Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	3	117

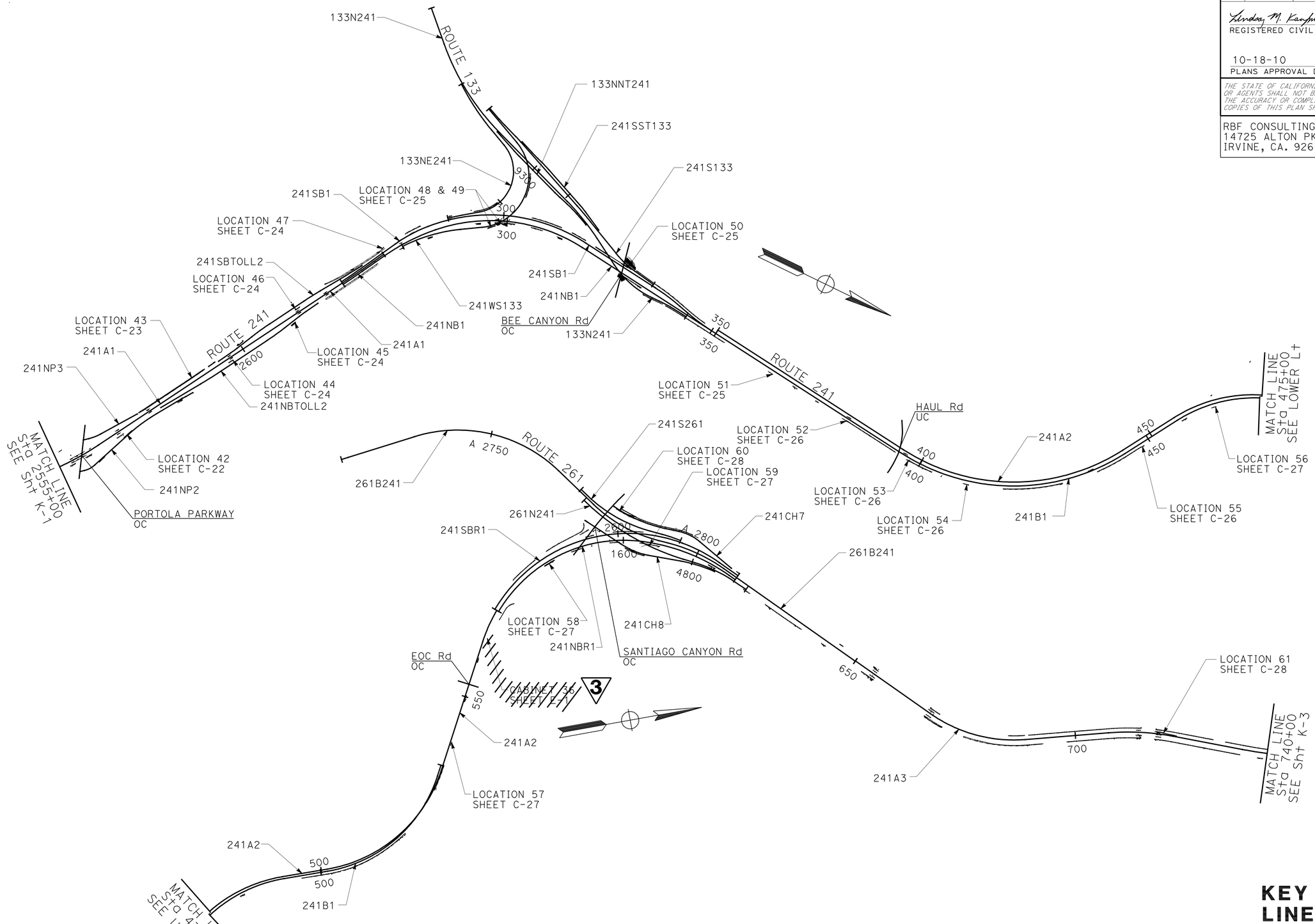
Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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

RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027



KEY MAP & LINE INDEX

SCALE: 1" = 1000'

3 REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011

K-2

REVISED BY	DATE REVISED
RK/WT	07/22/10

CALCULATED-DESIGNED BY: LINDSAY KAUFMANN
CHECKED BY: LINDSAY KAUFMANN
CONSULTANT FUNCTIONAL SUPERVISOR: MIKE CHESNEY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c0g370da002.add
s135318
23-JUN-2011 15:59

LAST REVISION 06-08-10 | DATE PLOTTED => 23-JUN-2011 | TIME PLOTTED => 15:59

BORDER LAST REVISED 7/2/2010 | USERNAME => s135318 | DGN FILE => c0g370da002.add | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2998 | PROJECT NUMBER & PHASE 12000001431

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	5	117

3

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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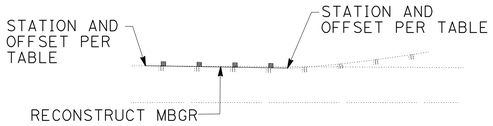
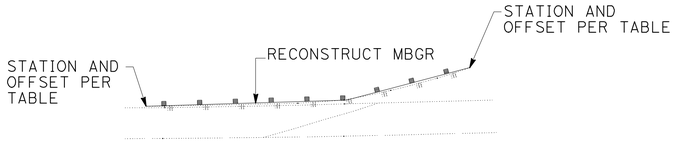
RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027



CASE A PLANVIEW



CASE B PLANVIEW

RECONSTRUCT MBGR LOCATIONS

STATION 1	TO	STATION 2	LINE	OFFSET 1	OFFSET 2	DIRECTION	CASE
2052+12.17	TO	2068+00.55	"241A1"	66.49	66.12	R†	A
2064+92.30	TO	2065+29.61	"241A1"	66.03	65.84	L†	A
2077+50.47	TO	2086+99.46	"241A1"	87.55	78.34	L†	A
2086+61.66	TO	2086+67.91	"241A1"	77.96	77.96	R†	A
2088+50.40	TO	2088+56.95	"241A1"	77.94	78.00	L†	A

RECONSTRUCT MBGR LOCATIONS

STATION 1	TO	STATION 2	LINE	OFFSET 1	OFFSET 2	DIRECTION	CASE
2090+68.25	TO	2103+38.93	"241A1"	78.26	77.91	L†	A
2095+44.48	TO	2096+11.18	"241A1"	86.12	78.04	R†	B
2105+75.48	TO	2111+30.24	"241A1"	77.75	78.10	L†	A
2105+79.87	TO	2109+22.57	"241A1"	89.27	78.25	R†	B
2113+98.62	TO	2115+08.29	"241A1"	91.81	78.66	R†	B
2129+00.09	TO	2131+12.55	"241A1"	78.23	78.22	L†	A
2137+25.18	TO	2138+87.56	"241A1"	78.01	78.13	L†	A
2143+09.24	TO	2144+07.77	"241A1"	98.13	88.48	R†	B
2146+96.55	TO	2148+44.89	"241A1"	89.28	89.70	R†	A
2147+82.94	TO	2152+83.24	"241A1"	93.09	124.42	L†	A
2154+01.78	TO	2154+68.61	"241A1"	94.43	94.91	R†	A
2157+45.43	TO	2158+07.64	"241A1"	170.86	187.48	L†	B
2159+47.01	TO	2163+34.44	"241A1"	139.74	211.92	R†	A
2175+74.57	TO	2176+34.60	"241A1"	148.47	145.08	R†	A
2175+81.35	TO	2176+29.11	"241A1"	184.69	184.80	R†	A
2176+82.00	TO	2177+84.43	"241A1"	101.10	106.56	L†	A
2176+82.22	TO	2177+84.73	"241A1"	114.30	108.93	L†	A
2186+91.03	TO	2187+29.55	"241A1"	101.89	101.97	L†	A
2192+31.36	TO	2192+56.05	"241A1"	103.54	104.00	R†	A
2196+87.69	TO	2197+25.29	"241A1"	101.60	101.56	L†	A
2206+18.32	TO	2206+55.71	"241A1"	112.13	115.18	R†	A
2209+10.85	TO	2209+30.90	"241A1"	594.01	646.07	L†	A
2209+16.86	TO	2209+34.12	"241A1"	540.52	645.31	L†	A
2209+65.05	TO	2209+68.38	"241A1"	573.34	598.49	L†	A
2213+67.35	TO	2214+04.58	"241A1"	186.97	189.47	R†	A
2213+70.75	TO	2217+44.22	"241A1"	140.10	170.54	R†	A
2218+92.86	TO	2219+30.33	"241A1"	103.74	102.61	L†	A
2242+19.25	TO	2246+98.57	"241A1"	113.96	114.65	R†	A
2242+31.48	TO	2245+85.08	"241A1"	102.19	102.23	L†	A
2280+68.84	TO	2281+06.80	"241A1"	113.72	113.70	R†	A
2297+09.03	TO	2299+96.23	"241A1"	144.87	169.03	R†	A
2300+61.98	TO	2301+73.97	"241A1"	214.62	216.79	L†	A
2304+13.57	TO	2305+25.49	"241A1"	172.76	165.50	L†	A
2308+96.61	TO	2316+50.17	"241A1"	196.10	122.82	L†	A
2315+86.12	TO	2316+17.58	"241A1"	146.73	144.07	R†	A
2345+33.95	TO	2345+72.16	"241A1"	89.51	89.68	L†	A
2345+94.43	TO	2346+12.29	"241A1"	102.04	101.86	R†	B
2359+00.34	TO	2361+29.58	"241A1"	89.73	95.03	L†	A
2372+86.77	TO	2373+13.50	"241A1"	102.11	102.93	R†	A
2391+70.90	TO	2391+97.18	"241A1"	244.27	246.03	R†	A
2391+74.73	TO	2392+00.49	"241A1"	189.53	190.99	R†	A
2410+02.18	TO	2410+64.44	"241A1"	91.22	90.31	L†	A
2414+84.90	TO	2417+23.37	"241A1"	100.23	100.03	R†	A
2442+40.11	TO	2444+21.15	"241A1"	102.11	102.16	L†	A
2446+91.24	TO	2452+19.75	"241A1"	101.46	99.76	L†	A
2465+62.36	TO	2468+38.86	"241A1"	156.38	159.15	L†	A
2471+09.89	TO	2476+71.43	"241A1"	164.89	250.59	L†	A
2474+99.99	TO	2475+24.93	"241A1"	234.71	234.58	R†	A
2476+78.55	TO	2477+15.64	"241A1"	89.93	89.63	R†	A
2479+77.17	TO	2482+43.81	"241A1"	235.82	182.39	R†	A

NOTES:

1. FOR LOCATION WITHIN THE PROJECT LIMITS SEE KEY MAP K-1 TO K-3
2. INSTALL GUARD RAILING DELINEATORS AT THE BEGINNING, THE END AND AT 25 Ft INCREMENTS OF EACH MBGR SECTION PER CALTRANS Std PLAN A77C4 AND A73C. TYPE AND QUANTITY ARE LOCATED ON QUANTITY SHEETS Q-20 TO Q-24.
3. CONTRACTOR SHALL CONFIRM THAT NO EXISTING ELECTRICAL CONDUITS ARE WITHIN THE LIMITS OF WORK PRIOR TO THE START OF WORK AT EACH LOCATION.

3 **REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011**

CONSTRUCTION DETAILS
(RECONSTRUCT MBRG)
NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: MIKE CHESNEY
CALCULATED-DESIGNED BY: LINDSAY KAUFMANN
CHECKED BY: LINDSAY KAUFMANN
REVISED BY: RK/WT
DATE REVISED: 07/22/10
23-JUN-2011 15:59
s135318
c0g370ga001.add

LAST REVISION DATE PLOTTED => 23-JUN-2011
06-08-10 TIME PLOTTED => 15:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	6	117

3

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp.12/31/11 CIVIL STATE OF CALIFORNIA

