

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT  
 BEHZAD GOLEMOHAMMADI  
 REVISIONS  
 DATE XX/10  
 REVISOR XX  
 CHECKED BY XX  
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 DATE REVISOR XX  
 DATE REVISOR XX

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, Alameda	80	13.2	13.9	193S01	1204

10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE

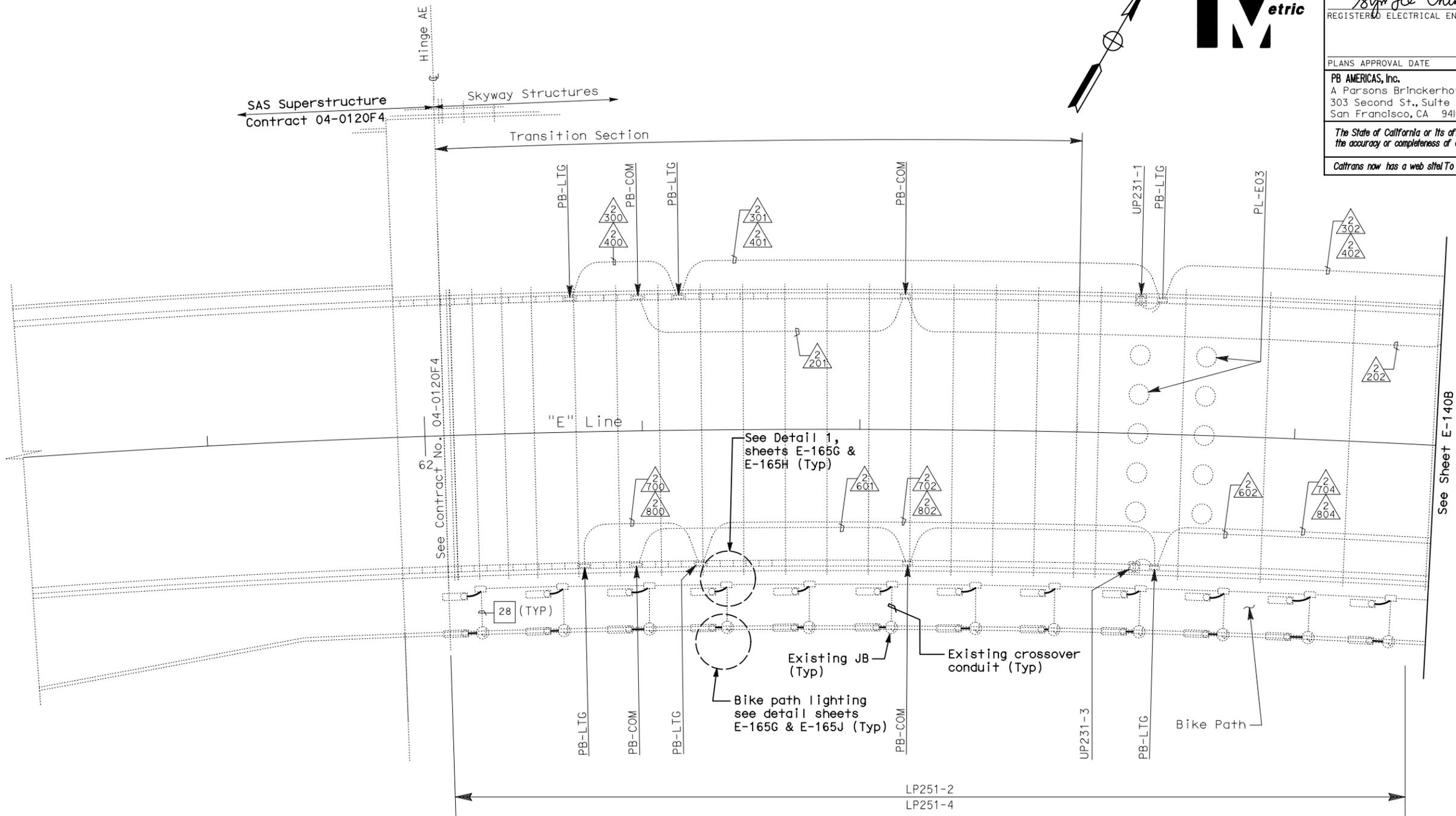
**Caltrans**  
**Metric**

PLANS APPROVAL DATE

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

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**CONDUIT PLAN**

**NOTES:**

1. This plan sheet is a record drawing from Skyway structure. Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-41 from Skyway Structures, contract No. 04-012024.
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REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE						
△	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163	
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#	
REVISIONS						

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

**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140A**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

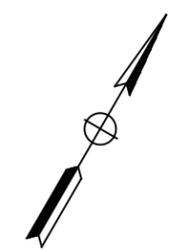


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 USERNAME => llorico

CU 04251

EA 0120F1

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:42  
 LAST REVISION  
 00-00-00



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL	SHEET No	TOTAL SHEETS
04	SF, Alameda	80	13.2 / 13.9	193S02	1204	

