

ROADWAY LIGHT POLE AND FIXTURE SCHEDULE					TOS-CCTV		TOS-MVDS		CCTV			CABLE ACCESS/HOOKS LOCATION		Aiming Coordinates			
Pole I.D. Number	Pole Height (M)	Lighting Fixture Type Designation	Number of Fixtures/Wattage	Wiring Diagram	Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Plate I.D.	Detail No.	X (M)	Y (M)
						Bracket For	Plate I.D.		Bracket For	Plate I.D.		Bracket For	Plate I.D.				
YBI Transition Structures and YBI Viaduct (Continued from sheet 1 of 9)																	
1022-1	7	YSR-3A	1-250 W	B										A	10		
		YAM	LED														
1022-2	7	YSR-3A	1-250 W	B				5.125	-	B			A / C	11			
		YAM	LED														
1022-3	7	YSR-3A	1-250 W	B									A	10			
		YAM	LED														
1022-4	7	YSR-3A	1-250 W	B									A	10			
		YAM	LED														
1022-5	7	YSR-3A	1-250 W	B									A	10			
		YAM	LED														
1022-6	7	YSR-3A	1-250 W	B									A	10			
		YAM	LED														
1022-7	7	YSR-3A	1-250 W	B									A	10			
		YAM	LED														
1022-8	7	YSR-3A	1-250 W	B									A	10			
		YAM	LED														
1022-9	7	YSR-3A	1-250 W	B									A	10			
		YAM	LED														
1022-10	7	YSR-3A	1-250 W	B									A	10			
		YAM	LED														
1023-1	12	YSR-2B	2-400 W	B				8.010	-	B			A / C	11			
		YSR-3	1-250 W														
		YAM	LED														
1023-2	12	YSR-2B	2-400 W	B									A	10			
		YSR-3	1-250 W														
		YAM	LED														
1023-3	15	YSR-2B	2-400 W	B									A	10			
		YSR-3	1-250 W														
		YAM	LED														
1024-1	15	YSR-2B	2-400 W	B	10.920	CCTV-W01	B						A / C	11			
		YSR-3	1-250 W														
		YAM	LED														
1024-2	17.5	YSR-2B	2-400 W	B									A	10			
		YSR-3	1-250 W														
		YAM	LED														
1024-3	17.5	YSR-2B	2-400 W	B									A	10			
		YSR-3	1-250 W														
		YAM	LED														
1021-1	7	VSR-4C (NOTE 3)	1-175 W	A									A	10			
1021-2	7	VSR-4C (NOTE 3)	1-175 W	A									A	10			
1021-3	7	VSR-4C (NOTE 3)	1-175 W	A									A	10			
1021-4	7	VSR-4C (NOTE 3)	1-175 W	A									A	10			
1021-5	7	VSR-4C (NOTE 3)	1-175 W	A									A	10			
1021-6	7	VSR-4C (NOTE 3)	1-175 W	A									A	10			
1021-13	7	VSR-4C (NOTE 3)	1-175 W	A									A	10			
1021-14	7	VSR-4C (NOTE 3)	1-175 W	A									A	10			
1021-15	7	VSR-4C (NOTE 3)	1-175 W	A									A	10			
1021-16	7	VSR-4C (NOTE 3)	1-175 W	A									A	10			
SELF ANCHORED SUSPENSION																	
1031-1	20	MSR-2B	3-400 W	B									A	10			
		MAM	LED														
1031-2	20	MSR-2B	3-400 W	B			14.855	MVDS-W03	B	15.770	-	B	A / C	12			
		MAM	LED														
1031-3	20	MSR-2	2-400 W	B			14.855	MVDS-W04	B				A / C	12			
		MSR-2B	2-400 W														
		MAM	LED														
1031-4	20	MSR-2	2-400 W	B									A	10			
		MSR-2B	2-400 W														
		MAM	LED														



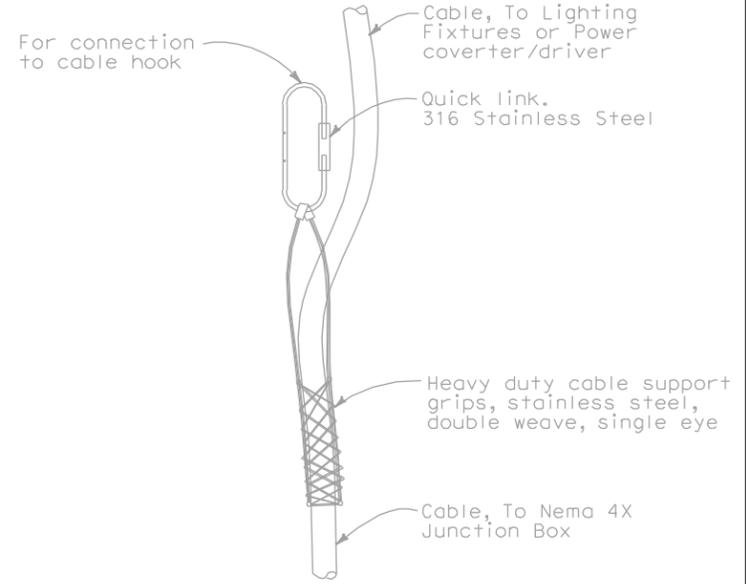
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	12R1	84

REGISTERED ELECTRICAL ENGINEER  
 DATE 2/12/10  
 5-10-2010  
 PLANS APPROVAL DATE

DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

- NOTES:
- For type and description of Roadway lighting fixtures, see sheet E-1.
  - For device mounting bracket and cable hooks locations, see sheet E-10.
  - Roadway Lighting Fixtures for YBI Viaduct, see Viaduct Lighting Assembly Details.



**DETAIL 1**  
 Cable installation and support  
 (See Diagram A or B for termination Sheet E-10)

**"CCO DRAFT"**  
 08/25/2010

**ROADWAY LIGHTING POLE AND FIXTURE SCHEDULES**  
**SHEET 2 OF 9**  
 NO SCALE

ROADWAY LIGHT POLE AND FIXTURE SCHEDULE					TOS-CCTV			TOS-MVDS			CCTV			CABLE ACCESS/HOOKS LOCATION		Aiming Coordinates	
Pole I.D. Number	Pole Height (M)	Lighting Fixture Type Designation	Number of Fixtures/Wattage	Wiring Diagram	Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Plate I.D.	Detail No.	X (M)	Y (M)
						Bracket For	Plate I.D.		Bracket For	Plate I.D.		Bracket For	Plate I.D.				
SELF ANCHORED SUSPENSION (Continued from sheet 2 of 9)																	
1032-1	20	MSR-2	2-400 W	B							15.770	-	B	A / C	11		
		MSR-2B	2-400 W														
		MAM	LED														
1032-2	20	MSR-2	2-400 W	B							15.770	-	B	A / C	11		
		MSR-2B	2-400 W														
		MAM	LED														
Skyway Structures																	
1301-1	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1301-2	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1301-3	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1301-4	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1301-5	20	SSR-2	2-400 W	B		12.635	MVDS-W05	B	14.770	-	B	A / C	12				
		SSR-2B	2-400 W														
		SAM	LED														
1301-6	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1302-1	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1302-2	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1302-3	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1302-4	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1302-5	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1302-6	20	SSR-2	2-400 W	B	13.550	CCTV-W04	B	12.635	MVDS-W06	B	14.770	-	B	A / C	12		
		SSR-2B	2-400 W														
		SAM	LED														
1302-7	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1303-1	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1303-2	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1303-3	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1303-4	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1303-5	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	13R1	84

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- NOTES:
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  - For device mounting bracket and cable hooks locations, see sheet E-10.

**"CCO DRAFT"**  
 08/25/2010

**ROADWAY LIGHTING POLE AND  
 FIXTURE SCHEDULES  
 SHEET 3 OF 9**  
 NO SCALE

**E-3**

REVISIONS

REVISIONS

REVISIONS

REVISIONS

REVISIONS

REVISIONS

ROADWAY LIGHT POLE AND FIXTURE SCHEDULE					TOS-CCTV			TOS-MVDS			CCTV			CABLE ACCESS/HOOKS LOCATION		Aiming Coordinates	
Pole I.D. Number	Pole Height (M)	Lighting Fixture Type Designation	Number of Fixtures/Wattage	Wiring Diagram	Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Plate I.D.	Detail No.	X (M)	Y (M)
						Bracket For	Plate I.D.		Bracket For	Plate I.D.		Bracket For	Plate I.D.				
Skyway Structures (Continued from sheet 3 of 9)																	
1303-6	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1304-1	20	SSR-2	2-400 W	B			12.635	MVDS-W07	B	14.770	-	B	A / C	12			
		SSR-2B	2-400 W														
		SAM	LED														
1304-2	20	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1304-3	20	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1304-4	20	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1304-5	20	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1304-6	20	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1305-1	20	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1305-2	20	SSR-2	2-400 W	B			12.635	MVDS-W08	B	14.770	-	B	A / C	12			
		SSR-2B	2-400 W														
		SAM	LED														
1305-3	17.5	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1305-4	17.5	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1305-5	17.5	SSR-2	2-400 W	B	13.550	CCTV-W02	B						A / C	11			
		SSR-2B	2-400 W														
		SAM	LED														
1305-6	17.5	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1306-1	17.5	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1306-2	15	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1306-3	15	SSR-2	2-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1306-4	15	SSR-2	2-400 W	B			12.635	MVDS-W09	B	13.550	-	B	A / C	12			
		SSR-2B	2-400 W														
		SAM	LED														
1306-5	15	SSR-2	1-400 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1306-6	15	SSR-3	1-250 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1307-1	15	SSR-3	1-250 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	14R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 5-10-2010  
 PLANS APPROVAL DATE

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PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

- NOTES:
- For type and description of Roadway lighting fixtures, see sheet E-1.
  - For device mounting bracket and cable hooks locations, see sheet E-10.

**"CCO \_\_\_\_\_ DRAFT"**  
 08/25/2010  
**ROADWAY LIGHTING POLE AND FIXTURE SCHEDULES**  
**SHEET 4 OF 9**  
 NO SCALE  
**E-4**

REVISOR BY: WILLIAM BECK  
 DATE REVISED: ELLERY LUCAS

CALCULATED-DESIGNED BY: BRADY NADELL  
 CHECKED BY:

ROADWAY LIGHT POLE AND FIXTURE SCHEDULE					TOS-CCTV			TOS-MVDS			CCTV			CABLE ACCESS/HOOKS LOCATION		Aiming Coordinates	
Pole I.D. Number	Pole Height (M)	Lighting Fixture Type Designation	Number of Fixtures/Wattage	Wiring Diagram	Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Plate I.D.	Detail No.	X (M)	Y (M)
						Bracket For	Plate I.D.		Bracket For	Plate I.D.		Bracket For	Plate I.D.				
Skyway Structures (Continued from sheet 4 of 9)																	
1307-2	12	SSR-3	1-250 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
1307-3	12	SSR-3	1-250 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1307-4	12	SSR-3	1-250 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1307-5	12	SSR-3	1-250 W	B									A	10			
		SSR-2B	2-400 W														
		SAM	LED														
1307-6	10	SSR-3	3-250 W	B									A	10			
		SAM	LED														
Oakland Transition Structures																	
1601-1	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
1601-2	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
1601-3	10	OSR-3	3-250 W	B				6.070	-	B	A / C	11					
		OAM	LED														
1601-4	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1601-5	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1601-6	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1601-7	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1601-8	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1602-1	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1602-2	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1602-3	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1602-4	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1602-5	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1602-6	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
1602-7	10	OSR-3	3-250 W	B									A	10			
		OAM	LED														
YBI Transition Structures and YBI Viaduct																	
2023-1	12	YSR-2B	2-400 W	B							8.010	-	B	A / C	11		
		YSR-3	1-250 W														
2023-2	12	YSR-2B	2-400 W	B									A	10			
		YSR-3	1-250 W														
2023-3	12	YSR-2B	2-400 W	B									A	10			
		YSR-3	1-250 W														
		YAM	LED														
2023-4	15	YSR-2B	2-400 W	B									A	10			
		YSR-3	1-250 W														
		YAM	LED														
2024-1	15	YSR-2B	2-400 W	B									A	10			
		YSR-3	1-250 W														
		YAM	LED														



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	15R1	84

REGISTERED ELECTRICAL ENGINEER DATE: 2/12/10  
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DAVID H. OTO  
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- NOTES:
- For type and description of Roadway lighting fixtures, see sheet E-1.
  - For device mounting bracket and cable hooks locations, see sheet E-10.

"CCO DRAFT"  
 08/25/2010

**ROADWAY LIGHTING POLE AND FIXTURE SCHEDULES**  
**SHEET 5 OF 9**  
 NO SCALE



ROADWAY LIGHT POLE AND FIXTURE SCHEDULE					TOS-CCTV			TOS-MVDS			CCTV			CABLE ACCESS/HOOKS LOCATION		Aiming Coordinates	
Pole I.D. Number	Pole Height (M)	Lighting Fixture Type Designation	Number of Fixtures/Wattage	Wiring Diagram	Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Plate I.D.	Detail No.	X (M)	Y (M)
						Bracket For	Plate I.D.		Bracket For	Plate I.D.		Bracket For	Plate I.D.				
YBI Transition Structures and YBI Viaduct (continued from sheet 5 of 9)																	
2024-2	17.5	YSR-2B	2-400 W	B										A	10		
		YSR-3	1-250 W														
		YAM	LED														
2024-3	17.5	YSR-2B	2-400 W	B										A	10		
		YSR-3	1-250 W														
		YAM	LED														
2041-1 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-2 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-3 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-4 (South Side)	7	YSR-3A	1-250 W	A						5.125	-	E	A / D	13			
2041-5 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-6 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-7 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-8 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-9 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-10 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-11 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-12 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2041-13 (South Side)	7	YSR-3A	1-250 W	A										A	10		
2042-1	7	YSR-4	1-175 W	A										A	10		
2042-2	7	YSR-4	1-175 W	A										A	10		
2042-3	7	YSR-4	1-175 W	A										A	10		
2042-4	7	YSR-4	1-175 W	A										A	10		
2042-5	7	YSR-4	1-175 W	A										A	10		
2042-6	7	YSR-4	1-175 W	A										A	10		
2042-7	7	YSR-4	1-175 W	A										A	10		
2042-8	7	YSR-4	1-175 W	A										A	10		
2042-9	7	YSR-4	1-175 W	A										A	10		
2042-10	7	YSR-4	1-175 W	A										A	10		
2042-11	7	YSR-4	1-175 W	A										A	10		
SELF ANCHORED SUSPENSION																	
2031-1	20	MSR-2B	3-400 W	B						15.770	-	B	A / C	11			
		MAM	LED														
2031-2	20	MSR-2B	3-400 W	B				14.855	MVDS-E01	B			A / C	12			
		MAM	LED														



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	16R1	84

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"CCO \_\_\_\_\_ DRAFT"  
 08/25/2010

**ROADWAY LIGHTING POLE AND FIXTURE SCHEDULES**  
**SHEET 6 OF 9**  
 NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

CONSULTANT FUNCTIONAL SUPERVISOR  
 BRADY NADELL

CHECKED BY  
 ELLERY LUCAS

DESIGNED BY  
 WILLIAM BECK

REVISIONS  
 DATE REVISED

ROADWAY LIGHT POLE AND FIXTURE SCHEDULE					TOS-CCTV			TOS-MVDS			CCTV			CABLE ACCESS/HOOKS LOCATION		Aiming Coordinates	
Pole I.D. Number	Pole Height (M)	Lighting Fixture Type Designation	Number of Fixtures/Wattage	Wiring Diagram	Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Plate I.D.	Detail No.	X (M)	Y (M)
						Bracket For	Plate I.D.		Bracket For	Plate I.D.		Bracket For	Plate I.D.				
SELF ANCHORED SUSPENSION (Continued from sheet 6 of 9)																	
2031-3	20	MSR-2	2-400 W	B				14.855	MVDS-E03	B				A / C	12		
		MSR-2B	2-400 W														
		MAM	LED														
2031-4	20	MSR-2	2-400 W	B										A	10		
		MSR-2B	2-400 W														
		MAM	LED														
2032-1	20	MSR-2	2-400 W	B										A	10		
		MSR-2B	2-400 W														
		MAM	LED														
2032-2	20	MSR-2	2-400 W	B				14.770		-	B			A / C	11		
		MSR-2B	2-400 W														
		MAM	LED														
Skyway Structures																	
2301-1	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2301-2	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2301-3	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2301-4	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2301-5	20	SSR-2	2-400 W	B			12.635	MVDS-E04	B	14.770	-	B		A / C	12		
		SSR-2B	2-400 W														
		SAM	LED														
2301-6	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2302-1	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2302-2	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2302-3	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2302-4	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2302-5	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2302-6	20	SSR-2	2-400 W	B			12.635	MVDS-E05	B	14.770	-	B		A / C	12		
		SSR-2B	2-400 W														
		SAM	LED														
2302-7	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2303-1	20	SSR-2	2-400 W	B		13.550	CCTV-E02	B						A / C	11		
		SSR-2B	2-400 W														
		SAM	LED														
2303-2	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2303-3	20	SSR-2	2-400 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	17R1	84

REGISTERED ELECTRICAL ENGINEER  
 DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 STATE OF CALIFORNIA ELECTRICAL

PLANS APPROVAL DATE  
 5-10-2010

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PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

- NOTES:
- For type and description of Roadway lighting fixtures, see sheet E-1.
  - For device mounting bracket and cable hooks locations, see sheet E-10.

**"CCO DRAFT"**  
 08/25/2010

**ROADWAY LIGHTING POLE AND FIXTURE SCHEDULES**  
**SHEET 7 OF 9**  
 NO SCALE

**E-7**

ROADWAY LIGHT POLE AND FIXTURE SCHEDULE					TOS-CCTV			TOS-MVDS			CCTV			CABLE ACCESS/HOOKS LOCATION		Aiming Coordinates		
Pole I.D. Number	Pole Height (M)	Lighting Fixture Type Designation	Number of Fixtures/Wattage	Wiring Diagram	Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Plate I.D.	Detail No.	X (M)	Y (M)	
						Bracket For	Plate I.D.		Bracket For	Plate I.D.		Bracket For	Plate I.D.					
Skyway Structures (Continued from 7 of 9)																		
2303-4	20	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2303-5	20	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2303-6	20	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2304-1	20	SSR-2	2-400 W	B			12.635	MVDS-E06	B	14.770	-	B	A / C	12				
		SSR-2B	2-400 W															
		SAM	LED															
2304-2	20	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2304-3	20	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2304-4	20	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2304-5	20	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2304-6	20	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2305-1	20	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2305-2	20	SSR-2	2-400 W	B			12.635	MVDS-E07	B	14.770	-	B	A / C	12				
		SSR-2B	2-400 W															
		SAM	LED															
2305-3	17.5	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2305-4	17.5	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2305-5	17.5	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2305-6	17.5	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2306-1	17.5	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2306-2	15	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2306-3	15	SSR-2	2-400 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															
2306-4	15	SSR-2	2-400 W	B	13.550	CCTV-E04	B	12.635	MVDS-E08	B	14.770	-	B	A / C	12			
		SSR-2B	2-400 W															
		SAM	LED															
2306-5	15	SSR-3	1-250 W	B										A	10			
		SSR-2B	2-400 W															
		SAM	LED															



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	18R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 5-10-2010  
 PLANS APPROVAL DATE

DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

- NOTES:**
- For type and description of Roadway lighting fixtures, see sheet E-1.
  - For device mounting bracket and cable hooks locations, see sheet E-10.

"CCO DRAFT"  
 08/25/2010

**ROADWAY LIGHTING POLE AND FIXTURE SCHEDULES**  
**SHEET 8 OF 9**  
 NO SCALE

REVISOR BY  
 DATE REVISED

WILLIAM BECK  
 ELLERY LUCAS

CALCULATED-DESIGNED BY  
 CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR  
 BRADY NADELL

ROADWAY LIGHT POLE AND FIXTURE SCHEDULE					TOS-CCTV		TOS-MVDS			CCTV			CABLE ACCESS/HOOKS LOCATION		Aiming Coordinates		
Pole I.D. Number	Pole Height (M)	Lighting Fixture Type Designation	Number of Fixtures/Wattage	Wiring Diagram	Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Mounting Height (M)	Plate Location		Plate I.D.	Detail No.	X (M)	Y (M)
						Bracket For	Plate I.D.		Bracket For	Plate I.D.		Bracket For	Plate I.D.				
Skyway Structures (Continued from sheet 8 of 9)																	
2306-6	15	SSR-3	1-250 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2307-1	15	SSR-3	1-250 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2307-2	12	SSR-3	1-250 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2307-3	12	SSR-3	1-250 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2307-4	12	SSR-3	1-250 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2307-5	12	SSR-3	1-250 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
2307-6	10	SSR-3	3-250 W	B										A	10		
		SSR-2B	2-400 W														
		SAM	LED														
Oakland Transition Structures																	
2601-1	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2601-2	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2601-3	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2601-4	10	OSR-3	3-250 W	B	6.070	CCTV-E03	B							A / C	11		
		OAM	LED														
2601-5	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2601-6	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2601-7	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2601-8	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2602-1	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2602-2	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2602-3	10	OSR-3	3-250 W	B				6.070		-	B			A / C	11		
		OAM	LED														
2602-4	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2602-5	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2602-6	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														
2602-7	10	OSR-3	3-250 W	B										A	10		
		OAM	LED														



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	19R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 PLANS APPROVAL DATE 5-10-2010  
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 San Francisco, CA 94107-1317

- NOTES:
- For type and description of Roadway lighting fixtures, see sheet E-1.
  - For device mounting bracket and cable hooks locations, see sheet E-10.

"CCO \_\_\_\_\_ DRAFT"  
 08/25/2010

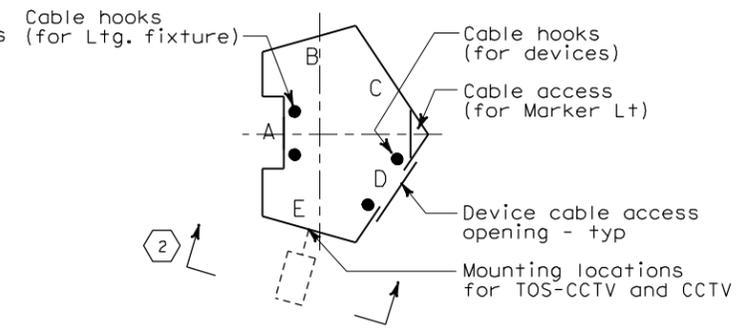
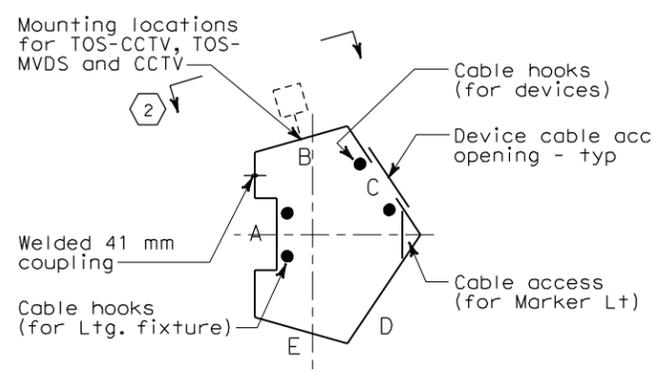
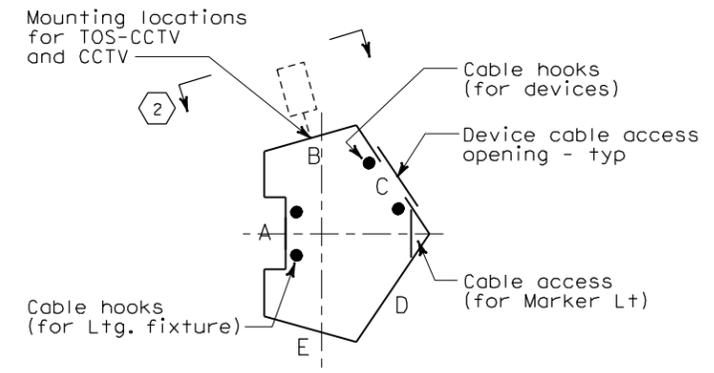
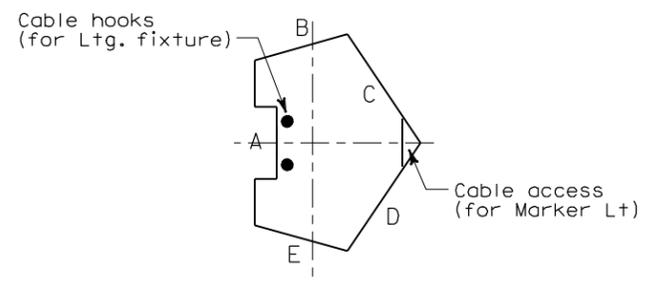
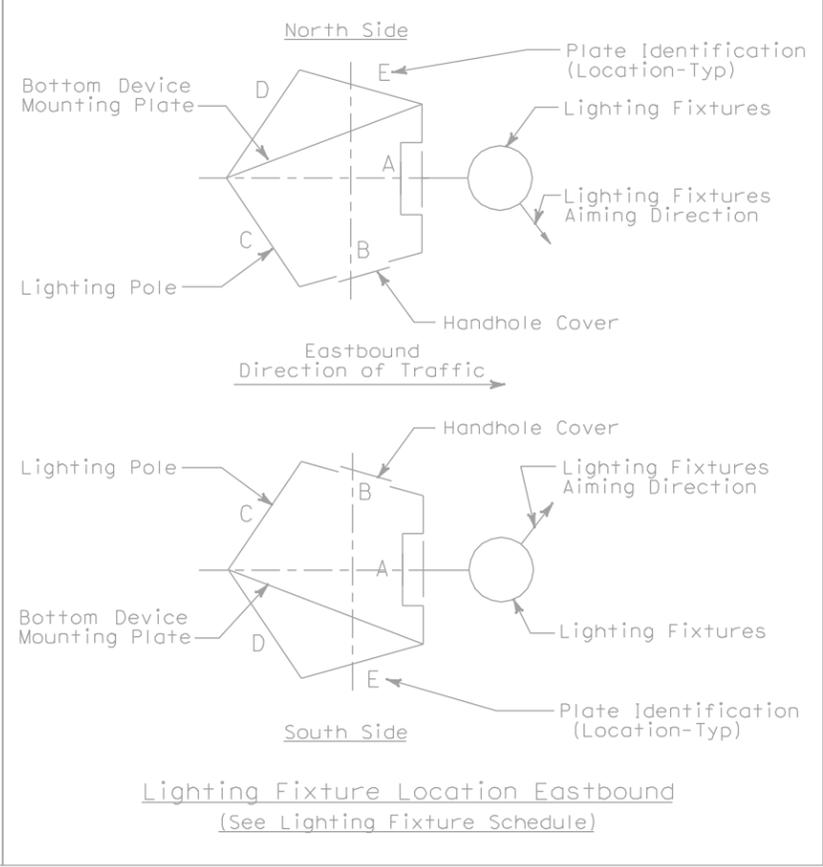
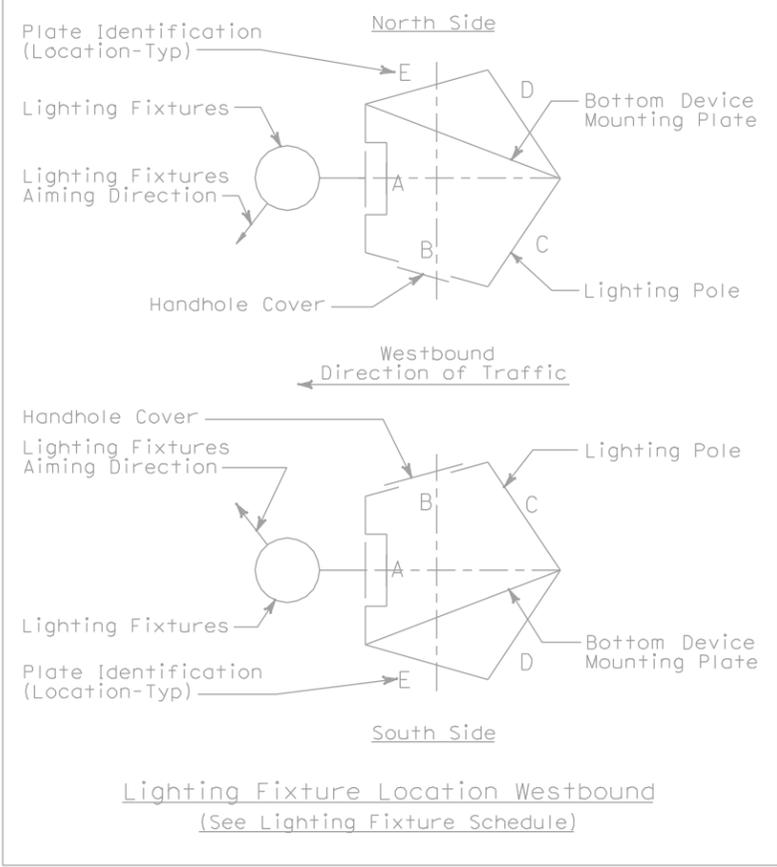
**ROADWAY LIGHTING POLE AND FIXTURE SCHEDULES**  
**SHEET 9 OF 9**  
 NO SCALE



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**Caltrans**

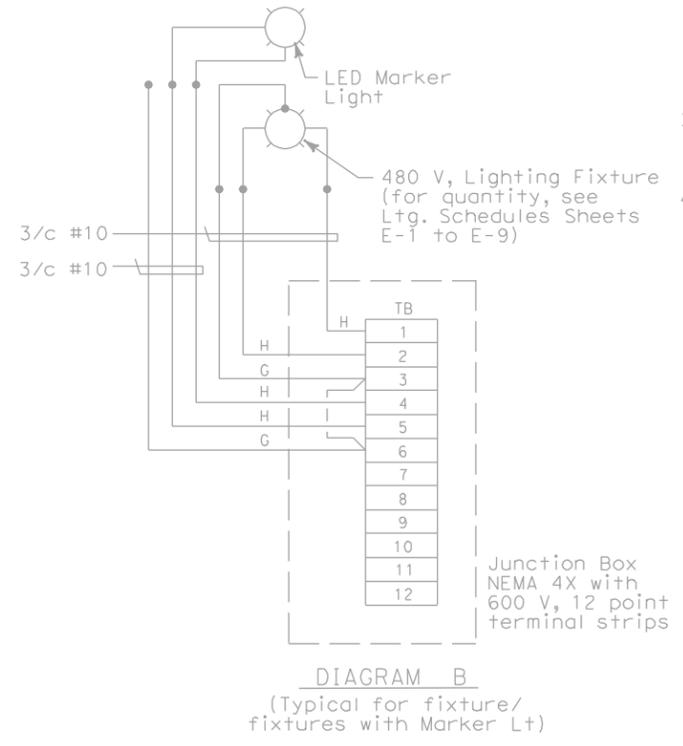
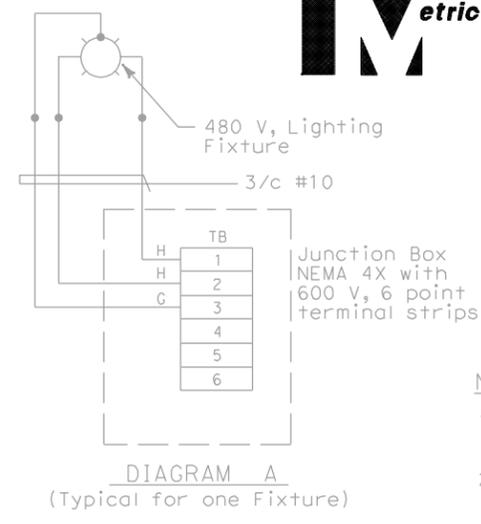
REVISOR  
 WILLIAM BECK  
 DATE  
 ELLERY LUCAS

CALCULATED-DESIGNED BY  
 CHECKED BY  
 BRADY NADELL



Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alca	80	12.7/14.3, 0.0/2.7	20R1	84

REGISTERED ELECTRICAL ENGINEER  
 DATE 2/12/10  
 PLANS APPROVAL DATE 5-10-2010  
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 San Francisco, CA 94107-1317



- NOTES:**
- For applicable sheet notes, see sheet E-1.
  - The cable hooks for each device (TOS/MVDS, TOS/CCTV and CCTV including the lighting fixtures and marker light shall be provided with two cable hooks. Location shall be on the side of the cable access opening, see Roadway Lighting Assembly for details.
  - For assembly and installation of cable or cables inside the lighting pole, see Detail 1 on sheet E-2.
  - Typical orientation and location of the following, see this drawing. For details, see Roadway Lighting Assembly drawings.
    - a- Lighting fixture or fixtures are mounted on plate A.
    - b- Handhole opening at the bottom of the lighting pole shall be on plate B, except lighting poles on the YBI Viaduct type VSR-4C is on plate A.
    - c- Bottom device mounting plate at the bottom of the lighting pole shall be diagonally on plates A/E and D/C.
    - d- Device mounting bracket shall be on plate B or E, see fixture schedules.
    - e- Cable access shall be on plate C or D, see note 2 above and fixture schedules.
    - f- The top of all lighting poles shall be a removable cover and with a removable steel plate for future device mounting.