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

RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027

RECONSTRUCT MBGR LOCATIONS

STATION 1	TO	STATION 2	LINE	OFFSET 1	OFFSET 2	DIRECTION	CASE
2481+73.87	TO	2481+98.55	"241A1"	218.04	213.83	L+	A
2485+23.14	TO	2485+53.42	"241A1"	117.13	114.63	R+	A
2485+28.95	TO	2485+59.21	"241A1"	89.50	89.45	R+	A
2485+49.27	TO	2485+55.17	"241A1"	139.81	139.15	R+	A
2488+25.65	TO	2489+96.93	"241A1"	143.83	129.46	L+	A
2509+14.99	TO	2511+27.07	"241A1"	90.45	90.08	L+	A
2509+86.89	TO	2511+61.62	"241A1"	90.48	90.24	R+	A
2518+53.52	TO	2523+90.80	"241A1"	90.37	90.04	L+	A
2527+78.41	TO	2529+40.82	"241A1"	90.12	90.05	L+	A
2537+07.08	TO	2537+56.98	"241A1"	90.42	90.23	R+	A
2537+78.97	TO	2538+16.24	"241A1"	97.80	98.60	L+	A
2542+16.15	TO	2544+64.93	"241A1"	124.74	154.49	R+	A
2547+23.82	TO	2553+14.81	"241A1"	176.69	277.57	L+	A
2548+59.07	TO	2548+96.46	"241A1"	136.89	137.77	R+	A
2556+11.18	TO	2556+49.74	"241A1"	281.49	287.28	L+	A
2557+28.41	TO	2558+10.36	"241A1"	105.02	94.65	R+	B
2562+96.59	TO	2563+83.80	"241NP2"	21.39	19.39	R+	A
2568+71.37	TO	2569+70.84	"241A1"	102.10	102.34	R+	A
2576+54.55	TO	2576+92.02	"241NP2"	8.63	8.62	R+	A
2592+07.77	TO	2593+56.28	"241A1"	102.03	110.24	L+	B
2596+02.41	TO	2596+94.90	"241A1"	85.43	78.46	R+	B
2613+63.88	TO	2614+01.35	"241A1"	78.60	78.60	L+	A
2620+46.62	TO	270+84.64	"241A1"/"241NB1"	102.15	69.96	R+	A
2621+48.72	TO	273+30.43	"241SBTOLL2"/"241SB1"	73.34	71.55	L+	A
277+06.01	TO	277+44.18	"241NB1"	70.24	70.75	R+	A
279+19.05	TO	282+54.02	"241SB1"	69.78	78.67	L+	B
288+47.08	TO	288+84.46	"241SB1"	6.91	6.86	L+	A
87+39.31	TO	93+70.21	"241WS133"	5.13	5.63	L+	A
288+41.51	TO	89+22.34	"241SB1"/"133NE241"	73.60	41.04	L+	B
94+08.36	TO	99+43.93	"133NE241"	34.69	34.46	L+	A
97+01.16	TO	99+67.32	"133NE241"	4.25	4.76	R+	A
305+72.61	TO	307+49.85	"241NB1"	46.55	46.56	R+	A
105+65.09	TO	110+16.44	"241WS133"	34.45	38.91	R+	A
305+87.56	TO	311+97.37	"241SB1"	46.12	52.37	L+	B
314+51.57	TO	317+35.32	"241SB1"	45.43	45.95	L+	A
68+37.76	TO	69+39.89	"241S133"	34.12	42.41	L+	B
327+91.12	TO	329+95.08	"241NB1"	46.43	46.44	R+	A
71+10.96	TO	347+18.07	"241S133"/"241SB1"	34.86	56.31	L+	A
9334+56.97	TO	352+36.07	"133N241"/"241B1"	45.34	70.42	R+	B
334+32.90	TO	334+70.40	"241SB1"	3.05	2.31	L+	A
374+85.19	TO	375+55.73	"241B1"	67.64	58.39	R+	B
382+11.60	TO	382+49.16	"241B1"	33.55	33.77	L+	A
382+90.64	TO	393+98.79	"241B1"	58.41	58.21	R+	A
396+39.43	TO	396+45.03	"241B1"	40.60	41.22	L+	A
398+23.40	TO	402+54.93	"241B1"	57.89	59.12	R+	A
418+36.28	TO	430+04.25	"241B1"	70.30	70.10	R+	A
435+92.05	TO	436+29.97	"241B1"	22.38	22.16	L+	A
438+07.07	TO	447+83.23	"241B1"	69.91	70.46	R+	A
496+37.50	TO	504+06.25	"241B1"	58.89	62.73	R+	A
504+92.02	TO	516+01.02	"241B1"	63.13	51.58	R+	A

RECONSTRUCT MBGR LOCATIONS

STATION 1	TO	STATION 2	LINE	OFFSET 1	OFFSET 2	DIRECTION	CASE
519+03.46	TO	519+40.16	"241B1"	62.12	61.14	R+	A
529+81.04	TO	535+09.84	"241A2"	55.00	23.99	R+	A
557+93.30	TO	558+30.70	"241A2"	30.79	33.28	R+	A
568+04.75	TO	1572+16.39	"241A2"/"241NBR1"	141.44	163.77	R+	A
2576+00.28	TO	2581+61.81	"241SBR1"	70.18	79.01	L+	A
1589+39.28	TO	1591+16.91	"241NBR1"	46.17	46.60	R+	A
2584+87.70	TO	2593+61.19	"241SBR1"	101.03	334.80	L+	A
2592+41.42	TO	2593+92.29	"241SBR1"	122.54	160.77	L+	A
2593+45.73	TO	2594+50.60	"241SBR1"	46.49	46.39	L+	A
30+48.30	TO	31+20.20	"241CH8"	98.14	34.26	R+	A
37+83.00	TO	41+86.40	"241CH8"	34.22	31.52	R+	A
37+83.65	TO	47+46.22	"241CH8"	5.49	3.96	L+	A
1597+72.40	TO	1599+18.22	"241NBR1"	46.35	46.76	R+	A
2598+96.97	TO	2604+63.70	"241SBR1"	46.22	45.88	L+	A
1603+83.06	TO	1607+51.20	"241NBR1"	110.65	46.12	R+	A
34+95.69	TO	46+57.82	"241CH7"	46.29	34.13	L+	A
35+08.72	TO	39+49.49	"241CH7"	16.77	4.36	R+	A
610+61.66	TO	614+00.05	"241CH7"	58.27	31.47	L+	A
2626+21.53	TO	2626+59.23	"241SBR1"	58.06	57.97	L+	A
2812+63.52	TO	2813+50.97	"261B241"	120.36	120.50	R+	A
2818+08.14	TO	2818+91.38	"261B241"	120.07	144.54	R+	A
2819+24.84	TO	2826+49.76	"261B241"	120.09	112.13	R+	A
2834+91.34	TO	2835+28.95	"261B241"	108.47	108.30	L+	A
652+84.08	TO	654+77.17	"241A3"	113.87	113.90	R+	A
653+74.22	TO	665+10.65	"241A3"	115.52	102.20	L+	A
668+28.39	TO	672+39.34	"241A3"	119.94	115.20	R+	A
668+56.41	TO	670+29.86	"241A3"	102.31	100.74	L+	A
677+53.71	TO	693+02.49	"241A3"	117.76	124.40	R+	A
686+03.89	TO	713+59.37	"241A3"	91.78	90.11	L+	A
698+70.74	TO	713+47.11	"241A3"	124.48	124.08	R+	A
716+77.92	TO	734+57.77	"241A3"	124.72	124.76	R+	A
716+94.62	TO	756+04.30	"241A3"	89.82	92.94	L+	A
738+35.34	TO	739+07.87	"241A3"	132.33	127.23	R+	B
742+62.04	TO	756+10.46	"241A3"	124.06	123.98	R+	A
759+02.16	TO	772+91.49	"241A3"/"241NBTOLL1"	124.49	62.58	R+	A
773+91.66	TO	776+93.38	"241SBTOLL1"	76.85	99.60	L+	A
780+27.88	TO	780+65.09	"241A3"	100.55	100.72	R+	A
782+26.53	TO	782+64.25	"241A3"	77.22	77.50	L+	A
813+03.06	TO	815+28.19	"241A3"	101.79	102.10	L+	A
814+49.31	TO	814+91.31	"241A3"	130.97	125.18	R+	B
817+44.45	TO	852+07.15	"241A3"	124.45	112.89	R+	A
817+72.25	TO	821+16.52	"241A3"	102.10	109.11	L+	B
824+66.47	TO	833+38.25	"241A3"	101.57	101.41	L+	A
844+08.04	TO	851+19.18	"241A3"	101.51	101.68	L+	A
852+21.96	TO	857+07.76	"241A3"	143.97	114.96	R+	A
863+45.26	TO	895+29.21	"241A3"	111.24	124.28	R+	A
865+53.79	TO	887+61.65	"241A3"	101.93	109.78	L+	A
895+35.90	TO	3901+23.52	"241A3"/"241NW91"	146.03	58.02	R+	A
5900+96.64	TO	4911+44.68	"91WS241"/"91ES241"	69.53	33.95	L+	A
6909+01.76	TO	6914+50.76	"241NE91"	34.75	34.67	R+	A

NOTES:

1. FOR LOCATION WITHIN THE PROJECT LIMITS SEE KEY MAP K-1 TO K-3
2. INSTALL GUARD RAILING DELINEATORS AT THE BEGINNING, THE END AND AT 25 Ft INCREMENTS OF EACH MBGR SECTION PER CALTRANS Std PLAN A77C4 AND A73C. TYPE AND QUANTITY ARE LOCATED ON QUANTITY SHEETS Q-20 TO Q-24.
3. CONTRACTOR SHALL CONFIRM THAT NO EXISTING ELECTRICAL CONDUITS ARE WITHIN THE LIMITS OF WORK PRIOR TO THE START OF WORK AT EACH LOCATION.

3 REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011

CONSTRUCTION DETAILS
(RECONSTRUCT MBRG)
NO SCALE

C-2

REVISED BY	DATE REVISED
RK/WT	07/22/10

CONSULTANT FUNCTIONAL SUPERVISOR: MIKE CHESNEY
CALCULATED-DESIGNED BY: LINDSAY KAUFMANN
CHECKED BY: LINDSAY KAUFMANN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c0g370ga002.add s135318 23-JUN-2011 15:59

LAST REVISION 06-08-10 | DATE PLOTTED => 23-JUN-2011 | TIME PLOTTED => 15:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	7	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
LINDSAY M. KAUFMANN
No. C71806
Exp. 12/31/11
CIVIL
STATE OF CALIFORNIA

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

RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027

3

RECONSTRUCT MBGR LOCATIONS

STATION 1	TO	STATION 2	LINE	OFFSET 1	OFFSET 2	DIRECTION	CASE
3909+07.89	TO	3918+18.84	"241NW91"	10.07	5.47	L†	A
4912+32.06	TO	4918+68.56	"91ES241"	33.84	33.88	L†	A
4919+43.35	TO	4924+01.26	"91ES241"	33.95	34.18	L†	A
4920+04.35	TO	4933+74.06	"91ES241"	5.15	5.11	R†	A
4928+49.47	TO	4930+02.66	"91ES241"	34.28	34.11	L†	A
5913+90.20	TO	5920+92.58	"91WS241"	9.25	5.58	R†	A
5919+24.12	TO	5921+20.54	"91WS241"	46.52	46.34	L†	A
5923+72.74	TO	5930+55.96	"91WS241"	5.37	5.48	R†	A
5923+99.70	TO	5930+30.00	"91WS241"	45.14	34.44	L†	A
3923+29.25	TO	3927+79.23	"241NW91"	5.26	4.98	L†	A
3924+51.72	TO	3930+71.65	"241NW91"	33.78	33.70	R†	A
6918+27.12	TO	6919+80.92	"241NE91"	15.01	8.83	L†	B

NOTES:

1. FOR LOCATION WITHIN THE PROJECT LIMITS SEE KEY MAP K-1 TO K-3
2. INSTALL GUARD RAILING DELINEATORS AT THE BEGINNING, THE END AND AT 25 Ft INCREMENTS OF EACH MBGR SECTION PER CALTRANS Std PLAN A77C4 AND A73C. TYPE AND QUANTITY ARE LOCATED ON QUANTITY SHEETS Q-20 TO Q-24.
3. CONTRACTOR SHALL CONFIRM THAT NO EXISTING ELECTRICAL CONDUITS ARE WITHIN THE LIMITS OF WORK PRIOR TO THE START OF WORK AT EACH LOCATION.

3 REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011

CONSTRUCTION DETAILS
(RECONSTRUCT MBGR)

NO SCALE

C-3

c0g370ga003.add 23-JUN-2011 18:58 trlim

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: MIKE CHESNEY
CALCULATED-DESIGNED BY: LINDSAY KAUFMANN
CHECKED BY: LINDSAY KAUFMANN
REVISED BY: RK/WT
DATE REVISED: 07/22/10

LAST REVISION 06-08-10 | DATE PLOTTED => 23-JUN-2011 | TIME PLOTTED => 18:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	40	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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

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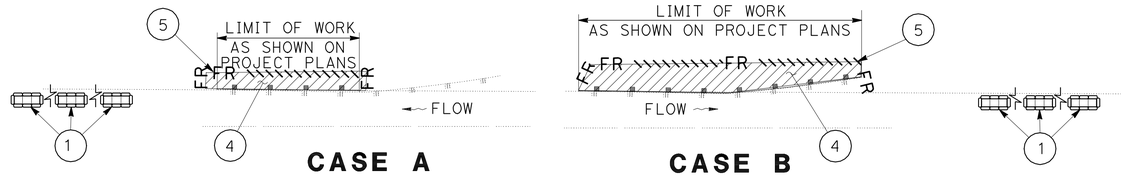
IRVINE, CA. 92618-2027