10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE

**SYN YEE CHIN**  
 No. 18186  
 Exp. 09/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_

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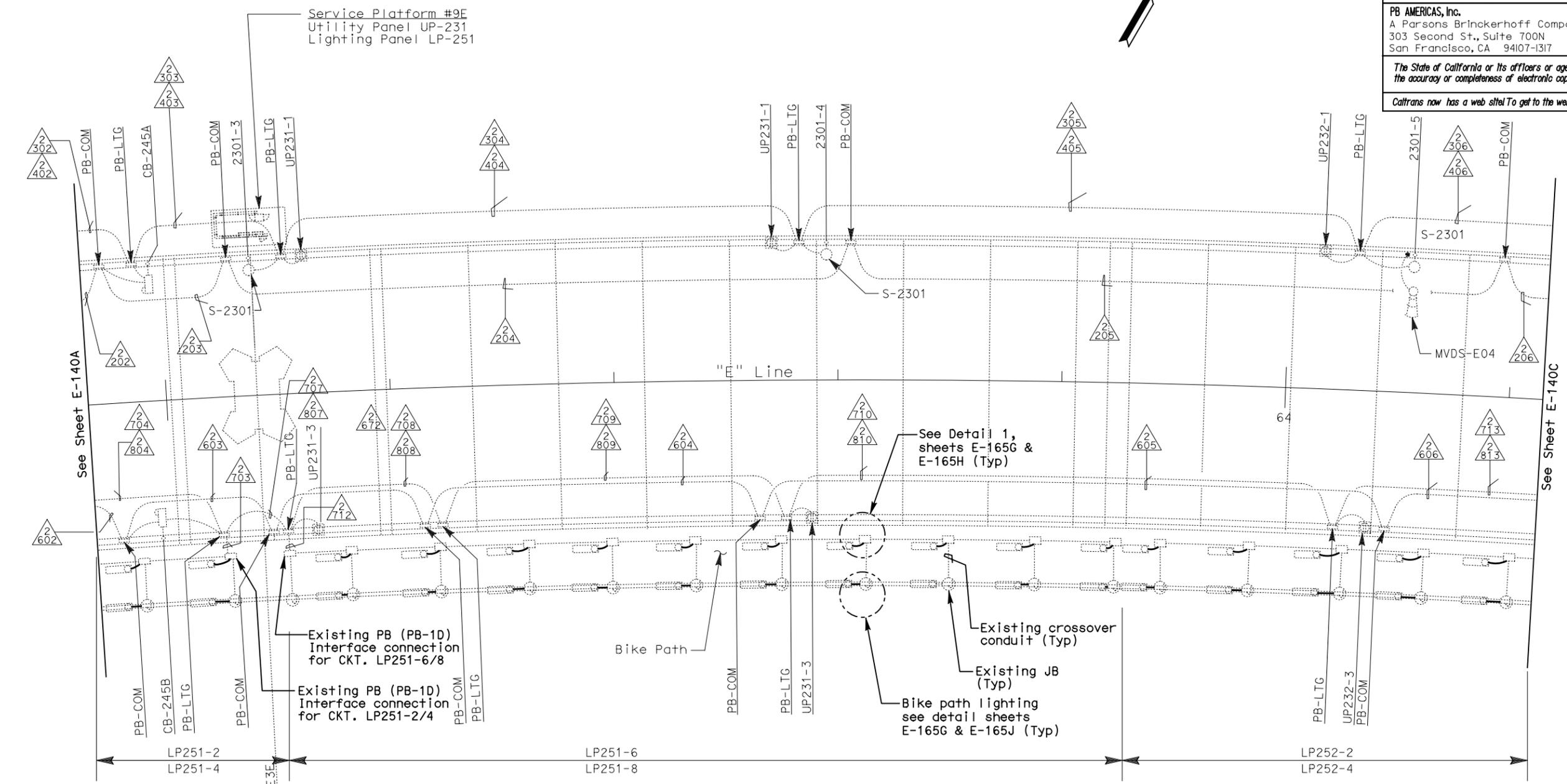
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DESIGNED BY	DATE	CHECKED BY

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**CONDUIT PLAN**

**NOTES:**

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REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
△	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

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

**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140B**

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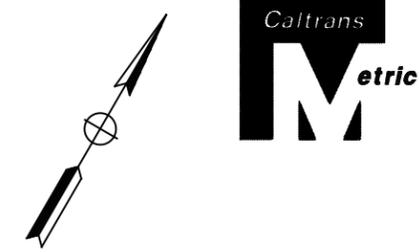
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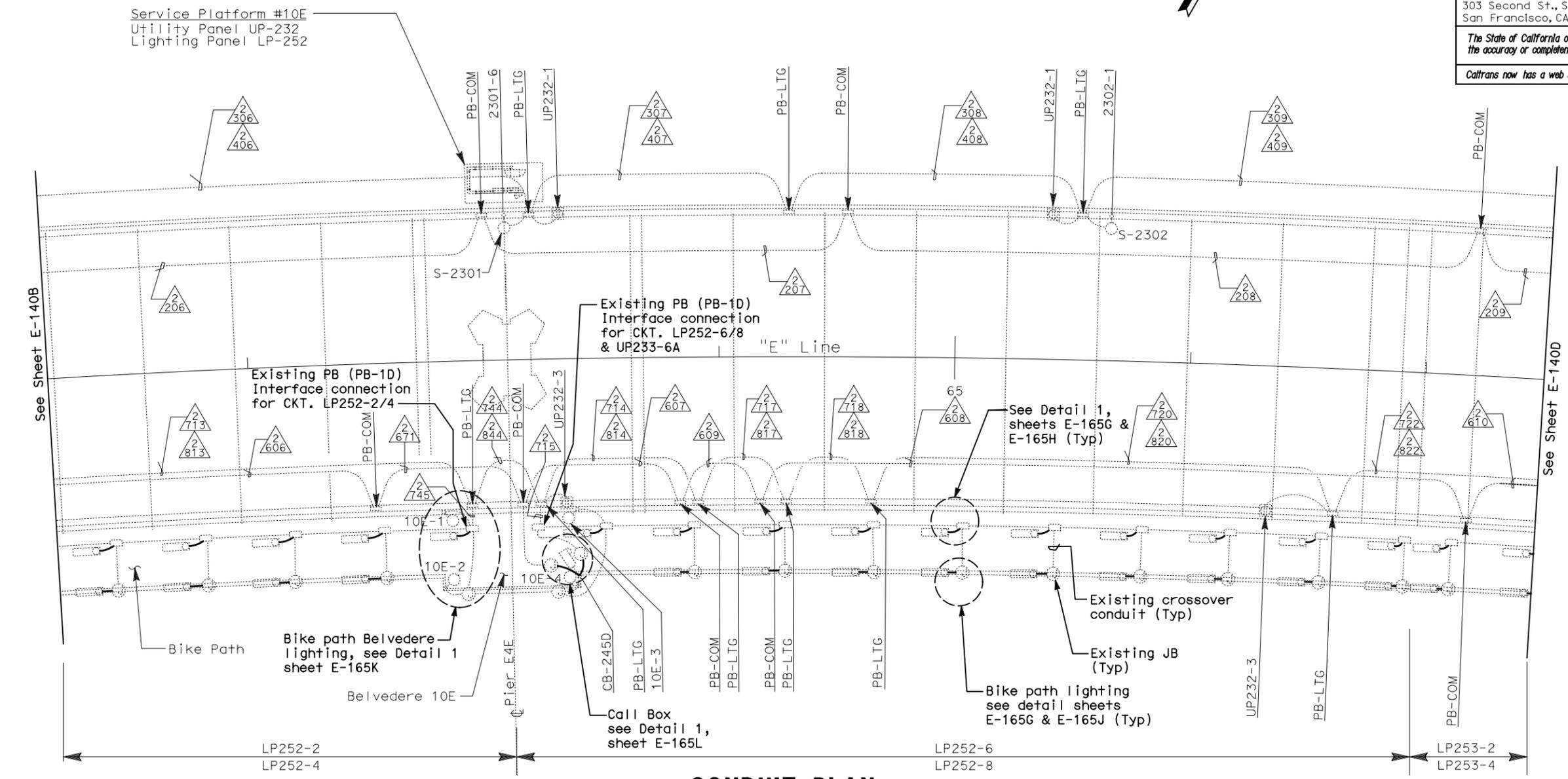
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 XX XX  
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 XX XX