"CCO DRAFT"  
 08/25/2010

**ROADWAY LIGHTING POLE BRACKET AND CABLE SUPPORT LOCATIONS**  
 NO SCALE





STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

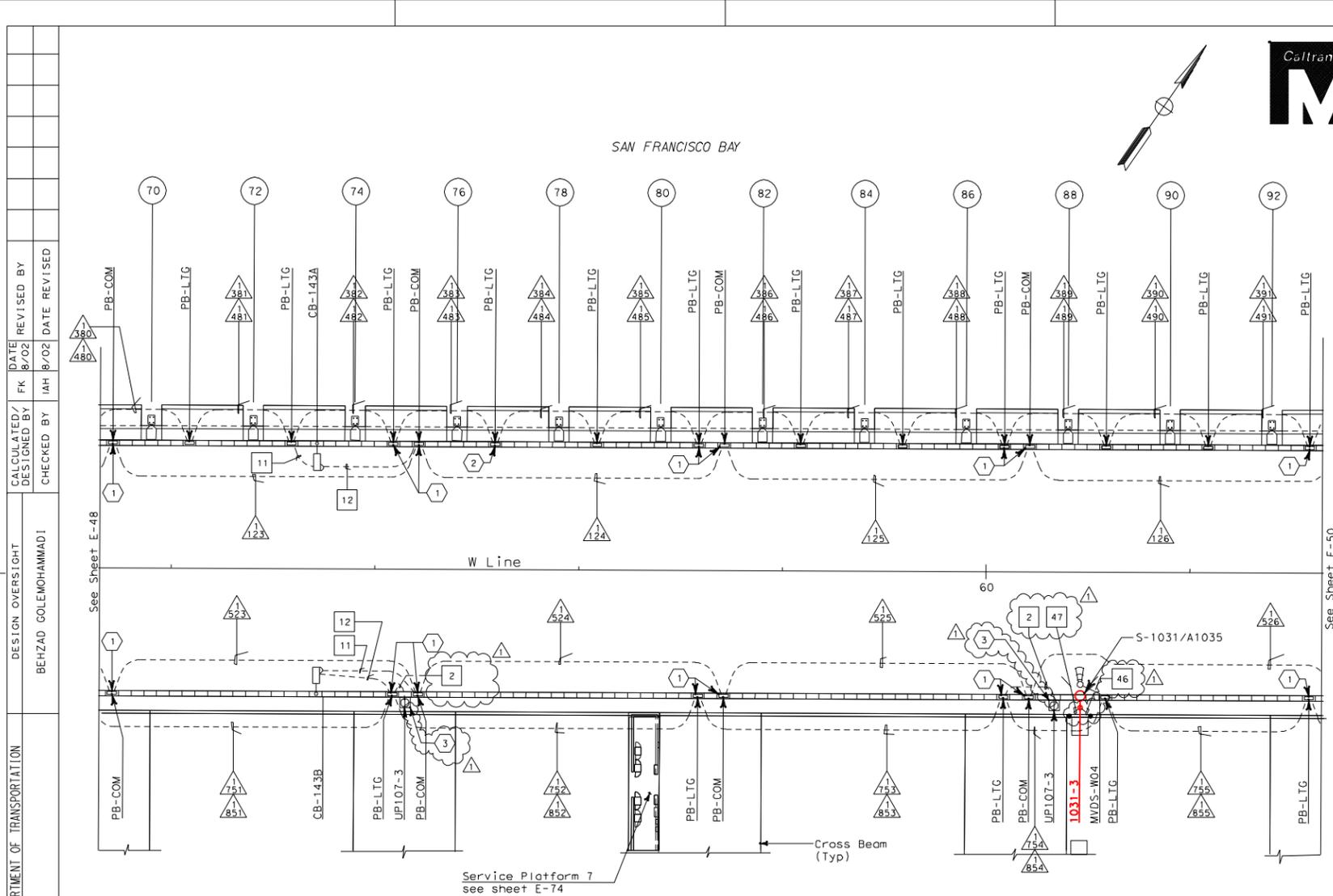
CONSULTANT FUNCTIONAL SUPERVISOR  
 BRADY NADELL

DESIGN OVERSIGHT  
 BEHZAD GOLEMHAMMADI

CALCULATED/DESIGNED BY  
 CHECKED BY

JEFFRI HALIM  
 ELLERY LUCAS

REVISOR BY  
 DATE REVISED



**CONDUIT PLAN**

**SAS SUPERSTRUCTURE ROADWAY WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

**E-49**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	120R1	1204

REGISTERED ELECTRICAL ENGINEER DATE 12/19/02

12-6-04  
 PLANS APPROVAL DATE

PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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- SHEET NOTES:**
- Conduit from barrier pullbox or other equipment down into Girder, See sheet E-99.
  - For conduit to Suspend Lighting, See sheet E-229. Typ for all PB-LTG located on the north side of the roadway.
  - Roadway Barrier Receptacle, see Detail 1, sheet E-68.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CCTV and MVDS, see E-66, E-67 and E-68.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see sheet E-344 through E-357.
    - For types of pullboxes, splice boxes and enclosures, see sheet E-83.
    - For circuit and conduit/cable tray schedules, see sheets starting at E-401.
  - For Roadway Call Boxes refer to sheet E-396.
  - For Roadway Level Lighting Pole Schedules, see sheet E-82.
  - For Roadway Level Call Box Schedule, see sheet E-397.
  - For number of lighting fixtures (main tower lights), see lighting schedule sheets E-271 and E-272.
  - See sheets E-66 thru E-68 for conduit locations.



REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE			
△	02/19/08	ELECTRICAL MODIFICATIONS	MP EL RR 42
MARK	DATE	DESCRIPTIONS	BY CH'D CCO#
		REVISIONS	

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for SAS MEP\E-28R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 0120F1

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:00:26 PM

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF, Ala	80	12.7/14.3, 0.0/2.7	30R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10

5-10-2010  
 PLANS APPROVAL DATE

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 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

**"CCO DRAFT"**  
 08/25/2010

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 9 SAS SUPERSTRUCTURE**  
 NO SCALE

**E-28**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

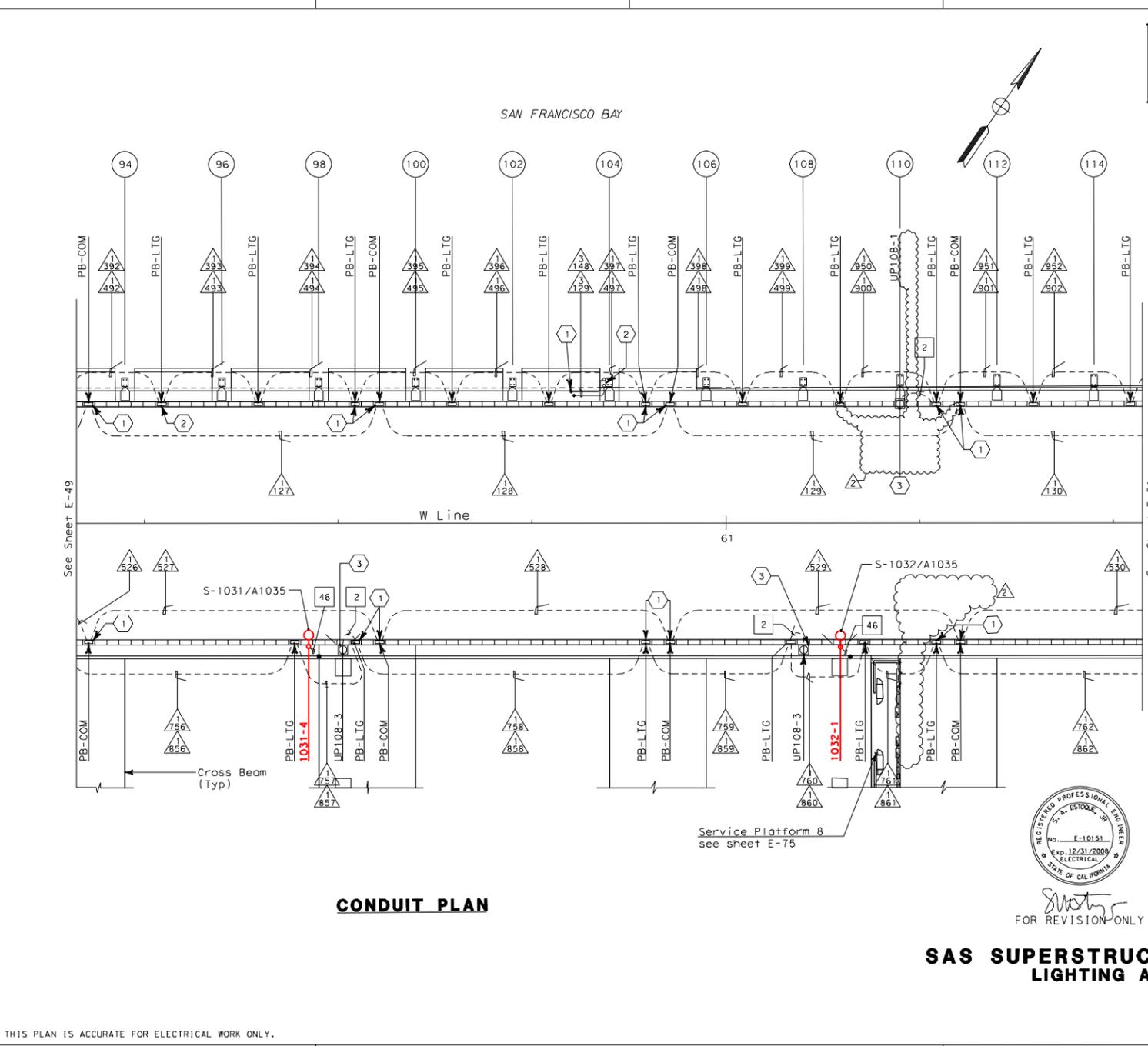
CONSULTANT FUNCTIONAL SUPERVISOR  
 BRADY NADELL

DESIGNED BY  
 JEFFRI HALIM

CHECKED BY  
 ELLERY LUCAS

REVISOR  
 DATE

DESIGN OVERSIGHT BEHZAD GOLEHAMMADI	DATE REVISION 8/02	REVISION 1
DESIGNED BY IAH	DATE REVISION 8/02	REVISION 1
CHECKED BY	DATE REVISION	REVISION
CALCULATED/DESIGNED BY	DATE REVISION	REVISION



**Caltrans**  
**Metric**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	13.2/13.9	121 R2	1204

REGISTERED ELECTRICAL ENGINEER DATE 12/19/02  
 JAMES COLLIER

PLANS APPROVAL DATE 12-6-04  
 PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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- SHEET NOTES:**
- Conduit from barrier pullbox or other equipment down into Girder, See sheet E-100.
  - For conduit to Suspend Lighting, See sheet E-230.
  - Roadway Barrier Receptacle, see Detail 1, sheet E-68.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CCTV and MVDS, see sheets E-66, E-67 and E-68.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see sheets E-344 through E-357.
    - For types of pullboxes, splice boxes and enclosures, see sheet E-83.
    - For circuit and conduit/cable tray schedules, see sheets starting at E-401.
  - For Roadway Call Boxes refer to sheet E-396.
  - For Roadway Level Lighting Pole Schedules, see sheet E-82.
  - For Roadway Level Call Box Schedule, see sheet E-397.
  - For number of lighting fixtures (main tower lights), see lighting schedule sheets E-271 and E-272.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CHK'D	DATE
△	03/04/08	BARRIER MODIFICATIONS	JS BM	RG SE	44
△	02/19/08	ELECTRICAL MODIFICATIONS	MP EL	RR	42



CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

**SAS SUPERSTRUCTURE ROADWAY WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE 1:200

**E-50**

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for SAS MEP\E-29R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 0120F1

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:02:21 PM

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Ala	80	12.7/14.3, 0.0/2.7	31R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO

PLANS APPROVAL DATE 5-10-2010

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 San Francisco, CA 94107-1317

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 10 SAS SUPERSTRUCTURE**  
 NO SCALE

**E-29**

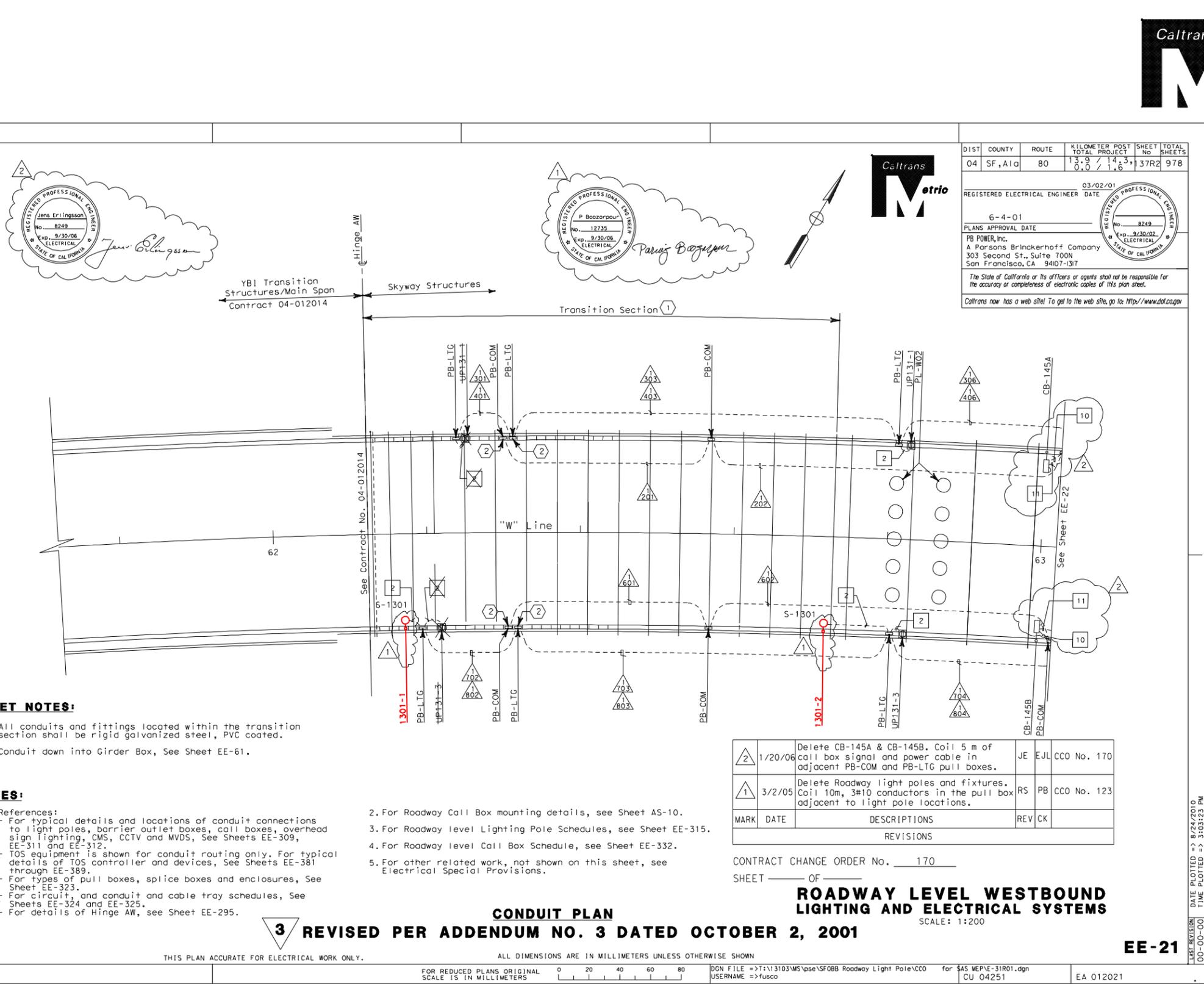


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

CONSULTANT FUNCTIONAL SUPERVISOR: BRADY NADELL  
 CALCULATED/DESIGNED BY: JEFFRI HALIM  
 CHECKED BY: ELLERY LUCAS  
 REVISIONS: 1/99, 5/00, 3/05

DESIGN OVERSIGHT: BEHZAD GOLEMOHAMMADI  
 DATE: 03/02/01  
 REGISTERED ELECTRICAL ENGINEER: 6-4-01

DATE: 03/02/01  
 REGISTERED ELECTRICAL ENGINEER: 6-4-01  
 PLANS APPROVAL DATE: 6-4-01  
 PB POWER, Inc. A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N San Francisco, CA 94107-1317



**SHEET NOTES:**

- ① All conduits and fittings located within the transition section shall be rigid galvanized steel, PVC coated.
- ② Conduit down into Girder Box, See Sheet EE-61.

**NOTES:**

1. References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, See Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
  - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
  - For details of Hinge AW, see Sheet EE-295.
2. For Roadway Call Box mounting details, see Sheet AS-10.
3. For Roadway level Lighting Pole Schedules, see Sheet EE-315.
4. For Roadway level Call Box Schedule, see Sheet EE-332.
5. For other related work, not shown on this sheet, see Electrical Special Provisions.

MARK	DATE	DESCRIPTIONS	REV	CK
②	1/20/06	Delete CB-145A & CB-145B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL
①	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**EE-21**

**3 REVISED PER ADDENDUM NO. 3 DATED OCTOBER 2, 2001**

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 FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:03:23 PM

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 12**  
**SKYWAY STRUCTURES**  
 NO SCALE

**E-31**

Dist: 04 COUNTY: SF, Alameda ROUTE: 80 KILOMETER POST TOTAL PROJECT: 12.7/14.3, 0.0/2.7 SHEET No.: 33R1 TOTAL SHEETS: 84

REGISTERED ELECTRICAL ENGINEER: *David H. OTO* DATE: 2/12/10

PLANS APPROVAL DATE: 5-10-2010

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 San Francisco, CA 94107-1317

DIST: 04 COUNTY: SF, Alameda ROUTE: 80 KILOMETER POST TOTAL PROJECT: 13.9 / 14.3, 0.0 / 1.6 SHEET No.: 37R2 TOTAL SHEETS: 978

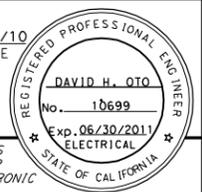
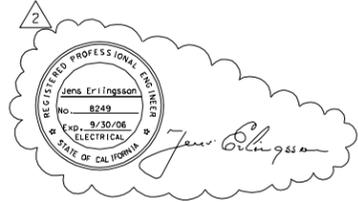
REGISTERED ELECTRICAL ENGINEER: 03/02/01 DATE: 6-4-01

PLANS APPROVAL DATE: 6-4-01

PB POWER, Inc. A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N San Francisco, CA 94107-1317

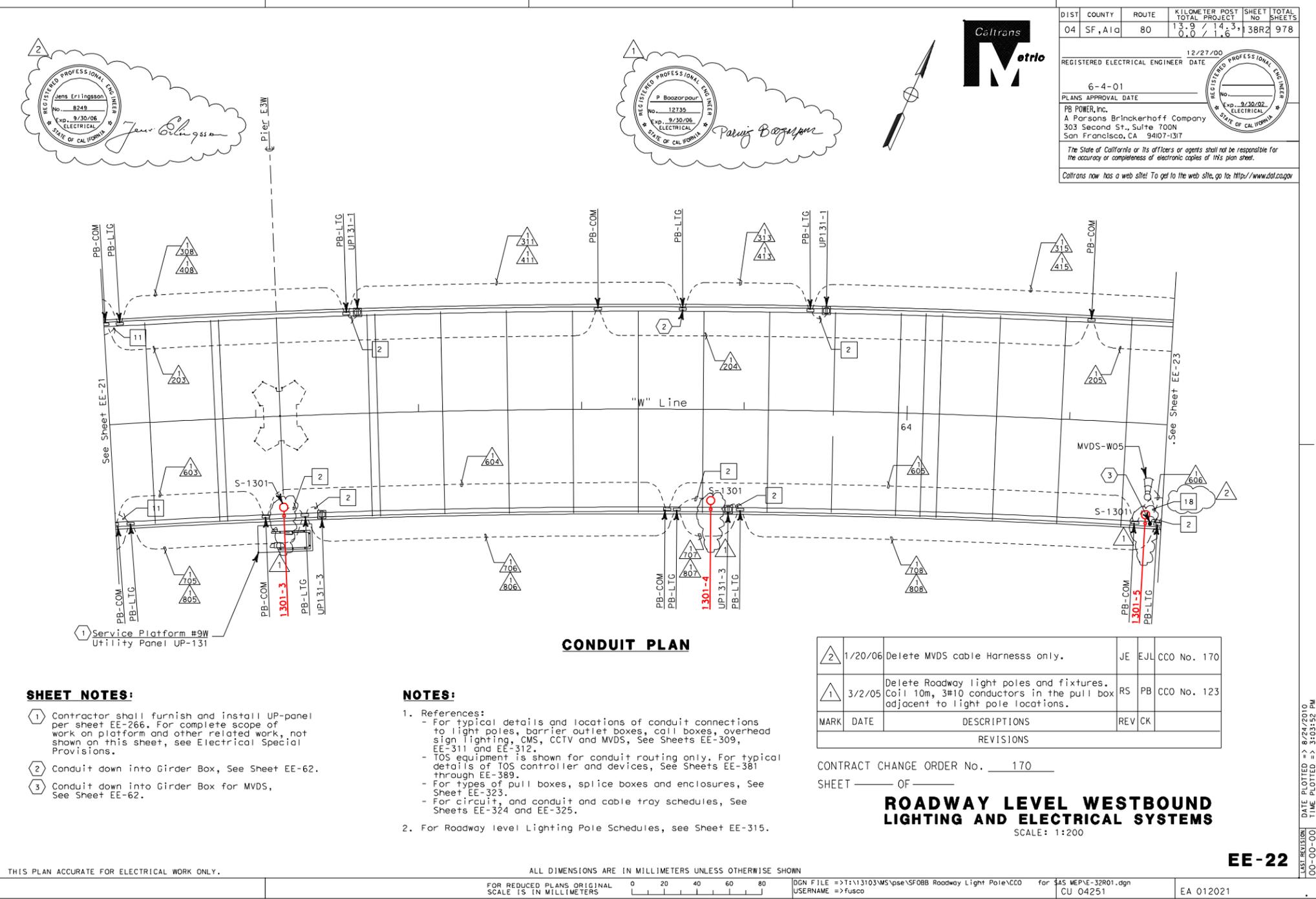
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REVISOR	DATE	REVISION
JEFFRI HALIM	5/05	RS
ELLERY LUCAS	3/05	JP
BRADY NADELL	5/05	JP

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	5/05	JP
CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	5/05	JP



- SHEET NOTES:**
- Contractor shall furnish and install UP-panel per sheet EE-266. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - Conduit down into Girder Box, See Sheet EE-62.
  - Conduit down into Girder Box for MVDS, See Sheet EE-62.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, See Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
    - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
  - For Roadway Level Lighting Pole Schedules, see Sheet EE-315.

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete MVDS cable Harness only.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**EE-22**

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN  
 FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS  
 DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-32R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 13**  
**SKYWAY STRUCTURES**  
 NO SCALE

**E-32**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7 / 14.3, 0.0 / 2.7	34R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO No. 10699 Exp. 06/30/2011  
 PLANS APPROVAL DATE 5-10-2010  
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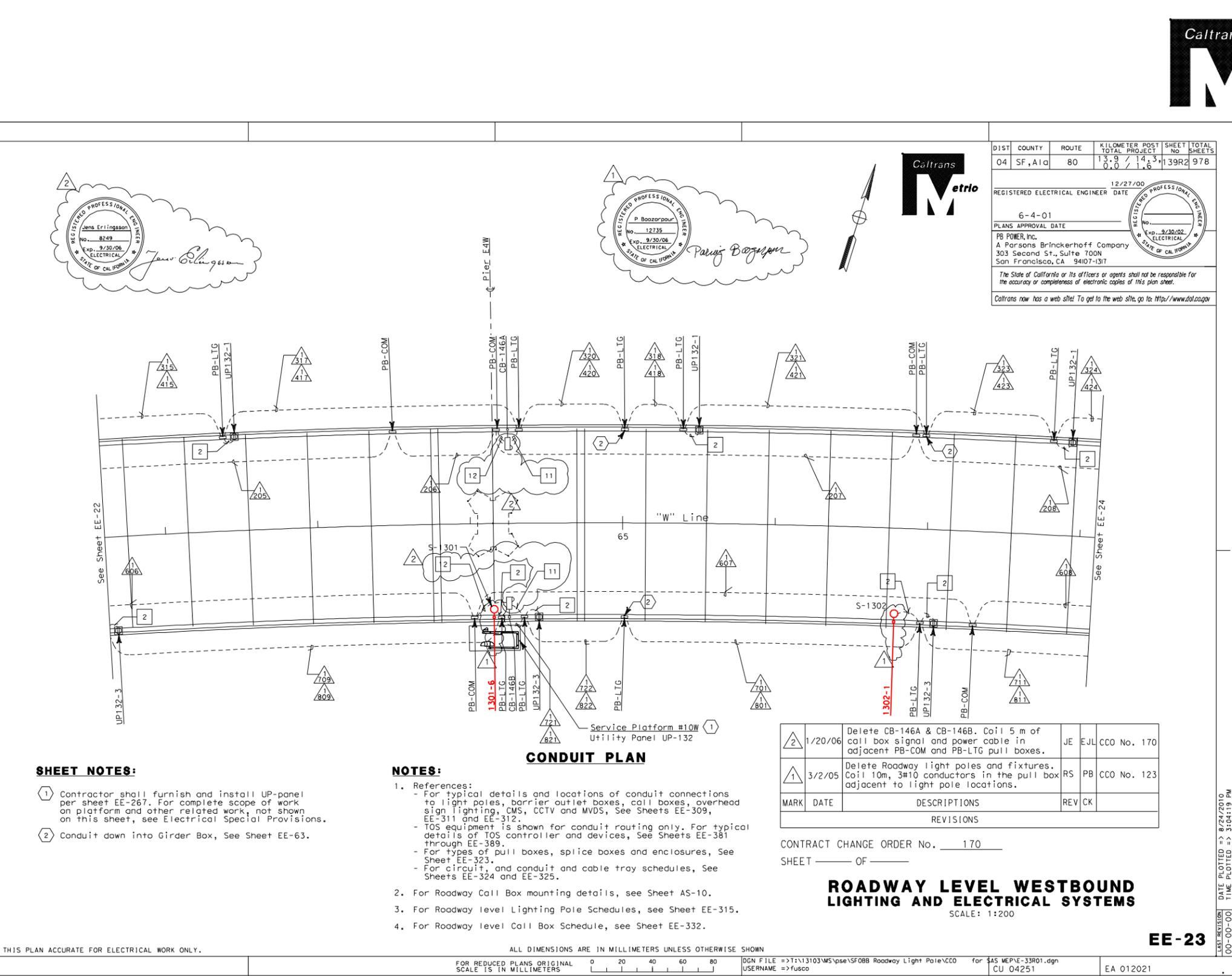


DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:03:52 PM

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:03:52 PM

REVISOR	DATE	REVISION
JEFFRI HALIM	3/1/2007	RS
ELLERY LUCAS	5/00	JP
BRADY NADELL	10/99	IAH
CHECKED BY	DESIGNED BY	DESIGNED BY
	BEHZAD GOLEMOHAMMADI	

DATE	REVISION	BY
12/27/00	6-4-01	



**SHEET NOTES:**

- Contractor shall furnish and install UP-panel per sheet EE-267. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- Conduit down into Girder Box, See Sheet EE-63.