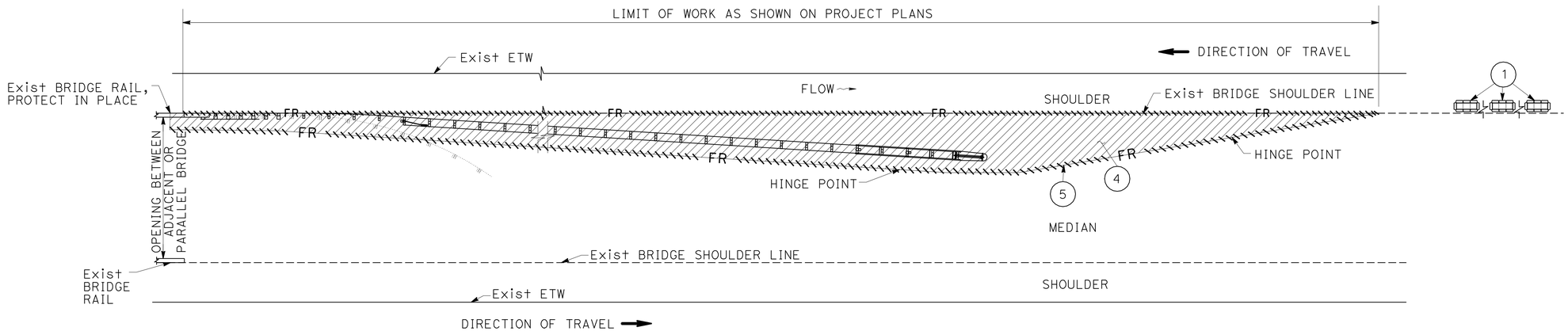
3



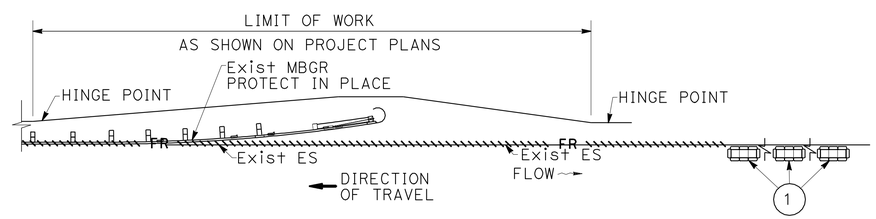
CASE A PLANVIEW **CASE B PLANVIEW**

TYPICAL WPC PLACEMENT RECONSTRUCT MBGR LOCATIONS

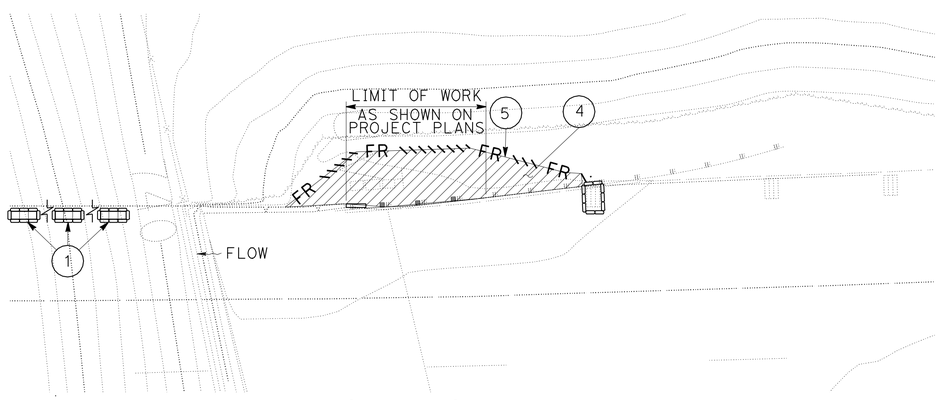
SEE SHEET C-1 TO C-3 FOR RECONSTRUCT MBGR STATIONING
BMP SC-3 AND SC-5 ARE ONLY USED AT FILL LOCATIONS



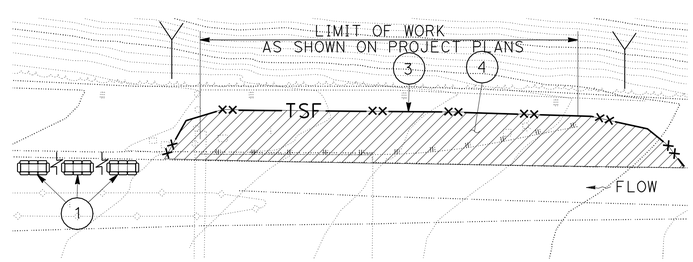
WPC PLACEMENT AT MBGR LAYOUT 12E PER CALTRANS Std PLAN A77F3



WPC PLACEMENT ATMBGR TERMINAL SYSTEM & TYPICAL GRADING DETAIL PER CALTRANS Std PLAN A77E1 & A77L1



WPC PLACEMENT MBGR TRANSITION RAILING (TYPE WB) UPGRADE DETAIL



WPC PLACEMENT REMOVE MBGR

TEMPORARY WATER POLLUTION CONTROL PLAN

NO SCALE

3 **REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011**

WPC-2

LAST REVISION	DATE PLOTTED => 23-JUN-2011
06-08-10	TIME PLOTTED => 18:58

REVISED BY	DATE REVISED
RK/WT	07/22/10

CALCULATED-DESIGNED BY	CHECKED BY
LINDSAY KAUFMANN	LINDSAY KAUFMANN

CONSULTANT FUNCTIONAL SUPERVISOR: MIKE CHESNEY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

trlim 23-JUN-2011 18:58 c0g370gb002.add

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	41	117

Lindsay M. Kaufmann 09/30/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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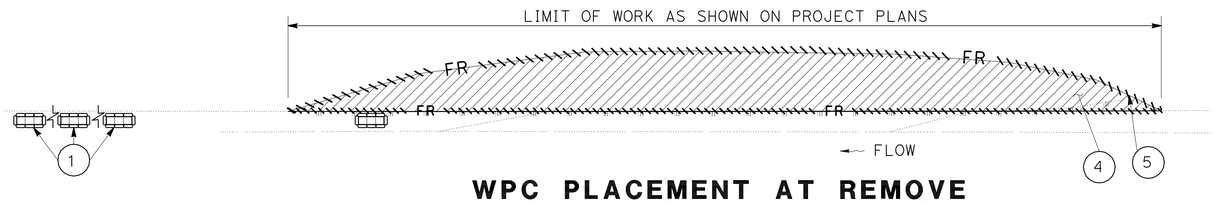
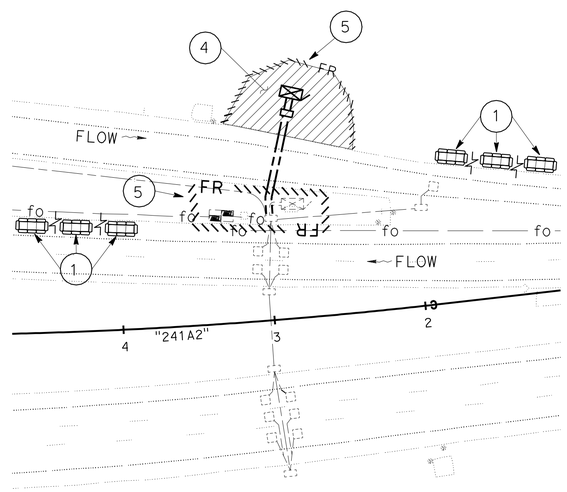
3



WPC PLACEMENT AT REMOVE AC DIKE AND PLACE HMA DIKE



WPC PLACEMENT AT CONTROLLER CABINET RELOCATION

Sta 562+76 "241A2"

TEMPORARY WATER POLLUTION CONTROL

SHEET No.	DESCRIPTION	TEMPORARY FIBER ROLL	TEMPORARY SILT FENCE	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)
		LF	LF	EA	SQYD
WPC-2/WPC-3	TEMPORARY WATER POLLUTION CONTROL	116,000			
WPC-2	TEMPORARY WATER POLLUTION CONTROL		13,000		
WPC-2/WPC-3	TEMPORARY WATER POLLUTION CONTROL				
WPC-2/WPC-3	TEMPORARY WATER POLLUTION CONTROL			660	
WPC-2/WPC-3	TEMPORARY WATER POLLUTION CONTROL				25,200
	TOTAL	116,000	13,000	660	25,200

3 **REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011**

TEMPORARY WATER POLLUTION CONTROL PLAN

NO SCALE

WPC-3

REVISED BY	DATE REVISED
RK/WT	07/22/10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: MIKE CHESNEY
CALCULATED-DESIGNED BY: LINDSAY KAUFMANN
CHECKED BY: LINDSAY KAUFMANN

c0g370gb003.add s124496 24-JUN-2011 08:45

LAST REVISION 06-08-10 DATE PLOTTED => 24-JUN-2011 TIME PLOTTED => 08:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	45	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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IRVINE, CA. 92618-2027

RECONSTRUCT MBGR

SHEET No.	STATION LIMITS	LOCATION	RECONSTRUCT MBGR LF
C-1	"241A1" 2052+12.17 TO "241A1" 2068+00.55	R+	1574.8
C-1	"241A1" 2064+92.30 TO "241A1" 2065+29.61	L+	37.3
C-1	"241A1" 2077+50.47 TO "241A1" 2086+99.46	L+	949.2
C-1	"241A1" 2086+61.66 TO "241A1" 2086+67.91	R+	6.3
C-1	"241A1" 2088+50.40 TO "241A1" 2088+56.95	L+	6.6
C-1	"241A1" 2090+68.25 TO "241A1" 2103+38.93	L+	1286.8
C-1	"241A1" 2095+44.48 TO "241A1" 2096+11.18	R+	66.5
C-1	"241A1" 2105+75.48 TO "241A1" 2111+30.24	L+	562.0
C-1	"241A1" 2105+79.87 TO "241A1" 2109+22.57	R+	339.4
C-1	"241A1" 2113+98.62 TO "241A1" 2115+08.29	R+	109.9
C-1	"241A1" 2129+00.09 TO "241A1" 2131+12.55	L+	212.5
C-1	"241A1" 2137+25.18 TO "241A1" 2138+87.56	L+	162.4
C-1	"241A1" 2143+09.24 TO "241A1" 2144+07.77	R+	99.4
C-1	"241A1" 2146+96.55 TO "241A1" 2148+44.89	R+	151.8
C-1	"241A1" 2147+82.94 TO "241A1" 2152+83.24	L+	487.1
C-1	"241A1" 2154+01.78 TO "241A1" 2154+68.61	R+	68.5
C-1	"241A1" 2157+45.43 TO "241A1" 2158+07.64	L+	61.8
C-1	"241A1" 2159+47.01 TO "241A1" 2163+34.44	R+	411.8
C-1	"241A1" 2175+74.57 TO "241A1" 2176+34.60	R+	62.4
C-1	"241A1" 2175+81.35 TO "241A1" 2176+29.11	R+	50.0
C-1	"241A1" 2176+82.00 TO "241A1" 2177+84.43	L+	99.9
C-1	"241A1" 2176+82.22 TO "241A1" 2177+84.73	L+	99.7
C-1	"241A1" 2186+91.03 TO "241A1" 2187+29.55	L+	37.5
C-1	"241A1" 2192+31.36 TO "241A1" 2192+56.05	R+	24.7
C-1	"241A1" 2196+87.69 TO "241A1" 2197+25.29	L+	37.5
C-1	"241A1" 2206+18.32 TO "241A1" 2206+55.71	R+	37.5
C-1	"241A1" 2209+10.85 TO "241A1" 2209+30.90	L+	56.0
C-1	"241A1" 2209+16.86 TO "241A1" 2209+34.12	L+	106.3
C-1	"241A1" 2209+65.05 TO "241A1" 2209+68.38	L+	26.0
C-1	"241A1" 2213+67.35 TO "241A1" 2214+04.58	R+	37.3
C-1	"241A1" 2213+70.75 TO "241A1" 2217+44.22	R+	37.5
C-1	"241A1" 2218+92.86 TO "241A1" 2219+30.33	L+	37.5
C-1	"241A1" 2242+19.25 TO "241A1" 2246+98.57	R+	497.6
C-1	"241A1" 2242+31.48 TO "241A1" 2245+85.08	L+	341.5
C-1	"241A1" 2280+68.84 TO "241A1" 2281+06.80	R+	37.5
C-1	"241A1" 2297+09.03 TO "241A1" 2299+96.23	R+	288.5
C-1	"241A1" 2300+61.98 TO "241A1" 2301+73.97	L+	112.4
C-1	"241A1" 2304+13.57 TO "241A1" 2305+25.49	L+	112.3
		SUBTOTAL	8733.6