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, Alameda	80	13.2 / 13.9	193S03	1204	

Syn Yee Chin 10/28/10  
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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
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- NOTES:**
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  2. Unless shown in bold, everything else shown was part of Skyway Contract.

**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

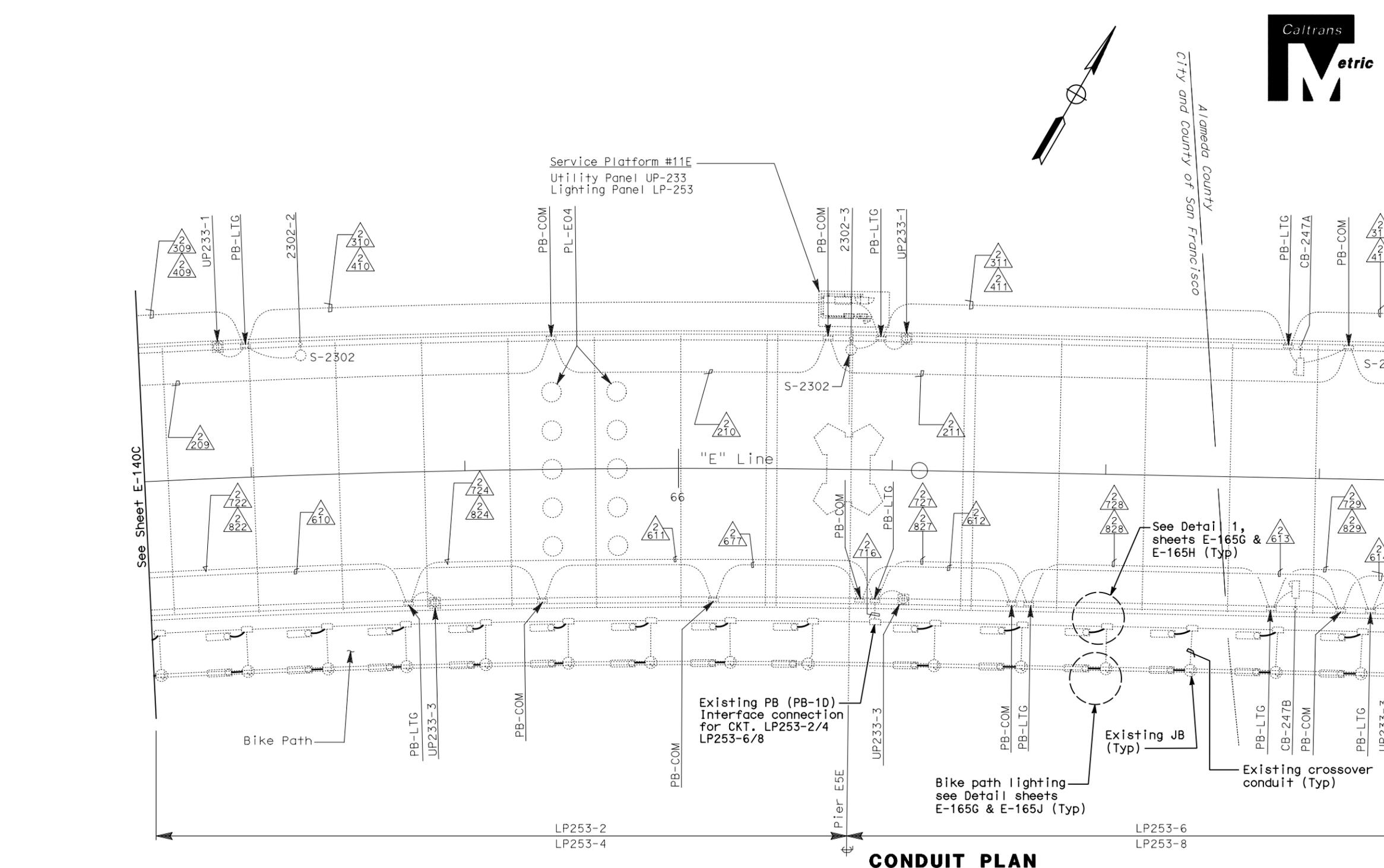
**E-140C**

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CU 04251 EA 0120F1

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:42  
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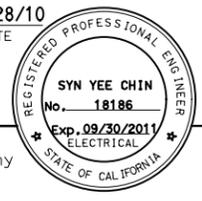
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04	SF, Alameda	80	13.2 / 13.9	193S04	1204	

**Caltrans**  
**Metric**

Syn Yee Chin 10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE

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FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