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, See Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
  - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
- For Roadway Call Box mounting details, see Sheet AS-10.
- For Roadway level Lighting Pole Schedules, see Sheet EE-315.
- For Roadway level Call Box Schedule, see Sheet EE-332.

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-146A & CB-146B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**EE-23**

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN  
 FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS  
 DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-33R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 14**  
**SKYWAY STRUCTURES**  
 NO SCALE

**E-33**

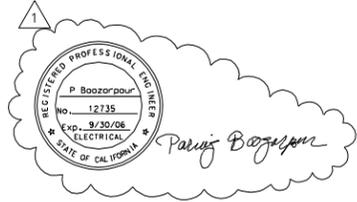
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	35R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO No. 10699 Exp. 06/30/2011 ELECTRICAL STATE OF CALIFORNIA

PLANS APPROVAL DATE 5-10-2010

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	139R2	978

REGISTERED ELECTRICAL ENGINEER DATE 12/27/00  
 6-4-01  
 PLANS APPROVAL DATE  
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 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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**"CCO DRAFT"**  
 08/25/2010

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:04:19 PM

REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		
BRADY NADELL		

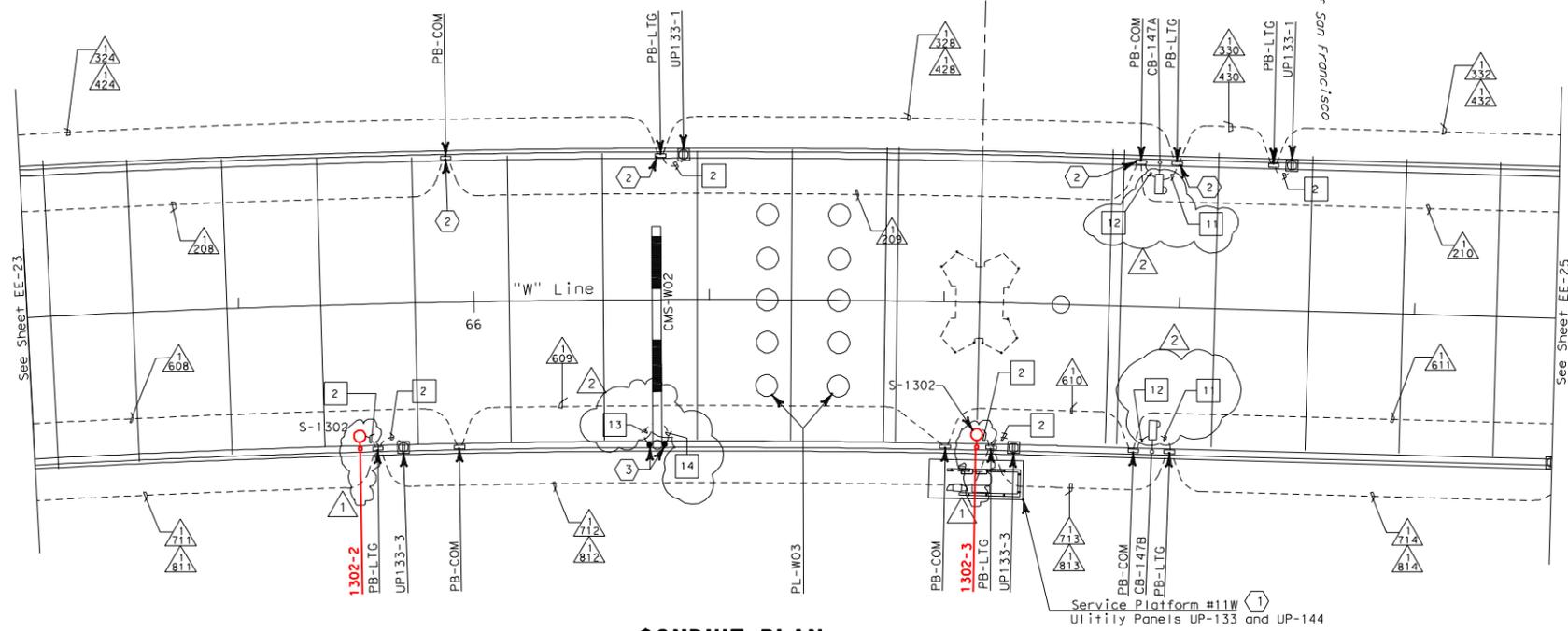
DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	11/99	
CHECKED BY	DATE	REVISION
UP	5/00	
RS	3/05	

DESIGN OVERSIGHT	DATE	REVISION
BEHZAD GOLEMOHAMMADI	11/99	

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-147A & CB-147B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes & Deleted CMS cable harnesses only.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-147A & CB-147B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes & Deleted CMS cable harnesses only.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



**CONDUIT PLAN**

**SHEET NOTES:**

- Contractor shall furnish and install UP-panels per sheet EE-268. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- Conduit down into Girder Box, See Sheet EE-64.
- Conduit down into Girder Box for CMS, See Sheet EE-64.

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, See Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
  - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
- For Roadway Call Box mounting details, see Sheet AS-10.
- For Roadway level Lighting Pole Schedules, see Sheet EE-315.
- For Roadway level Call Box Schedule, see Sheet EE-332.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-34R01.dgn  
 USERNAME => fusco CU 04251 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE  
 PLAN LOCATION-SHEET 15  
 SKYWAY STRUCTURES**

NO SCALE



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	36R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO No. 10699 Exp. 06/30/2011 ELECTRICAL

PLANS APPROVAL DATE 5-10-2010

PB AMERICAS, Inc.  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	13.9 / 14.3, 0.0 / 1.6	140R2	978

REGISTERED ELECTRICAL ENGINEER DATE 12/27/00  
 6-4-01  
 PLANS APPROVAL DATE  
 PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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REVISOR: JEFFRI HALIM  
 CHECKED BY: ELLERY LUCAS  
 CONSULTANT SUPERVISOR: BRADY NADELL  
 DESIGN OVERSIGHT: BEHZAD GOLEMOHAMMADI

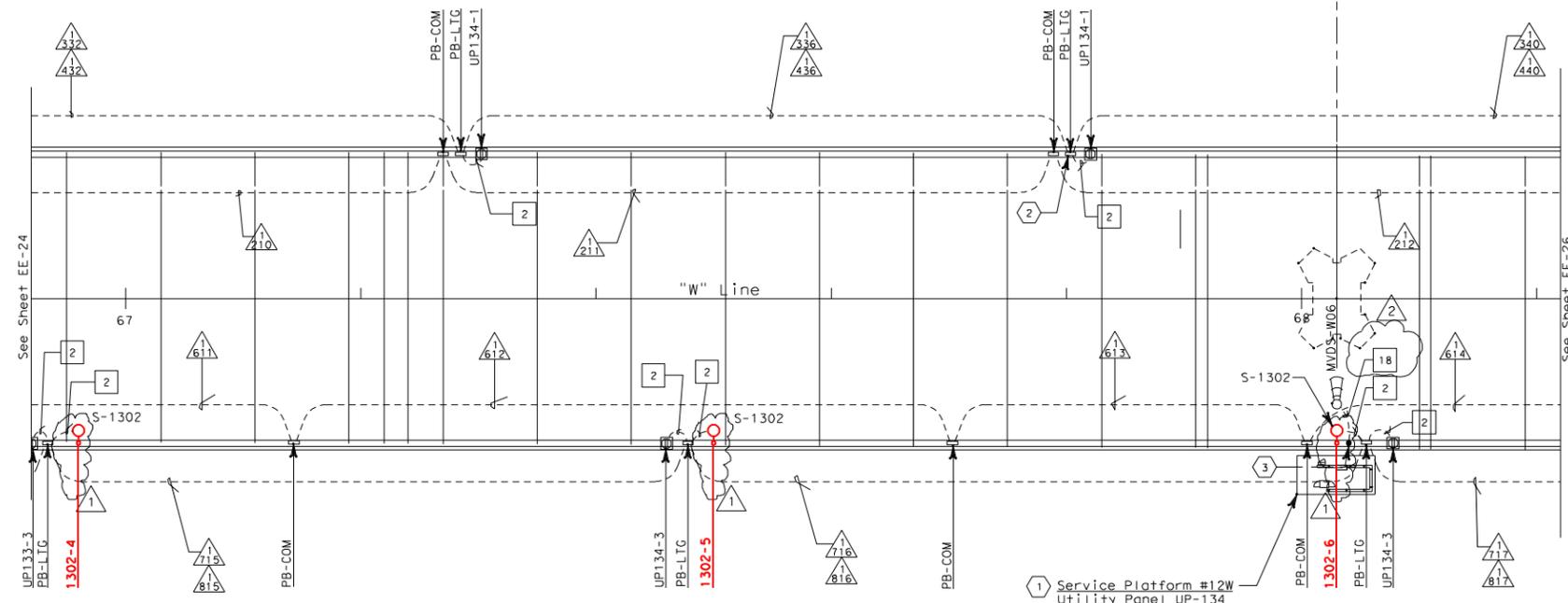


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	37R1	84

REGISTERED ELECTRICAL ENGINEER: *David H. OTO* DATE: 2/12/10  
 No. 10699 Exp. 06/30/2011  
 PLANS APPROVAL DATE: 5-10-2010  
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MARK	DATE	DESCRIPTIONS	REV	CK	CCO No.
2	1/20/06	Deleted MVDS cable harness only.	JE	EJL	CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB	CCO No. 123

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



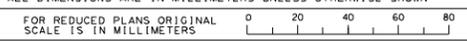
**CONDUIT PLAN**

- SHEET NOTES:**
- Contractor shall furnish and install UP-panel per sheet EE-269. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - Conduit down into Girder Box, See Sheet EE-65.
  - Conduit down to Service Platform, See Sheet EE-269.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, See Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
    - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
  - For Roadway level Lighting Pole Schedules, see Sheet EE-315.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-35R01.dgn  
 USERNAME => fusco CU 04251 EA 012021

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**EE-25**

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 16**  
**SKYWAY STRUCTURES**  
 NO SCALE

**E-35**



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	39R1	84

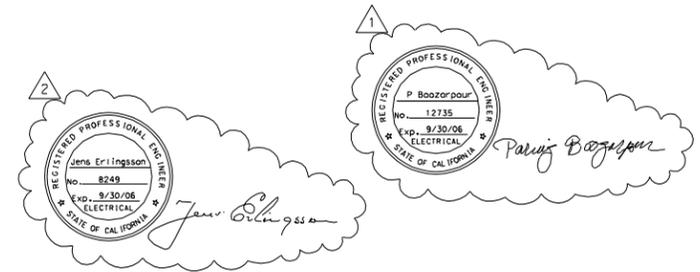
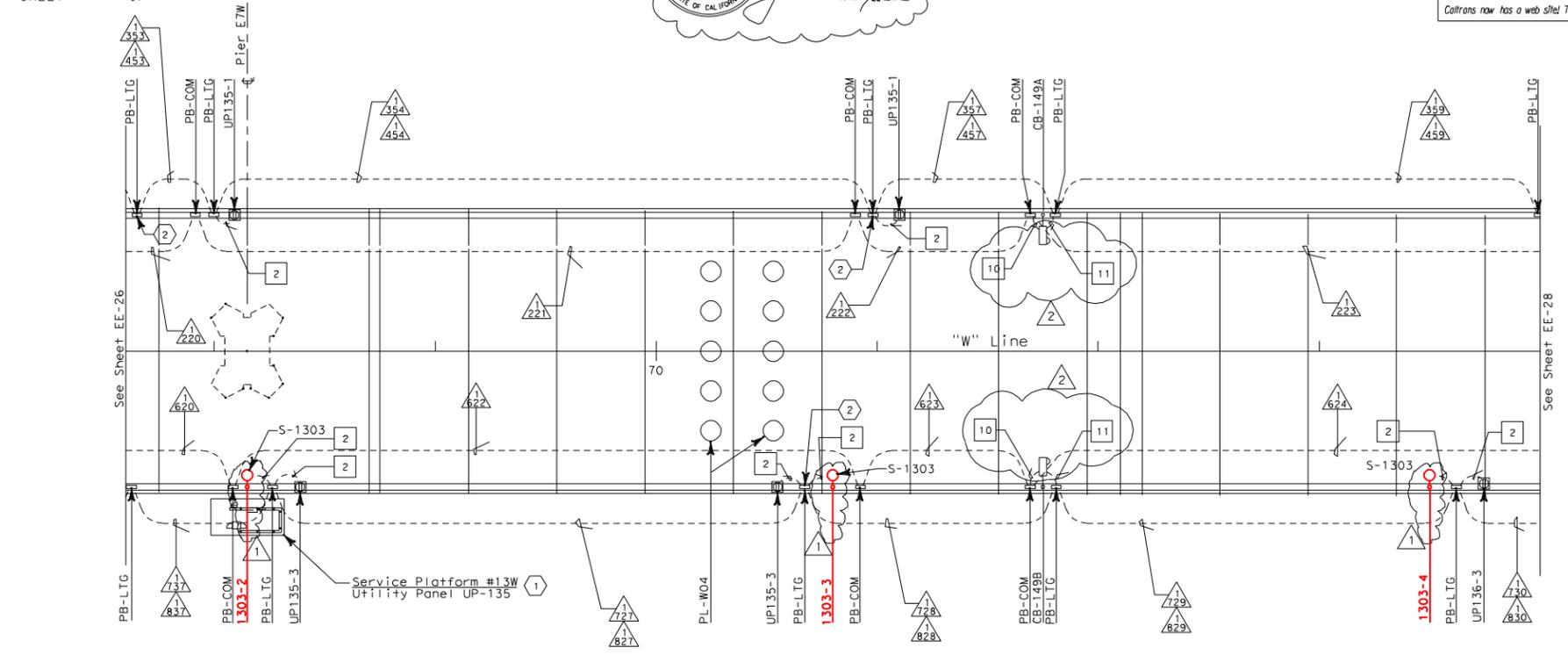
REGISTERED ELECTRICAL ENGINEER: *David H. OTO* DATE: 2/12/10  
 PLANS APPROVAL DATE: 5-10-2010  
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 PB AMERICAS, Inc. 303 Second St., Suite 700N San Francisco, CA 94107-1317



MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-149A & CB-149B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

DESIGNED BY	IAH	DATE	11/99
CHECKED BY	JP	DATE	5/00
DESIGNED BY	RS	DATE	3/05
CHECKED BY	JP	DATE	5/00
DESIGNED BY	IAH	DATE	11/99
CHECKED BY	JP	DATE	5/00
DESIGNED BY	IAH	DATE	11/99
CHECKED BY	JP	DATE	5/00



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	143R2	978

REGISTERED ELECTRICAL ENGINEER: *David H. OTO* DATE: 12/27/00  
 PLANS APPROVAL DATE: 6-4-01  
 PB POWER, Inc. A Parsons Brinckerhoff Company 303 Second St., Suite 700N San Francisco, CA 94107-1317  
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**CONDUIT PLAN**

**SHEET NOTES:**

- 1 Contractor shall furnish and install UP-panel per sheet EE-270. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- 2 Conduit down into Girder Box, See Sheet EE-67.

**NOTES:**

- 1. References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MDS, See Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
  - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
- 2. For Roadway Call Box mounting details, see Sheet AS-10.
- 3. For Roadway level Lighting Pole Schedules, see Sheet EE-315.
- 4. For Roadway level Call Box Schedule, see Sheet EE-332.

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

EE-27

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-37R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

**"CCO DRAFT"**  
 08/25/2010

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 18**  
**SKYWAY STRUCTURES**  
 NO SCALE

E-37

REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		

DESIGNED BY	DATE	DESIGNED BY
BEHZAD GOLEMHAMMADI		

CHECKED BY	DATE	CHECKED BY
BRADY NADELL		

DESIGNED BY	DATE	DESIGNED BY
JEFFRI HALIM		

DATE	REVISION
5/00	

DATE	REVISION
11/99	

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5/00	



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	40R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 5-10-2010  
 PLANS APPROVAL DATE

DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

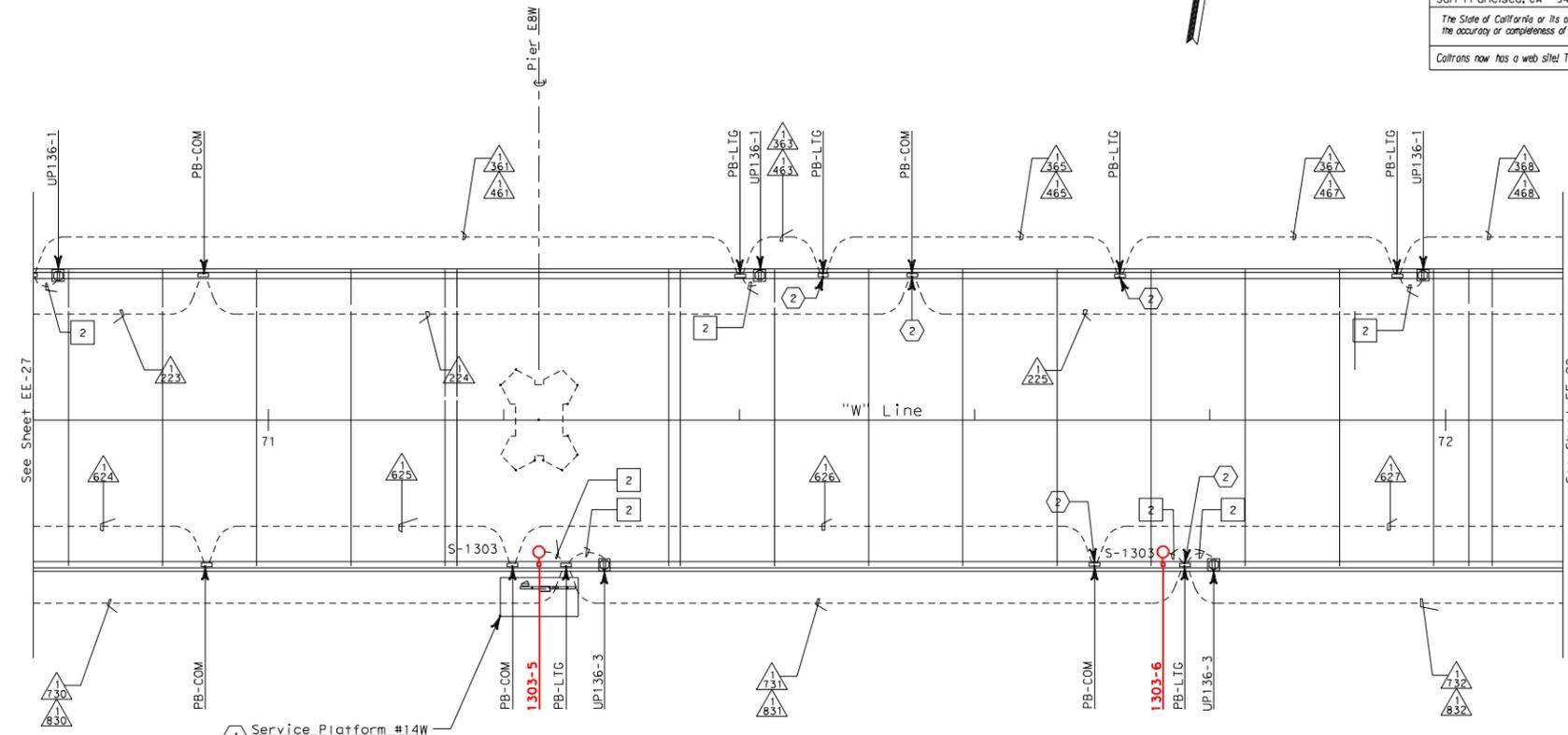
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	13.9 / 14.3, 0.0 / 1.6	144	978

REGISTERED ELECTRICAL ENGINEER DATE 12/27/00  
 6-4-01  
 PLANS APPROVAL DATE

PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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**CONDUIT PLAN**

**SHEET NOTES:**

- ① Contractor shall furnish and install UP-panel per sheet EE-271. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- ② Conduit down into Girder Box, See Sheet EE-68.

**NOTES:**

1. References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and WDS, See Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
  - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
2. For Roadway level Lighting Pole Schedules, see Sheet EE-315.

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**EE-28**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-38R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:14:08 PM

**"CCO DRAFT"**  
 08/25/2010

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 19**  
**SKYWAY STRUCTURES**  
 NO SCALE

**E-38**

REVISOR	DATE	DESCRIPTION
JEFFRI HALIM		
ELLERY LUCAS		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

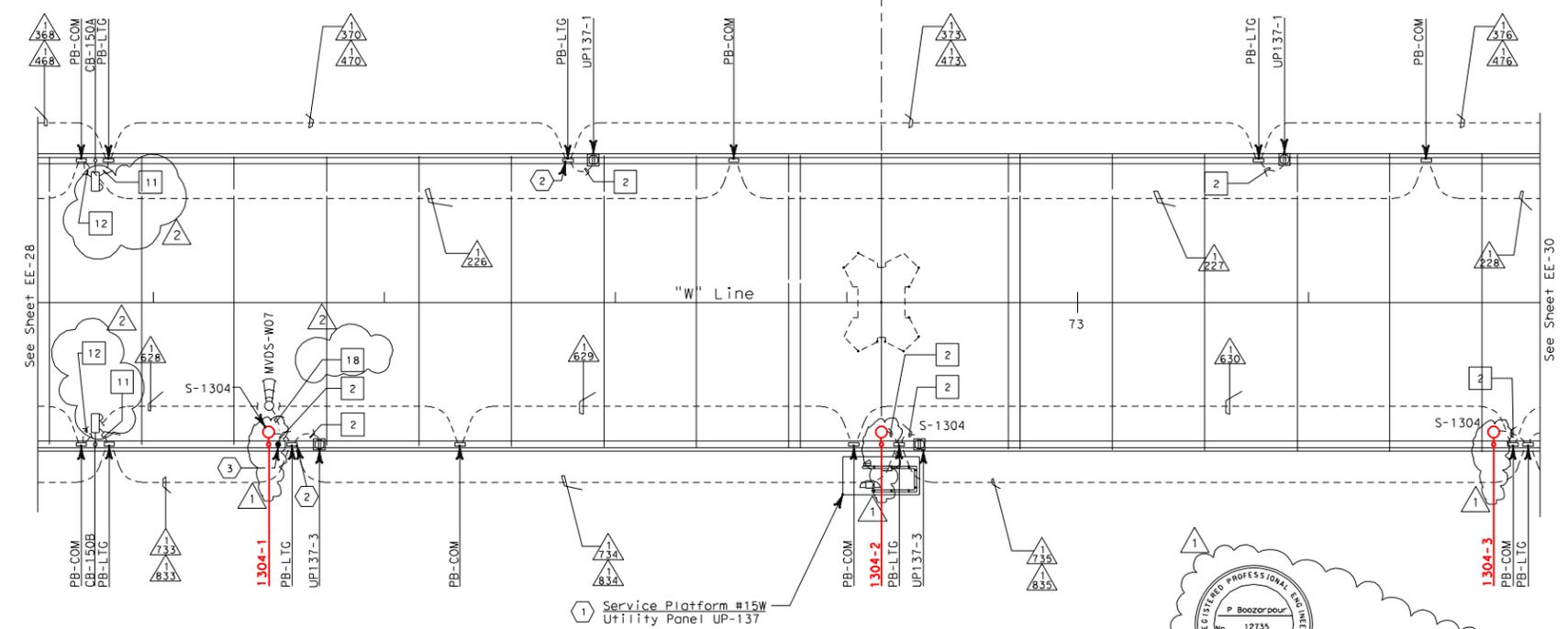
CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGNED BY	DATE	REVISION
IAH	11/99	RS
JP	5/00	RS
JP	3/05	RS

CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-150A & CB-150B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes. Delete MVDS cable harness only.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



- SHEET NOTES:**
- Contractor shall furnish and install UP-panel per sheet EE-272. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - Conduit down into Girder Box, See Sheet EE-69
  - Conduit down into Girder Box for MVDS, See Sheet EE-69

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, See Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
    - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
  - For Roadway Call Box mounting details, see Sheet AS-10.
  - For Roadway Level Lighting Pole Schedules, see Sheet EE-315.
  - For Roadway Level Call Box Schedule, see Sheet EE-332.

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

EE-29



DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for SAS MEP\E-39R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 20**  
 SKYWAY STRUCTURES  
 NO SCALE

E-39

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	41R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO No. 10699 Exp. 06/30/2011 ELECTRICAL STATE OF CALIFORNIA

PLANS APPROVAL DATE 5-10-2010

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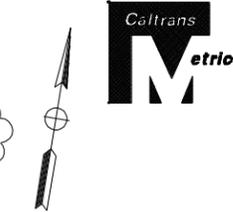
PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	45R2	978

REGISTERED ELECTRICAL ENGINEER DATE 12/27/00  
 6-4-01  
 PLANS APPROVAL DATE  
 PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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LAST REVISION DATE PLOTTED => 8/24/2010  
 08-17-09 TIME PLOTTED => 3:14:37 PM

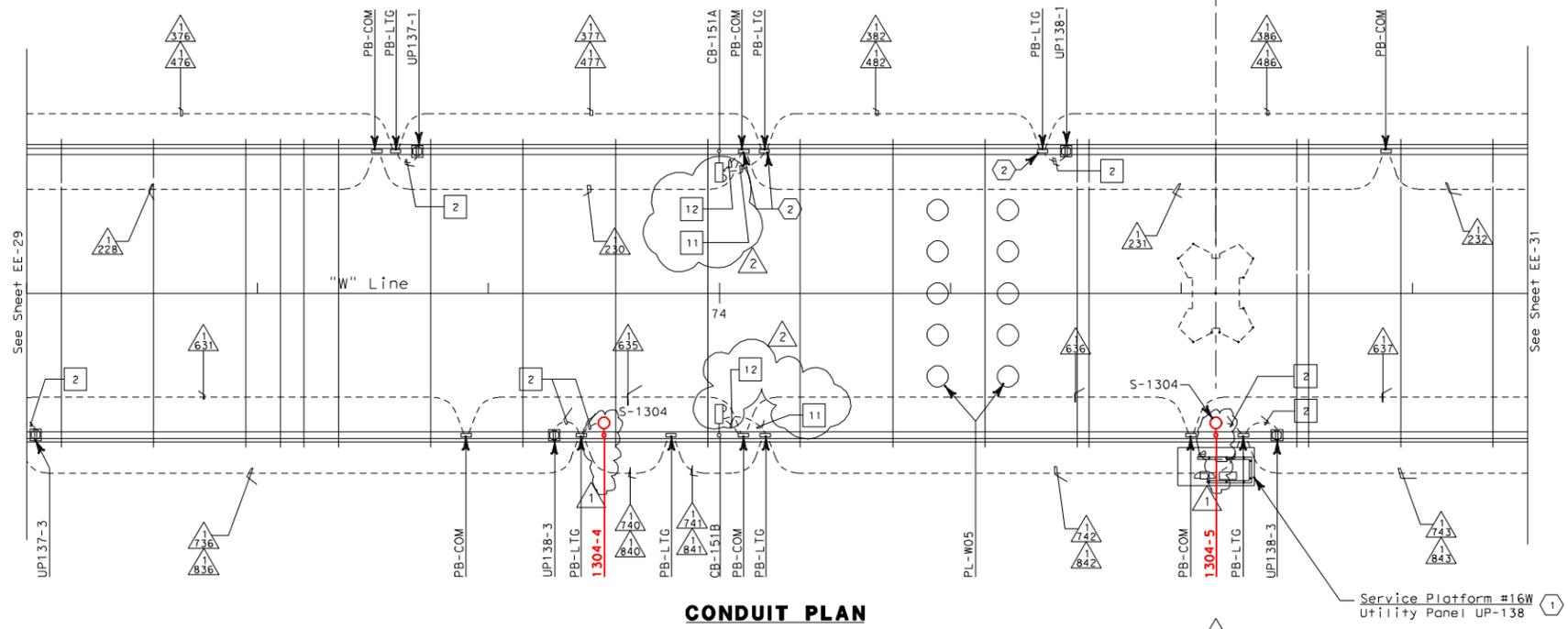
REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		
BRADY NADELL		

DESIGNED BY	DATE	REVISION
IAH	11/99	
RS		
DATE REVISION	3/05	
CHECKED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

DESIGN OVERSIGHT	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-151A & CB-151B, Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures, Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



- SHEET NOTES:**
- Contractor shall furnish and install UP-panel per sheet EE-273. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - Conduit down into Girder Box, See Sheet EE-70.
- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and WDS, See Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
    - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
  - For Roadway Call Box mounting details, see Sheet AS-10.
  - For Roadway level Lighting Pole Schedules, see Sheet EE-315.
  - For Roadway level Call Box Schedule, see Sheet EE-332.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN  
 FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-40R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE  
 PLAN LOCATION-SHEET 21  
 SKYWAY STRUCTURES**  
 NO SCALE

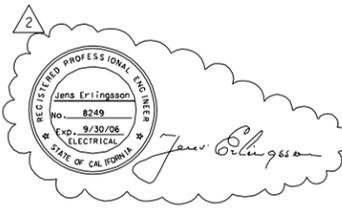


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	42R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO No. 10699 Exp. 06/30/2011  
 PLANS APPROVAL DATE 5-10-2010  
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04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	146R2	978

REGISTERED ELECTRICAL ENGINEER DATE 02/12/01  
 6-4-01  
 PLANS APPROVAL DATE  
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 08/25/2010

REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		

DESIGNED BY	DATE	DESIGNED BY
BEHZAD GOLEMOHAMMADI		

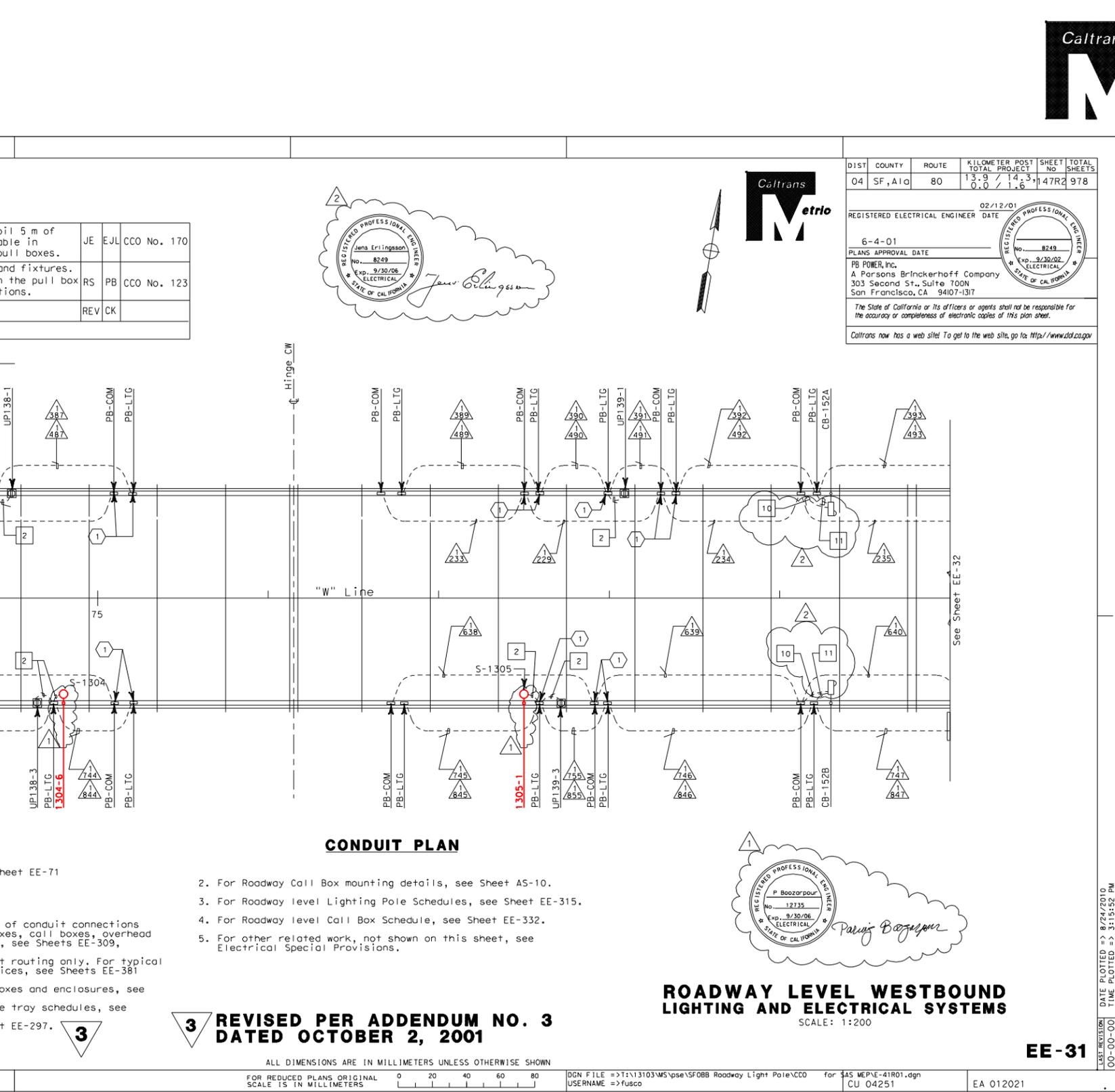
CHECKED BY	DATE	CHECKED BY
BRADY NADELL		

DESIGN OVERSIGHT	DATE	DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI		

REVISIONS	MARK	DATE	DESCRIPTIONS	REV	CK
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REVISIONS	MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06		Delete CB-152A & CB-152B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL CCO No. 170
1	3/2/05		Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



**SHEET NOTES:**

- 1 Conduit down into Girder Box, See Sheet EE-71

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
  - For circuit, and conduit and cable tray schedules, see Sheets EE-324 and EE-325.
  - For details of Hinge CW, see Sheet EE-297.