RECONSTRUCT MBGR

SHEET No.	STATION LIMITS	LOCATION	RECONSTRUCT MBGR LF
C-1	"241A1" 2308+96.61 TO "241A1" 2316+50.17	L+	771.4
C-1	"241A1" 2315+86.12 TO "241A1" 2316+17.58	R+	30.8
C-1	"241A1" 2345+33.95 TO "241A1" 2345+72.16	L+	37.5
C-1	"241A1" 2345+94.43 TO "241A1" 2346+12.29	R+	18.3
C-1	"241A1" 2359+00.34 TO "241A1" 2361+29.58	L+	225.8
C-1	"241A1" 2372+86.77 TO "241A1" 2373+13.50	R+	26.8
C-1	"241A1" 2391+70.90 TO "241A1" 2391+97.18	R+	26.3
C-1	"241A1" 2391+74.73 TO "241A1" 2392+00.49	R+	25.8
C-1	"241A1" 2410+02.18 TO "241A1" 2410+64.44	L+	62.3
C-1	"241A1" 2414+84.90 TO "241A1" 2417+23.37	R+	238.5
C-1	"241A1" 2442+40.11 TO "241A1" 2444+21.15	L+	181.0
C-1	"241A1" 2446+91.24 TO "241A1" 2452+19.75	L+	537.4
C-1	"241A1" 2465+62.36 TO "241A1" 2468+38.86	L+	287.5
C-1	"241A1" 2471+09.89 TO "241A1" 2476+71.43	L+	587.5
C-1	"241A1" 2474+99.99 TO "241A1" 2475+24.93	R+	25.0
C-1	"241A1" 2476+78.55 TO "241A1" 2477+15.64	R+	37.1
C-2	"241A1" 2479+77.17 TO "241A1" 2482+43.81	R+	275.6
C-2	"241A1" 2481+73.87 TO "241A1" 2481+98.55	L+	25.0
C-2	"241A1" 2485+23.14 TO "241A1" 2485+53.42	R+	31.1
C-2	"241A1" 2485+28.95 TO "241A1" 2485+59.21	R+	30.8
C-2	"241A1" 2485+49.27 TO "241A1" 2485+55.17	R+	6.3
C-2	"241A1" 2488+25.65 TO "241A1" 2489+96.93	L+	167.2
C-2	"241A1" 2509+14.99 TO "241A1" 2511+27.07	L+	212.3
C-2	"241A1" 2509+86.89 TO "241A1" 2511+61.62	R+	175.0
C-2	"241A1" 2518+53.52 TO "241A1" 2523+90.80	L+	537.3
C-2	"241A1" 2527+78.41 TO "241A1" 2529+40.82	L+	162.4
C-2	"241A1" 2537+07.08 TO "241A1" 2537+56.98	R+	49.9
C-2	"241A1" 2537+78.97 TO "241A1" 2538+16.24	L+	37.3
C-2	"241A1" 2542+16.15 TO "241A1" 2544+64.93	R+	250.9
C-2	"241A1" 2547+23.82 TO "241A1" 2553+14.81	L+	599.5
C-2	"241A1" 2548+59.07 TO "241A1" 2548+96.46	R+	37.5
C-2	"241A1" 2556+11.18 TO "241A1" 2556+49.74	L+	37.5
C-2	"241A1" 2557+28.41 TO "241A1" 2558+10.36	R+	84.4
C-2	"241NP2" 2562+96.59 TO "241NP2" 2563+83.80	R+	87.2
C-2	"241A1" 2568+71.37 TO "241A1" 2569+70.84	R+	99.5
C-2	"241NP2" 2576+54.55 TO "241NP2" 2576+92.02	R+	37.5
C-2	"241A1" 2592+07.77 TO "241A1" 2593+56.28	L+	150.2
C-2	"241A1" 2596+02.41 TO "241A1" 2596+94.90	R+	93.1
C-2	"241A1" 2613+63.88 TO "241A1" 2614+01.35	L+	37.5
C-2	"241A1" 2620+46.62 TO "241NB1" 270+84.64	R+	1225.5
C-2	"241SBTOLL2" 2621+48.72 TO "241SB1" 273+30.43	L+	1359.9
C-2	"241NB1" 277+06.01 TO "241NB1" 277+44.18	R+	37.5
C-2	"241SB1" 279+19.05 TO "241SB1" 282+54.02	L+	343.4
C-2	"241SB1" 288+47.08 TO "241SB1" 288+84.46	L+	37.3
C-2	"241WS133" 87+39.31 TO "241WS133" 93+70.21	L+	631.3
C-2	"241SB1" 288+41.51 TO "133NE241" 89+22.34	L+	74.7
C-2	"133NE241" 94+08.36 TO "133NE241" 99+43.93	L+	518.7
		SUBTOTAL	10572.1
		SHEET TOTAL	19305.4

3 **REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011**

3

NOTE:

LENGTHS SHOWN ARE BASED ON SURVEY DATA & FIELD MEASUREMENTS. THEY ARE NOT EXACT CALCULATIONS PER STATION LIMITS SHOWN.

SUMMARY OF QUANTITIES

Q-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: MIKE CHESNEY
CALCULATED-DESIGNED BY: LINDSAY KAUFMANN
CHECKED BY: LINDSAY KAUFMANN
REVISED BY: RK/WT
DATE REVISED: 07/22/10

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LAST REVISION 06-08-10 DATE PLOTTED => 23-JUN-2011 TIME PLOTTED => 15:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	46	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027

RECONSTRUCT MBGR

SHEET No.	STATION LIMITS	LOCATION	RECONSTRUCT MBGR LF
C-2	"133NE241" 97+01.16 TO "133NE241" 99+67.32	R+	267.5
C-2	"241NB1" 305+72.61 TO "241NB1" 307+49.85	R+	174.9
C-2	"241WS133" 105+65.09 TO "241WS133" 110+16.44	R+	466.1
C-2	"241SB1" 305+87.56 TO "241SB1" 311+97.37	L+	618.0
C-2	"241SB1" 314+51.57 TO "241SB1" 317+35.32	L+	287.3
C-2	"241S133" 68+37.76 TO "241S133" 69+39.89	L+	100.8
C-2	"241NB1" 327+91.12 TO "241NB1" 329+95.08	R+	204.0
C-2	"241S133" 71+10.96 TO "241SB1" 347+18.07	L+	1724.2
C-2	"133N241" 9334+56.97 TO "241B1" 352+36.07	R+	1932.9
C-2	"241SB1" 334+32.90 TO "241SB1" 334+70.40	L+	37.5
C-2	"241B1" 374+85.19 TO "241B1" 375+55.73	R+	71.5
C-2	"241B1" 382+11.60 TO "241B1" 382+49.16	L+	37.6
C-2	"241B1" 382+90.64 TO "241B1" 393+98.79	R+	1108.1
C-2	"241B1" 396+39.43 TO "241B1" 396+45.03	L+	5.6
C-2	"241B1" 398+23.40 TO "241B1" 402+54.93	R+	438.1
C-2	"241B1" 418+36.28 TO "241B1" 430+04.25	R+	1187.1
C-2	"241B1" 435+92.05 TO "241B1" 436+29.97	L+	37.5
C-2	"241B1" 438+07.07 TO "241B1" 447+83.23	R+	986.3
C-2	"241B1" 496+37.50 TO "241B1" 504+06.25	R+	774.6
C-2	"241B1" 504+92.02 TO "241B1" 516+01.02	R+	1130.9
C-2	"241B1" 519+03.46 TO "241B1" 519+40.16	R+	37.5
C-2	"241A2" 529+81.04 TO "241A2" 535+09.84	R+	538.2
C-2	"241A2" 557+93.30 TO "241A2" 558+30.70	R+	37.5
C-2	"241A2" 568+04.75 TO "241NBR1" 1572+16.39	R+	411.8
C-2	"241SBR1" 2576+00.28 TO "241SBR1" 2581+61.81	L+	574.3
C-2	"241NBR1" 1589+39.28 TO "241NBR1" 1591+16.91	R+	174.9
C-2	"241SBR1" 2584+87.70 TO "241SBR1" 2593+61.19	L+	1016.4
C-2	"241SBR1" 2592+41.42 TO "241SBR1" 2593+92.29	L+	162.2
C-2	"241SBR1" 2593+45.73 TO "241SBR1" 2594+50.60	L+	106.3
C-2	"241CH8" 30+48.30 TO "241CH8" 31+20.20	R+	113.5
C-2	"241CH8" 37+83.00 TO "241CH8" 41+86.40	R+	412.4
C-2	"241CH8" 37+83.65 TO "241CH8" 47+46.22	L+	961.1
C-2	"241NBR1" 1597+72.40 TO "241NBR1" 1599+18.22	R+	143.6
C-2	"241SBR1" 2598+96.97 TO "241SBR1" 2604+63.70	L+	574.9
C-2	"241NBR1" 1603+83.06 TO "241NBR1" 1607+51.20	R+	374.9
C-2	"241CH7" 34+95.69 TO "241CH7" 46+57.82	L+	1149.4
C-2	"241CH7" 35+08.72 TO "241CH7" 39+49.49	R+	443.5
C-2	"241CH7" 610+61.66 TO "241CH7" 614+00.05	L+	350.0
C-2	"241SBR1" 2626+21.53 TO "241SBR1" 2626+59.23	L+	37.7
C-2	"261B241" 2812+63.52 TO "261B241" 2813+50.97	R+	87.5
C-2	"261B241" 2818+08.14 TO "261B241" 2818+91.38	R+	87.7
C-2	"261B241" 2819+24.84 TO "261B241" 2826+49.76	R+	725.0
C-2	"261B241" 2834+91.34 TO "261B241" 2835+28.95	L+	37.6
C-2	"241A3" 652+84.08 TO "241A3" 654+77.17	R+	193.1
C-2	"241A3" 653+74.22 TO "241A3" 665+10.65	L+	137.4
C-2	"241A3" 668+28.39 TO "241A3" 672+39.34	R+	425.0
C-2	"241A3" 668+56.41 TO "241A3" 670+29.86	L+	168.5
C-2	"241A3" 677+53.71 TO "241A3" 693+02.49	R+	1597.6
C-2	"241A3" 686+03.89 TO "241A3" 713+59.37	L+	2756.5
		SUBTOTAL	25426.4

RECONSTRUCT MBGR

SHEET No.	STATION LIMITS	LOCATION	RECONSTRUCT MBGR LF
C-2	"241A3" 698+70.74 TO "241A3" 713+47.11	R+	1427.9
C-2	"241A3" 716+77.92 TO "241A3" 734+57.77	R+	1771.0
C-2	"241A3" 716+94.62 TO "241A3" 756+04.30	L+	3896.3
C-2	"241A3" 738+35.34 TO "241A3" 739+07.87	R+	73.9
C-2	"241A3" 742+62.04 TO "241A3" 756+10.46	R+	1363.9
C-2	"241A3" 759+02.16 TO "241NBTOLL1" 772+91.49	R+	1397.8
C-2	"241SBTOLL1" 773+91.66 TO "241SBTOLL1" 776+93.38	L+	299.9
C-2	"241A3" 780+27.88 TO "241A3" 780+65.09	R+	37.6
C-2	"241A3" 782+26.53 TO "241A3" 782+64.25	L+	37.5
C-2	"241A3" 813+03.06 TO "241A3" 815+28.19	L+	225.0
C-2	"241A3" 814+49.31 TO "241A3" 814+91.31	R+	42.5
C-2	"241A3" 817+44.45 TO "241A3" 852+07.15	R+	3429.4
C-2	"241A3" 817+72.25 TO "241A3" 821+16.52	L+	345.0
C-2	"241A3" 824+66.47 TO "241A3" 833+38.25	L+	886.6
C-2	"241A3" 844+08.04 TO "241A3" 851+19.18	L+	711.1
C-2	"241A3" 852+21.96 TO "241A3" 857+07.76	R+	499.0
C-2	"241A3" 863+45.26 TO "241A3" 895+29.21	R+	3186.8
C-2	"241A3" 865+53.79 TO "241A3" 887+61.65	L+	2207.9
C-2	"241A3" 895+35.90 TO "241NW91" 3901+23.52	R+	587.2
C-2	"91WS241" 5900+96.64 TO "91ES241" 4911+44.68	L+	1048.0
C-3	"241NE91" 6909+01.76 TO "241NE91" 6914+50.76	R+	542.8
C-3	"241NW91" 3909+07.89 TO "241NW91" 3918+18.84	L+	910.1
C-3	"91ES241" 4912+32.06 TO "91ES241" 4918+68.56	L+	636.5
C-3	"91ES241" 4919+43.35 TO "91ES241" 4924+01.26	L+	448.9
C-3	"91ES241" 4920+04.35 TO "91ES241" 4933+74.06	R+	1374.2
C-3	"91ES241" 4928+49.47 TO "91ES241" 4930+02.66	L+	150.0
C-3	"91WS241" 5913+90.20 TO "91WS241" 5920+92.58	R+	701.1
C-3	"91WS241" 5919+24.12 TO "91WS241" 5921+20.54	L+	199.4
C-3	"91WS241" 5923+72.74 TO "91WS241" 5930+55.96	R+	682.0
C-3	"91WS241" 5923+99.70 TO "91WS241" 5930+30.00	L+	638.1
C-3	"241NW91" 3923+29.25 TO "241NW91" 3927+79.23	L+	448.8
C-3	"241NW91" 3924+51.72 TO "241NW91" 3930+71.65	R+	630.0
C-3	"241NE91" 6918+27.12 TO "241NE91" 6919+80.92	L+	154.9
		SUBTOTAL	30991.0
		SHEET TOTAL	56417.4
		TOTAL FROM SHEET Q-4	19305.7
		GRAND TOTAL	75723.1

NOTE:

LENGTHS SHOWN ARE BASED ON SURVEY DATA & FIELD MEASUREMENTS. THEY ARE NOT EXACT CALCULATIONS PER STATION LIMITS SHOWN.

3 **REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011**

SUMMARY OF QUANTITIES

Q-5

REVISED BY	DATE REVISED
RK/WT	07/22/10

CALCULATED-DESIGNED BY: LINDSAY KAUFMANN
CHECKED BY: LINDSAY KAUFMANN
CONSULTANT FUNCTIONAL SUPERVISOR: MIKE CHESNEY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

23-JUN-2011 15:53
trrichf
c0g370pa005.add

LAST REVISION 06-08-10
DATE PLOTTED => 23-JUN-2011
TIME PLOTTED => 15:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	47	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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

RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027

NOTE:

LENGTHS SHOWN ARE BASED ON SURVEY DATA & FIELD MEASUREMENTS. THEY ARE NOT EXACT CALCULATIONS PER STATION LIMITS SHOWN.