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 USERNAME => llorico

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

**E-140D**

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 TIME PLOTTED => 16:42  
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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST 13.2 / 13.9	SHEET No 193S05	TOTAL SHEETS 1204
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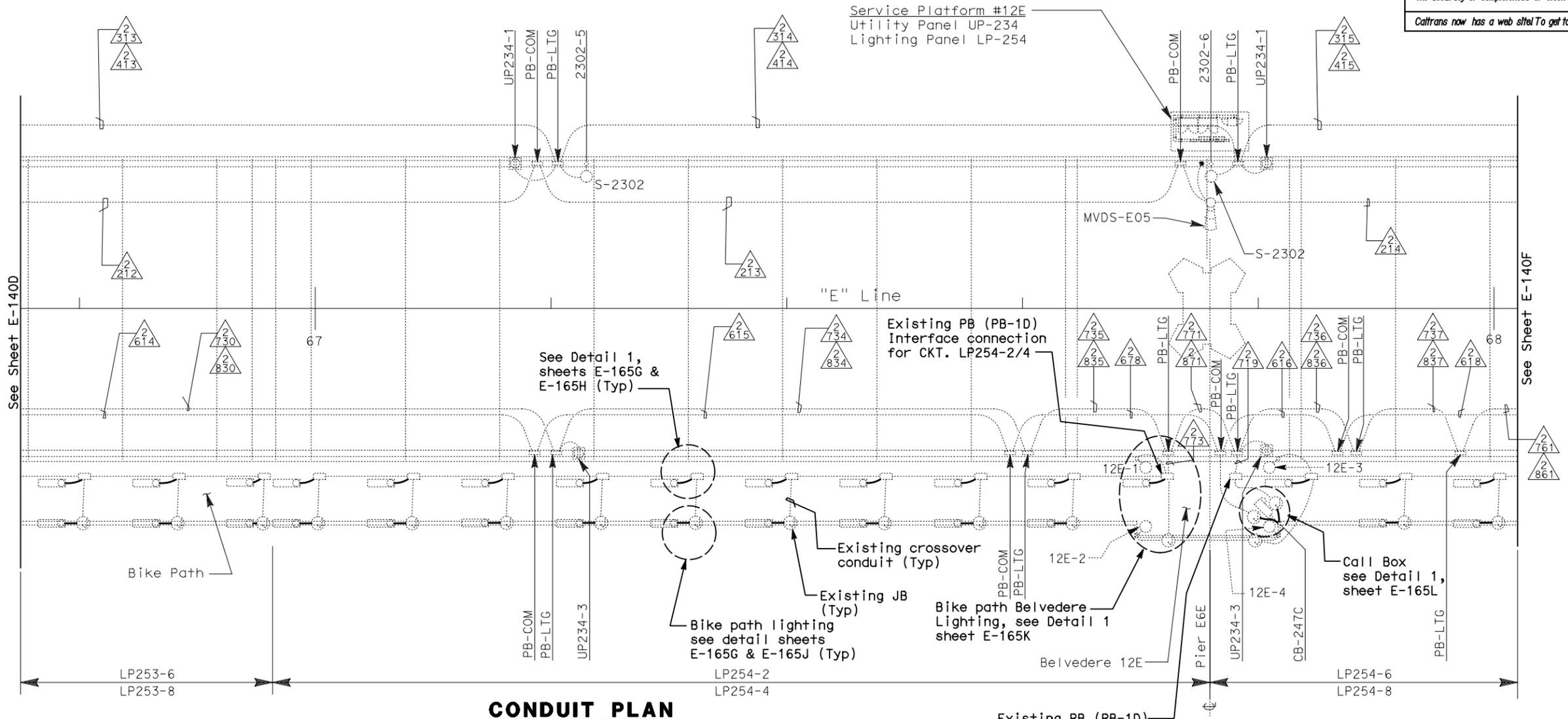
REGISTERED ELECTRICAL ENGINEER  
 SYN YEE CHIN  
 No. 18186  
 Exp. 09/30/2011  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 10/28/10

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**CONDUIT PLAN**

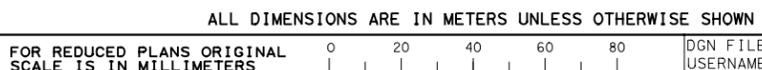
**NOTES:**

1. This plan sheet is a record drawing from Skyway structure. Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-45 from Skyway Structures, contract No. 04-012024.
2. Unless shown in bold, everything else shown was part of Skyway Contract.

**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

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CU 04251

EA 0120F1

**E-140E**

DATE PLOTTED => 10-MAY-2011  
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
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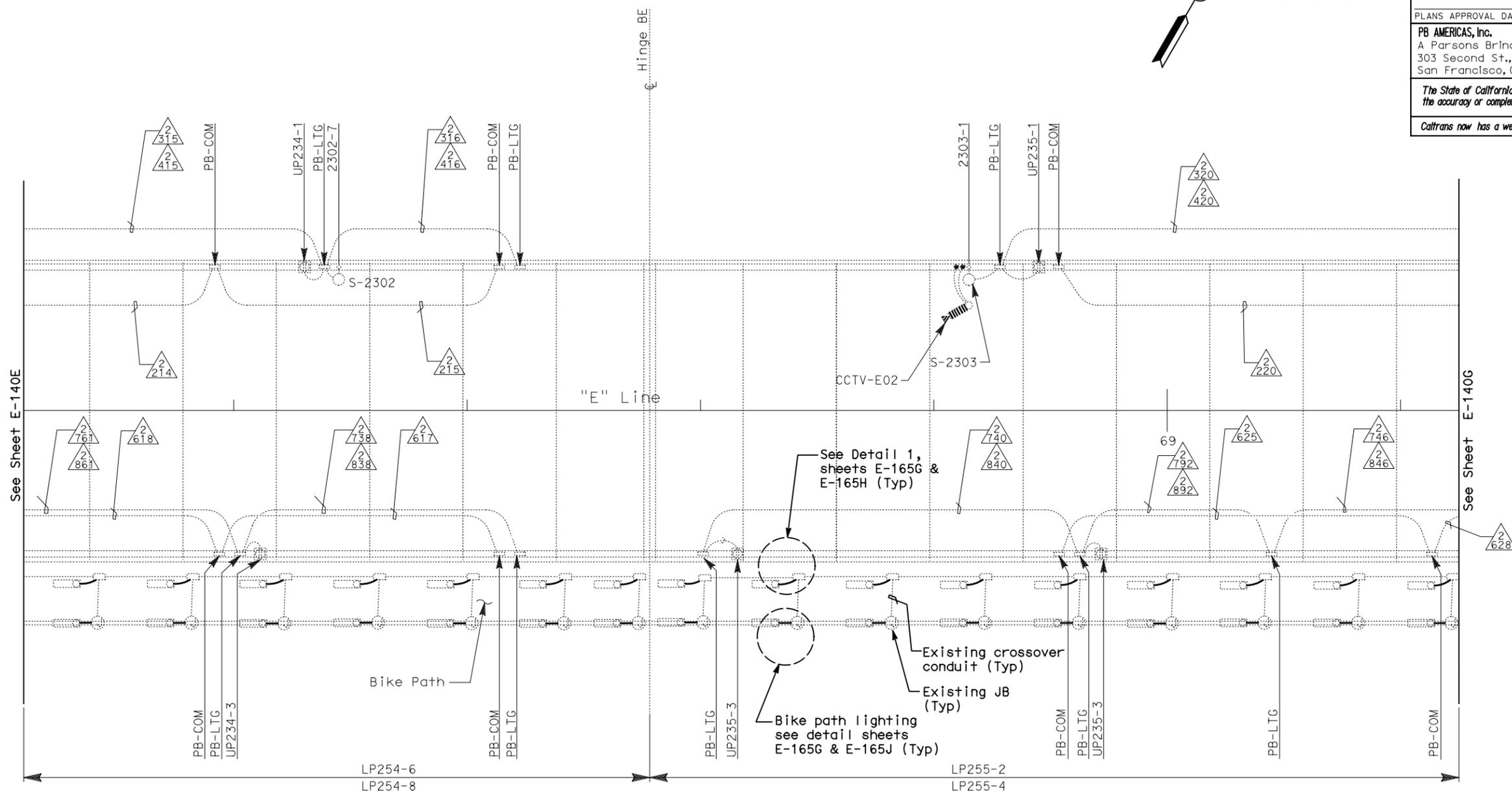
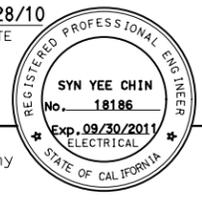
Syn Yee Chin 10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE \_\_\_\_\_