**CONDUIT PLAN**

- For Roadway Call Box mounting details, see Sheet AS-10.
- For Roadway Level Lighting Pole Schedules, see Sheet EE-315.
- For Roadway Level Call Box Schedule, see Sheet EE-332.
- For other related work, not shown on this sheet, see Electrical Special Provisions.

**3 REVISED PER ADDENDUM NO. 3 DATED OCTOBER 2, 2001**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-41R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE  
 PLAN LOCATION-SHEET 22  
 SKYWAY STRUCTURES**  
 NO SCALE

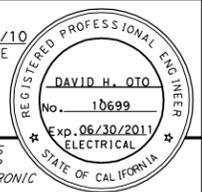


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	43R1	84

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 San Francisco, CA 94107-1317

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	147R2	978

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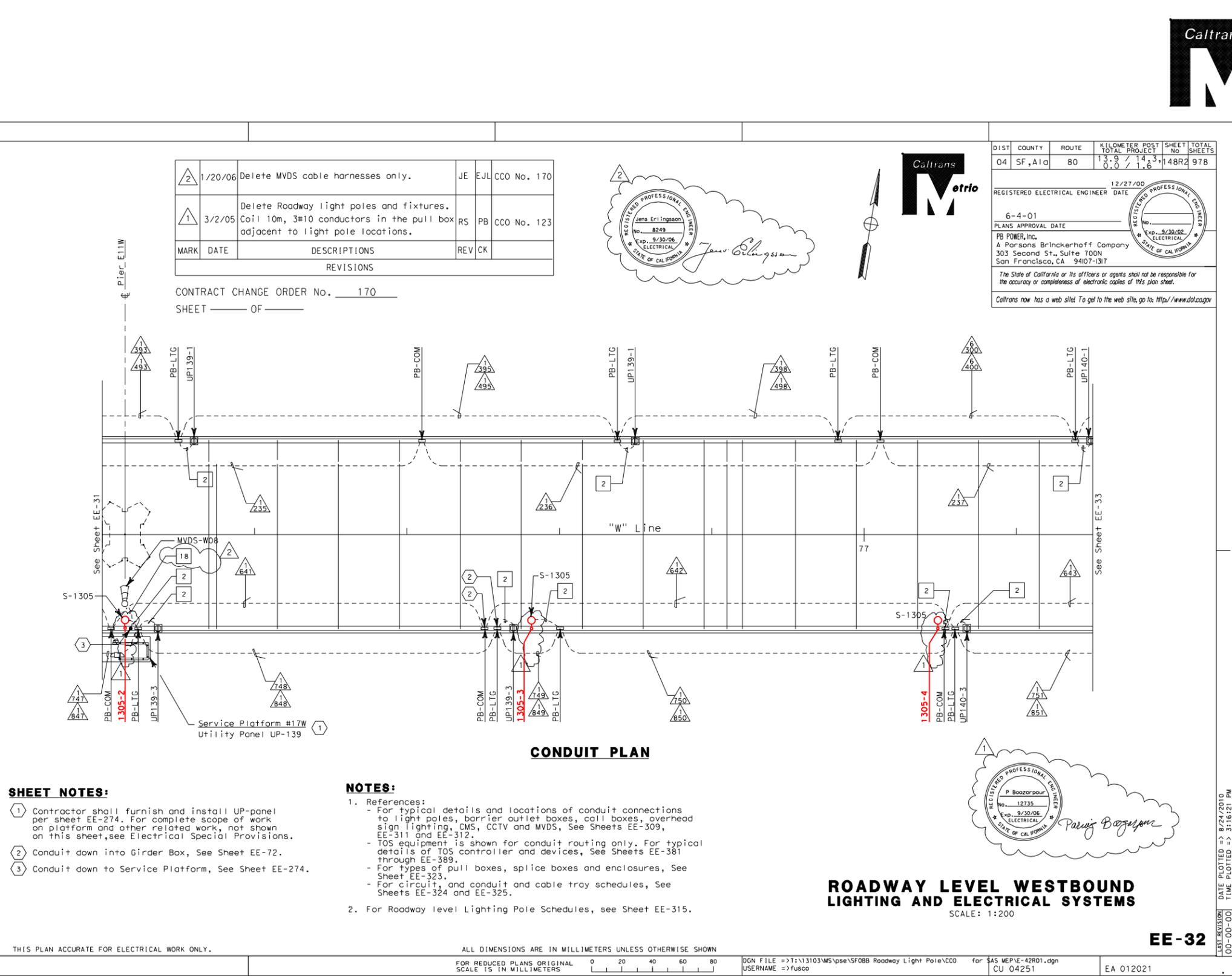
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 08/25/2010

**EE-31**

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:13:52 PM

REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		
BRADY NADELL		

DATE	DESIGNED BY	CHECKED BY	DESIGN OVERSIGHT
12/27/00	IAH	JP	BEHZAD GOLEMOHAMMADI



MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete MVDS cable harnesses only.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

- SHEET NOTES:**
- Contractor shall furnish and install UP-panel per sheet EE-274. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - Conduit down into Girder Box, See Sheet EE-72.
  - Conduit down to Service Platform, See Sheet EE-274.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, See Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
    - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
  - For Roadway level Lighting Pole Schedules, see Sheet EE-315.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN  
 FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-42R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE  
 PLAN LOCATION-SHEET 23  
 SKYWAY STRUCTURES**  
 NO SCALE



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	44R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO No. 10699 Exp. 06/30/2011  
 PLANS APPROVAL DATE 5-10-2010  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	13.9 / 14.3, 0.0 / 1.6	148R2	978

REGISTERED ELECTRICAL ENGINEER DATE 12/27/00  
 6-4-01  
 PLANS APPROVAL DATE  
 PB POWER, Inc. A Parsons Brinckerhoff Company 303 Second St., Suite 700N San Francisco, CA 94107-1317  
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**"CCO DRAFT"**  
 08/25/2010

**EE-32**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

CONSULTANT FUNCTIONAL SUPERVISOR  
 BRADY NADELL

DESIGNED BY  
 BEHZAD GOLEMOHAMMADI

DESIGN OVERSIGHT

REVISIONS

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-153A & CB-153B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes. Delete CCTV cable harness only.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

DATE REVISIONS

DATE	REVISIONS	BY	CHKD
11/99		IAH	RS
5/00		JP	RS
3/05			

JEFFRI HALIM  
 ELLERY LUCAS

CHECKED BY

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

CONTRACT CHANGE ORDER No. 170

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-153A & CB-153B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes. Delete CCTV cable harness only.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3 / 0.0 / 2.7	149R2	978

REGISTERED ELECTRICAL ENGINEER DATE 12/27/00

PLANS APPROVAL DATE 6-4-01

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 A Parsons Brinckerhoff Company  
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 San Francisco, CA 94107-1317

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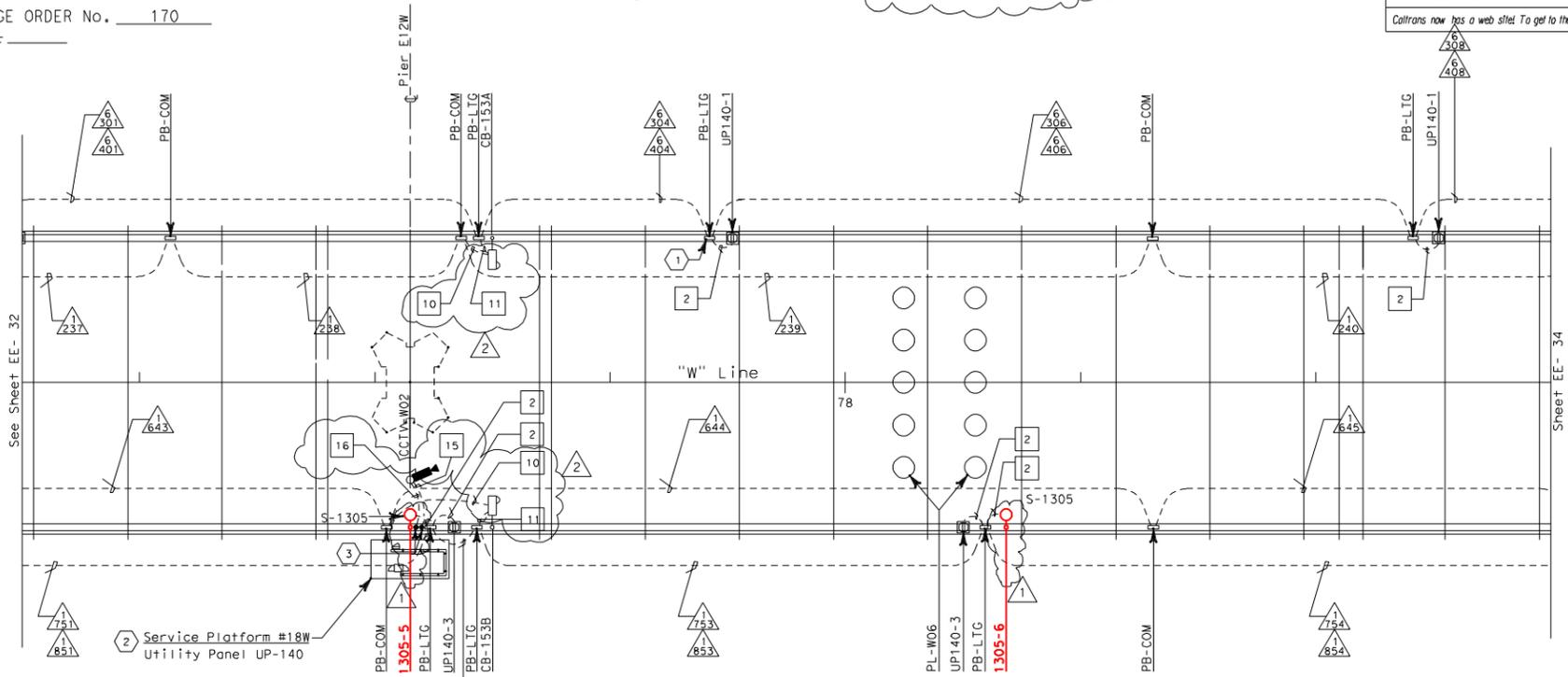
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7 / 14.3 / 0.0 / 2.7	45R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10

PLANS APPROVAL DATE 5-10-2010

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**CONDUIT PLAN**

- SHEET NOTES:**
- 1 Conduit down into Girder Box, See Sheet EE-73
  - 2 Contractor shall furnish and install UP-panel per sheet EE-275. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - 3 Conduit down to Service Platform, See Sheet EE-275

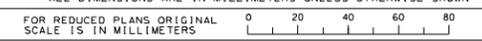
- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, See Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
    - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
  - For Roadway Call Box mounting details, see Sheet AS-10.
  - For Roadway level Lighting Pole Schedules, see Sheet EE-315.
  - For Roadway level Call Box Schedule, see Sheet EE-332.

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**EE-33**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-43R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:16:46 PM

**"CCO DRAFT"**  
 08/25/2010

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 24**  
 SKYWAY STRUCTURES  
 NO SCALE

**E-43**

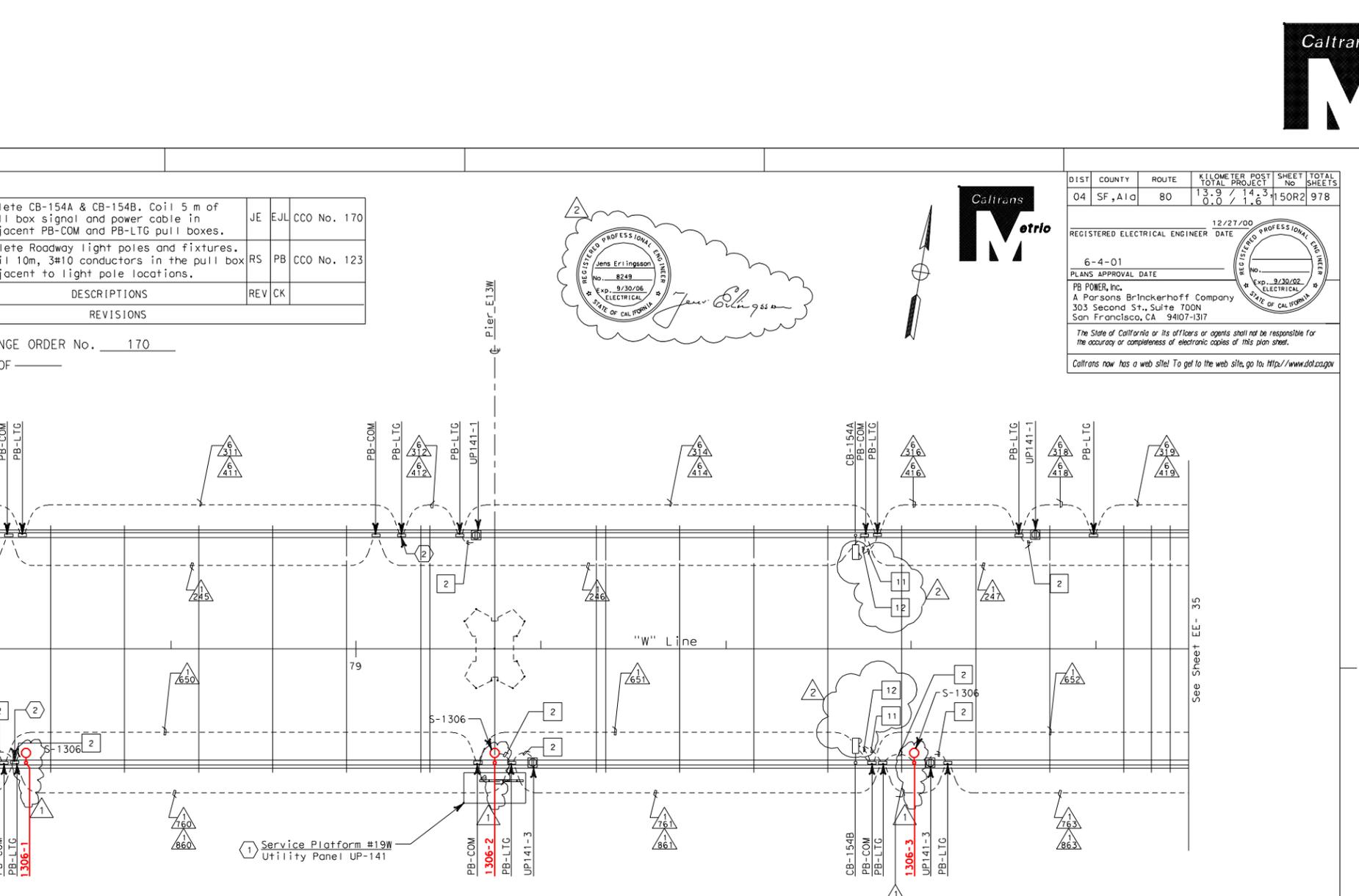
REVISOR	DATE	DESCRIPTION
JEFFRI HALIM		
ELLERY LUCAS		

DESIGN OVERSIGHT	DESIGNED BY	DATE
BEHZAD GOLEMOHAMMADI	IAH	11/99
	JP	5/00
	RS	3/05

CHECKED BY	DESIGNED BY	DATE
BRADY NADELL	IAH	11/99
	JP	5/00
	RS	3/05

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-154A & CB-154B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



**SHEET NOTES:**

- Contractor shall furnish and install UP-panel per sheet EE-276. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- Conduit down into Girder Box, See Sheet EE-74

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, See Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
  - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
- For Roadway Call Box mounting details, see Sheet AS-10.
- For Roadway level Lighting Pole Schedules, see Sheet EE-315.
- For Roadway level Call Box Schedule, see Sheet EE-332.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-44R01.dgn  
 USERNAME => fusco CU 04251 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE  
 PLAN LOCATION-SHEET 25  
 SKYWAY STRUCTURES**  
 NO SCALE



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	46R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO No. 10699 Exp. 06/30/2011 ELECTRICAL STATE OF CALIFORNIA

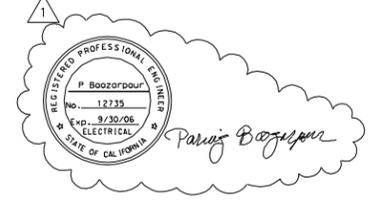
PLANS APPROVAL DATE 5-10-2010

PB AMERICAS, Inc.  
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 San Francisco, CA 94107-1317

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	13.9 / 14.3, 0.0 / 1.6	150R2	978

REGISTERED ELECTRICAL ENGINEER DATE 12/27/00  
 6-4-01  
 PLANS APPROVAL DATE  
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 San Francisco, CA 94107-1317

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DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:17:03 PM

**"CCO \_\_\_\_\_ DRAFT"**  
 08/25/2010

REVISOR	DATE	DESCRIPTION
JE	EJL	CCO No. 170
RS	PB	CCO No. 123

DESIGNED BY	DATE	DESIGN OVERSIGHT
IAH	11/99	BEHZAD GOLEMOHAMMADI
DESIGNED BY	DATE	DESIGN OVERSIGHT
JP	5/00	

CHECKED BY	DATE
JP	5/00

CHECKED BY	DATE
JP	5/00

CHECKED BY	DATE
JP	5/00

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JP	5/00

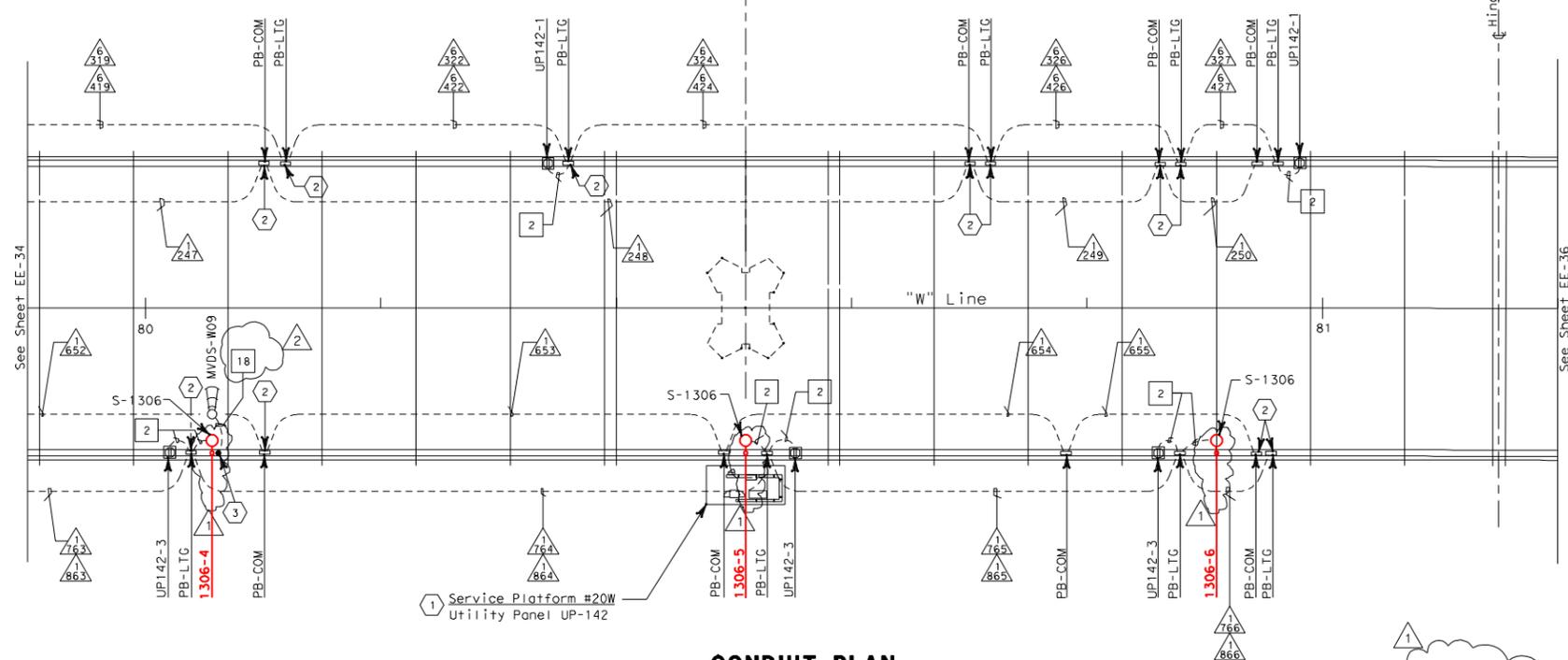
CHECKED BY	DATE
JP	5/00

CHECKED BY	DATE
JP	5/00

CHECKED BY	DATE
JP	5/00

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete MVDS cable harnesses only.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



**CONDUIT PLAN**

**SHEET NOTES:**

- Contractor shall furnish and install UP-panel per sheet EE-277. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- Conduit down into Girder Box, See Sheet EE-75.
- Conduit down into Girder Box for MVDS, See Sheet EE-75.

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, See Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, See Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, See Sheet EE-323.
  - For circuit, and conduit and cable tray schedules, See Sheets EE-324 and EE-325.
  - For Details of Hinge DW, See Sheet EE-298.
- For Roadway level Lighting Pole Schedules, see Sheet EE-315.

**3 REVISED PER ADDENDUM NO. 3 DATED OCTOBER 2, 2001**  
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THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$45 MEP\E-45R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

**EE-35**

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**"CCO DRAFT"**  
 08/25/2010

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 26**  
**SKYWAY STRUCTURES**  
 NO SCALE

**E-45**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	47R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 5-10-2010  
 PLANS APPROVAL DATE

DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

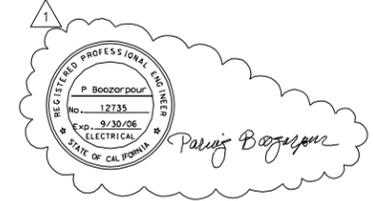
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	13.9 / 14.3, 0.0 / 1.6	151R2	978

REGISTERED ELECTRICAL ENGINEER DATE 02/12/01  
 6-4-01  
 PLANS APPROVAL DATE

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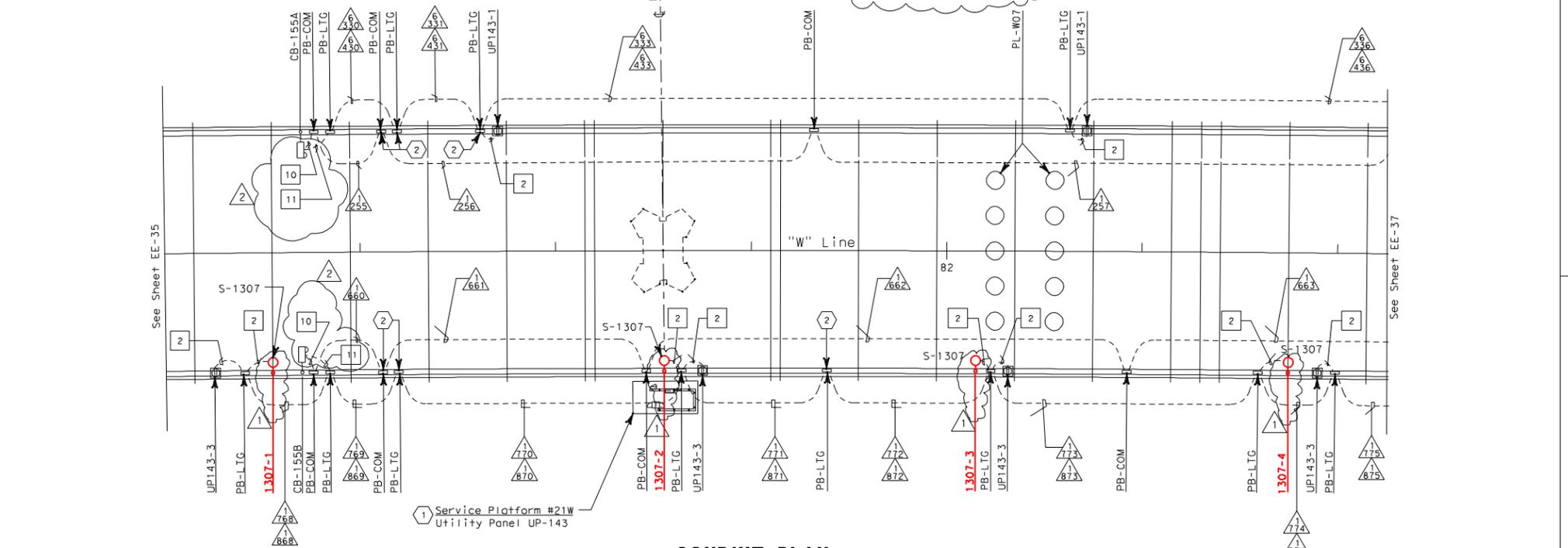


REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		
BRADY NADELL		

DESIGNED BY	DATE	DESIGNED BY	DATE
IAH	11/99	IAH	11/99
DESIGNED BY	DATE	DESIGNED BY	DATE
JP	5/00	JP	5/00
CHECKED BY	DATE	CHECKED BY	DATE
JP	5/00	JP	5/00
DESIGN OVERSIGHT	DATE	DESIGN OVERSIGHT	DATE
BEHZAD GOLEMOHAMMADI		BEHZAD GOLEMOHAMMADI	

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-155A & CB-155B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



**CONDUIT PLAN**

**SHEET NOTES:**

- Contractor shall furnish and install UP-panel per sheet EE-278. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- Conduit down into Girder Box, see Sheet EE-76.

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
  - For circuit, and conduit and cable tray schedules, see Sheets EE-324 and EE-325.
  - For details of Hinge DW, see Sheet EE-303.
- For Roadway Call Box mounting details, see Sheet AS-10.
- For Roadway Level Lighting Pole Schedules, see Sheet EE-315.
- For Roadway Level Call Box Schedule, see Sheet EE-332.