CONSTRUCT MBGR

3

SHEET No.	DESCRIPTION	STATION LIMITS	LOCATION	MBGR (WOOD POST)	DOUBLE MBGR (WOOD POST)	SINGLE THRIE BEAM BARRIER	(N) TRANSITION RAILING (TYPE WB) BARRIER CONNECTION TO BRIDGE CURB	TRANSITION RAILING (TYPE STB)	TRANSITION RAILING (TYPE WB)	END CAP (TYPE A)	END ANCHOR ASSEMBLY (TYPE SFT)	AI+ IN-LINE TERMINAL SYSTEM	AI+ FLARED TERMINAL SYSTEM	CRASH CUSHION (TYPE CAT)	CRASH CUSHION (TYPE CAT) BACKUP
				LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA
C-4	MBGR LAYOUT 12E	"241A1" 2084+72.43 TO "241A1" 2086+90.81	R+	25.0	125.0				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2088+27.10 TO "241A1" 2090+45.50	L+	25.0	125.0				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2148+82.74 TO "241A1" 2154+46.42	R+	25.0	450.0				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2157+47.21 TO "241A1" 2159+61.08	L+	25.0	112.5				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2158+13.27 TO "241A1" 2161+72.17	L+	25.0	262.5				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2257+03.28 TO "241A1" 2259+95.54	R+	25.0	200.0				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2262+20.79 TO "241A1" 2263+52.48	L+	25.0	37.5				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2312+32.10 TO "241A1" 2316+45.33	R+	25.0	287.5				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2332+55.18 TO "241A1" 2336+35.10	L+	25.0	287.5				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2342+48.59 TO "241A1" 2346+64.65	R+	25.0	325.0				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2358+47.34 TO "241A1" 2361+29.74	L+	25.0	187.5				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2482+89.67 TO "241A1" 2485+82.10	R+	25.0	200.0				1					1	1
C-4	MBGR LAYOUT 12E	"241A1" 2487+90.61 TO "241A1" 2490+09.95	L+	25.0	125.0				1					1	1
C-4	MBGR LAYOUT 12E	"241A3" 651+23.78 TO "241A3" 655+04.26	R+	25.0	287.5				1					1	1
C-4	MBGR LAYOUT 12E	"241A3" 668+33.51 TO "241A3" 671+16.08	L+	25.0	187.5				1					1	1
C-4	MBGR LAYOUT 12E	"241A3" 710+64.74 TO "241A3" 713+47.83	R+	25.0	187.5				1					1	1
C-4	MBGR LAYOUT 12E	"241A3" 752+11.57 TO "241A3" 756+27.98	R+	25.0	325.0				1					1	1
C-4	MBGR LAYOUT 12E	"241A3" 817+56.55 TO "241A3" 821+37.12	L+	25.0	287.5				1					1	1
C-4	MBGR LAYOUT 12E	"241NW91" 3928+38.39 TO "241NW91" 3930+95.61	L+	25.0	162.5				1					1	1
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2175+38.63 TO "241A1" 2175+74.57	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2175+46.11 TO "241A1" 2175+81.35	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2187+29.55 TO "241A1" 2187+67.79	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2197+25.29 TO "241A1" 2197+62.46	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2205+80.86 TO "241A1" 2206+18.32	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2209+65.05 TO "241A1" 2209+65.87	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2213+29.91 TO "241A1" 2213+67.35	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2219+30.33 TO "241A1" 2219+67.61	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2245+85.08 TO "241A1" 2246+23.76	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2280+30.83 TO "241A1" 2280+68.84	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2296+71.85 TO "241A1" 2297+09.03	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2301+73.97 TO "241A1" 2302+10.37	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2361+29.58 TO "241A1" 2361+66.74	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2372+49.54 TO "241A1" 2372+86.77	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2391+37.76 TO "241A1" 2391+74.73	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2397+13.20 TO "241A1" 2397+50.67	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2410+64.44 TO "241A1" 2411+01.67	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2414+47.61 TO "241A1" 2414+84.90	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2419+02.08 TO "241A1" 2419+39.60	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2428+97.85 TO "241A1" 2429+37.48	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2452+19.75 TO "241A1" 2452+55.99	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2468+38.86 TO "241A1" 2468+74.76	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2476+71.43 TO "241A1" 2476+96.34	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2479+54.41 TO "241A1" 2479+77.17	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2481+98.55 TO "241A1" 2482+35.93	L+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2484+86.52 TO "241A1" 2485+23.14	R+										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2484+92.26 TO "241A1" 2485+28.95	R+										1		
			SUBTOTAL	475.0	4162.5				19				27	19	19

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

SUMMARY OF QUANTITIES

3 **REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011**

REVISED BY	DATE REVISED	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY
RK/WT	07/22/10	MIKE CHESNEY	LINDSAY KAUFMANN	LINDSAY KAUFMANN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c0g370pa006.add 23-JUN-2011 15:47 trrichf

LAST REVISION 06-08-10 | DATE PLOTTED => 23-JUN-2011 | TIME PLOTTED => 15:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	48	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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

RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027

NOTE:

LENGTHS SHOWN ARE BASED ON SURVEY DATA & FIELD MEASUREMENTS. THEY ARE NOT EXACT CALCULATIONS PER STATION LIMITS SHOWN.

3

CONSTRUCT MBGR

SHEET No.	DESCRIPTION	STATION LIMITS	LOCATION	MBGR (WOOD POST)	DOUBLE MBGR (WOOD POST)	SINGLE THRIE BEAM BARRIER	(N) TRANSITION RAILING (TYPE WB) BARRIER CONNECTION TO BRIDGE CURB	TRANSITION RAILING (TYPE STB)	TRANSITION RAILING (TYPE WB)	END CAP (TYPE A)	END ANCHOR ASSEMBLY (TYPE SFT)	ALt IN-LINE TERMINAL SYSTEM	ALt FLARED TERMINAL SYSTEM	CRASH CUSHION (TYPE CAT)	CRASH CUSHION (TYPE CAT) BACKUP
				LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2485+13.94 TO "241A1" 2485+49.27	Rt										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2529+40.82 TO "241A1" 2529+78.11	Lt										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2538+16.24 TO "241A1" 2538+53.28	Lt										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2541+78.68 TO "241A1" 2542+16.15	Rt										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2553+14.81 TO "241A1" 2553+50.72	Lt										1		
C-5	TERMINAL SYSTEM UPGRADE	"241SB1" 280+51.47 TO "241SB1" 280+89.01	Lt										1		
C-5	TERMINAL SYSTEM UPGRADE	"241CH8" 31+04.02 TO "241CH8" 31+41.35	Lt										1		
C-5	TERMINAL SYSTEM UPGRADE	"241A3" 758+87.39 TO "241A3" 759+25.27	Lt										1		
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2086+67.91 TO "241A1" 2086+92.91	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2088+25.40 TO "241A1" 2088+50.40	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2154+68.61 TO "241A1" 2154+93.01	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2157+18.94 TO "241A1" 2157+45.43	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2227+12.48 TO "241A1" 2227+37.48	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2241+93.14 TO "241A1" 2242+17.18	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2242+05.61 TO "241A1" 2242+31.48	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2259+77.92 TO "241A1" 2260+02.01	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2262+29.52 TO "241A1" 2262+55.40	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2316+17.58 TO "241A1" 2316+43.12	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2346+12.29 TO "241A1" 2346+36.79	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2358+74.89 TO "241A1" 2359+00.34	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2392+81.83 TO "241A1" 2393+06.80	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2396+88.20 TO "241A1" 2397+01.35	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2419+45.57 TO "241A1" 2419+64.59	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2422+26.42 TO "241A1" 2422+51.42	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2426+46.61 TO "241A1" 2426+71.46	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2428+72.86 TO "241A1" 2428+97.86	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2443+08.20 TO "241A1" 2443+33.20	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2446+66.24 TO "241A1" 2446+91.24	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2485+53.42 TO "241A1" 2485+77.80	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2485+55.17 TO "241A1" 2485+79.37	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2485+59.21 TO "241A1" 2485+83.77	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2487+99.97 TO "241A1" 2488+25.65	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241SB1" 280+26.50 TO "241SB1" 280+51.47	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241WS133" 93+70.21 TO "241WS133" 93+95.20	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241WS133" 110+16.44 TO "241WS133" 110+40.54	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241B1" 393+98.79 TO "241B1" 394+23.78	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241B1" 396+14.28 TO "241B1" 396+39.43	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241CH8" 31+20.20 TO "241CH8" 31+45.20	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241CH8" 31+41.35 TO "241CH8" 31+66.34	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A3" 654+77.17 TO "241A3" 655+02.17	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A3" 668+31.42 TO "241A3" 668+56.41	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A3" 713+14.11 TO "241A3" 713+39.62	Rt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A3" 716+70.06 TO "241A3" 716+94.62	Lt						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A3" 756+10.46 TO "241A3" 756+35.15	Rt						1						
			SUBTOTAL						36				8		

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

SUMMARY OF QUANTITIES

3 **REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011**

REVISED BY	DATE REVISED
RK/WT	07/22/10

CALCULATED-DESIGNED BY: LINDSAY KAUFMANN
CHECKED BY: LINDSAY KAUFMANN
CONSULTANT FUNCTIONAL SUPERVISOR: MIKE CHESNEY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

c0g370pa007.add trrichf 23-JUN-2011 15:47

LAST REVISION 06-08-10 | DATE PLOTTED => 23-JUN-2011 | TIME PLOTTED => 15:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	49	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027

3

CONSTRUCT MBGR

SHEET No.	DESCRIPTION	STATION LIMITS	LOCATION	MBGR (WOOD POST)	DOUBLE MBGR (WOOD POST)	SINGLE THRIE BEAM BARRIER	(N) TRANSITION RAILING (TYPE WB) BARRIER CONNECTION TO BRIDGE CURB	TRANSITION RAILING (TYPE STB)	TRANSITION RAILING (TYPE WB)	END CAP (TYPE A)	END ANCHOR ASSEMBLY (TYPE SFT)	AI+ IN-LINE TERMINAL SYSTEM	AI+ FLARED TERMINAL SYSTEM	CRASH CUSHION (TYPE CAT)	CRASH CUSHION (TYPE CAT) BACKUP
				LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA
C-7	TRANSITION RAILING (TYPE WB)	"241A3" 758+62.14 TO "241A3" 758+87.38	L+						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A3" 814+91.31 TO "241A3" 815+16.28	R+						1						
C-7	TRANSITION RAILING (TYPE WB)	"241A3" 817+47.25 TO "241A3" 817+72.25	L+						1						
C-7	TRANSITION RAILING (TYPE WB)	"91WS241" 5923+47.70 TO "91WS241" 5923+72.74	R+						1						
C-7	TRANSITION RAILING (TYPE WB)	"91WS241" 5923+75.08 TO "91WS241" 5923+99.71	L+						1						
C-7	TRANSITION RAILING (TYPE WB)	"241NW91" 3930+71.65 TO "241NW91" 3930+96.26	R+						1						
C-7	TRANSITION RAILING (TYPE WB)	"241NE91" 6930+72.96 TO "241NE91" 6930+98.25	R+						1						
C-11	LOCATION 2	"241A1" 2111+30.24 TO "241A1" 2118+70.45	L+	712.5									1		
C-12	LOCATION 3	"241A1" 2157+83.23 TO "241A1" 2159+55.60	L+	25.0	75.0				1					1	1
C-12	LOCATION 4	"241A1" 2169+07.21 TO "241A1" 2170+17.01	R+	62.5							1	1			
C-12	LOCATION 5	"241A1" 2184+68.42 TO "241A1" 2185+51.93	R+	50.0							1		1		
C-13	LOCATION 6	"241A1" 2212+06.32 TO "241A1" 2212+93.82	R+	50.0							1		1		
C-13	LOCATION 7	"241A1" 2213+20.54 TO "241A1" 2213+70.75	R+	12.5									1		
C-13	LOCATION 8	"241A1" 2218+85.21 TO "241A1" 2219+85.21	R+	50.0							1	1			
C-13	LOCATION 9	"241A1" 2223+22.33 TO "241A1" 2225+22.35	R+	162.5							1		1		
C-13	LOCATION 10	"241A1" 2253+66.85 TO "241A1" 2255+10.67	R+	150.0							1				
C-14	LOCATION 11	"241A1" 2262+82.49 TO "241A1" 2263+34.39	L+										1		
C-14	LOCATION 12	"241A1" 2267+37.97 TO "241A1" 2268+25.46	R+	50.0							1		1		
C-14	LOCATION 13	"241A1" 2292+15.31 TO "241A1" 2293+02.83	L+	50.0							1		1		
C-14	LOCATION 13	"241A1" 2292+19.42 TO "241A1" 2293+06.92	L+	50.0							1		1		
C-14	LOCATION 14	"241A1" 2299+96.23 TO "241A1" 2300+08.57	R+	12.5							1				
C-15	LOCATION 15	"241A1" 2304+01.23 TO "241A1" 2304+13.56	L+	12.5							1				
C-15	LOCATION 15	"241A1" 2305+25.49 TO "241A1" 2310+50.29	L+	487.5									1		
C-15	LOCATION 16	"241A1" 2312+42.48 TO "241A1" 2312+55.34	R+	12.5							1				
C-15	LOCATION 17	"241A1" 2332+59.81 TO "241A1" 2336+96.32	L+	362.5					1			1			
C-16	LOCATION 18	"241A1" 2345+72.16 TO "241A1" 2346+23.07	L+									1			
C-16	LOCATION 19	"241A1" 2377+70.92 TO "241A1" 2378+58.43	R+	50.0							1		1		
C-16	LOCATION 20	"241A1" 2377+97.17 TO "241A1" 2378+84.47	L+	50.0							1		1		
C-16	LOCATION 21	"241A1" 2389+46.00 TO "241A1" 2391+70.09	R+	225.0											
C-17	LOCATION 22	"241A1" 2383+84.96 TO "241A1" 2392+34.96	L+	850.0						1	1				
C-18	LOCATION 23	"241A1" 2403+36.51 TO "241A1" 2404+23.55	R+	50.0							1		1		
C-18	LOCATION 24	"241A1" 2435+94.66 TO "241A1" 2436+80.63	R+	50.0							1		1		
C-18	LOCATION 25	"241A1" 2434+80.21 TO "241A1" 2442+52.61	L+	775.0							1				
C-18	LOCATION 26	"241A1" 2457+09.36 TO "241A1" 2458+12.02	R+	62.5							1		1		
C-19	LOCATION 27	"241A1" 2465+94.67 TO "241A1" 2467+22.81	L+	93.5							1		1		
C-19	LOCATION 27	"241A1" 2465+98.23 TO "241A1" 2467+19.65	L+	87.5							1		1		
C-19	LOCATION 28	"241A1" 2473+42.40 TO "241A1" 2474+99.99	R+	150.0											
C-19	LOCATION 29	"241A1" 2474+54.16 TO "241A1" 2476+24.50	R+	112.5			1		1				1		
C-19	LOCATION 30	"241A1" 2479+47.96 TO "241A1" 2480+35.55	L+	50.0							1		1		
C-19	LOCATION 31	"241A1" 2480+20.57 TO "241A1" 2482+40.88	L+	162.5			1		1				1		
C-19	LOCATION 32	"241A1" 2487+92.46 TO "241A1" 2490+17.16	L+	112.5	25.0				1					1	1
C-19	LOCATION 32	"241A1" 2488+00.17 TO "241A1" 2489+58.54	L+	106.4					1						
C-20	LOCATION 33	"241A1" 2489+96.93 TO "241A1" 2504+97.96	L+	1437.5									1		
			SUBTOTAL	6737.4	100.0		2		13	1	22	4	21	2	2