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**CONDUIT PLAN**

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCC#
REVISIONS					

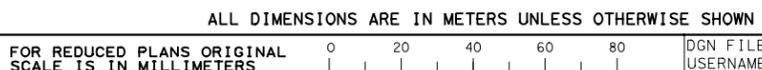
CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
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**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140F**

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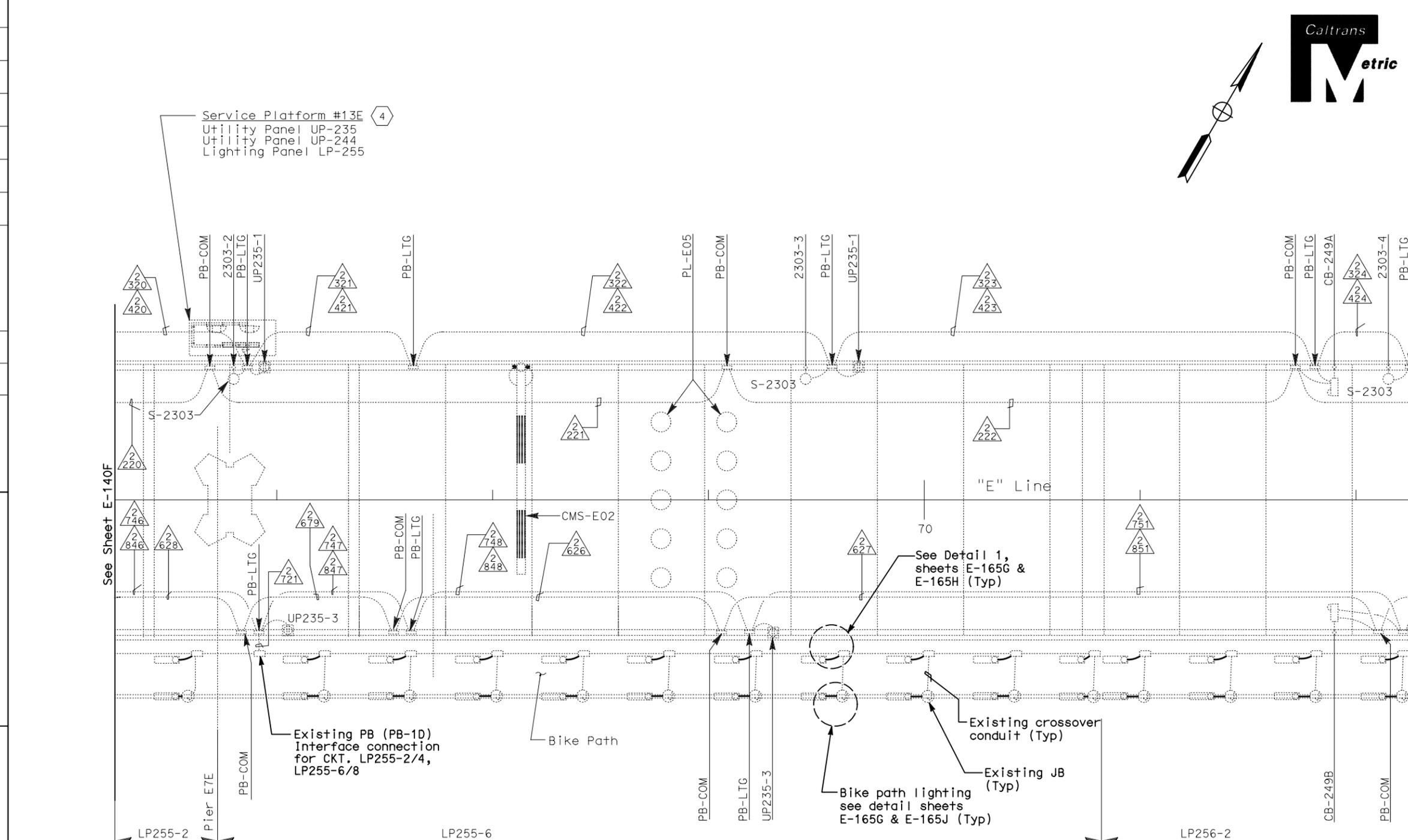
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CU 04251

EA 0120F1

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:42  
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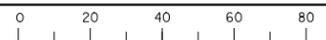


**CONDUIT PLAN**

- NOTES:**
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  2. Unless shown in bold, everything else shown was part of Skyway Contract.