**3 REVISED PER ADDENDUM NO. 3 DATED OCTOBER 2, 2001**

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FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

SCALE: 1:200

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

EE-36

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0/2.7	152R2	978

REGISTERED ELECTRICAL ENGINEER DATE 02/12/01

6-4-01

PLANS APPROVAL DATE

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	48R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10

5-10-2010

PLANS APPROVAL DATE

DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

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FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

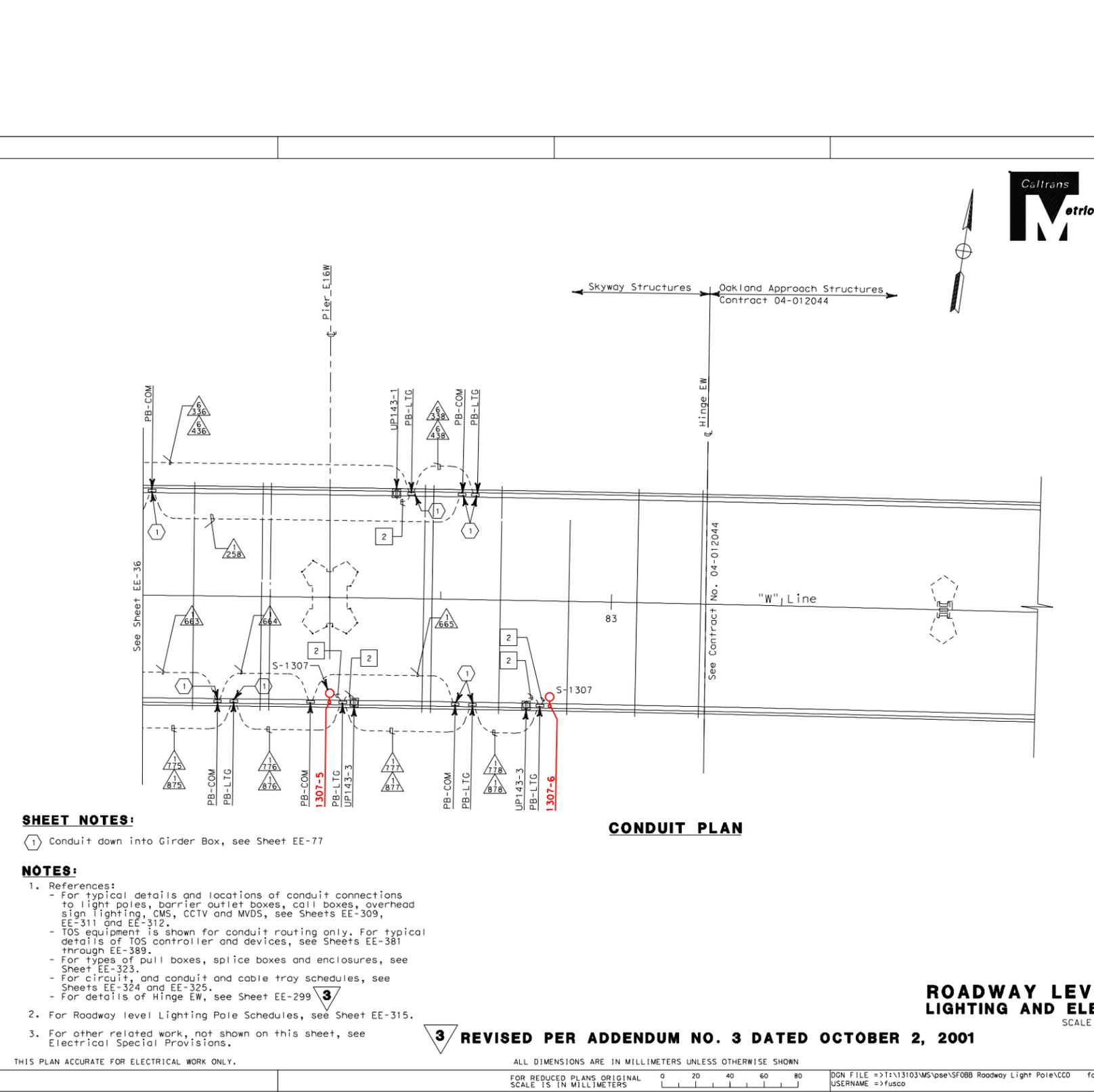
**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 27**  
**SKYWAY STRUCTURES**  
 NO SCALE

**"CCO DRAFT"**  
 08/25/2010

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

CONSULTANT FUNCTIONAL SUPERVISOR: BRADY NADELL  
 CALCULATED/DESIGNED BY: JEFFRI HALIM  
 CHECKED BY: ELLERY LUCAS  
 REVISIONS: (Grid with columns for DATE, REVISION, DESIGNED BY, CHECKED BY)

DESIGN OVERSIGHT: BEHZAD GOLEMOHAMMADI  
 DATE: 8/24/2010  
 TIME: 3:18:51 PM



**SHEET NOTES:**

1. Conduit down into Girder Box, see Sheet EE-77

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, coil boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
  - For circuit, and conduit and cable tray schedules, see Sheets EE-324 and EE-325.
  - For details of Hinge EW, see Sheet EE-299
- For Roadway Level Lighting Pole Schedules, see Sheet EE-315.
- For other related work, not shown on this sheet, see Electrical Special Provisions.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

**CONDUIT PLAN**

**3 REVISED PER ADDENDUM NO. 3 DATED OCTOBER 2, 2001**

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN  
 FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-47R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

**ROADWAY LEVEL WESTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**EE-37**

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE PLAN LOCATION-SHEET 28**  
**SKYWAY STRUCTURES**  
 NO SCALE

**E-47**



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF,Ala	80	13.9 / 14.3, 0.0 / 1.6	153	978

REGISTERED ELECTRICAL ENGINEER DATE: 03/19/01  
 PLANS APPROVAL DATE: 6-4-01  
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 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	49R1	84

REGISTERED ELECTRICAL ENGINEER DATE: 2/12/10  
 PLANS APPROVAL DATE: 5-10-2010  
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 08/25/2010

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

CONSULTANT FUNCTIONAL SUPERVISOR  
 BRADY NADELL

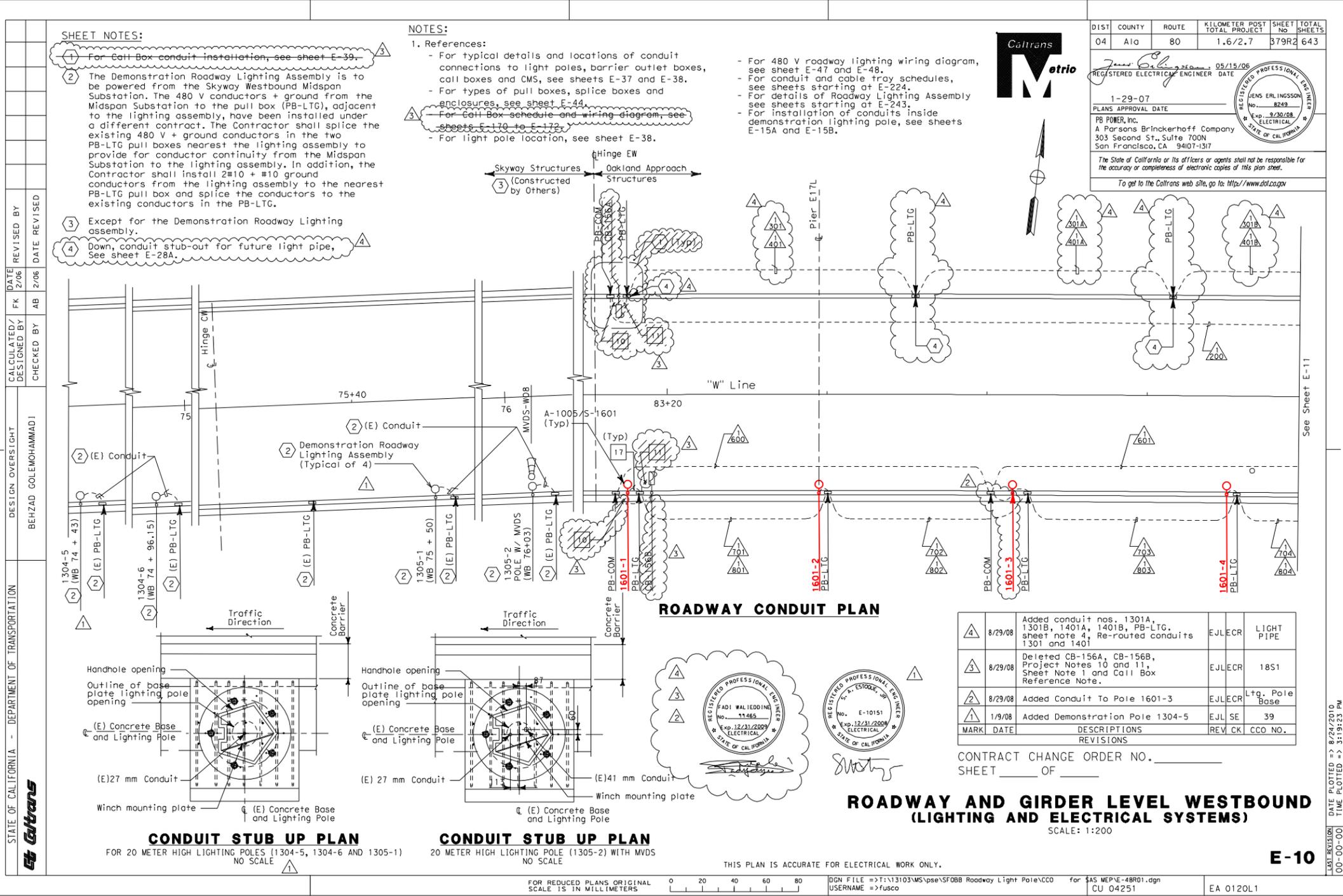
DESIGN OVERSIGHT  
 BEHZAD GOLEHAMMADI

DESIGNED BY  
 JEFFRI HALIM

CHECKED BY  
 ELLERY LUCAS

REVISOR  
 DATE

REVISOR  
 DATE



**SHEET NOTES:**

- 1 For Call Box conduit installation, see sheet E-39.
- 2 The Demonstration Roadway Lighting Assembly is to be powered from the Skyway Westbound Midspan Substation. The 480 V conductors + ground from the Midspan Substation to the pull box (PB-LTG), adjacent to the lighting assembly, have been installed under a different contract. The Contractor shall splice the existing 480 V + ground conductors in the two PB-LTG pull boxes nearest the lighting assembly to provide for conductor continuity from the Midspan Substation to the lighting assembly. In addition, the Contractor shall install 2#10 + #10 ground conductors from the lighting assembly to the nearest PB-LTG pull box and splice the conductors to the existing conductors in the PB-LTG.
- 3 Except for the Demonstration Roadway Lighting assembly.
- 4 Down conduit stub-out for future light pipe. See sheet E-28A.

**NOTES:**

1. References:
- For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes and CMS, see sheets E-37 and E-38.
  - For types of pull boxes, splice boxes and enclosures, see sheet E-44.
  - For Call Box schedule and wiring diagram, see sheets E-170 to E-172.
  - For light pole location, see sheet E-38.
  - For 480 V roadway lighting wiring diagram, see sheet E-47 and E-48.
  - For conduit and cable tray schedules, see sheets starting at E-224.
  - For details of Roadway Lighting Assembly see sheets starting at E-243.
  - For installation of conduits inside demonstration lighting pole, see sheets E-15A and E-15B.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	80	1.6/2.7	379R2	643

REGISTERED ELECTRICAL ENGINEER  
 DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
 1-29-07

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 San Francisco, CA 94107-1317

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MARK	DATE	DESCRIPTIONS	REV	CK	CCO NO.
4	8/29/08	Added conduit nos. 1301A, 1301B, 1401A, 1401B, PB-LTG. sheet note 4, Re-routed conduits 1301 and 1401	EJLECR		LIGHT PIPE
3	8/29/08	Deleted CB-156A, CB-156B, Project Notes 10 and 11, Sheet Note 1 and Call Box Reference Note.	EJLECR		18S1
2	8/29/08	Added Conduit To Pole 1601-3	EJLECR		Ltg. Pole Base
1	1/9/08	Added Demonstration Pole 1304-5	EJL	SE	39

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

Dist COUNTY ROUTE KILOMETER POST TOTAL PROJECT SHEET No. TOTAL SHEETS  
 04 SF, Ala 80 12.7/14.3, 0.0/2.7 50R1 84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10

PLANS APPROVAL DATE 5-10-2010

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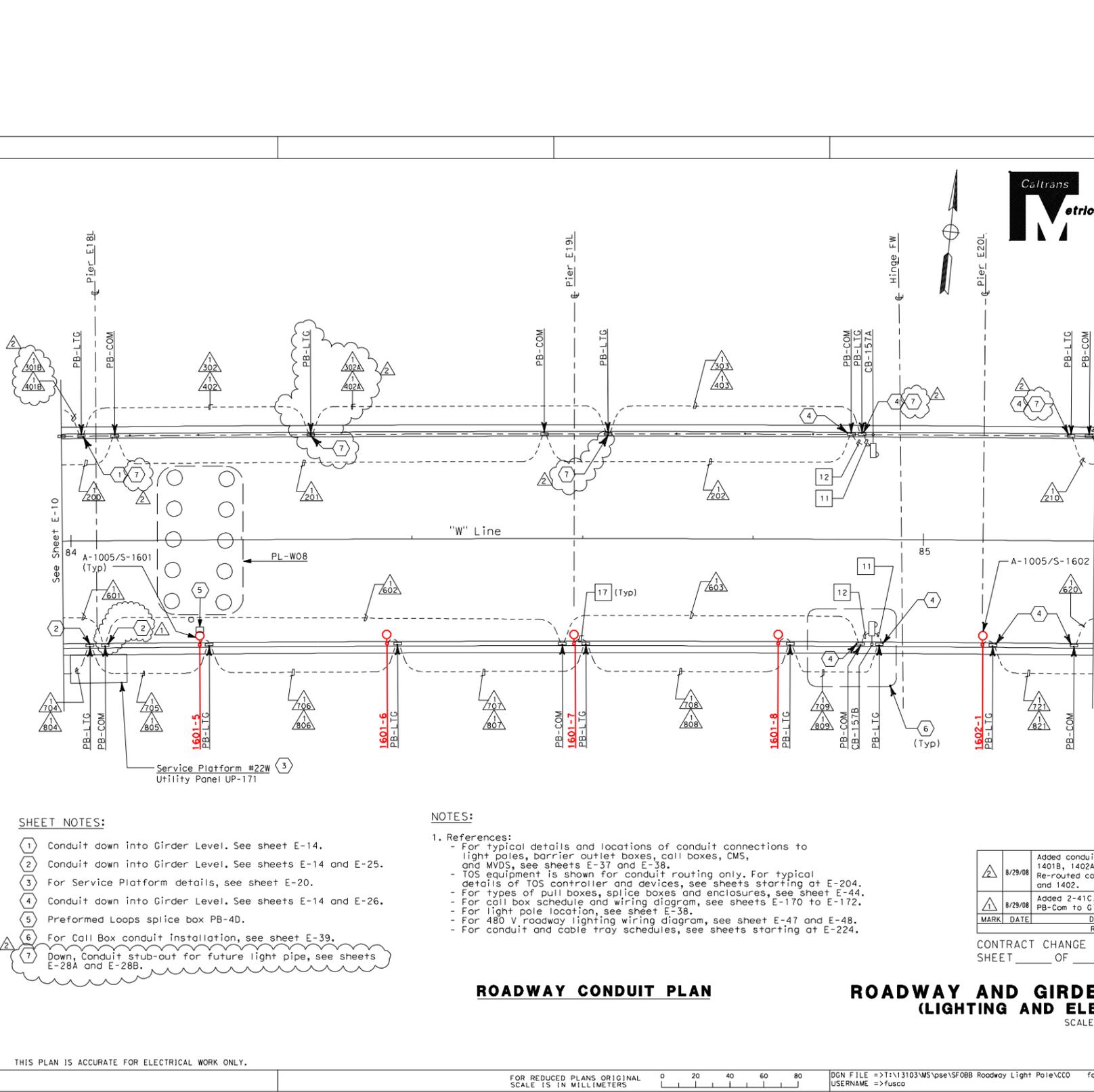
FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE  
 PLAN LOCATION-SHEET 29  
 OAKLAND APPROACH STRUCTURES**  
 NO SCALE

LAST REVISION DATE PLOTTED => 8/24/2010  
 08-17-09 TIME PLOTTED => 3:19:23 PM

REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		
BRADY NADELL		

DESIGNED BY	DATE	DESIGNED BY	DATE
BEHZAD GOLEHAMMADI	2/06	BEHZAD GOLEHAMMADI	2/06
CHECKED BY	DATE	CHECKED BY	DATE



**Caltrans**  
**Metric**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Alameda	80	1.6/2.7	380R	643

REGISTERED ELECTRICAL ENGINEER DATE 05/15/06  
 1-29-07  
 PLANS APPROVAL DATE  
 PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

REGISTERED PROFESSIONAL ENGINEER  
 JENS ERLINSSON  
 No. 8249  
 Exp. 8/30/08  
 ELECTRICAL  
 STATE OF CALIFORNIA

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 TIME PLOTTED => 3:19:47 PM

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

MARK	DATE	DESCRIPTIONS	REV	CK	CCO NO.
△	8/29/08	Added conduit nos 1301B, 1302A, 1401B, 1402A, PB-LTG, sheet notes 7. Re-routed conduits 1301, 1401, 1302 and 1402.	EJLECR		Light Pipe
△	8/29/08	Added 2-41C, 4403A & 4404A from PB-Com to Girder Level	EJLECR		Light Pole Base

SCALE: 1:200

EA 0120L1

- SHEET NOTES:**
- Conduit down into Girder Level. See sheet E-14.
  - Conduit down into Girder Level. See sheets E-14 and E-25.
  - For Service Platform details, see sheet E-20.
  - Conduit down into Girder Level. See sheets E-14 and E-26.
  - Preformed Loops splice box PB-4D.
  - For Call Box conduit installation, see sheet E-39.
  - Down Conduit stub-out for future light pipe, see sheets E-28A and E-28B.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, CMS, and MVDS, see sheets E-37 and E-38.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see sheets starting at E-204.
    - For types of pull boxes, splice boxes and enclosures, see sheet E-44.
    - For call box schedule and wiring diagram, see sheets E-170 to E-172.
    - For light pole location, see sheet E-38.
    - For 480 V roadway lighting wiring diagram, see sheet E-47 and E-48.
    - For conduit and cable tray schedules, see sheets starting at E-224.

**ROADWAY CONDUIT PLAN**      **ROADWAY AND GIRDER LEVEL WESTBOUND (LIGHTING AND ELECTRICAL SYSTEMS)**

**E-11**

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

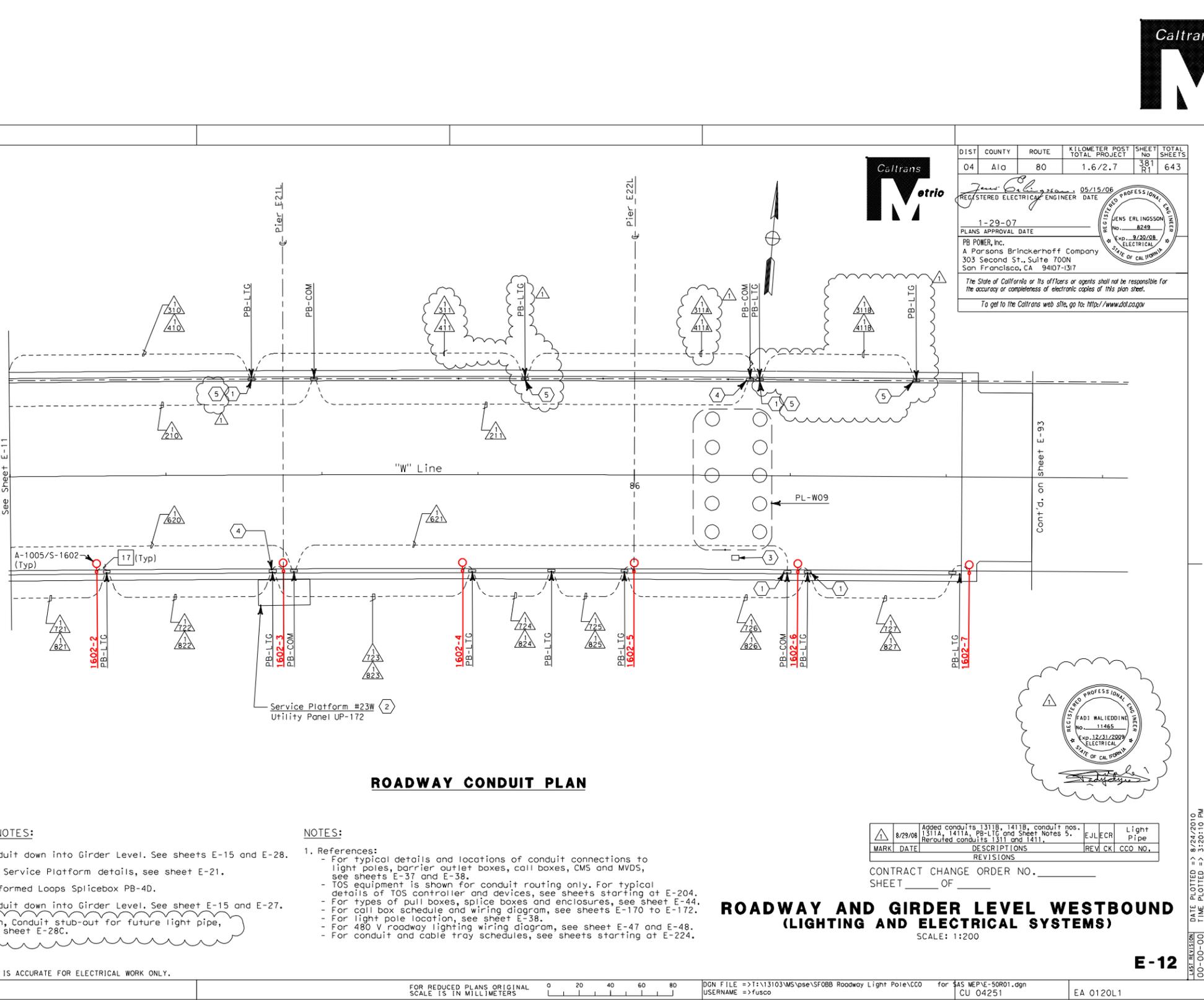
**ROADWAY LIGHTING POLE  
 PLAN LOCATION-SHEET 30  
 OAKLAND APPROACH STRUCTURES**  
 NO SCALE

**"CCO DRAFT"**  
 08/25/2010

REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		
BRADY NADELL		

DESIGNED BY	DATE	DESIGNED BY	DATE
BEHZAD GOLEMOHAMMADI	2/06	BEHZAD GOLEMOHAMMADI	2/06
CHECKED BY	DATE	CHECKED BY	DATE

DESIGN OVERSIGHT	DATE	DESIGN OVERSIGHT	DATE
BEHZAD GOLEMOHAMMADI	2/06	BEHZAD GOLEMOHAMMADI	2/06



- SHEET NOTES:**
- Conduit down into Girder Level. See sheets E-15 and E-28.
  - For Service Platform details, see sheet E-21.
  - Preformed Loops Splicebox PB-4D.
  - Conduit down into Girder Level. See sheet E-15 and E-27.
  - Down, Conduit stub-out for future light pipe, see sheet E-28c.

- NOTES:**
1. References:
- For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, CMS and MVDS, see sheets E-37 and E-38.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see sheets starting at E-204.
  - For types of pull boxes, splice boxes and enclosures, see sheet E-44.
  - For call box schedule and wiring diagram, see sheets E-170 to E-172.
  - For light pole location, see sheet E-38.
  - For 480 V roadway lighting wiring diagram, see sheet E-47 and E-48.
  - For conduit and cable tray schedules, see sheets starting at E-224.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-50R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 0120L1

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

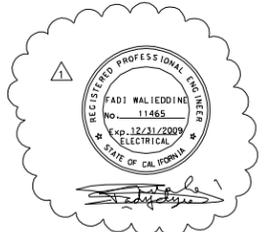
**ROADWAY AND GIRDER LEVEL WESTBOUND  
 (LIGHTING AND ELECTRICAL SYSTEMS)**

SCALE: 1:200

**E-12**

MARK	DATE	DESCRIPTIONS	REVISIONS	REVIEWER	CCO NO.
△	8/29/08	Added conduits 1311B, 1411B, conduit nos. 1311A, 1411A, PB-LTG and Sheet Notes 5. Rerouted conduits 1311 and 1411.		EJLECR	Light Pipe

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Alameda	80	1.6/2.7	381 R1	643

REGISTERED ELECTRICAL ENGINEER DATE 05/15/06  
 1-29-07  
 PLANS APPROVAL DATE  
 PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	52R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 5-10-2010  
 PLANS APPROVAL DATE

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**"CCO DRAFT"**  
 08/25/2010

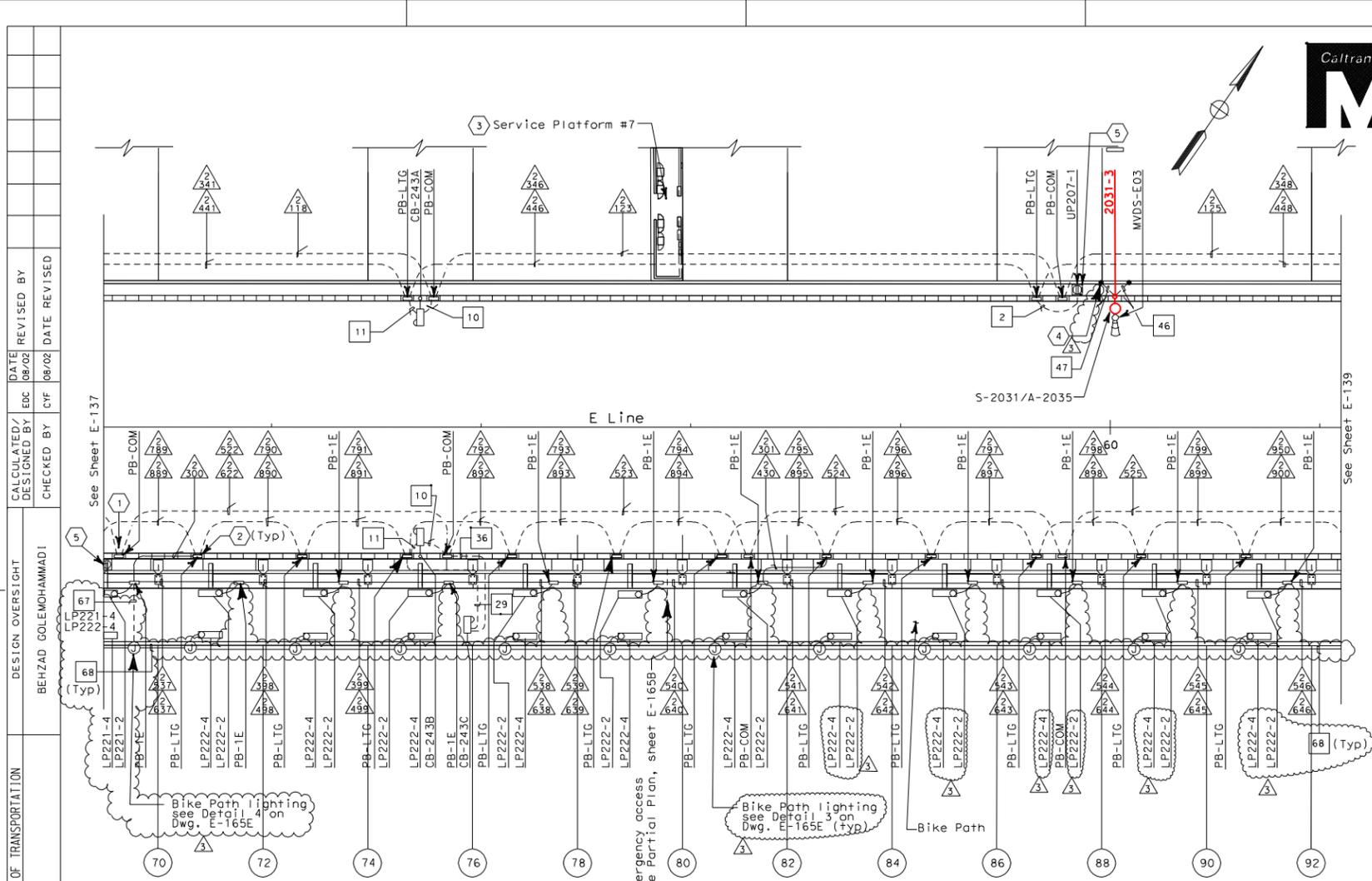
**ROADWAY LIGHTING POLE  
 PLAN LOCATION-SHEET 31  
 OAKLAND APPROACH STRUCTURES**

NO SCALE

**E-50**



REVISOR	DATE	REVISION
JEFFRI HALIM	08/02	DESIGNED BY
ELLERY LUCAS	08/02	CHECKED BY
BRADY NADELL		DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI		DESIGNED BY
		CHECKED BY



**SAS SUPERSTRUCTURE - CONDUIT PLAN**

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE			
02/12/10	BIKE PATH CONDUIT	TW	SYC 73
12/15/08	BIKE PATH DETAILS	TW	RG FW 99
02/19/08	ELECTRICAL MODIFICATIONS	MP EL	RR 42
MARK	DATE	DESCRIPTIONS	BY CH'D CCO#

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

REGISTERED PROFESSIONAL ENGINEER  
 E 8651  
 No. 11865  
 Exp. 12/31/2009  
 ELECTRICAL

FOR REVISION ONLY

REGISTERED PROFESSIONAL ENGINEER  
 ADI MALIEDDINI  
 No. 11865  
 Exp. 12/31/2009  
 ELECTRICAL

FOR REVISION ONLY

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 FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

**SAS SUPERSTRUCTURE ROADWAY EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

NO SCALE

**E-138**

DIST COUNTY ROUTE KILOMETER POST TOTAL PROJECT SHEET TOTAL SHEETS  
 04 SF 80 13.2/13.9 191R3 1204

REGISTERED ELECTRICAL ENGINEER DATE 12/19/02  
 JAMES ERLINSSON

PLANS APPROVAL DATE 12-6-04  
 PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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- SHEET NOTES:**
- Conduit from barrier pullbox or other equipment down into Girder Box, see sheet E-184.
  - For conduit to tower and suspension cable lighting, see sheet E-229.
  - Contractor shall furnish and install UP-207 and LP-222 per sheet E-74. For complete scope of work on platform and other related work not shown on this sheet, see Electrical Special Provisions.
  - Conduit down to girder for MVDS, see sheet E-184.
  - Roadway Barrier Receptacle, see Detail 1, sheet E-162.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see sheets E-160 thru E-162 and E-169.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see sheets E-344 through E-357.
    - For types of pull boxes, splice boxes and enclosures, see sheet E-169.
    - For circuit and conduit/cable tray schedules, see sheets starting at E-401.
  - For Roadway Level Call Boxes, refer to sheet E-396.
  - For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see sheets E-146, E-147 and E-165.
  - For Roadway level and Bike Path Call Box Schedule, see sheet E-397.
  - For number of lighting fixtures (main tower lights) see lighting schedule sheets E-271 and E-272.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be galvanized rigid steel, PVC coated.
  - See sheets E-160 thru E-165 for conduit locations.

