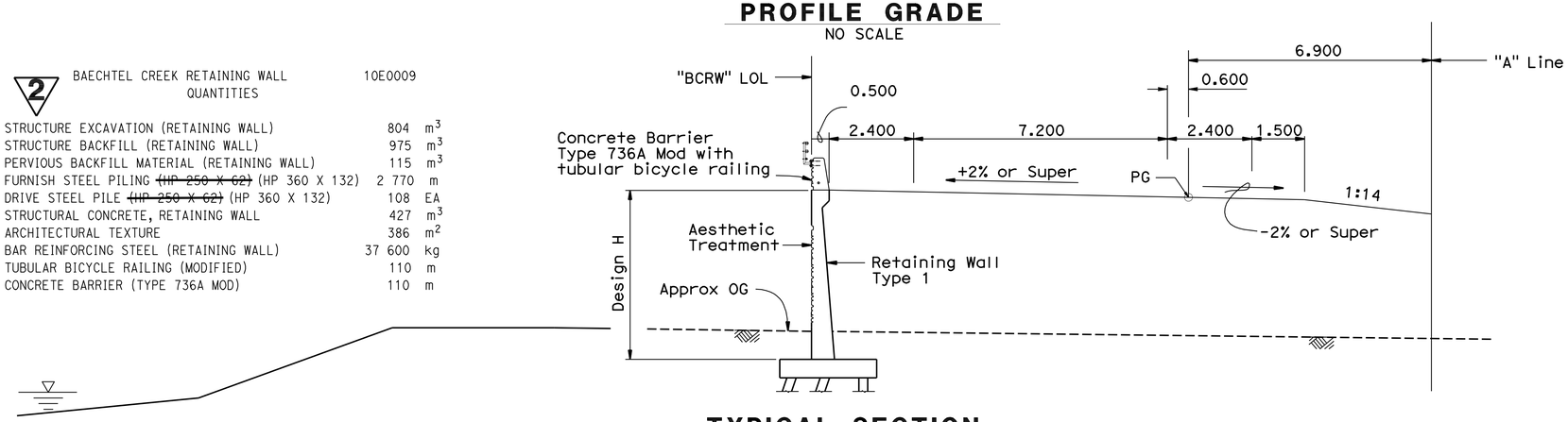
PROFILE GRADE

NO SCALE

2 BAECHTEL CREEK RETAINING WALL QUANTITIES 10E0009

STRUCTURE EXCAVATION (RETAINING WALL)	804	m^3
STRUCTURE BACKFILL (RETAINING WALL)	975	m^3
PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	115	m^3
FURNISH STEEL PILING ~~(HP 250 X 62)~~ (HP 360 X 132)	2 770	m
DRIVE STEEL PILE ~~(HP 250 X 62)~~ (HP 360 X 132)	108	EA
STRUCTURAL CONCRETE, RETAINING WALL	427	m^3
ARCHITECTURAL TEXTURE	386	m^2
BAR REINFORCING STEEL (RETAINING WALL)	37 600	kg
TUBULAR BICYCLE RAILING (MODIFIED)	110	m
CONCRETE BARRIER (TYPE 736A MOD)	110	m



TYPICAL SECTION

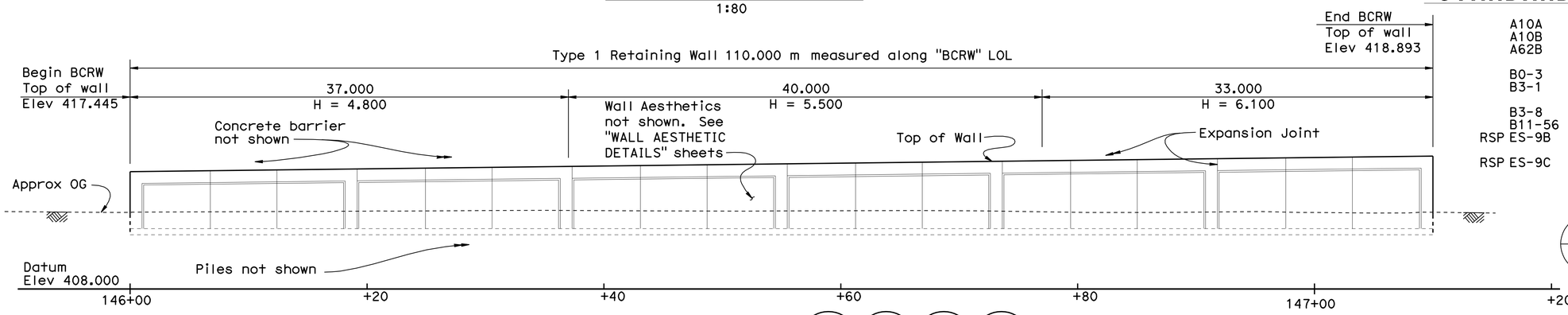
1:80

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	FOUNDATION PLAN
3	PILE LAYOUT
4	WALL AESTHETIC DETAILS NO. 1
5	WALL AESTHETIC DETAILS NO. 2
6	BARRIER AESTHETIC DETAILS
7	TUBULAR BICYCLE RAILING
8	LOG OF TEST BORINGS