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DGN FILE => 04-0120f1\_0193507.dgn  
 USERNAME => ilorico

**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140G**

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST NO	SHEET No	TOTAL SHEETS
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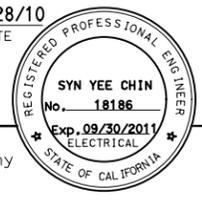
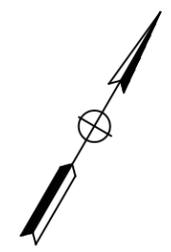
10/28/10  
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△	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

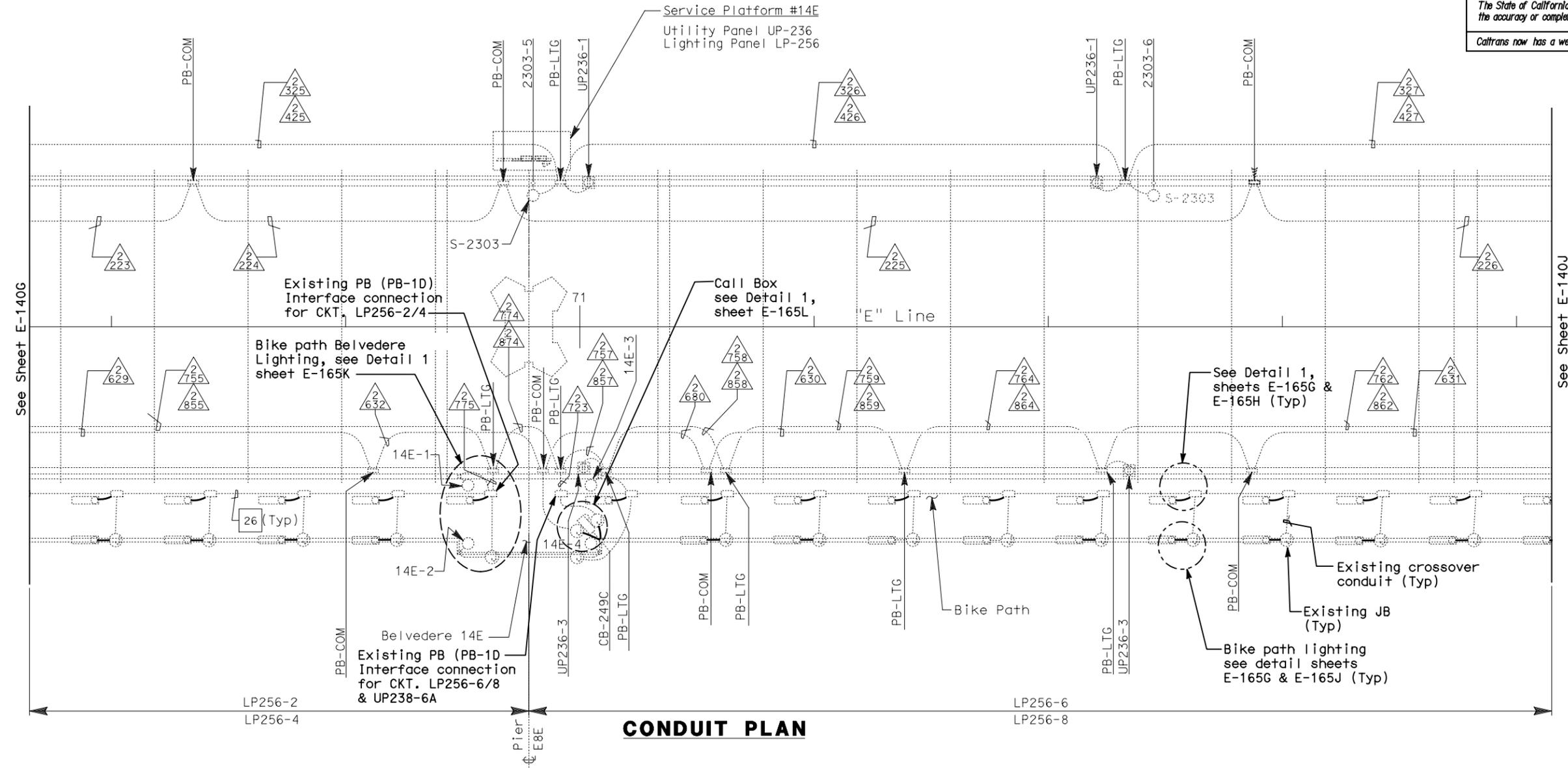
CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
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 DATE REVISOR  
 CHECKED BY  
 DATE



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST 13.2 / 13.9	SHEET No 193S08	TOTAL SHEETS 1204
04		SF, Alameda	80			
REGISTERED ELECTRICAL ENGINEER <i>Syn Yee Chin</i> 10/28/10 DATE						
PLANS APPROVAL DATE <b>PB AMERICAS, Inc.</b> A Parsons Brinckerhoff Company 303 Second St., Suite 700N San Francisco, CA 94107-1317						
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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
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- NOTES:**
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**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140H**

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 USERNAME => ilorico

CU 04251 EA 0120F1

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:42  
 LAST REVISION 00-00-00

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 DATE REVISOR



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, Alameda	80	13.2 / 13.9	193509	1204	