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:23:14 PM

Dist COUNTY ROUTE KILOMETER POST TOTAL PROJECT SHEET TOTAL SHEETS  
 04 SF, Ala 80 12.7/14.3, 0.0/2.7 59R1 84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO

PLANS APPROVAL DATE 5-10-2010  
 PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

REGISTERED PROFESSIONAL ENGINEER  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL

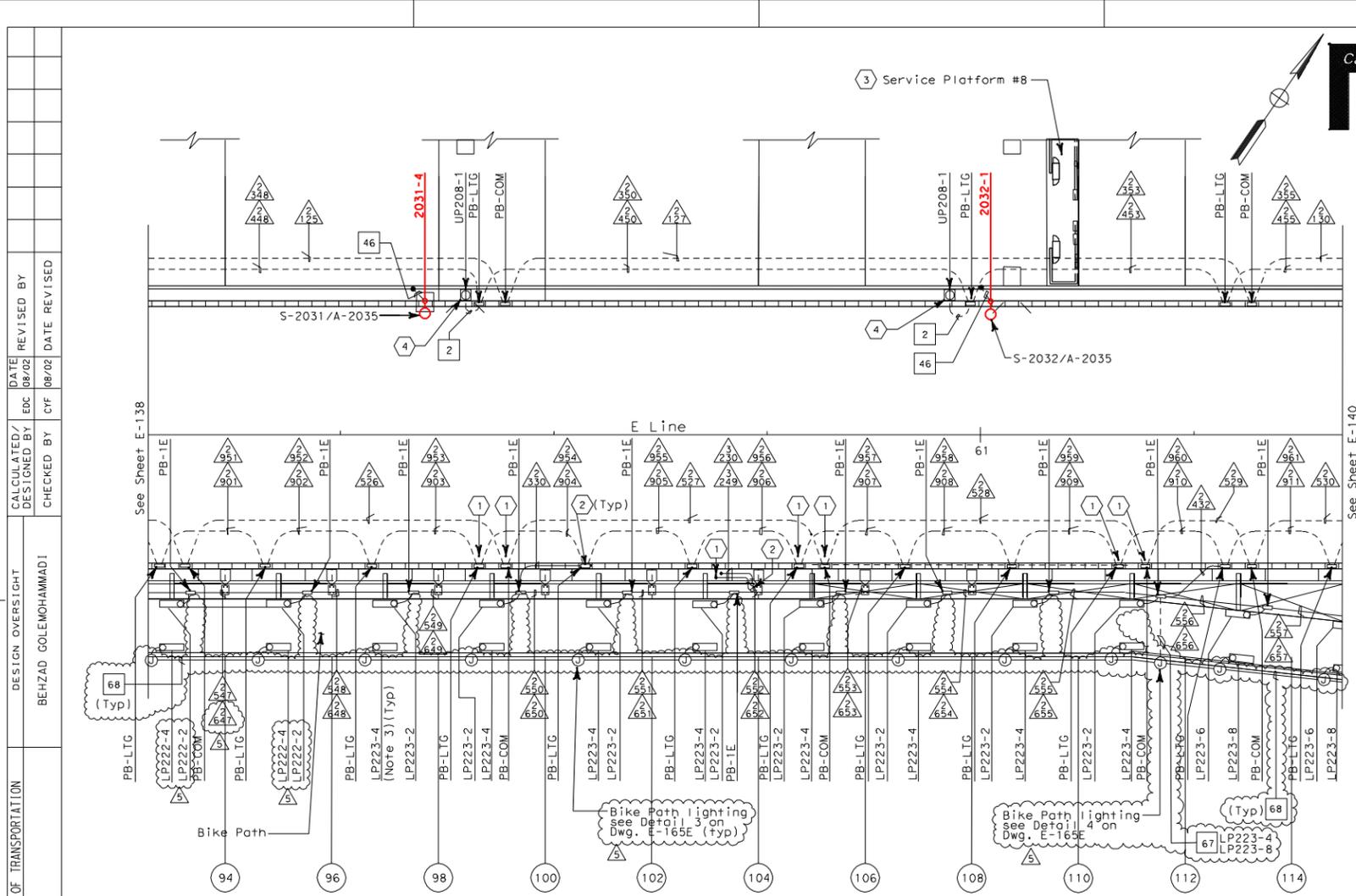
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**"CCO DRAFT"**  
 08/25/2010

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 38**  
 SAS SUPERSTRUCTURE  
 NO SCALE

REVISOR	DATE	REVISION
JEFFRI HALIM	08/02	DESIGNED BY
ELLERY LUCAS	08/02	CHECKED BY
BRADY NADELL		DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI		DESIGNED BY
		CHECKED BY



REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH	CCO#
3	02/12/10	BIKE PATH CONDUIT	TW	SY	73
4	01/08/09	BIKE PATH DETAILS	TW	RG	99
5	2/01/08	BIKE PATH DETAILS	TW	RG	99
6	03/04/08	BARRIER MODIFICATIONS	JUS	RG	44
7	02/19/08	ELECTRICAL MODIFICATIONS	MP	RR	42

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

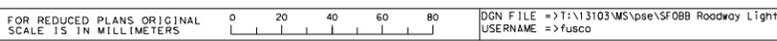
**SAS SUPERSTRUCTURE - CONDUIT PLAN**

REGISTERED PROFESSIONAL ENGINEER  
 S. N. ESTOQUE, JR.  
 No. E-10151  
 Exp. 12/31/2009  
 ELECTRICAL  
 STATE OF CALIFORNIA

FOR REVISION ONLY

REGISTERED PROFESSIONAL ENGINEER  
 FADI MALEDDINE  
 No. 11465  
 Exp. 12/31/2009  
 ELECTRICAL  
 STATE OF CALIFORNIA

FOR REVISION ONLY



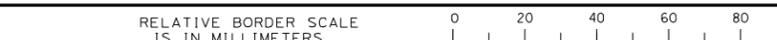
**SAS SUPERSTRUCTURE ROADWAY EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE 1:200

**E-139**

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:23:44 PM

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY



**Caltrans**  
**Metric**

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	13.2/13.9	192 R5	1204

REGISTERED ELECTRICAL ENGINEER DATE 12/19/07  
 JAMES B. GILBERT

12-6-04  
 PLANS APPROVAL DATE

PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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- SHEET NOTES:**
- Conduit from barrier pullbox or other equipment down into Girder Box, see sheet E-185.
  - Contractor shall furnish and install UP-208 and LP-223 per sheet E-75. For complete scope of work on platform and other related work not shown on this sheet, see Electrical Special Provisions.
  - For conduit to tower and suspension cable lighting, see sheet E-230.
  - Roadway Barrier Receptacle, see Detail 1, sheet E-162.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see sheets E-160 thru E-162 and E-169.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see sheets E-344 through E-357.
    - For types of pull boxes, splice boxes and enclosures, see sheet E-169.
    - For circuit and conduit/cable tray schedules, see sheets starting at E-401.
  - For Roadway Level Call Boxes, refer to sheet E-396.
  - For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see sheets E-146, E-147 and E-165.
  - For Roadway level and Bike Path Call Box Schedule, see sheet E-397.
  - For number of lighting fixtures (main tower lights) see lighting schedule sheets E-271 and E-272.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
  - See sheets E-160 thru E-165 for conduit locations.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Ala	80	12.7/14.3, 0.0/2.7	60R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO

5-10-2010  
 PLANS APPROVAL DATE

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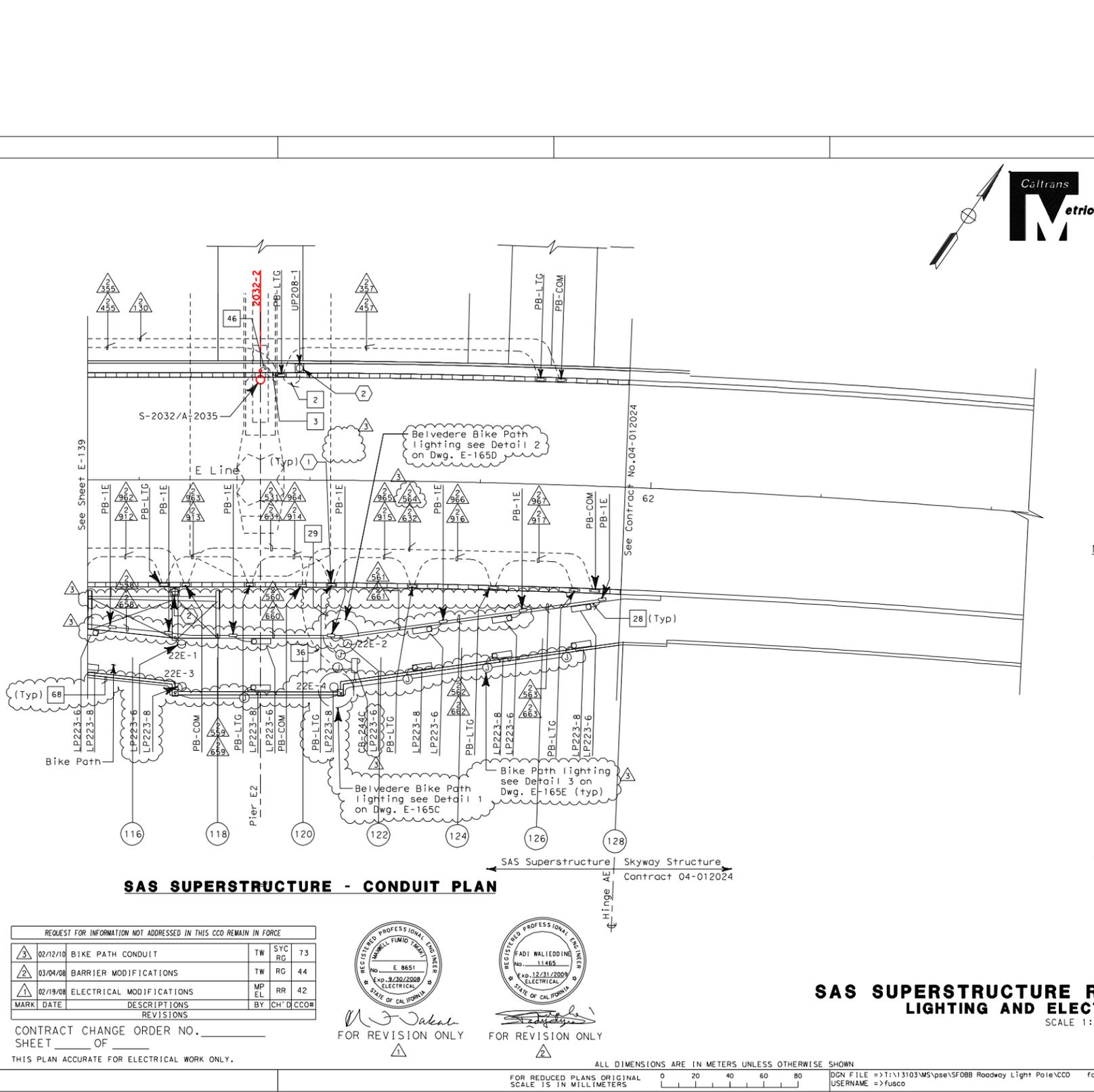
**"CCO DRAFT"**  
 08/25/2010

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 39**  
**SAS SUPERSTRUCTURE**  
 NO SCALE

**E-58**

REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		
BRADY NADELL		

DESIGNED BY	DATE	DESIGNED BY
EDC	08/02	EDC
CHECKED BY	DATE	CHECKED BY
CYF	08/02	CYF
DESIGN OVERSIGHT		BEHZAD GOLEMOHAMMADI
CONSULTANT SUPERVISOR		BRADY NADELL
FUNCTIONAL SUPERVISOR		JEFFRI HALIM
DESIGNED BY	DATE	DESIGNED BY
EDC	08/02	EDC
CHECKED BY	DATE	CHECKED BY
CYF	08/02	CYF



REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

3	02/12/10	BIKE PATH CONDUIT	TW	SYC	73
4	03/04/08	BARRIER MODIFICATIONS	TW	RG	44
5	02/19/08	ELECTRICAL MODIFICATIONS	MP	RR	42
		MARK DATE DESCRIPTIONS REVISIONS	BY	CH'D	CCOR

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

FOR REVISION ONLY

FOR REVISION ONLY

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 FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

**SAS SUPERSTRUCTURE ROADWAY EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE 1:200

**E-140**

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:24:18 PM

**SHEET NOTES:**

- 1 For conduit to tower and suspension cable lighting, see sheet E-230.
- 2 Roadway Barrier Receptacle, see Detail 1, sheet E-162.

**NOTES:**

1. References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDs, see sheets E-160 thru E-162 and E-169.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see sheets E-344 through E-357.
  - For types of pull boxes, splice boxes and enclosures, see sheet E-169.
  - For circuit and conduit/cable tray schedules, see sheets starting at E-401.
2. For Roadway Level Call Boxes, refer to sheet E-396.
3. For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see sheets E-146, E-147 and E-165.
4. For Roadway level and Bike Path Call Box Schedule, see sheet E-397.
5. For number of lighting fixtures (main tower lights) see lighting schedule sheets E-271 and E-272.
6. All conduits and fittings routed exposed between the Bike Path and the roadway shall be galvanized rigid steel, PVC coated.
7. See sheets E-160 thru E-165 for conduit locations.
8. For Belvedere lighting fixture installation, see sheet E-173.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	13.2/13.9	193R3	1204

REGISTERED ELECTRICAL ENGINEER DATE 12/19/02

12-6-04  
 PLANS APPROVAL DATE

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 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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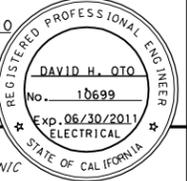


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	80	12.7/14.3, 0.0/2.7	61R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10

5-10-2010  
 PLANS APPROVAL DATE

PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317



FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 40**  
**SAS SUPERSTRUCTURE**  
 NO SCALE



REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		
BRADY NADELL		

DESIGNED BY	DATE	REVISION
BEHZAD COLEMOHAMMADI	10/01	3/05
CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05
DESIGNED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05

DESIGNED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05
CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05

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JEFFRI HALIM	10/01	3/05
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JEFFRI HALIM	10/01	3/05

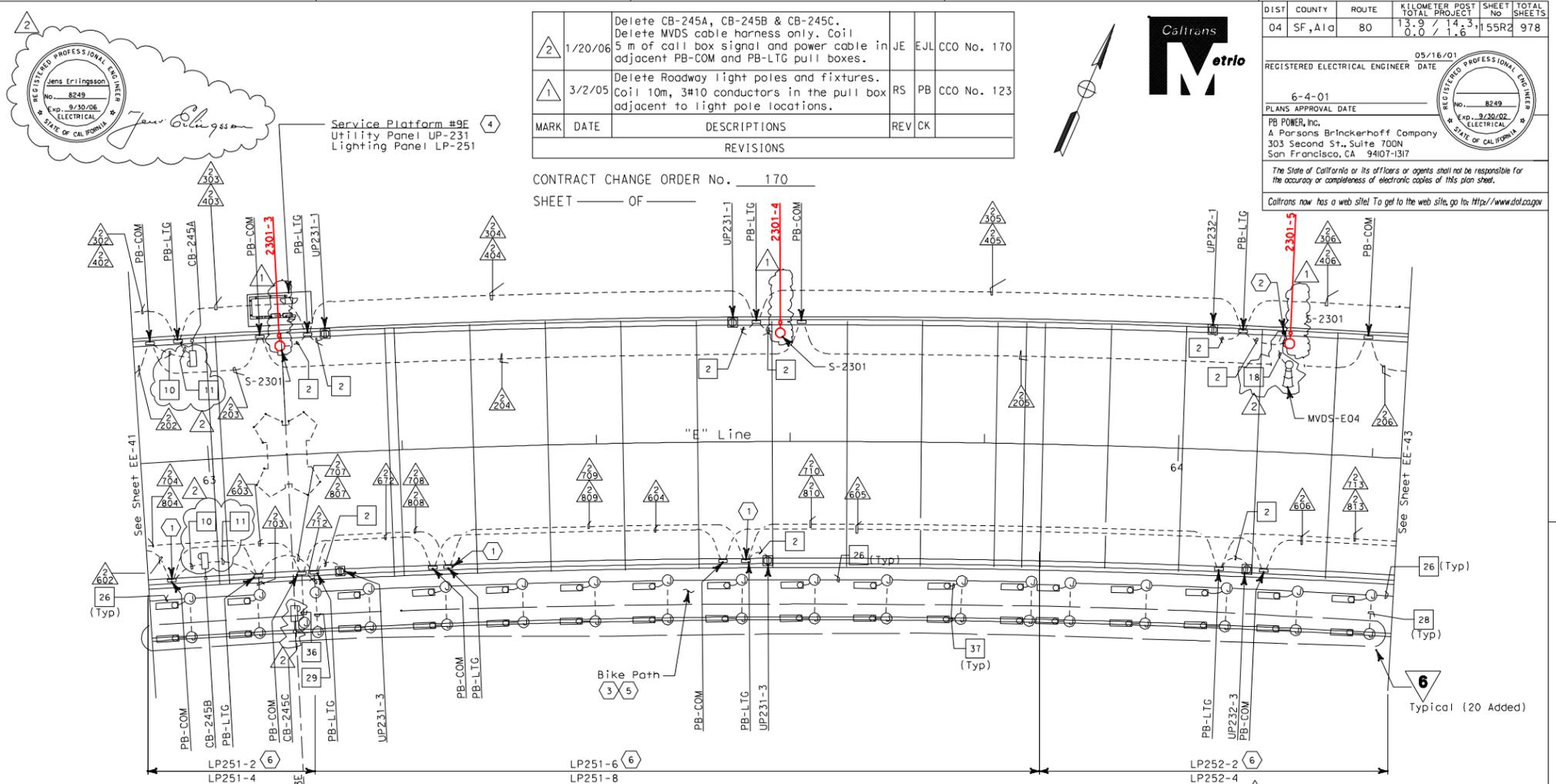
DESIGNED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05
CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05

DESIGNED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05
CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05

DESIGNED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05
CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05

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JEFFRI HALIM	10/01	3/05
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DESIGNED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05
CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01	3/05



- SHEET NOTES:**
- Conduit down into Girder Box, see Sheet EE-82.
  - Conduit down into Girder Box (for MVDS), see Sheet EE-82.
  - For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - Contractor shall furnish and install UP- and LP-panels per Sheet EE-281. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
  - Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

- For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
- For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
- For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200  
**EE-42**  
 6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-61R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 42**  
**SKYWAY STRUCTURES**  
 NO SCALE

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	63R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 5-10-2010  
 PLANS APPROVAL DATE

DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

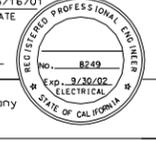
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	13.9 / 14.3, 0.0 / 1.6	155R2	978

REGISTERED ELECTRICAL ENGINEER DATE 05/16/01  
 6-4-01  
 PLANS APPROVAL DATE

PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

CONSULTANT FUNCTIONAL SUPERVISOR  
 BRADY NADELL

DESIGNED BY  
 BEHZAD GOLEMOHAMMADI

DESIGN OVERSIGHT

REGISTERED PROFESSIONAL ENGINEER  
 JENS ERINGSOHN  
 No. 8249  
 Exp. 9/30/06  
 ELECTRICAL  
 STATE OF CALIFORNIA

REVISOR	DATE	REVISION
JEFFRI HALIM	10/01	3/05
ELLERY LUCAS		

DATE	DESIGNED BY	DATE	REVISION
11/99	CF	5/00	3/05
	JP		

DATE	DESIGNED BY	DATE	REVISION
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	JP		

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11/99	CF	5/00	3/05
	JP		

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11/99	CF	5/00	3/05
	JP		

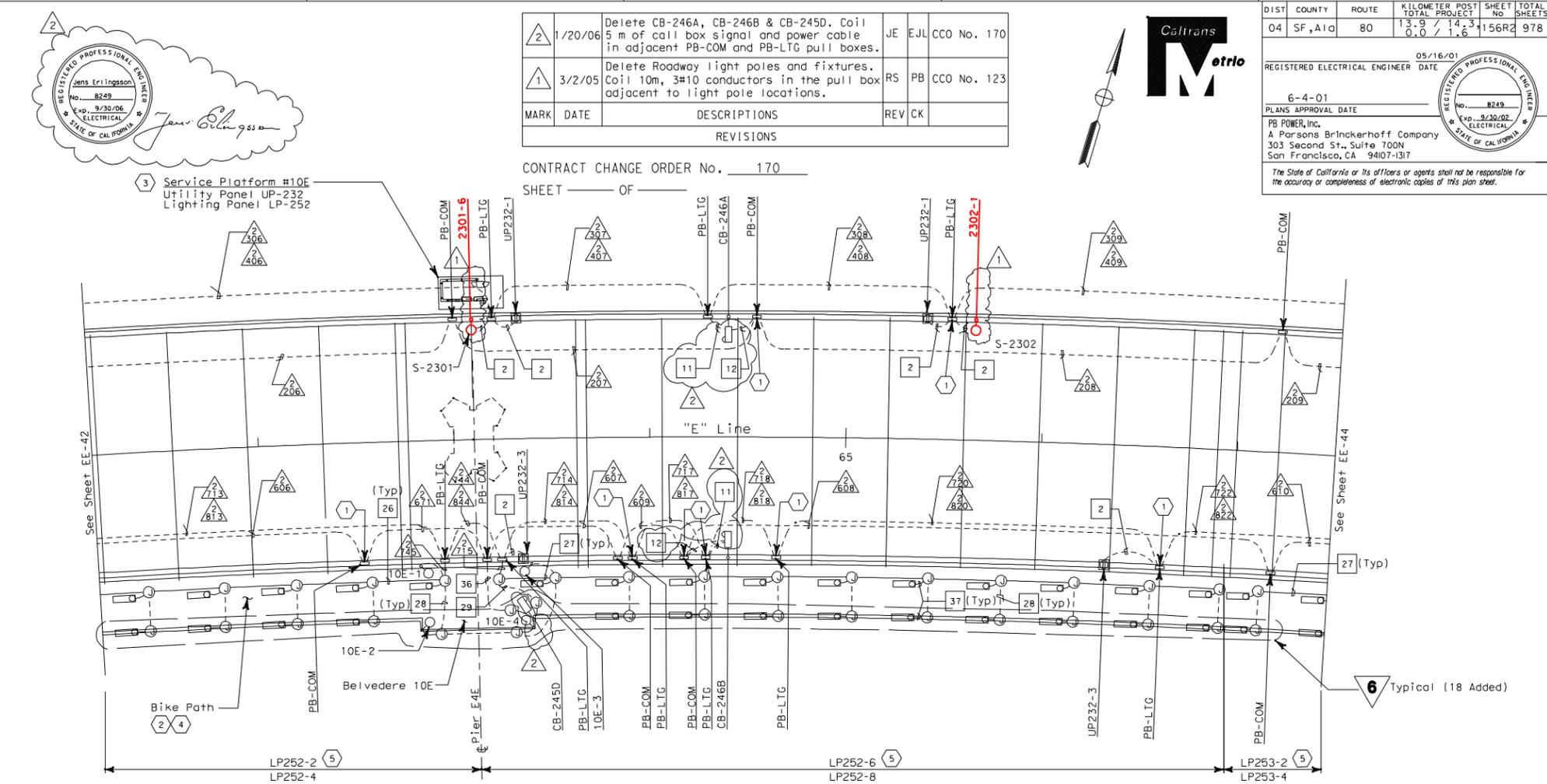
DATE	DESIGNED BY	DATE	REVISION
11/99	CF	5/00	3/05
	JP		

DATE	DESIGNED BY	DATE	REVISION
11/99	CF	5/00	3/05
	JP		

DATE	DESIGNED BY	DATE	REVISION
11/99	CF	5/00	3/05
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DATE	DESIGNED BY	DATE	REVISION
11/99	CF	5/00	3/05
	JP		

DATE	DESIGNED BY	DATE	REVISION
11/99	CF	5/00	3/05
	JP		



- SHEET NOTES:**
- Conduit down into Girder Box, see Sheet EE-83, in 6
  - For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - Contractor shall furnish and install UP- and LP-panels per Sheet EE-282. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
  - Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
  - For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
  - For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
  - For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

CONTRACT CHANGE ORDER No. 170

SHEET \_\_\_\_\_ OF \_\_\_\_\_

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-246A, CB-246B & CB-245D. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

DIST COUNTY ROUTE KILOMETER POST TOTAL SHEET TOTAL  
 04 SF,Ala 80 13.9 / 14.3 156R2 978  
 0.0 / 1.6

REGISTERED ELECTRICAL ENGINEER DATE 05/16/01

6-4-01  
 PLANS APPROVAL DATE

PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-62R01.dgn  
 USERNAME => fusco CU 04251 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE  
 LOCATION PLAN-SHEET 43  
 LIGHTING AND ELECTRICAL SYSTEMS**  
 NO SCALE

E-62



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF,Ala	80	12.7/14.3, 0.0/2.7	64R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10

5-10-2010  
 PLANS APPROVAL DATE

DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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**"CCO DRAFT"**  
 08/25/2010

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:26:11 PM

LAST REVISION DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:26:11 PM

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	65R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
 5-10-2010  
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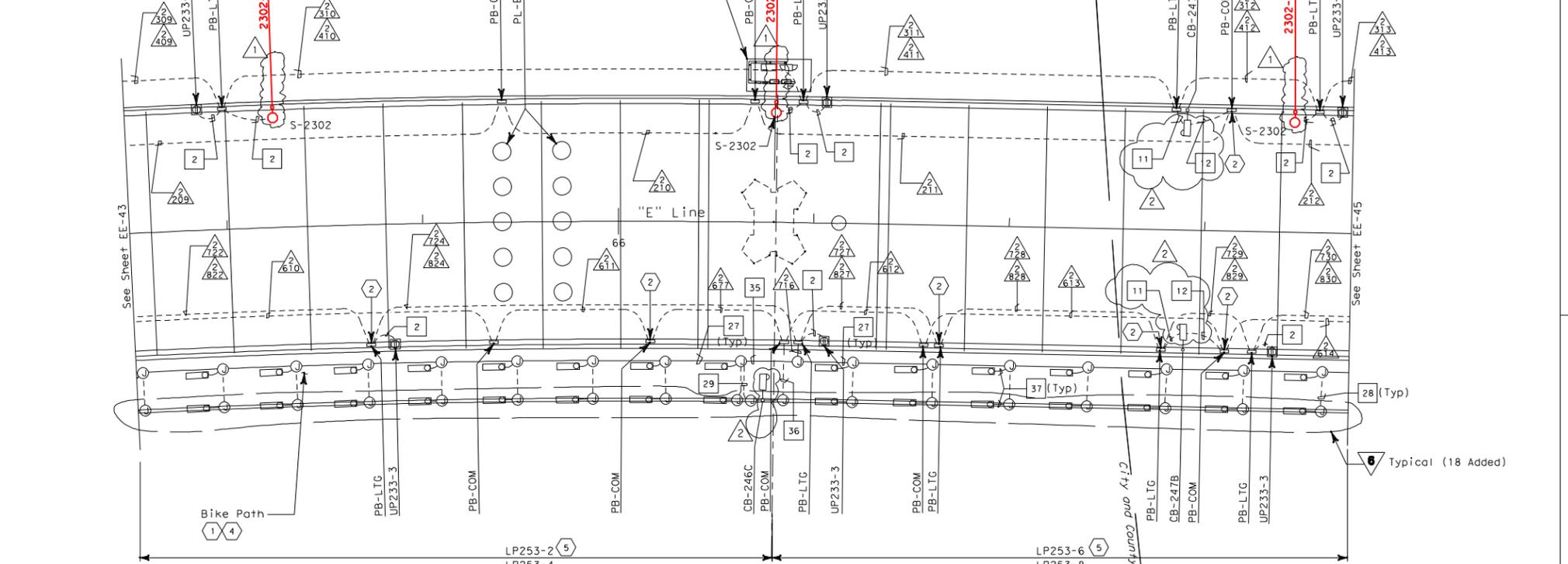


MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-247A, CB-247B & CB-246C. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

REVISIONS

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

DESIGN OVERSIGHT	BEHZAD GOLEMOHAMMADI
CHECKED BY	BRADY NADELL
DESIGNED BY	JEFFRI HALIM
DATE	10/01/05
REVISION BY	EJL
DATE	10/01/05
REVISION BY	RS
DATE	10/01/05
REVISION BY	JE
DATE	10/01/05



**SHEET NOTES:**

- For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
- Conduit down into Girder Box, see Sheet EE-84.
- Contractor shall furnish and install UP- and LP-panels per Sheet EE-283. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
- Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

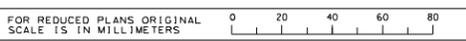
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDs, see Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only.
  - For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
  - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
- For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
- For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
- For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

**CONDUIT PLAN**

**6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001 EE-44**



DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for SAS MEP\E-63R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE  
 LOCATION PLAN-SHEET 44  
 SKYWAY STRUCTURES**  
 NO SCALAE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