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

NOTE:

LENGTHS SHOWN ARE BASED ON SURVEY DATA & FIELD MEASUREMENTS. THEY ARE NOT EXACT CALCULATIONS PER STATION LIMITS SHOWN.

SUMMARY OF QUANTITIES

3 **REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: MIKE CHESNEY
CALCULATED-DESIGNED BY: LINDSAY KAUFMANN
CHECKED BY: LINDSAY KAUFMANN
REVISED BY: RK/WT
DATE REVISED: 07/22/10
c0g370pa008.add trrichf 23-JUN-2011 15:47
LAST REVISION DATE PLOTTED => 23-JUN-2011
06-08-10 TIME PLOTTED => 15:47
BORDER LAST REVISED 7/2/2010
USERNAME => trrichf
DGN FILE => c0g370pa008.add
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2998
PROJECT NUMBER & PHASE 12000001431

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	50	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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

RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027

NOTE:

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3

CONSTRUCT MBGR

SHEET No.	DESCRIPTION	STATION LIMITS	LOCATION	MBGR (WOOD POST)	DOUBLE MBGR (WOOD POST)	SINGLE THRIE BEAM BARRIER	(N) TRANSITION RAILING (TYPE WB) BARRIER CONNECTION TO BRIDGE CURB	TRANSITION RAILING (TYPE STB)	TRANSITION RAILING (TYPE WB)	END CAP (TYPE A)	END ANCHOR ASSEMBLY (TYPE SFT)	Alt IN-LINE TERMINAL SYSTEM	Alt FLARED TERMINAL SYSTEM	CRASH CUSHION (TYPE CAT)	CRASH CUSHION (TYPE CAT) BACKUP
				LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA
C-21	LOCATION 34	"241A1" 2503+99.16 TO "241A1" 2505+61.12	Rt	125.0							1		1		
C-21	LOCATION 35	"241A1" 2509+49.39 TO "241A1" 2509+86.89	Rt										1		
C-21	LOCATION 36	"241A1" 2511+26.86 TO "241A1" 2511+64.77	Lt										1		
C-21	LOCATION 37	"241A1" 2516+58.05 TO "241A1" 2517+58.05	Rt	62.5							1		1		
C-21	LOCATION 37	"241A1" 2521+30.10 TO "241A1" 2522+30.10	Rt	62.5							1		1		
C-21	LOCATION 38	"241A1" 2523+90.80 TO "241A1" 2527+90.91	Lt	400.0											
C-21	LOCATION 39	"241A1" 2527+00.71 TO "241A1" 2528+00.71	Rt	62.5							1		1		
C-22	LOCATION 40	"241A1" 2536+57.08 TO "241A1" 2537+07.08	Rt									1			
C-22	LOCATION 41	"241A1" 2549+40.80 TO "241A1" 2550+28.30	Lt	50.0							1		1		
C-22	LOCATION 42	"241NP2" 2569+37.43 TO "241NP2" 2571+49.51	Lt	162.5					1				1		
C-23	LOCATION 43	"241A1" 2574+76.18 TO "241A1" 2590+88.43	Rt	1575.0							1		1		
C-24	LOCATION 44	"241A1" 2596+82.40 TO "241A1" 2597+07.40	Rt	25.0							1				
C-24	LOCATION 45	"241NBTOLL2" 2611+21.51 TO "241NBTOLL2" 2612+08.79	Rt	50.0							1		1		
C-24	LOCATION 46	"241A1" 2613+38.88 TO "241A1" 2316+76.38	Lt	37.5							1				
C-24	LOCATION 47	"241SB1" 273+30.43 TO "241SB1" 274+04.80	Lt	37.5									1		
C-25	LOCATION 48	"241WS133" 95+37.99 TO "241WS133" 96+81.89	Rt			125.0		1							
C-25	LOCATION 49	"241NB1" 298+15.74 TO "241NB1" 299+02.99	Rt	87.5							1				
C-25	LOCATION 50	"241S133" 67+59.75 TO "241S133" 69+08.51	Rt			150.0					1				
C-25	LOCATION 50	"241SB1" 320+18.16 TO "241SB1" 328+38.77	Lt	775.0							1			1	1
C-25	LOCATION 51	"241B1" 363+60.77 TO "241B1" 364+48.29	Rt	50.0							1		1		
C-26	LOCATION 52	"241B1" 381+65.58 TO "241B1" 382+90.58	Rt	75.0							1	1			
C-26	LOCATION 53	"241B1" 397+12.73 TO "241B1" 398+23.70	Rt	75.0							1		1		
C-26	LOCATION 54	"241B1" 409+91.74 TO "241B1" 410+89.86	Rt	100.0							1				
C-26	LOCATION 55	"241B1" 447+70.73 TO "241B1" 448+58.23	Rt	87.5							1				
C-27	LOCATION 56	"241B1" 464+94.05 TO "241B1" 465+70.96	Rt	37.5							1		1		
C-27	LOCATION 57	"241A2" 539+45.82 TO "241A2" 540+20.84	Rt	37.5							1		1		
C-27	LOCATION 58	"241NBR1" 1582+73.81 TO "241NBR1" 1584+64.31	Rt	150.0							1		1		
C-28	LOCATION 60	"241CH7" 34+96.29 TO "241CH7" 35+08.72	Rt	12.5							1				
C-28	LOCATION 61	"241A3" 716+79.63 TO "241A3" 720+98.54	Lt	87.5	262.5				1					1	1
C-28	LOCATION 62	"241SBTOLL1" 776+93.39 TO "241SBTOLL1" 777+30.97	Lt										1		
C-28	LOCATION 63	"241A3" 782+39.23 TO "241A3" 783+13.44	Rt	37.5							1		1		
C-29	LOCATION 64	"241NBTOLL1" 795+12.49 TO "241NBTOLL1" 796+11.74	Rt	50.0							1	1			
C-29	LOCATION 65	"241NBTOLL1" 800+11.32 TO "241NBTOLL1" 801+61.34	Rt	112.5							1		1		
C-29	LOCATION 66	"241SBTOLL1" 803+49.70 TO "241A3" 804+89.88	Lt	50.0							1	1			
C-29	LOCATION 67	"91ES241" 4918+68.56 TO "91ES241" 4919+18.56	Lt									1			
C-30	LOCATION 68	"91ES241" 4924+95.00 TO "91ES241" 4926+36.05	Lt	100.0							1		1		
C-30	LOCATION 69	"241NE91" 6928+86.41 TO "241NE91" 6930+85.02	Lt			175.0		1							
			SUBTOTAL	4575.0	262.5	450.0		2	2		26	5	20	2	2
			TOTAL FROM SHEET Q-6	475.0	4162.5				19				27	19	19
			TOTAL FROM SHEET Q-7						36				8		
			TOTAL FROM SHEET Q-8	6737.4	100.0		2		13	1	22	4	21	2	2
			GRAND TOTAL	11787.4	4525.0	450.0	2	2	70	1	48	9	76	23	23

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

SUMMARY OF QUANTITIES

3 REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011

Q-9

REVISED BY	RK/WT	CALCULATED-DESIGNED BY	LINDSAY KAUFMANN
DATE REVISED	07/22/10	CHECKED BY	LINDSAY KAUFMANN
CONSULTANT FUNCTIONAL SUPERVISOR	MIKE CHESNEY		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

trrichf 23-JUN-2011 15:48 c0g370pa009.add

LAST REVISION 06-08-10 | DATE PLOTTED => 23-JUN-2011 TIME PLOTTED => 15:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	61	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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

RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027

3

NOTE:

LENGTHS SHOWN ARE BASED ON SURVEY DATA & FIELD MEASUREMENTS. THEY ARE NOT EXACT CALCULATIONS PER STATION LIMITS SHOWN.

GUARD RAILING DELINEATORS

SHEET No.	DESCRIPTION	STATION LIMITS	LOCATION	GUARD RAILING DELINEATOR (TYPE F) EA	GUARD RAILING DELINEATOR (TYPE G) EA
C-1	RECONSTRUCT MBGR	"241A1" 2052+12.17 TO "241A1" 2068+00.55	R†	64	
C-1	RECONSTRUCT MBGR	"241A1" 2064+92.30 TO "241A1" 2065+29.61	L†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2077+50.47 TO "241A1" 2086+99.46	L†	39	
C-1	RECONSTRUCT MBGR	"241A1" 2086+61.66 TO "241A1" 2086+67.91	R†	2	
C-1	RECONSTRUCT MBGR	"241A1" 2088+50.40 TO "241A1" 2088+56.95	L†	2	
C-1	RECONSTRUCT MBGR	"241A1" 2090+68.25 TO "241A1" 2103+38.93	L†	53	
C-1	RECONSTRUCT MBGR	"241A1" 2095+44.48 TO "241A1" 2096+11.18	R†	4	
C-1	RECONSTRUCT MBGR	"241A1" 2105+75.48 TO "241A1" 2111+30.24	L†	24	
C-1	RECONSTRUCT MBGR	"241A1" 2105+79.87 TO "241A1" 2109+22.57	R†	15	
C-1	RECONSTRUCT MBGR	"241A1" 2113+98.62 TO "241A1" 2115+08.29	R†	6	
C-1	RECONSTRUCT MBGR	"241A1" 2129+00.09 TO "241A1" 2131+12.55	L†	10	
C-1	RECONSTRUCT MBGR	"241A1" 2137+25.18 TO "241A1" 2138+87.56	L†	8	
C-1	RECONSTRUCT MBGR	"241A1" 2143+09.24 TO "241A1" 2144+07.77	R†	5	
C-1	RECONSTRUCT MBGR	"241A1" 2146+96.55 TO "241A1" 2148+44.89	R†	8	
C-1	RECONSTRUCT MBGR	"241A1" 2147+82.94 TO "241A1" 2152+83.24	L†	21	
C-1	RECONSTRUCT MBGR	"241A1" 2154+01.78 TO "241A1" 2154+68.61	R†	4	
C-1	RECONSTRUCT MBGR	"241A1" 2157+45.43 TO "241A1" 2158+07.64	L†	4	
C-1	RECONSTRUCT MBGR	"241A1" 2159+47.01 TO "241A1" 2163+34.44	R†	18	
C-1	RECONSTRUCT MBGR	"241A1" 2175+74.57 TO "241A1" 2176+34.60	R†		4
C-1	RECONSTRUCT MBGR	"241A1" 2175+81.35 TO "241A1" 2176+29.11	R†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2176+82.00 TO "241A1" 2177+84.43	L†	5	
C-1	RECONSTRUCT MBGR	"241A1" 2176+82.22 TO "241A1" 2177+84.73	L†		5
C-1	RECONSTRUCT MBGR	"241A1" 2186+91.03 TO "241A1" 2187+29.55	L†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2192+31.36 TO "241A1" 2192+56.05	R†	2	
C-1	RECONSTRUCT MBGR	"241A1" 2196+87.69 TO "241A1" 2197+25.29	L†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2206+18.32 TO "241A1" 2206+55.71	R†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2209+10.85 TO "241A1" 2209+30.90	L†		4
C-1	RECONSTRUCT MBGR	"241A1" 2209+16.86 TO "241A1" 2209+34.12	L†		6
C-1	RECONSTRUCT MBGR	"241A1" 2209+65.05 TO "241A1" 2209+68.38	L†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2213+67.35 TO "241A1" 2214+04.58	R†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2213+70.75 TO "241A1" 2217+44.22	R†		3
C-1	RECONSTRUCT MBGR	"241A1" 2218+92.86 TO "241A1" 2219+30.33	L†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2242+19.25 TO "241A1" 2246+98.57	R†	21	
C-1	RECONSTRUCT MBGR	"241A1" 2242+31.48 TO "241A1" 2245+85.08	L†	15	
C-1	RECONSTRUCT MBGR	"241A1" 2280+68.84 TO "241A1" 2281+06.80	R†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2297+09.03 TO "241A1" 2299+96.23	R†		13
C-1	RECONSTRUCT MBGR	"241A1" 2300+61.98 TO "241A1" 2301+73.97	L†		6
C-1	RECONSTRUCT MBGR	"241A1" 2304+13.57 TO "241A1" 2305+25.49	L†		6
C-1	RECONSTRUCT MBGR	"241A1" 2308+96.61 TO "241A1" 2316+50.17	L†	32	
			SUBTOTAL	389	47