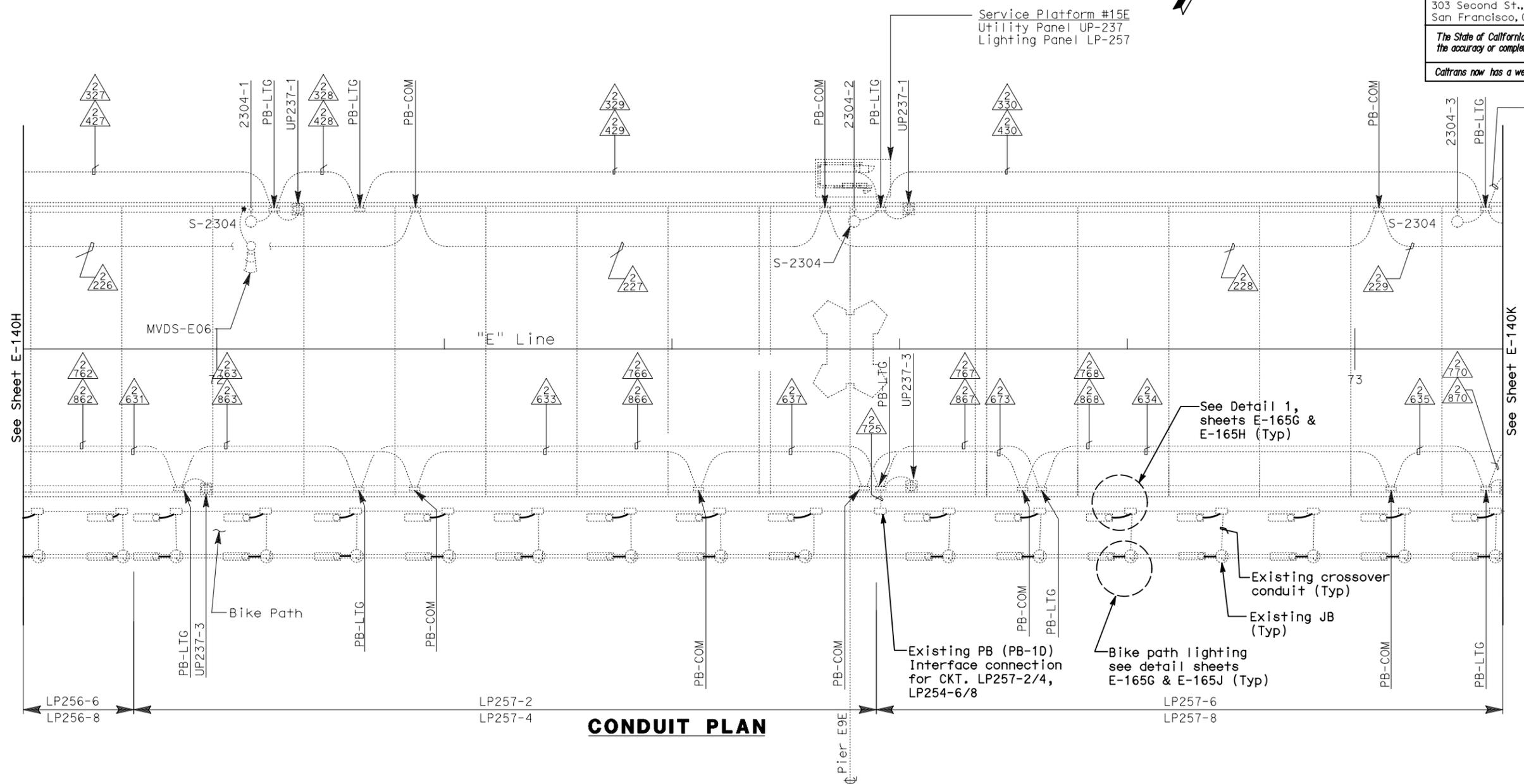
REGISTERED ELECTRICAL ENGINEER  
 SYN YEE CHIN  
 No. 18186  
 Exp. 09/30/2011  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 10/28/10  
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**CONDUIT PLAN**

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REVISIONS					

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

**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

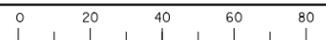
SCALE: 1:200

**E-140J**

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DGN FILE => 04-0120f1\_0193509.dgn  
 USERNAME => ilorico

CU 04251

EA 0120F1

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:42  
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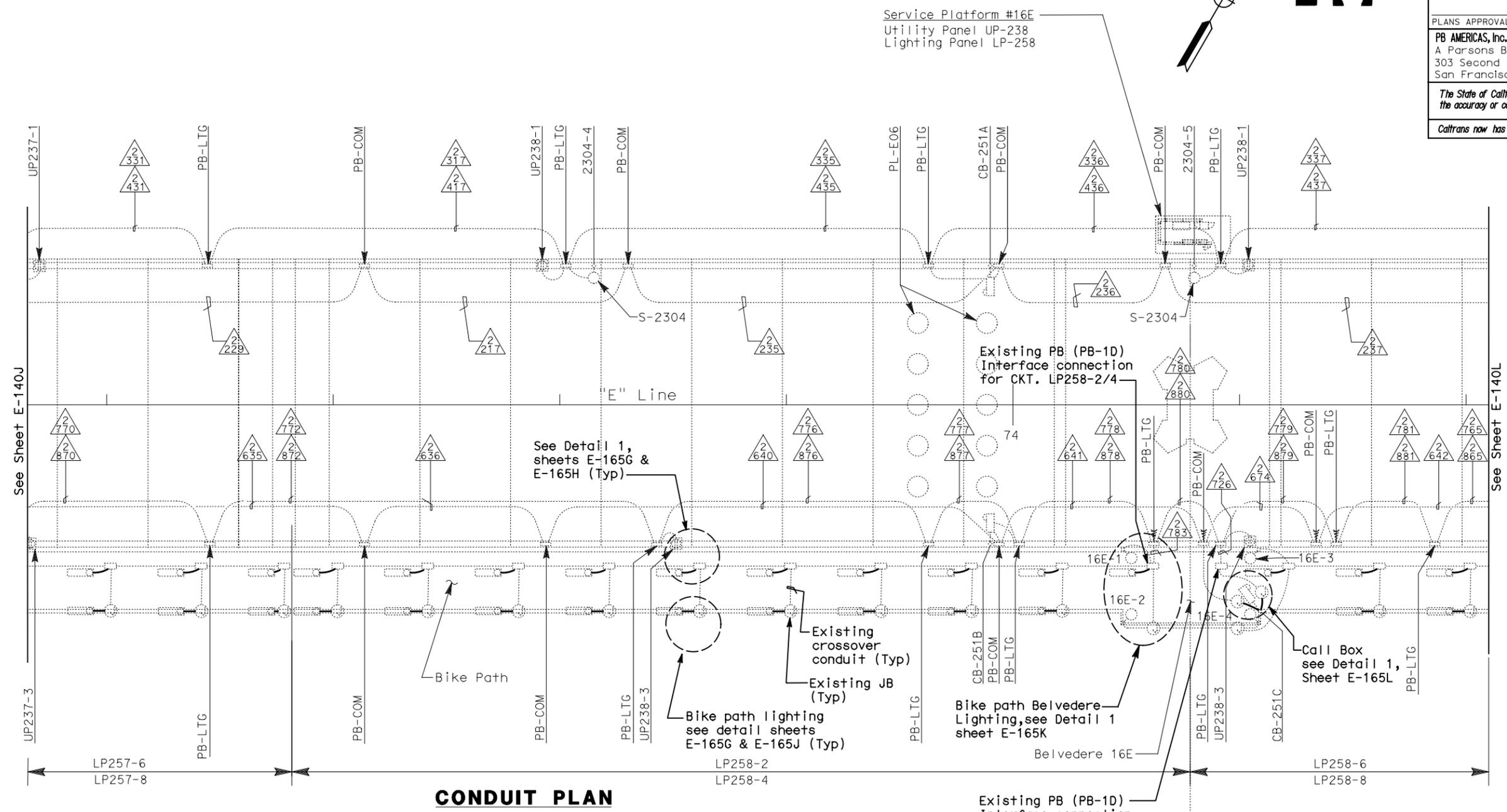
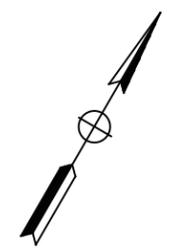
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, Alameda	80	13.2 / 13.9	193510	1204	