CONSULTANT FUNCTIONAL SUPERVISOR  
 BRADY NADELL

DESIGNED BY  
 BEHZAD GOLEHAMMADI

DESIGN OVERSIGHT

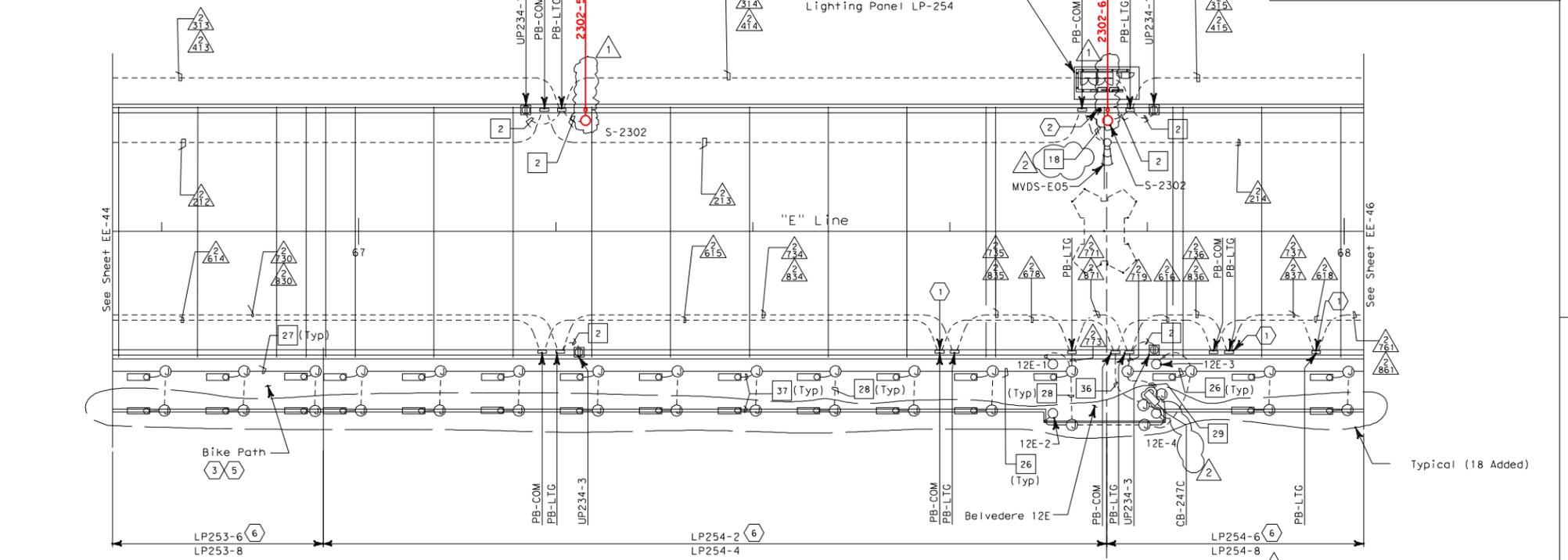
REVISOR  
 JEFFRI HALIM

DATE REVISOR  
 ELLERY LUCAS

DATE	DESIGNED BY	CF	DESIGNED BY	CF	DATE	REVISOR	DATE	REVISOR
10/01	3/05							
10/01	3/05							

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-247C. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes. Delete MVDS cable harness only.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



- SHEET NOTES:**
- Conduit down into Girder Box, see Sheet EE-85.
  - Conduit down to Service Platform, see Sheet EE-284.
  - For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - Contractor shall furnish and install UP- and LP-panels per Sheet EE-284. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
  - Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
  - For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
  - For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
  - For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

**CONDUIT PLAN**

**6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001**

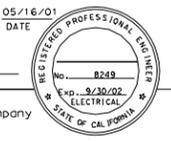
FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-64R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE  
 LOCATION PLAN-SHEET 45  
 SKYWAY STRUCTURES**  
 NO SCALE

**E-64**



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3 / 0.0 / 1.6	58R2	978

PLANS APPROVAL DATE: 05/16/01  
 REGISTERED ELECTRICAL ENGINEER DATE: 6-4-01  
 P. BOZORGPOUR  
 PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317  
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	66R1	84

REGISTERED ELECTRICAL ENGINEER DATE: 2/12/10  
 DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: 5-10-2010

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**"CCO DRAFT"**  
 08/25/2010

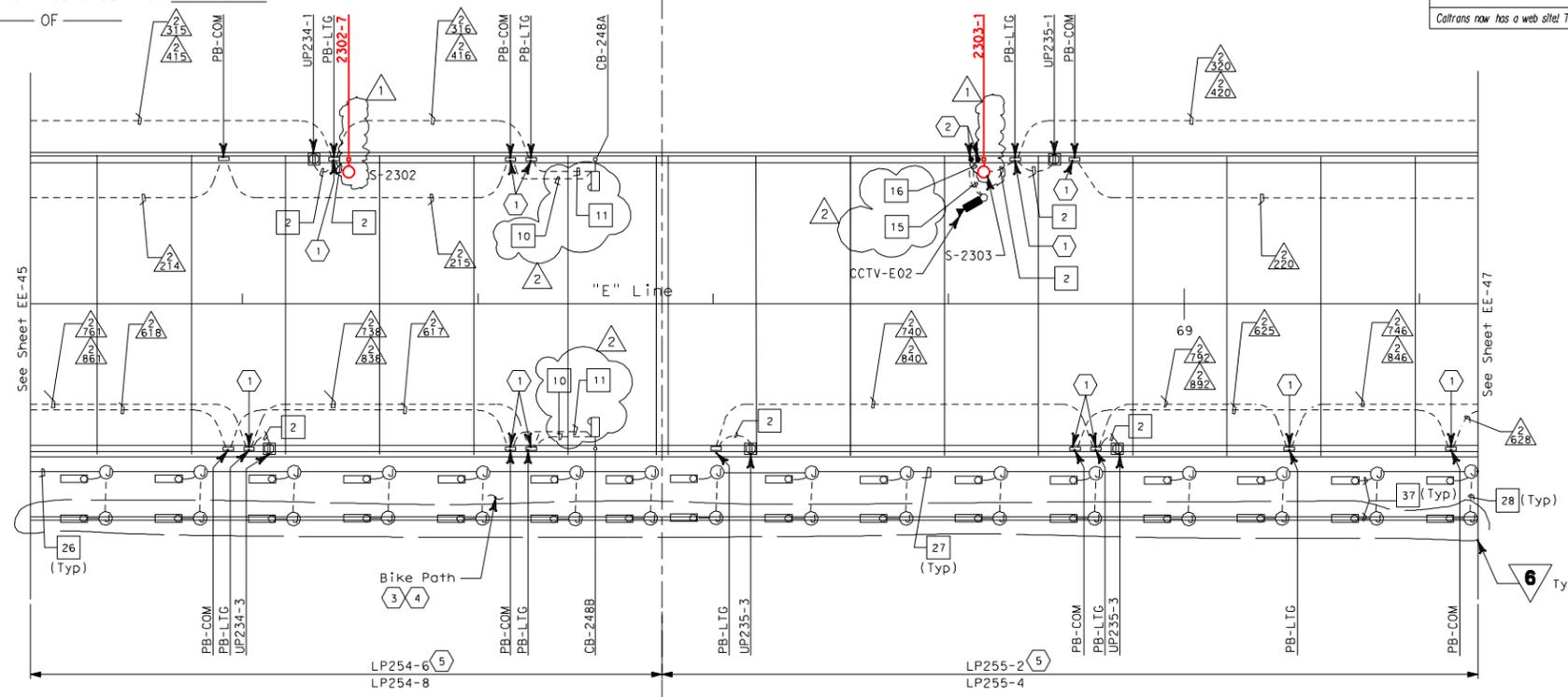


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	67R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO No. 10699 Exp. 06/30/2011  
 PLANS APPROVAL DATE 5-10-2010  
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 PB AMERICAS, Inc. 303 Second St., Suite 700N San Francisco, CA 94107-1317

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-248A & CB-248B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes. Delete CCTV cable harnesses only.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



**SHEET NOTES:**

- Conduit down into Girder Box, see Sheet EE-86.
- Conduit down into Girder Box for CCTV, see Sheet EE-86.
- For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
- All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
- Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDs, see Sheets EE-309, EE-311 and EE-312. TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
  - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
  - For details of Hinge BE, see sheet EE-301.
- For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
- For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
- For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.
- For other related work, not shown on this sheet, see Electrical Special Provisions.

**CONDUIT PLAN**

6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

EE-46



DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-65R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 46 SKYWAY STRUCTURES**

NO SCALE



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	68R1	84

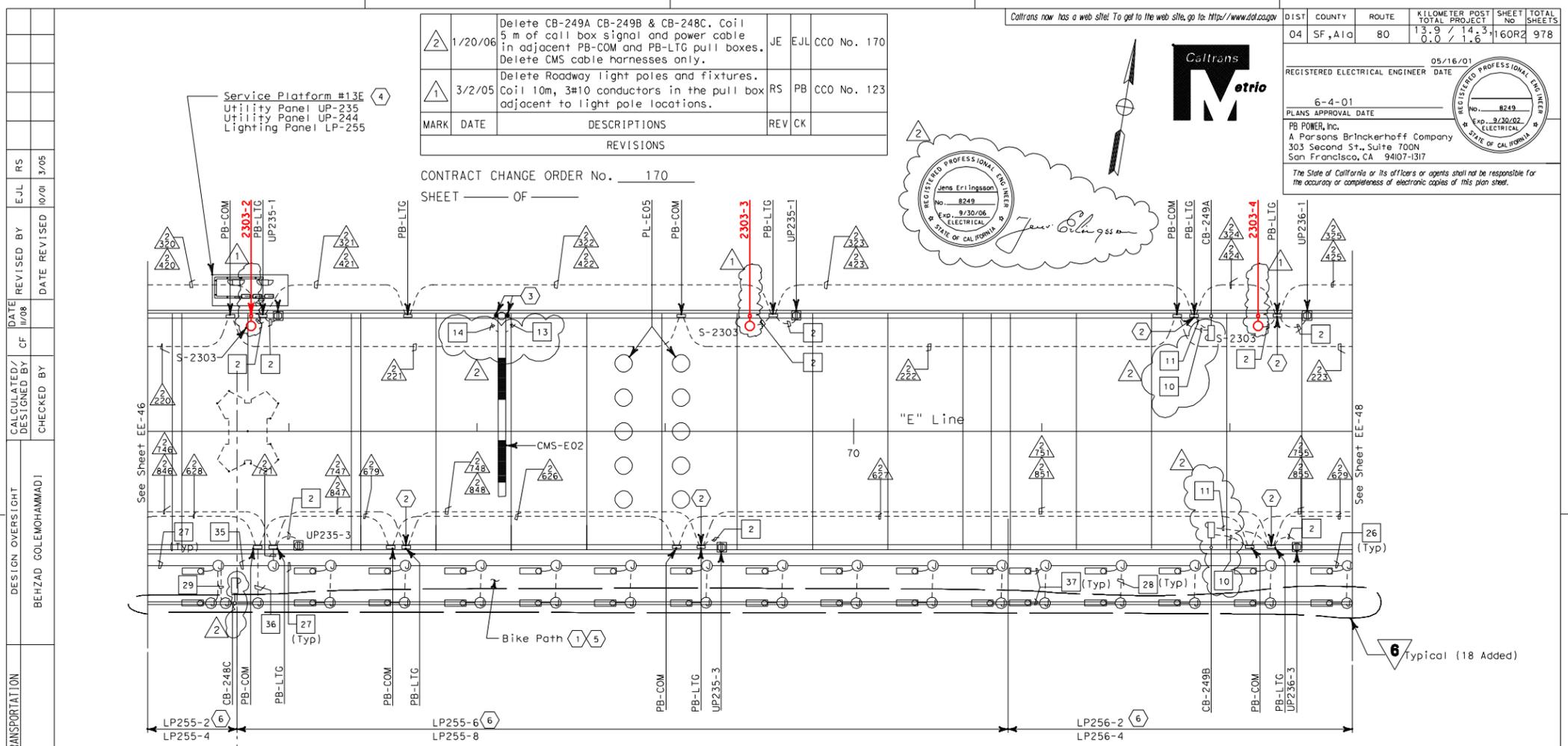
REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

PLANS APPROVAL DATE 5-10-2010  
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 PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-249A CB-249B & CB-248C. Coil 5 m of coil box signal and power cable in adjacent PB-COM and PB-LTG pull boxes. Delete CMS cable harnesses only.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway Light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	160R2	978

REGISTERED ELECTRICAL ENGINEER DATE 05/16/01  
 6-4-01  
 PLANS APPROVAL DATE  
 PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317  
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**CONDUIT PLAN**

**SHEET NOTES:**

- For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
- Conduit down into Girder Box, see Sheet EE-87.
- Conduit down into Girder Box for CMS, see Sheet EE-87.
- Contractor shall furnish and install UP- and LP-panels per Sheet EE-285. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, coil boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
  - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.

- For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
- For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
- For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001

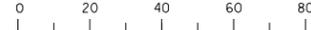
EE-47



FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS  
 DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-66R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 47 SKYWAY STRUCTURES**  
 NO SCALE



REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

CHECKED BY	DATE	REVISION
BRADY NADELL		

DESIGN OVERSIGHT	DATE	REVISION
BEHZAD GOLEMOHAMMADI		

FUNCTIONAL SUPERVISOR	DATE	REVISION
JEFFRI HALIM		

REVISOR	DATE	REVISION
ELLERY LUCAS		

DATE	REVISION
10/01	3/05

DATE	REVISION
05/00	5/00

DATE	REVISION
05/00	5/00

DATE	REVISION
05/00	5/00

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DATE	REVISION
05/00	5/00

DATE	REVISION
05/00	5/00

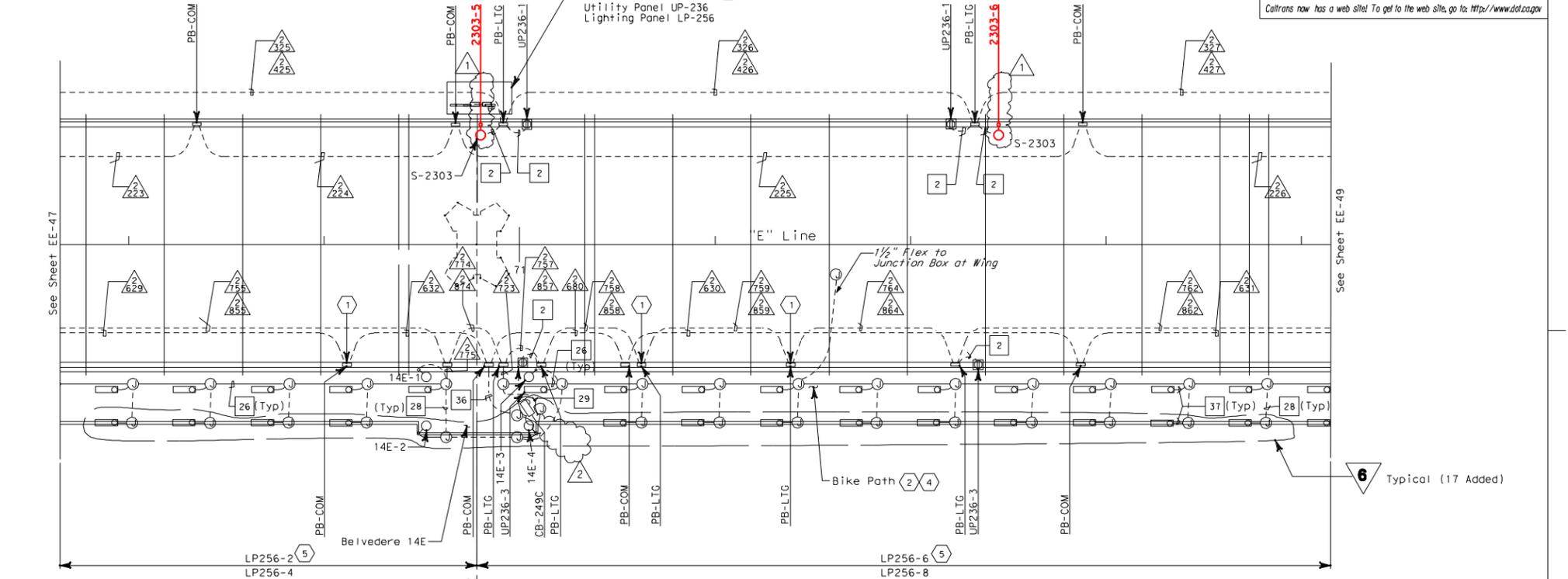
DATE	REVISION
05/00	5/00

DATE	REVISION
05/00	5/00

DATE	REVISION
05/00	5/00

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-249C. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



- SHEET NOTES:**
- Conduit down into Girder Box, see Sheet EE-88.
  - For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - Contractor shall furnish and install UP- and LP-panels per Sheet EE-286. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
  - Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
  - For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
  - For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
  - For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

**CONDUIT PLAN**

**6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001**

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**EE-48**

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$45 MEP\E-67R01.dgn  
 USERNAME => fusco  
 CU 04251

EA 012021

DATE PLOTTED => 8/24/2010  
 TIME PLOTTED => 3:29:23 PM

**"CCO DRAFT"**  
 08/25/2010

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 48 SKYWAY STRUCTURES**  
 NO SCALE

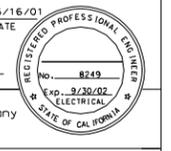
**E-67**

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	69R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO No. 10699 Exp. 06/30/2011  
 PLANS APPROVAL DATE 5-10-2010  
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 PB AMERICAS, Inc. 303 Second St., Suite 700N San Francisco, CA 94107-1317

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	161R2	978

REGISTERED ELECTRICAL ENGINEER DATE 05/16/01  
 6-4-01  
 PLANS APPROVAL DATE  
 PB POWER, Inc. A Parsons Brinckerhoff Company 303 Second St., Suite 700N San Francisco, CA 94107-1317  
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REVISOR	DATE	REVISOR	DATE	REVISOR	DATE
JEFFRI HALIM	ELLERY LUCAS	BRADY NADELL	BEHZAD GOLEMOHAMMADI	JEFFRI HALIM	ELLERY LUCAS
CONSULTANT SUPERVISOR	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	DESIGN OVERSIGHT	DESIGN OVERSIGHT
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION					

MARK	DATE	DESCRIPTIONS	REV	CK	
2	1/20/06	Delete CB-250A, CB-250B & CB-250C. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes. Delete MVDS cable harnesses only.	JE	EJL	CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB	CCO No. 123

CONTRACT CHANGE ORDER No. 170

SHEET \_\_\_\_\_ OF \_\_\_\_\_

**SHEET NOTES:**

- Conduit down into Girder Box, see Sheet EE-89.
- Conduit down into Girder Box for MVDS, see Sheet EE-89.
- For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
- Contractor shall furnish and install UP- and LP-panels per Sheet EE-287. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
- Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
  - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
- For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
- For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
- For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

**CONDUIT PLAN**

**6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001**

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
SCALE: 1:200

**EE-49**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS	DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for SAS MEP\E-68R01.dgn USERNAME => fusco
--	---



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	70R1	84

2/12/10

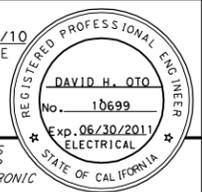
REGISTERED ELECTRICAL ENGINEER DATE

5-10-2010

PLANS APPROVAL DATE

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PB AMERICAS, Inc.  
303 Second St., Suite 700N  
San Francisco, CA 94107-1317



FOR ROADWAY LIGHTING POLES  
REFERENCE ONLY

ROADWAY LIGHTING POLE  
LOCATION PLAN-SHEET 49  
SKYWAY STRUCTURES

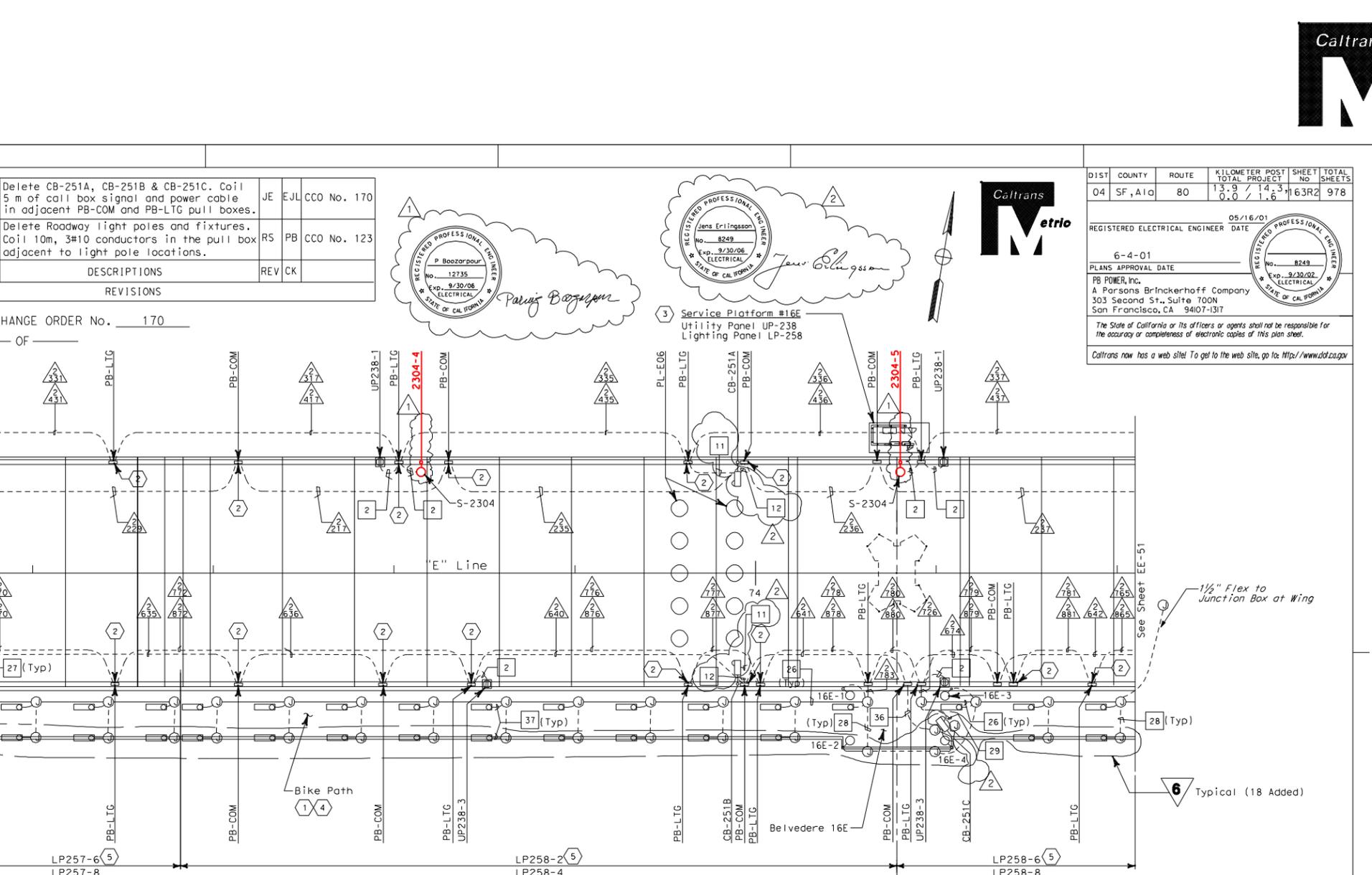
NO SCALE

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-251A, CB-251B & CB-251C. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

DATE	DESIGNED BY	CF	UP	5/00	DATE	REVISOR	RS	3/05

CONTRACT CHANGE ORDER No. 170

SHEET \_\_\_\_\_ OF \_\_\_\_\_



- SHEET NOTES:**
- For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - Conduit down into Girder Box, see Sheet EE-90.
  - Contractor shall furnish and install UP- and LP-panels per Sheet EE-288. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
  - Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDs, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
  - For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
  - For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
  - For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

**CONDUIT PLAN**

**6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001**

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**EE-50**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-69R01.dgn  
 USERNAME => fusco

EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 50**  
**SKYWAY STRUCTURES**  
 NO SCALE



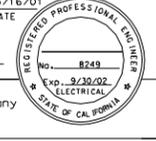
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	71R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10

PLANS APPROVAL DATE 5-10-2010

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	163R2	978

REGISTERED ELECTRICAL ENGINEER DATE 05/16/01

PLANS APPROVAL DATE 6-4-01

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 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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**"CCO DRAFT"**  
 08/25/2010

REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		

DESIGNED BY	DATE	DESIGNED BY
BEHZAD GOLEHAMMADI		

CHECKED BY	DATE	CHECKED BY
BRADY NADELL		

DESIGNED BY	DATE	DESIGNED BY
JEFFRI HALIM		

DATE	REVISION

DATE	REVISION

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DATE	REVISION



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	72R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10

5-10-2010

PLANS APPROVAL DATE

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	164	978

REGISTERED ELECTRICAL ENGINEER DATE 05/16/01

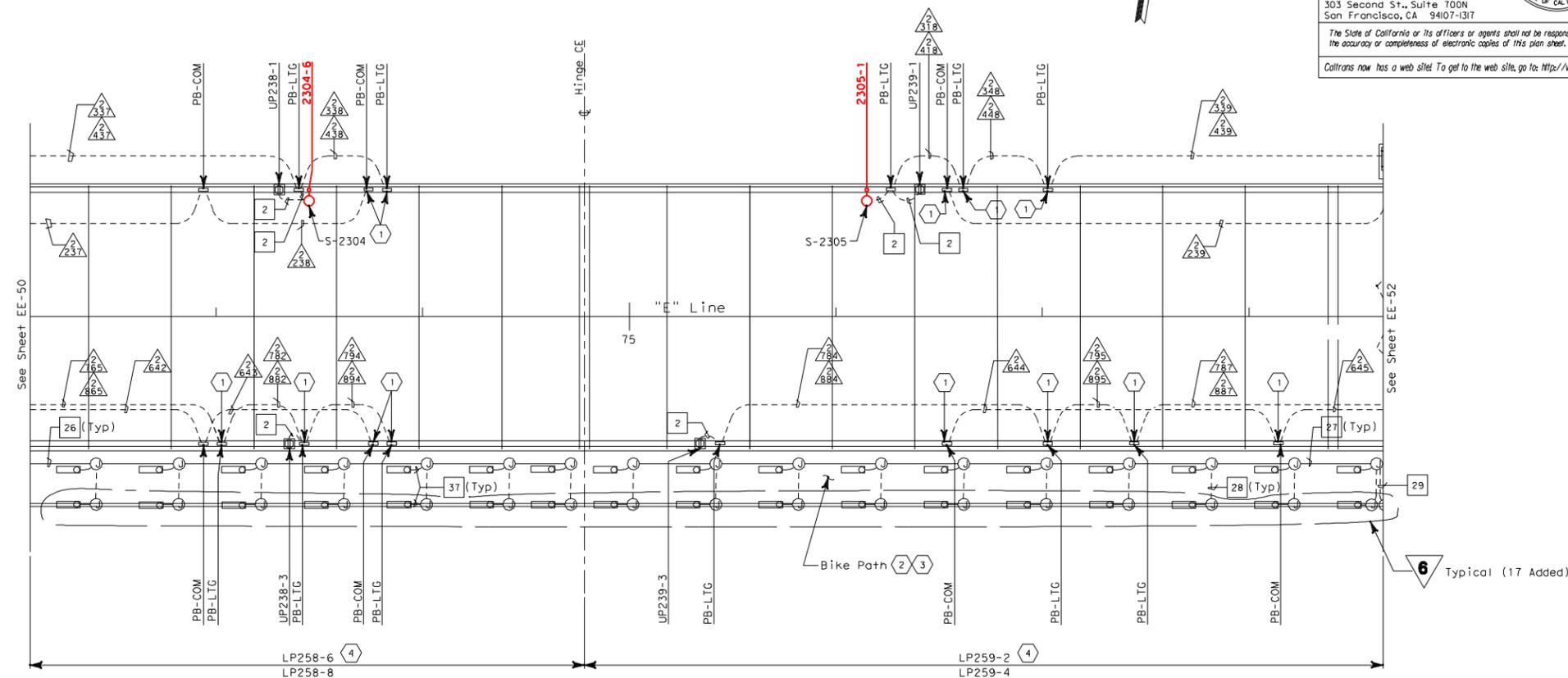
6-4-01

PLANS APPROVAL DATE

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 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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- SHEET NOTES:**
- Conduit down into Girder Box, see Sheet EE-91.
  - For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
  - Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
    - For details of Hinge CE, sheet EE-302.
  - For Roadway Level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
  - For other related work, not shown on this sheet, see Electrical Special Provisions.