STANDARD PLANS DATED JULY 2004

A10A	ABBREVIATION
A10B	SYMBOLS
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL
B0-3	BRIDGE DETAILS
B3-1	RETAINING WALL TYPE 1 H = 1200 THROUGH 9100 mm
B3-8	RETAINING WALL DETAILS NO 1.
B11-56	CONCRETE BARRIER TYPE 736
RSP ES-9B	ELECTRICAL SYSTEMS (ELECTRICAL DETAILS STRUCTURE INSTALLATIONS)
RSP ES-9C	ELECTRICAL SYSTEMS (ELECTRICAL DETAILS STRUCTURE INSTALLATIONS)



ELEVATION

1:200

B0-3 B3-1 B3-8 B11-56

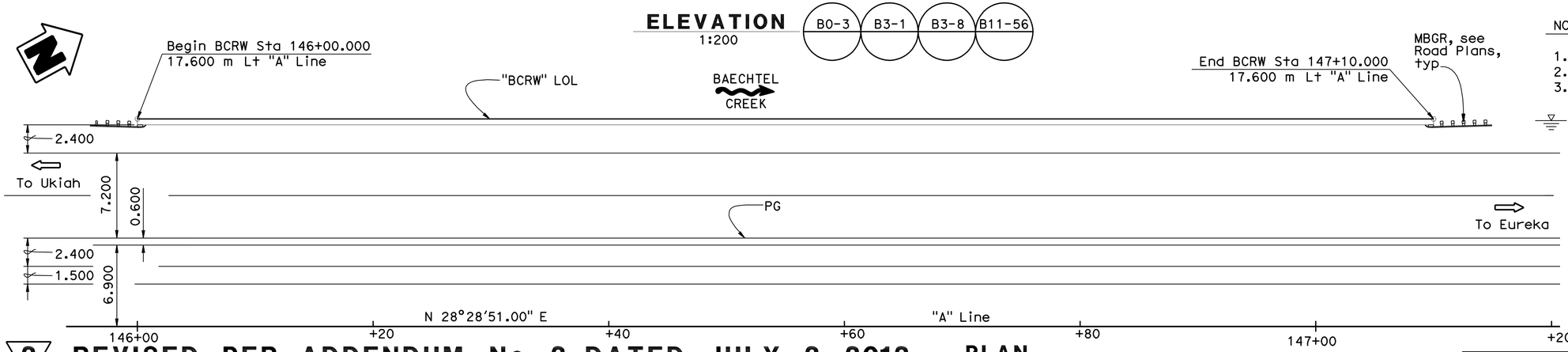
STANDARD PLAN SHEET NO.

DETAIL NO.

NOTES:

1. For General Notes, see STANDARD PLAN B3-8.
2. For Pile Data Table, see "PILE LAYOUT" sheet.
3. For TOP OF WALL ELEVATION TABLE see "Barrier Aesthetic Details" sheet.

Indicates approx. ordinary high water



2 REVISED PER ADDENDUM No. 2 DATED JULY 2, 2012

PLAN

1:200

Caltrans Metric

DESIGN ENGINEER

	BY	CHECKED				
DESIGN	J. Lee	R. Odell	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	Lily Wang	R. Odell	LAYOUT	J. Lee	R. Odell	
QUANTITIES	R. Odell	R. Macala	SPECIFICATIONS	I. Huang	PLANS AND SPECS COMPARED I. Huang	

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN

DESIGN BRANCH 2

CU 01
EA 262001

BRIDGE NO. 10E0009
KILOMETER POST R74.430

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 10-12-06 11-13-06 11-28-06 03-05-07 10-31-08 11-05-08 07-01-09

SHEET 1 OF 8

WILLITS BYPASS

BAECHTEL CREEK RETAINING WALL

GENERAL PLAN

FILE => 10e-0009_pagp.add

STRUCTURES DESIGN GENERAL PLAN SHEET (METRIC) (REV.07-24-06)

USERNAME => s124496 DATE PLOTTED => 02-JUL-2012 TIME PLOTTED => 10:49