GUARD RAILING DELINEATORS

SHEET No.	DESCRIPTION	STATION LIMITS	LOCATION	GUARD RAILING DELINEATOR (TYPE F) EA	GUARD RAILING DELINEATOR (TYPE G) EA
C-1	RECONSTRUCT MBGR	"241A1" 2315+86.12 TO "241A1" 2316+17.58	R†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2345+33.95 TO "241A1" 2345+72.16	L†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2345+94.43 TO "241A1" 2346+12.29	R†	2	
C-1	RECONSTRUCT MBGR	"241A1" 2359+00.34 TO "241A1" 2361+29.58	L†	11	
C-1	RECONSTRUCT MBGR	"241A1" 2372+86.77 TO "241A1" 2373+13.50	R†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2391+70.90 TO "241A1" 2391+97.18	R†	3	
C-1	RECONSTRUCT MBGR	"241A1" 2391+74.73 TO "241A1" 2392+00.49	R†		3
C-1	RECONSTRUCT MBGR	"241A1" 2410+02.18 TO "241A1" 2410+64.44	L†	4	
C-1	RECONSTRUCT MBGR	"241A1" 2414+84.90 TO "241A1" 2417+23.37	R†	11	
C-1	RECONSTRUCT MBGR	"241A1" 2442+40.11 TO "241A1" 2444+21.15	L†	9	
C-1	RECONSTRUCT MBGR	"241A1" 2446+91.24 TO "241A1" 2452+19.75	L†	23	
C-1	RECONSTRUCT MBGR	"241A1" 2465+62.36 TO "241A1" 2468+38.86	L†	13	
C-1	RECONSTRUCT MBGR	"241A1" 2471+09.89 TO "241A1" 2476+71.43	L†	25	
C-1	RECONSTRUCT MBGR	"241A1" 2474+99.99 TO "241A1" 2475+24.93	R†	2	
C-1	RECONSTRUCT MBGR	"241A1" 2476+78.55 TO "241A1" 2477+15.64	R†	3	
C-2	RECONSTRUCT MBGR	"241A1" 2479+77.17 TO "241A1" 2482+43.81	R†	13	
C-2	RECONSTRUCT MBGR	"241A1" 2481+73.87 TO "241A1" 2481+98.55	L†	3	
C-2	RECONSTRUCT MBGR	"241A1" 2485+23.14 TO "241A1" 2485+53.42	R†		3
C-2	RECONSTRUCT MBGR	"241A1" 2485+28.95 TO "241A1" 2485+59.21	R†	3	
C-2	RECONSTRUCT MBGR	"241A1" 2485+49.27 TO "241A1" 2485+55.17	R†	2	
C-2	RECONSTRUCT MBGR	"241A1" 2488+25.65 TO "241A1" 2489+96.93	L†	8	
C-2	RECONSTRUCT MBGR	"241A1" 2509+14.99 TO "241A1" 2511+27.07	L†	10	
C-2	RECONSTRUCT MBGR	"241A1" 2509+86.89 TO "241A1" 2511+61.62	R†	8	
C-2	RECONSTRUCT MBGR	"241A1" 2518+53.52 TO "241A1" 2523+90.80	L†	23	
C-2	RECONSTRUCT MBGR	"241A1" 2527+78.41 TO "241A1" 2529+40.82	L†	8	
C-2	RECONSTRUCT MBGR	"241A1" 2537+07.08 TO "241A1" 2537+56.98	R†	3	
C-2	RECONSTRUCT MBGR	"241A1" 2537+78.97 TO "241A1" 2538+16.24	L†	3	
C-2	RECONSTRUCT MBGR	"241A1" 2542+16.15 TO "241A1" 2544+64.93	R†	12	
C-2	RECONSTRUCT MBGR	"241A1" 2547+23.82 TO "241A1" 2553+14.81	L†	25	
C-2	RECONSTRUCT MBGR	"241A1" 2548+59.07 TO "241A1" 2548+96.46	R†		3
C-2	RECONSTRUCT MBGR	"241A1" 2556+11.18 TO "241A1" 2556+49.74	L†		3
C-2	RECONSTRUCT MBGR	"241A1" 2557+28.41 TO "241A1" 2558+10.36	R†	5	
			SUBTOTAL	241	12
			SHEET TOTAL	630	59

SUMMARY OF QUANTITIES

3 REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR MIKE CHESNEY
CALCULATED-DESIGNED BY LINDSAY KAUFMANN
CHECKED BY LINDSAY KAUFMANN
REVISED BY RK/WT
DATE REVISED 07/22/10
trrichf 23-JUN-2011 15:48
c0g370pa020.add
LAST REVISION 06-08-10
DATE PLOTTED => 23-JUN-2011
TIME PLOTTED => 15:48
BORDER LAST REVISED 7/2/2010
USERNAME => trrichf
DGN FILE => c0g370pa020.add
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2998
PROJECT NUMBER & PHASE 12000001431

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	62	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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

RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027

3

NOTE:

LENGTHS SHOWN ARE BASED ON SURVEY DATA & FIELD MEASUREMENTS. THEY ARE NOT EXACT CALCULATIONS PER STATION LIMITS SHOWN.

GUARD RAILING DELINEATORS

SHEET No.	DESCRIPTION	STATION LIMITS	LOCATION	GUARD RAILING DELINEATOR (TYPE F) EA	GUARD RAILING DELINEATOR (TYPE G) EA
C-2	RECONSTRUCT MBGR	"241NP2" 2562+96.59 TO "241NP2" 2563+83.80	R†	5	
C-2	RECONSTRUCT MBGR	"241A1" 2568+71.37 TO "241A1" 2569+70.84	R†	5	
C-2	RECONSTRUCT MBGR	"241NP2" 2576+54.55 TO "241NP2" 2576+92.02	R†	3	
C-2	RECONSTRUCT MBGR	"241A1" 2592+07.77 TO "241A1" 2593+56.28	L†	8	
C-2	RECONSTRUCT MBGR	"241A1" 2596+02.41 TO "241A1" 2596+94.90	R†	5	
C-2	RECONSTRUCT MBGR	"241A1" 2613+63.88 TO "241A1" 2614+01.35	L†	3	
C-2	RECONSTRUCT MBGR	"241A1" 2620+46.62 TO "241NB1" 270+84.64	R†	51	
C-2	RECONSTRUCT MBGR	"241SBTOLL2" 2621+48.72 TO "241SB1" 273+30.43	L†	56	
C-2	RECONSTRUCT MBGR	"241NB1" 277+06.01 TO "241NB1" 277+44.18	R†	3	
C-2	RECONSTRUCT MBGR	"241SB1" 279+19.05 TO "241SB1" 282+54.02	L†	15	
C-2	RECONSTRUCT MBGR	"241SB1" 288+47.08 TO "241SB1" 288+84.46	L†	3	
C-2	RECONSTRUCT MBGR	"241WS133" 87+39.31 TO "241WS133" 93+70.21	L†		27
C-2	RECONSTRUCT MBGR	"241SB1" 288+41.51 TO "133NE241" 89+22.34	L†	4	
C-2	RECONSTRUCT MBGR	"133NE241" 94+08.36 TO "133NE241" 99+43.93	L†	22	
C-2	RECONSTRUCT MBGR	"133NE241" 97+01.16 TO "133NE241" 99+67.32	R†		12
C-2	RECONSTRUCT MBGR	"241NB1" 305+72.61 TO "241NB1" 307+49.85	R†	8	
C-2	RECONSTRUCT MBGR	"241WS133" 105+65.09 TO "241WS133" 110+16.44	R†		20
C-2	RECONSTRUCT MBGR	"241SB1" 305+87.56 TO "241SB1" 311+97.37	L†	26	
C-2	RECONSTRUCT MBGR	"241SB1" 314+51.57 TO "241SB1" 317+35.32	L†	13	
C-2	RECONSTRUCT MBGR	"241S133" 68+37.76 TO "241S133" 69+39.89	L†	6	
C-2	RECONSTRUCT MBGR	"241NB1" 327+91.12 TO "241NB1" 329+95.08	R†	10	
C-2	RECONSTRUCT MBGR	"241S133" 71+10.96 TO "241SB1" 347+18.07	L†	70	
C-2	RECONSTRUCT MBGR	"133N241" 9334+56.97 TO "241B1" 352+36.07	R†	79	
C-2	RECONSTRUCT MBGR	"241SB1" 334+32.90 TO "241SB1" 334+70.40	L†		3
C-2	RECONSTRUCT MBGR	"241B1" 374+85.19 TO "241B1" 375+55.73	R†	4	
C-2	RECONSTRUCT MBGR	"241B1" 382+11.60 TO "241B1" 382+49.16	L†	3	
C-2	RECONSTRUCT MBGR	"241B1" 382+90.64 TO "241B1" 393+98.79	R†	46	
C-2	RECONSTRUCT MBGR	"241B1" 396+39.43 TO "241B1" 396+45.03	L†	2	
C-2	RECONSTRUCT MBGR	"241B1" 398+23.40 TO "241B1" 402+54.93	R†	19	
C-2	RECONSTRUCT MBGR	"241B1" 418+36.28 TO "241B1" 430+04.25	R†	49	
C-2	RECONSTRUCT MBGR	"241B1" 435+92.05 TO "241B1" 436+29.97	L†	3	
C-2	RECONSTRUCT MBGR	"241B1" 438+07.07 TO "241B1" 447+83.23	R†	41	
C-2	RECONSTRUCT MBGR	"241B1" 496+37.50 TO "241B1" 504+06.25	R†	32	
C-2	RECONSTRUCT MBGR	"241B1" 504+92.02 TO "241B1" 516+01.02	R†	47	
C-2	RECONSTRUCT MBGR	"241B1" 519+03.46 TO "241B1" 519+40.16	R†	3	
C-2	RECONSTRUCT MBGR	"241A2" 529+81.04 TO "241A2" 535+09.84	R†	23	
C-2	RECONSTRUCT MBGR	"241A2" 557+93.30 TO "241A2" 558+30.70	R†	3	
C-2	RECONSTRUCT MBGR	"241A2" 568+04.75 TO "241NBR1" 1572+16.39	R†		18
C-2	RECONSTRUCT MBGR	"241SBR1" 2576+00.28 TO "241SBR1" 2581+61.81	L†	24	
C-2	RECONSTRUCT MBGR	"241NBR1" 1589+39.28 TO "241NBR1" 1591+16.91	R†		8
C-2	RECONSTRUCT MBGR	"241SBR1" 2584+87.70 TO "241SBR1" 2593+61.19	L†	42	
C-2	RECONSTRUCT MBGR	"241SBR1" 2592+41.42 TO "241SBR1" 2593+92.29	L†		8
C-2	RECONSTRUCT MBGR	"241SBR1" 2593+45.73 TO "241SBR1" 2594+50.60	L†	6	
C-2	RECONSTRUCT MBGR	"241CH8" 30+48.30 TO "241CH8" 31+20.20	R†	6	
C-2	RECONSTRUCT MBGR	"241CH8" 37+83.00 TO "241CH8" 41+86.40	R†	18	
C-2	RECONSTRUCT MBGR	"241CH8" 37+83.65 TO "241CH8" 47+46.22	L†		40
C-2	RECONSTRUCT MBGR	"241NBR1" 1597+72.40 TO "241NBR1" 1599+18.22	R†	7	
C-2	RECONSTRUCT MBGR	"241SBR1" 2598+96.97 TO "241SBR1" 2604+63.70	L†	24	
C-2	RECONSTRUCT MBGR	"241NBR1" 1603+83.06 TO "241NBR1" 1607+51.20	R†	16	
			SUBTOTAL	813	136