**6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30,2001**

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**EE-51**

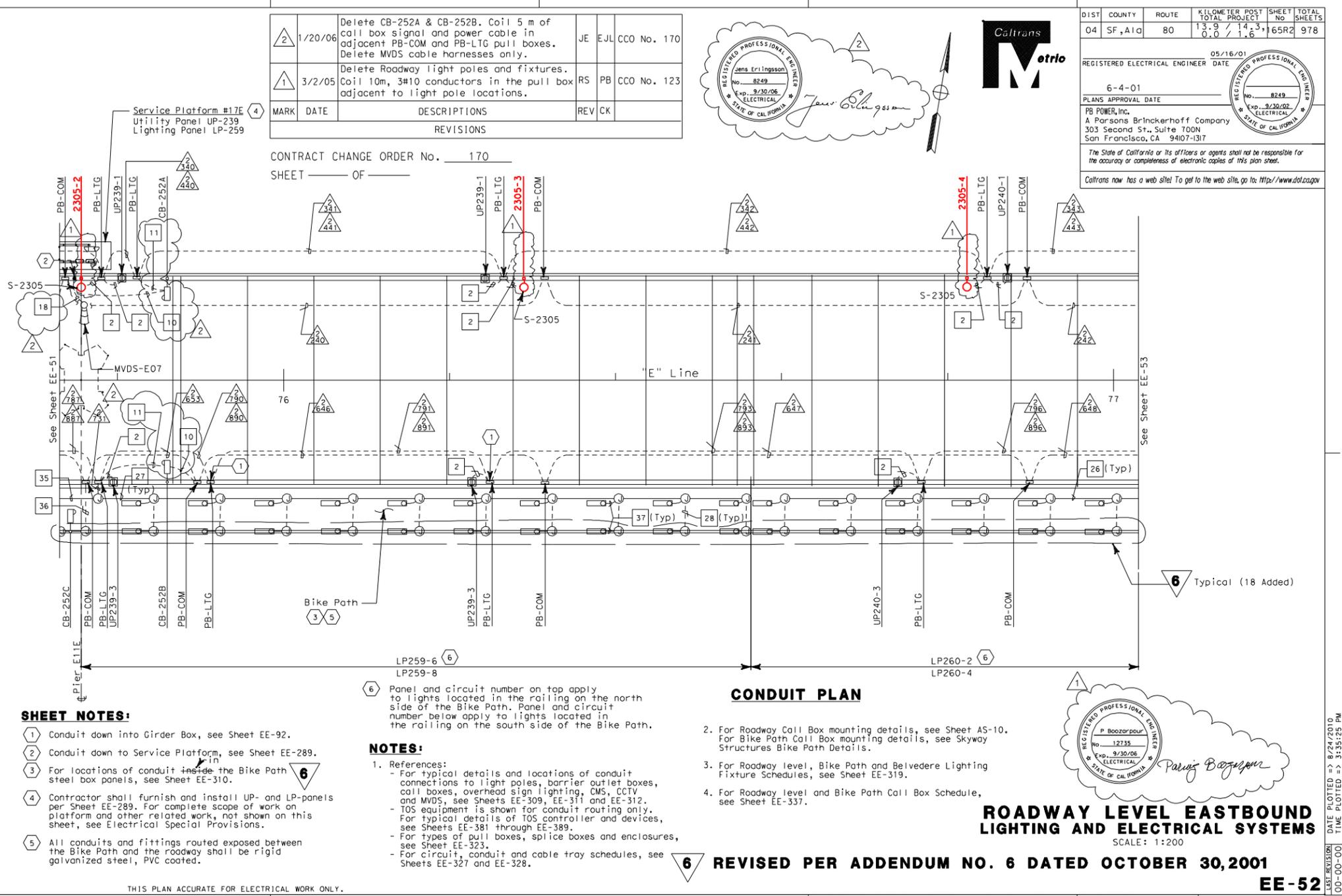
THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.  
 FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80  
 DGN FILE =>T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-70R01.dgn  
 USERNAME =>fusco CU 04251 EA 012021

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 51**  
**SKYWAY STRUCTURES**  
 NO SCALE

**E-70**

DATE	DESIGNED BY	REVISOR	DATE	REVISOR
10/01	JE	EJL	10/01	RS
03/05	JP	5/00	10/01	RS



MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-252A & CB-252B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes. Delete MVDS cable harnesses only.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123



**Caltrans**  
**Metric**

REGISTRATION NO. 12735  
 EXP. 9/30/06  
 ELECTRICAL  
 STATE OF CALIFORNIA

DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

REGISTRATION NO. 8249  
 EXP. 9/30/02  
 ELECTRICAL  
 STATE OF CALIFORNIA

DATE 05/16/01  
 REGISTERED ELECTRICAL ENGINEER

6-4-01  
 PLANS APPROVAL DATE

PB POWER, Inc.  
 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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- SHEET NOTES:**
- Conduit down into Girder Box, see Sheet EE-92.
  - Conduit down to Service Platform, see Sheet EE-289.
  - For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - Contractor shall furnish and install UP- and LP-panels per Sheet EE-289. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.

- For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
- For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
- For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.



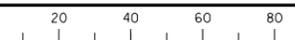
**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001**

**EE-52**



DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-71R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	73R1	84

DATE 2/12/10  
 REGISTERED ELECTRICAL ENGINEER

PLANS APPROVAL DATE  
 5-10-2010

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 San Francisco, CA 94107-1317

**"CCO DRAFT"**  
 08/25/2010

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 52 SKYWAY STRUCTURES**  
 NO SCALE

REVISOR	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05
ELLERY LUCAS		
BRADY NADELL		

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

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BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

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JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
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CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
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CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
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CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
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CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
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CHECKED BY	DATE	REVISION
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DESIGNED BY	DATE	REVISION
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CHECKED BY	DATE	REVISION
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DESIGNED BY	DATE	REVISION
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CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
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CHECKED BY	DATE	REVISION
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DESIGNED BY	DATE	REVISION
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CHECKED BY	DATE	REVISION
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DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

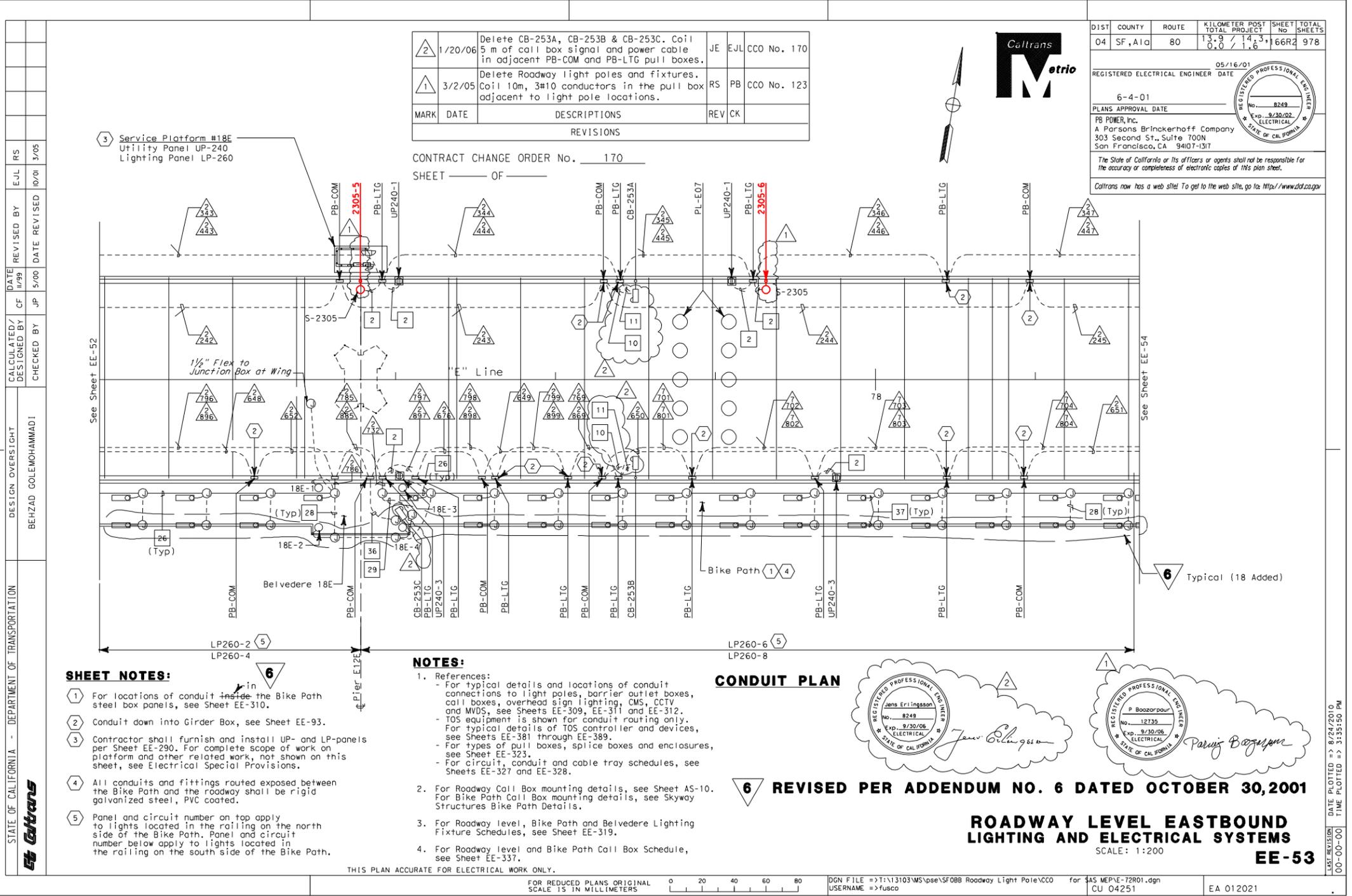
CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05

DESIGNED BY	DATE	REVISION
BEHZAD GOLEMOHAMMADI	10/01/05	REVISION 10/01/05

CHECKED BY	DATE	REVISION
JEFFRI HALIM	10/01/05	REVISION 10/01/05



MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-253A, CB-253B & CB-253C. Coil 5 m of coil box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

- SHEET NOTES:**
- For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - Conduit down into Girder Box, see Sheet EE-93.
  - Contractor shall furnish and install UP- and LP-panels per Sheet EE-290. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
  - Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
  - For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
  - For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
  - For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

**CONDUIT PLAN**

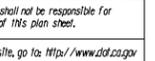
6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 EE-53

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-72R01.dgn  
 USERNAME => fusco  
 CU 04251

EA 012021



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	74R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 PLANS APPROVAL DATE 5-10-2010  
 PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

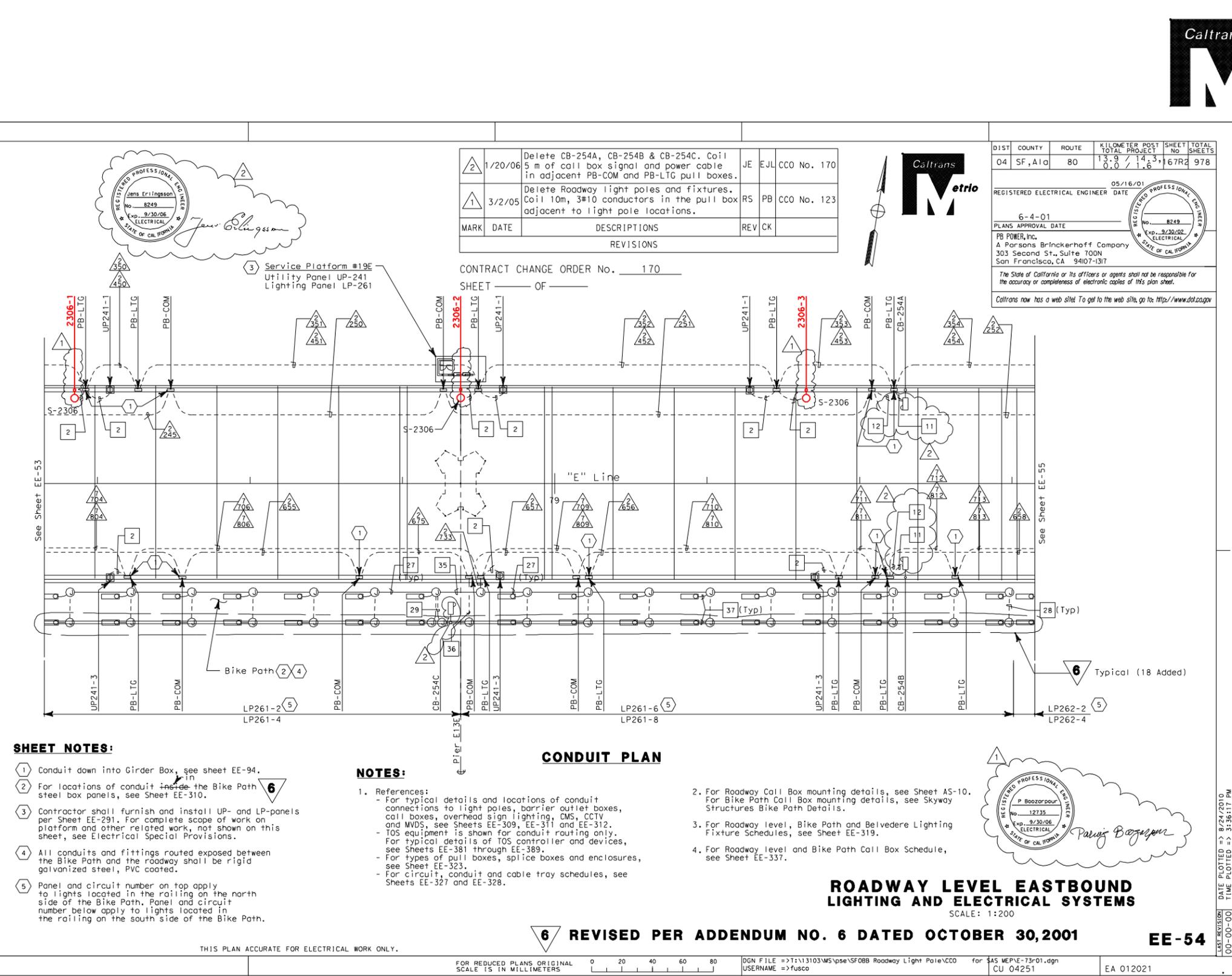
**"CCO DRAFT"**  
 08/25/2010

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 53**  
 SKYWAY STRUCTURES  
 NO SCALE

REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		
BRADY NADELL		

DESIGNED BY	DATE	REVISION
BEHZAD GOLEHAMMADI	10/01	3/05
CHECKED BY	DATE	REVISION



- SHEET NOTES:**
- Conduit down into Girder Box, see sheet EE-94.
  - For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - Contractor shall furnish and install UP- and LP-panels per Sheet EE-291. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
  - Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
  - For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
  - For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
  - For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

REVISIONS

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-254A, CB-254B & CB-254C. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	75R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO No. 10699 Exp. 06/30/2011  
 PLANS APPROVAL DATE 5-10-2010

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	67R2	978

REGISTERED ELECTRICAL ENGINEER DATE 05/16/01  
 PLANS APPROVAL DATE 6-4-01  
 PB POWER, Inc. A Parsons Brinckerhoff Company 303 Second St., Suite 700N San Francisco, CA 94107-1317

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**"CCO DRAFT"**  
 08/25/2010

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

**6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001 EE-54**

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80  
 DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-73\01.dgn  
 USERNAME => fusco CU 04251 EA 012021

FOR ROADWAY LIGHTING POLES REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 54 SKYWAY STRUCTURES**  
 NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

CONSULTANT FUNCTIONAL SUPERVISOR  
 BRADY NADELL

DESIGN OVERSIGHT  
 BEHZAD GOLEMOHAMMADI

REVISOR  
 JEFFRI HALIM

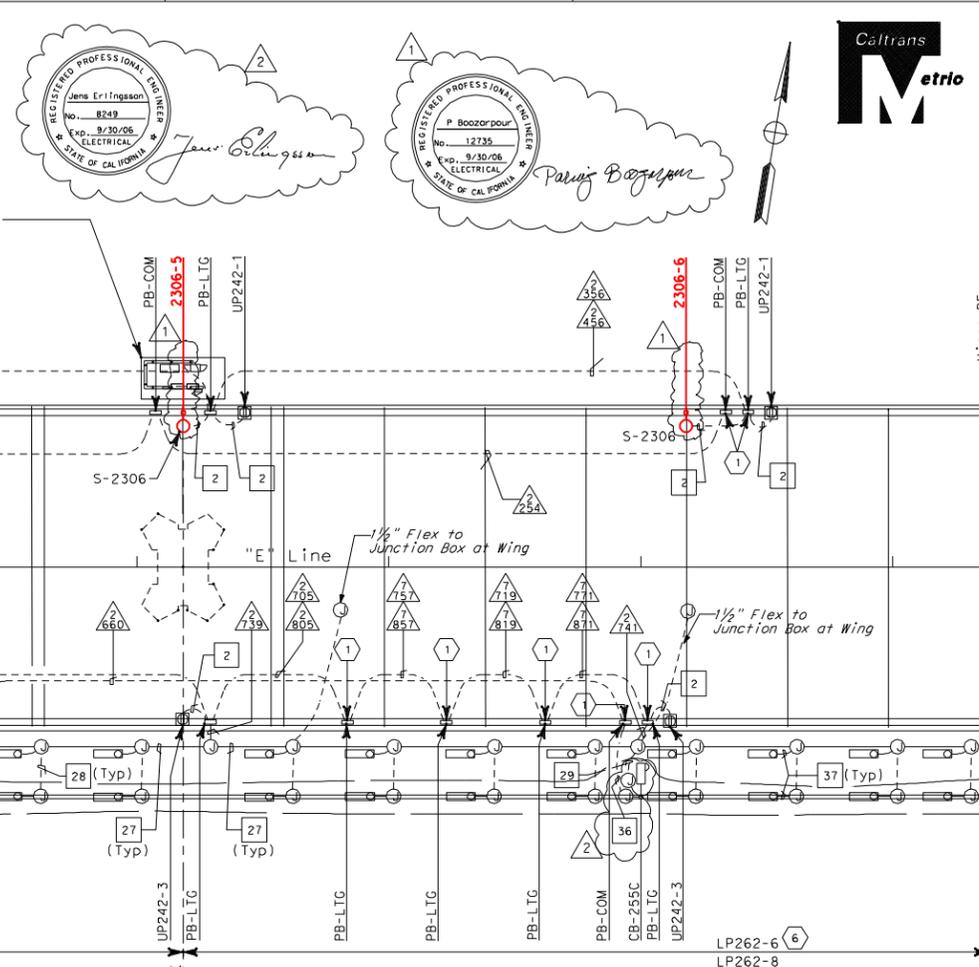
DATE REVISOR  
 ELLERY LUCAS

DATE	REVISION	BY	DATE	REVISION	BY
1/99	1	CF	10/01	3/05	RS
1/99	2	CF	10/01	3/05	RS
1/99	3	CF	10/01	3/05	RS
1/99	4	CF	10/01	3/05	RS
1/99	5	CF	10/01	3/05	RS
1/99	6	CF	10/01	3/05	RS

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-255C. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes. Delete MVDS cable harnesses only.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

CONTRACT CHANGE ORDER No. 170

4 Service Platform #20E  
 Utility Panel UP-242  
 Lighting Panel LP-262



- SHEET NOTES:**
- Conduit down into Girder Box, see Sheet EE-95.
  - Conduit down into Girder Box for MVDS, see Sheet EE-95.
  - For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - Contractor shall furnish and install UP- and LP-panels per Sheet EE-292. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
  - Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
    - For details of Hinge DE, see sheet EE-303.
  - For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
  - For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
  - For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001

EE-55

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for \$AS MEP\E-74R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 55**  
 SKYWAY STRUCTURES  
 NO SCALE

E-74



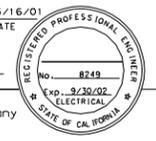
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	76R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10

5-10-2010 PLANS APPROVAL DATE

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	168R2	978

REGISTERED ELECTRICAL ENGINEER DATE 05/16/01

6-4-01 PLANS APPROVAL DATE

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 San Francisco, CA 94107-1317

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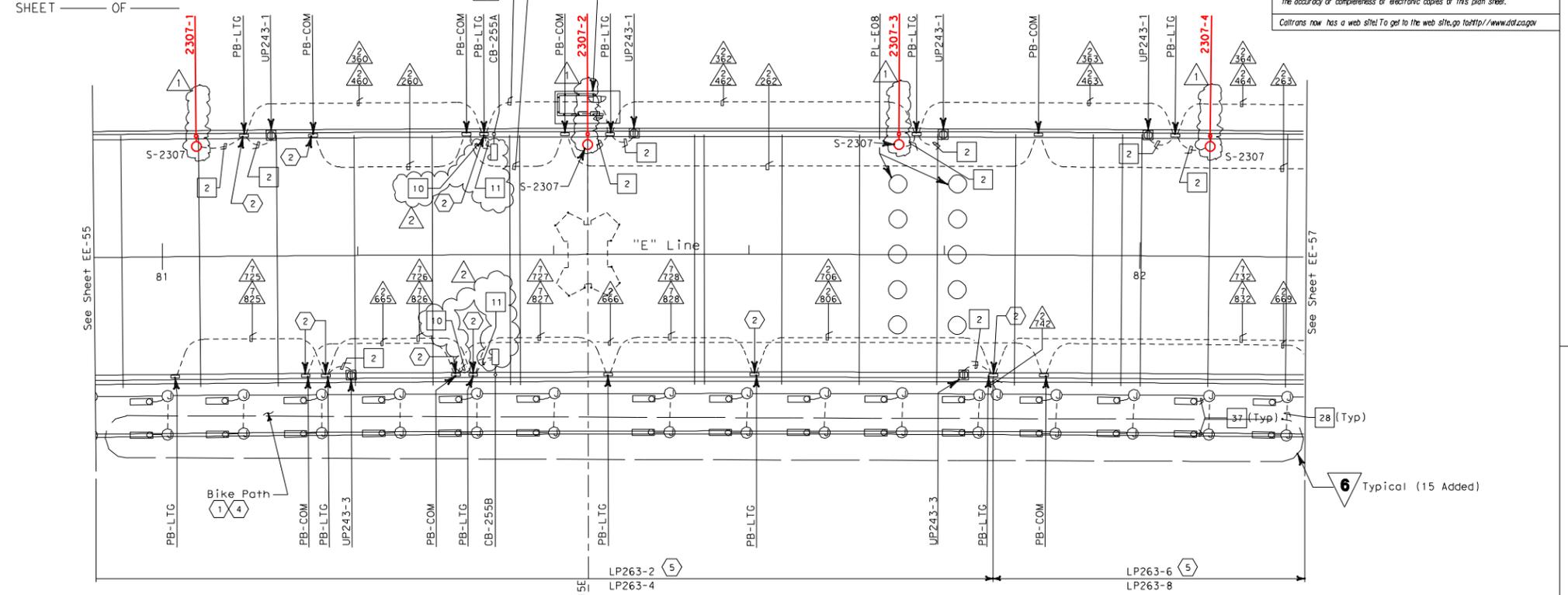
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REVISOR	DATE	REVISION
JEFFRI HALIM		
ELLERY LUCAS		
BRADY NADELL		

DESIGNED BY	DATE	REVISION
E.J.L.	10/01	3/05
BEHZAD GOLEMOHAMMADI		

MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-255A & CB-255B. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



**SHEET NOTES:**

- For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
- Conduit down into Girder Box, see Sheet EE-96.
- Contractor shall furnish and install UP- and LP-panels per Sheet EE-293. For complete scope of work on platform and other related work, not shown on this sheet, see Electrical Special Provisions.
- All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
- Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

**NOTES:**

- References:
  - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV and MVDS, see Sheets EE-309, EE-311 and EE-312.
  - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
  - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
  - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
  - For details of Hinge-DE, see Sheet EE-303.
- For Roadway Call Box mounting details, see Sheet AS-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.
- For Roadway level, Bike Path and Belvedere Lighting Fixture Schedules, see Sheet EE-319.
- For Roadway level and Bike Path Call Box Schedule, see Sheet EE-337.

**REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001**

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF08B Roadway Light Pole\CCO for SAS MEP\E-75R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE  
 LOCATION PLAN-SHEET 56  
 SKYWAY STRUCTURES**  
 NO SCALE

**E-75**



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3 / 0.0 / 2.7	69R2	978

PLANS APPROVAL DATE: 05/16/01  
 REGISTERED ELECTRICAL ENGINEER DATE: 05/16/01  
 No. 8749  
 Exp. 9/30/02  
 ELECTRICAL  
 STATE OF CALIFORNIA

6-4-01  
 PLANS APPROVAL DATE

PB POWER, Inc.  
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 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7 / 14.3 / 0.0 / 2.7	77R1	84

REGISTERED ELECTRICAL ENGINEER DATE: 2/12/10  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

5-10-2010  
 PLANS APPROVAL DATE

PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

**"CCO DRAFT"**  
 08/25/2010

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**

CONSULTANT FUNCTIONAL SUPERVISOR  
 BRADY NADELL

DESIGNED BY  
 BEHZAD COLEMOHAMMADI

DESIGN OVERSIGHT  
 BEHZAD COLEMOHAMMADI

REVISIONS

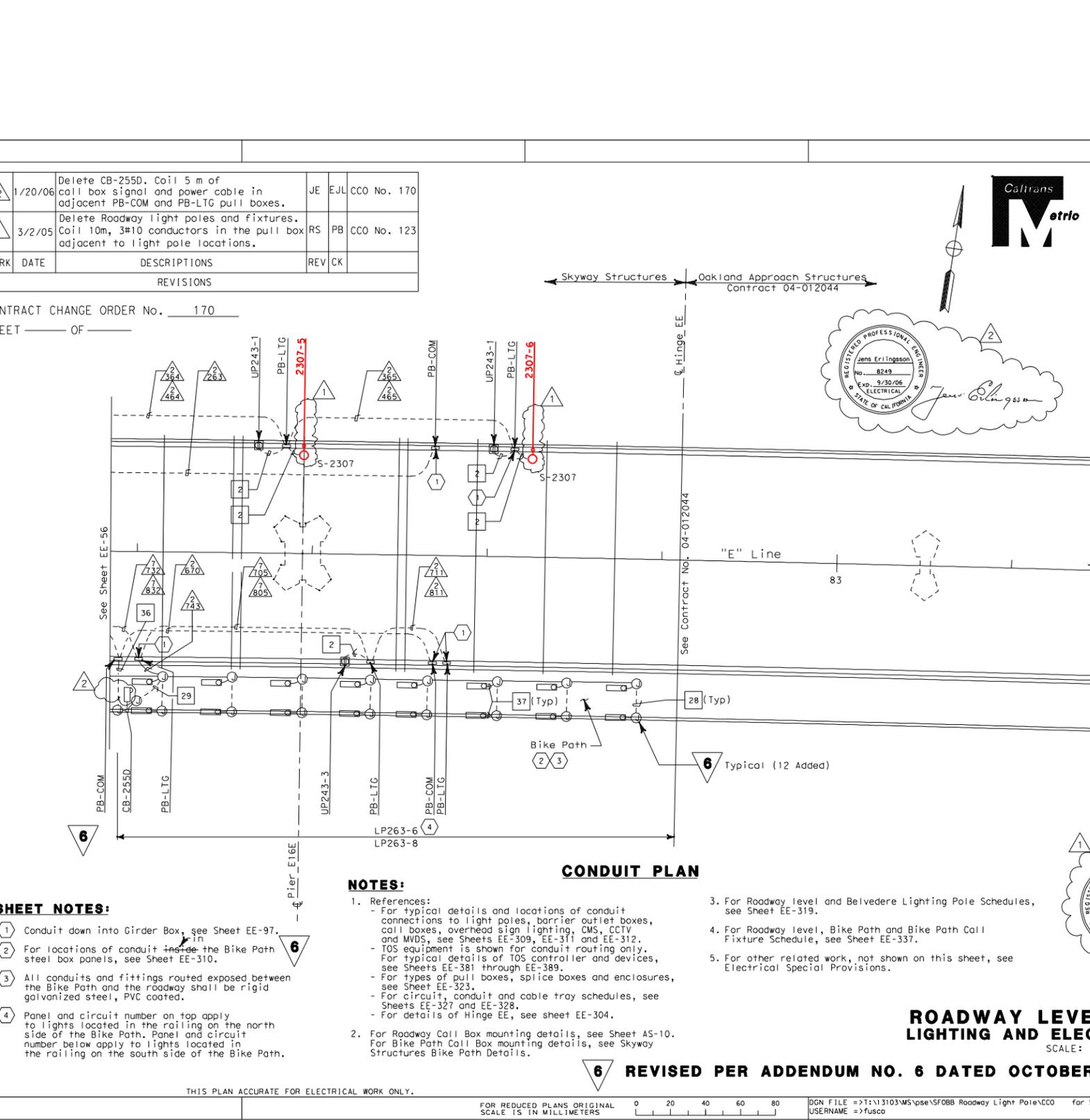
MARK	DATE	DESCRIPTIONS	REV	CK
2	1/20/06	Delete CB-255D. Coil 5 m of call box signal and power cable in adjacent PB-COM and PB-LTG pull boxes.	JE	EJL CCO No. 170
1	3/2/05	Delete Roadway light poles and fixtures. Coil 10m, 3#10 conductors in the pull box adjacent to light pole locations.	RS	PB CCO No. 123

JEFFRI HALIM  
 ELLERY LUCAS

DATE REVISIONS

DATE	REVISIONS	DESIGNED BY	CHECKED BY
10/01	3/05	EJL	RS
05/00	10/01	CF	JP

CONTRACT CHANGE ORDER No. 170  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_



- SHEET NOTES:**
- Conduit down into Girder Box, see Sheet EE-97.
  - For locations of conduit inside the Bike Path steel box panels, see Sheet EE-310.
  - All conduits and fittings routed exposed between the Bike Path and the roadway shall be rigid galvanized steel, PVC coated.
  - Panel and circuit number on top apply to lights located in the railing on the north side of the Bike Path. Panel and circuit number below apply to lights located in the railing on the south side of the Bike Path.

- NOTES:**
- References:
    - For typical details and locations of conduit connections to light poles, barrier outlet boxes, call boxes, overhead sign lighting, CMS, CCTV, and MVDS, see Sheets EE-309, EE-311 and EE-312.
    - TOS equipment is shown for conduit routing only. For typical details of TOS controller and devices, see Sheets EE-381 through EE-389.
    - For types of pull boxes, splice boxes and enclosures, see Sheet EE-323.
    - For circuit, conduit and cable tray schedules, see Sheets EE-327 and EE-328.
    - For details of Hinge EE, see sheet EE-304.
  - For Roadway Call Box mounting details, see Sheet A5-10. For Bike Path Call Box mounting details, see Skyway Structures Bike Path Details.

- For Roadway level and Belvedere Lighting Pole Schedules, see Sheet EE-319.
- For Roadway level, Bike Path and Bike Path Call Fixture Schedule, see Sheet EE-337.
- For other related work, not shown on this sheet, see Electrical Special Provisions.

**ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**  
 SCALE: 1:200

6 REVISED PER ADDENDUM NO. 6 DATED OCTOBER 30, 2001

EE-57

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

DGN FILE => T:\13103\MS\pse\SF0BB Roadway Light Pole\CCO for \$AS MEP\E-76R01.dgn  
 USERNAME => fusco  
 CU 04251  
 EA 012021

FOR ROADWAY LIGHTING POLES  
 REFERENCE ONLY

**ROADWAY LIGHTING POLE LOCATION PLAN-SHEET 57**  
 SKYWAY STRUCTURES  
 NO SCALE

E-76



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	12.7/14.3, 0.0/2.7	78R1	84

REGISTERED ELECTRICAL ENGINEER DATE 2/12/10  
 DAVID H. OTO  
 No. 10699  
 Exp. 06/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 5-10-2010

PB AMERICAS, Inc.  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF, Alameda	80	13.9 / 14.3, 0.0 / 1.6	70R2	978

REGISTERED ELECTRICAL ENGINEER DATE 05/16/01  
 6-4-01  
 PLANS APPROVAL DATE  
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 A Parsons Brinckerhoff Company  
 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

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