GUARD RAILING DELINEATORS

SHEET No.	DESCRIPTION	STATION LIMITS	LOCATION	GUARD RAILING DELINEATOR (TYPE F) EA	GUARD RAILING DELINEATOR (TYPE G) EA
C-2	RECONSTRUCT MBGR	"241CH7" 34+95.69 TO "241CH7" 46+57.82	L†	47	
C-2	RECONSTRUCT MBGR	"241CH7" 35+08.72 TO "241CH7" 39+49.49	R†		19
C-2	RECONSTRUCT MBGR	"241CH7" 610+61.66 TO "241CH7" 614+00.05	L†	15	
C-2	RECONSTRUCT MBGR	"241SBR1" 2626+21.53 TO "241SBR1" 2626+59.23	L†	3	
C-2	RECONSTRUCT MBGR	"261B241" 2812+63.52 TO "261B241" 2813+50.97	R†	5	
C-2	RECONSTRUCT MBGR	"261B241" 2818+08.14 TO "261B241" 2818+91.38	R†	5	
C-2	RECONSTRUCT MBGR	"261B241" 2819+24.84 TO "261B241" 2826+49.76	R†	30	
C-2	RECONSTRUCT MBGR	"261B241" 2834+91.34 TO "261B241" 2835+28.95	L†	3	
C-2	RECONSTRUCT MBGR	"241A3" 652+84.08 TO "241A3" 654+77.17	R†	9	
C-2	RECONSTRUCT MBGR	"241A3" 653+74.22 TO "241A3" 665+10.65	L†	7	
C-2	RECONSTRUCT MBGR	"241A3" 668+28.39 TO "241A3" 672+39.34	R†	18	
C-2	RECONSTRUCT MBGR	"241A3" 668+56.41 TO "241A3" 670+29.86	L†	8	
C-2	RECONSTRUCT MBGR	"241A3" 677+53.71 TO "241A3" 693+02.49	R†	65	
C-2	RECONSTRUCT MBGR	"241A3" 686+03.89 TO "241A3" 713+59.37	L†	112	
C-2	RECONSTRUCT MBGR	"241A3" 698+70.74 TO "241A3" 713+47.11	R†	59	
C-2	RECONSTRUCT MBGR	"241A3" 716+77.92 TO "241A3" 734+57.77	R†	72	
C-2	RECONSTRUCT MBGR	"241A3" 716+94.62 TO "241A3" 756+04.30	L†	157	
C-2	RECONSTRUCT MBGR	"241A3" 738+35.34 TO "241A3" 739+07.87	R†	4	
C-2	RECONSTRUCT MBGR	"241A3" 742+62.04 TO "241A3" 756+10.46	R†	56	
C-2	RECONSTRUCT MBGR	"241A3" 759+02.16 TO "241NBTOLL1" 772+91.49	R†	57	
C-2	RECONSTRUCT MBGR	"241SBTOLL1" 773+91.66 TO "241SBTOLL1" 776+93.38	L†	13	
C-2	RECONSTRUCT MBGR	"241A3" 780+27.88 TO "241A3" 780+65.09	R†	3	
C-2	RECONSTRUCT MBGR	"241A3" 782+26.53 TO "241A3" 782+64.25	L†	3	
C-2	RECONSTRUCT MBGR	"241A3" 813+03.06 TO "241A3" 815+28.19	L†	11	
C-2	RECONSTRUCT MBGR	"241A3" 814+49.31 TO "241A3" 814+91.31	R†	3	
C-2	RECONSTRUCT MBGR	"241A3" 817+44.45 TO "241A3" 852+07.15	R†	139	
C-2	RECONSTRUCT MBGR	"241A3" 817+72.25 TO "241A3" 821+16.52	L†	15	
C-2	RECONSTRUCT MBGR	"241A3" 824+66.47 TO "241A3" 833+38.25	L†	37	
C-2	RECONSTRUCT MBGR	"241A3" 844+08.04 TO "241A3" 851+19.18	L†	30	
C-2	RECONSTRUCT MBGR	"241A3" 852+21.96 TO "241A3" 857+07.76	R†	21	
C-2	RECONSTRUCT MBGR	"241A3" 863+45.26 TO "241A3" 895+29.21	R†	129	
C-2	RECONSTRUCT MBGR	"241A3" 865+53.79 TO "241A3" 887+61.65	L†	90	
			SUBTOTAL	1226	19
			SHEET TOTAL	2039	155

SUMMARY OF QUANTITIES

3 REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011

Q-21

REVISED BY	RK/WT	CALCULATED-DESIGNED BY	trrichf
DATE REVISED	07/22/10	CHECKED BY	LINDSAY KAUFMANN
CONSULTANT FUNCTIONAL SUPERVISOR	MIKE CHESNEY		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

23-JUN-2011 15:48
c0g370pa021.add

LAST REVISION 06-08-10 | DATE PLOTTED => 23-JUN-2011 | TIME PLOTTED => 15:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	241	15.5/39.0	63	117

Lindsay M. Kaufmann 09/01/10
REGISTERED CIVIL ENGINEER DATE

10-18-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER LINDSAY M. KAUFMANN No. C71806 Exp. 12/31/11 CIVIL STATE OF CALIFORNIA

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

RBF CONSULTING
14725 ALTON PKWY
IRVINE, CA. 92618-2027

3

NOTE:

LENGTHS SHOWN ARE BASED ON SURVEY DATA & FIELD MEASUREMENTS. THEY ARE NOT EXACT CALCULATIONS PER STATION LIMITS SHOWN.

GUARD RAILING DELINEATORS

SHEET No.	DESCRIPTION	STATION LIMITS	LOCATION	GUARD RAILING DELINEATOR (TYPE F)	GUARD RAILING DELINEATOR (TYPE G)
				EA	EA
C-2	RECONSTRUCT MBGR	"241A3" 895+35.90 TO "241NW91" 3901+23.52	R†	25	
C-2	RECONSTRUCT MBGR	"91WS241" 5900+96.64 TO "91ES241" 4911+44.68	L†	43	
C-3	RECONSTRUCT MBGR	"241NE91" 6909+01.76 TO "241NE91" 6914+50.76	R†	23	
C-3	RECONSTRUCT MBGR	"241NW91" 3909+07.89 TO "241NW91" 3918+18.84	L†		38
C-3	RECONSTRUCT MBGR	"91ES241" 4912+32.06 TO "91ES241" 4918+68.56	L†	27	
C-3	RECONSTRUCT MBGR	"91ES241" 4919+43.35 TO "91ES241" 4924+01.26	L†	19	
C-3	RECONSTRUCT MBGR	"91ES241" 4920+04.35 TO "91ES241" 4933+74.06	R†		56
C-3	RECONSTRUCT MBGR	"91ES241" 4928+49.47 TO "91ES241" 4930+02.66	L†	7	
C-3	RECONSTRUCT MBGR	"91WS241" 5913+90.20 TO "91WS241" 5920+92.58	R†		30
C-3	RECONSTRUCT MBGR	"91WS241" 5919+24.12 TO "91WS241" 5921+20.54	L†	9	
C-3	RECONSTRUCT MBGR	"91WS241" 5923+72.74 TO "91WS241" 5930+55.96	R†		29
C-3	RECONSTRUCT MBGR	"91WS241" 5923+99.70 TO "91WS241" 5930+30.00	L†	27	
C-3	RECONSTRUCT MBGR	"241NW91" 3923+29.25 TO "241NW91" 3927+79.23	L†		19
C-3	RECONSTRUCT MBGR	"241NW91" 3924+51.72 TO "241NW91" 3930+71.65	R†	27	
C-3	RECONSTRUCT MBGR	"241NE91" 6918+27.12 TO "241NE91" 6919+80.92	L†		8
C-4	MBGR LAYOUT 12E	"241A1" 2084+72.43 TO "241A1" 2086+90.81	R†		10
C-4	MBGR LAYOUT 12E	"241A1" 2088+27.10 TO "241A1" 2090+45.50	L†		10
C-4	MBGR LAYOUT 12E	"241A1" 2148+82.74 TO "241A1" 2154+46.42	R†		23
C-4	MBGR LAYOUT 12E	"241A1" 2157+47.21 TO "241A1" 2159+61.08	L†		10
C-4	MBGR LAYOUT 12E	"241A1" 2158+13.27 TO "241A1" 2161+72.17	L†		16
C-4	MBGR LAYOUT 12E	"241A1" 2257+03.28 TO "241A1" 2259+95.54	R†		13
C-4	MBGR LAYOUT 12E	"241A1" 2262+20.79 TO "241A1" 2263+52.48	L†		7
C-4	MBGR LAYOUT 12E	"241A1" 2312+32.10 TO "241A1" 2316+45.33	R†		17
C-4	MBGR LAYOUT 12E	"241A1" 2332+55.18 TO "241A1" 2336+35.10	L†		17
C-4	MBGR LAYOUT 12E	"241A1" 2342+48.59 TO "241A1" 2346+64.65	R†		18
C-4	MBGR LAYOUT 12E	"241A1" 2358+47.34 TO "241A1" 2361+29.74	L†		13
C-4	MBGR LAYOUT 12E	"241A1" 2482+89.67 TO "241A1" 2485+82.10	R†		13
C-4	MBGR LAYOUT 12E	"241A1" 2487+90.61 TO "241A1" 2490+09.95	L†		10
C-4	MBGR LAYOUT 12E	"241A3" 651+23.78 TO "241A3" 655+04.26	R†		17
C-4	MBGR LAYOUT 12E	"241A3" 668+33.51 TO "241A3" 671+16.08	L†		13
C-4	MBGR LAYOUT 12E	"241A3" 710+64.74 TO "241A3" 713+47.83	R†		13
C-4	MBGR LAYOUT 12E	"241A3" 752+11.57 TO "241A3" 756+27.98	R†		18
C-4	MBGR LAYOUT 12E	"241A3" 817+56.55 TO "241A3" 821+37.12	L†		17
C-4	MBGR LAYOUT 12E	"241NW91" 3928+38.39 TO "241NW91" 3930+95.61	L†		12
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2175+38.63 TO "241A1" 2175+74.57	R†		3
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2175+46.11 TO "241A1" 2175+81.35	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2187+29.55 TO "241A1" 2187+67.79	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2197+25.29 TO "241A1" 2197+62.46	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2205+80.86 TO "241A1" 2206+18.32	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2209+65.05 TO "241A1" 2209+65.87	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2213+29.91 TO "241A1" 2213+67.35	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2219+30.33 TO "241A1" 2219+67.61	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2245+85.08 TO "241A1" 2246+23.76	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2280+30.83 TO "241A1" 2280+68.84	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2296+71.85 TO "241A1" 2297+09.03	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2301+73.97 TO "241A1" 2302+10.37	L†		3
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2361+29.58 TO "241A1" 2361+66.74	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2372+49.54 TO "241A1" 2372+86.77	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2391+37.76 TO "241A1" 2391+74.73	R†		3
			SUBTOTAL	243	456

GUARD RAILING DELINEATORS

SHEET No.	DESCRIPTION	STATION LIMITS	LOCATION	GUARD RAILING DELINEATOR (TYPE F)	GUARD RAILING DELINEATOR (TYPE G)
				EA	EA
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2397+13.20 TO "241A1" 2397+50.67	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2410+64.44 TO "241A1" 2411+01.67	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2414+47.61 TO "241A1" 2414+84.90	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2419+02.08 TO "241A1" 2419+39.60	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2428+97.85 TO "241A1" 2429+37.48	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2452+19.75 TO "241A1" 2452+55.99	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2468+38.86 TO "241A1" 2468+74.76	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2476+71.43 TO "241A1" 2476+96.34	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2479+54.41 TO "241A1" 2479+77.17	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2481+98.55 TO "241A1" 2482+35.93	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2484+86.52 TO "241A1" 2485+23.14	R†		3
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2484+92.26 TO "241A1" 2485+28.95	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2485+13.94 TO "241A1" 2485+49.27	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2529+40.82 TO "241A1" 2529+78.11	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2538+16.24 TO "241A1" 2538+53.28	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2541+78.68 TO "241A1" 2542+16.15	R†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241A1" 2553+14.81 TO "241A1" 2553+50.72	L†	3	
C-5	TERMINAL SYSTEM UPGRADE	"241SB1" 280+51.47 TO "241SB1" 280+89.01	L†		3
C-5	TERMINAL SYSTEM UPGRADE	"241CH8" 31+04.02 TO "241CH8" 31+41.35	L†		3
C-5	TERMINAL SYSTEM UPGRADE	"241A3" 758+87.39 TO "241A3" 759+25.27	L†	3	
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2086+67.91 TO "241A1" 2086+92.91	R†	2	
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2088+25.40 TO "241A1" 2088+50.40	L†	2	
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2154+68.61 TO "241A1" 2154+93.01	R†	2	
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2157+18.94 TO "241A1" 2157+45.43	L†	2	
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2227+12.48 TO "241A1" 2227+37.48	R†		2
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2241+93.14 TO "241A1" 2242+17.18	L†		2
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2242+05.61 TO "241A1" 2242+31.48	L†	2	
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2259+77.92 TO "241A1" 2260+02.01	R†	2	
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2262+29.52 TO "241A1" 2262+55.40	L†	2	
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2316+17.58 TO "241A1" 2316+43.12	R†	2	
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2346+12.29 TO "241A1" 2346+36.79	R†	2	
C-7	TRANSITION RAILING (TYPE WB)	"241A1" 2358+74.89 TO "241A1" 2359+00.34	L†	2	
			SUBTOTAL	71	13
			SHEET TOTAL	314	469

SUMMARY OF QUANTITIES

3 **REVISED PER ADDENDUM No. 3 DATED JUNE 24, 2011**

Q-22

REVISED BY	RK/WT		
DATE REVISED	07/22/10		
CALCULATED-DESIGNED BY	LINDSAY KAUFMANN	CHECKED BY	LINDSAY KAUFMANN
CONSULTANT FUNCTIONAL SUPERVISOR	MIKE CHESNEY		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

23-JUN-2011 15:48 trrichf c0g370pa022.add

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