10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE  
**SYN YEE CHIN**  
 No. 18186  
 Exp. 09/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

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△	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163
REVISIONS					

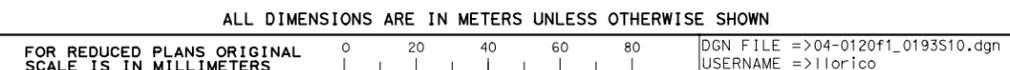
CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
 SHEET \_\_\_\_\_ OF \_\_\_\_\_

**SKYWAY ROADWAY LEVEL EASTBOUND  
 LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140K**

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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, Alameda	80	13.2 / 13.9	193S11	1204	

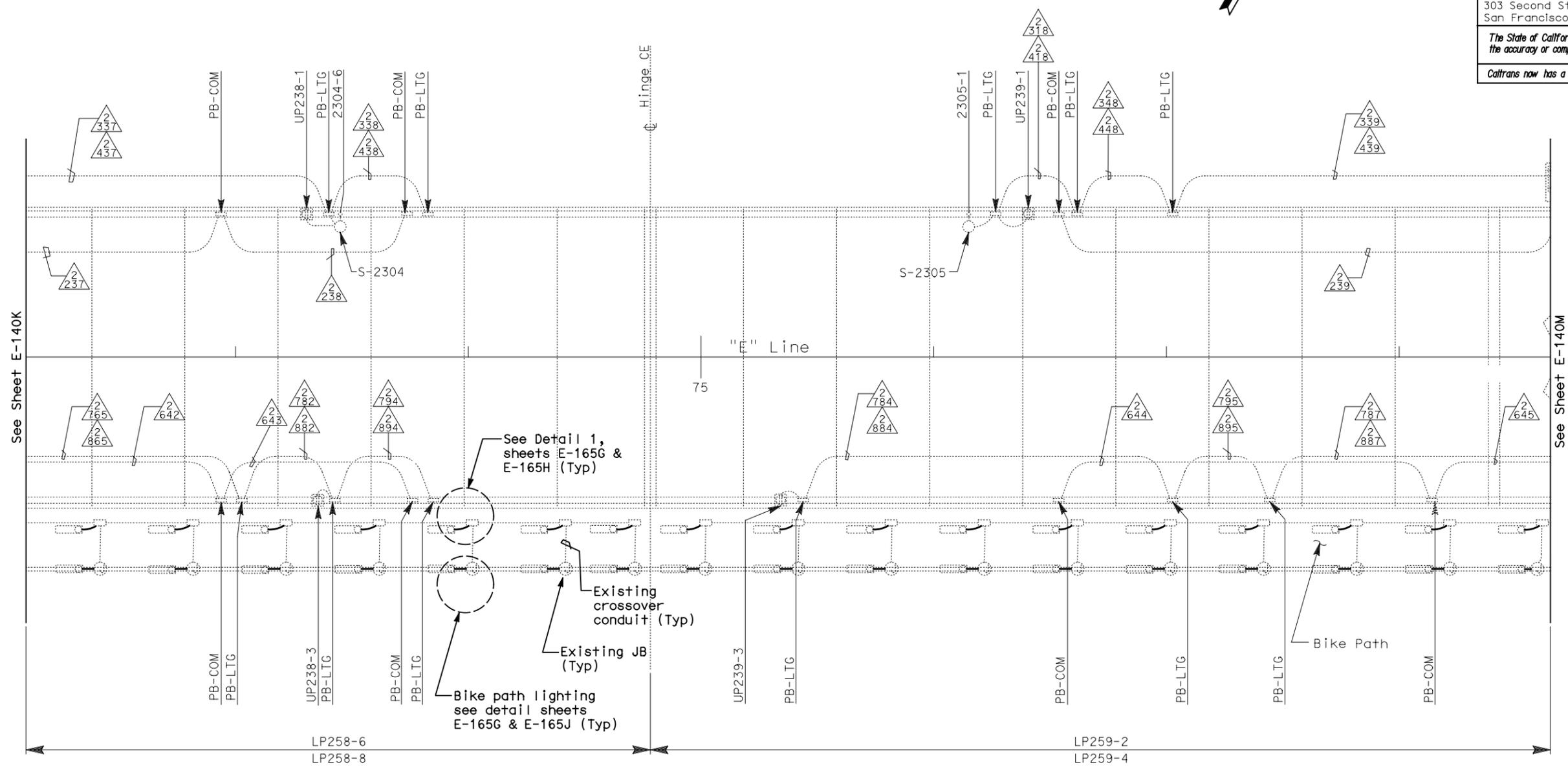
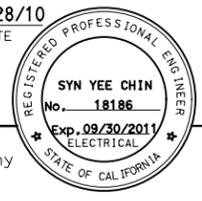
*Syn Yee Chin* 10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE \_\_\_\_\_

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

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**CONDUIT PLAN**

**NOTES:**

- This plan sheet is a record drawing from Skyway structure. Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-51 from Skyway Structures, contract No. 04-012024.
- Unless shown in bold, everything else shown was part of Skyway Contract.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
△	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

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

**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140L**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



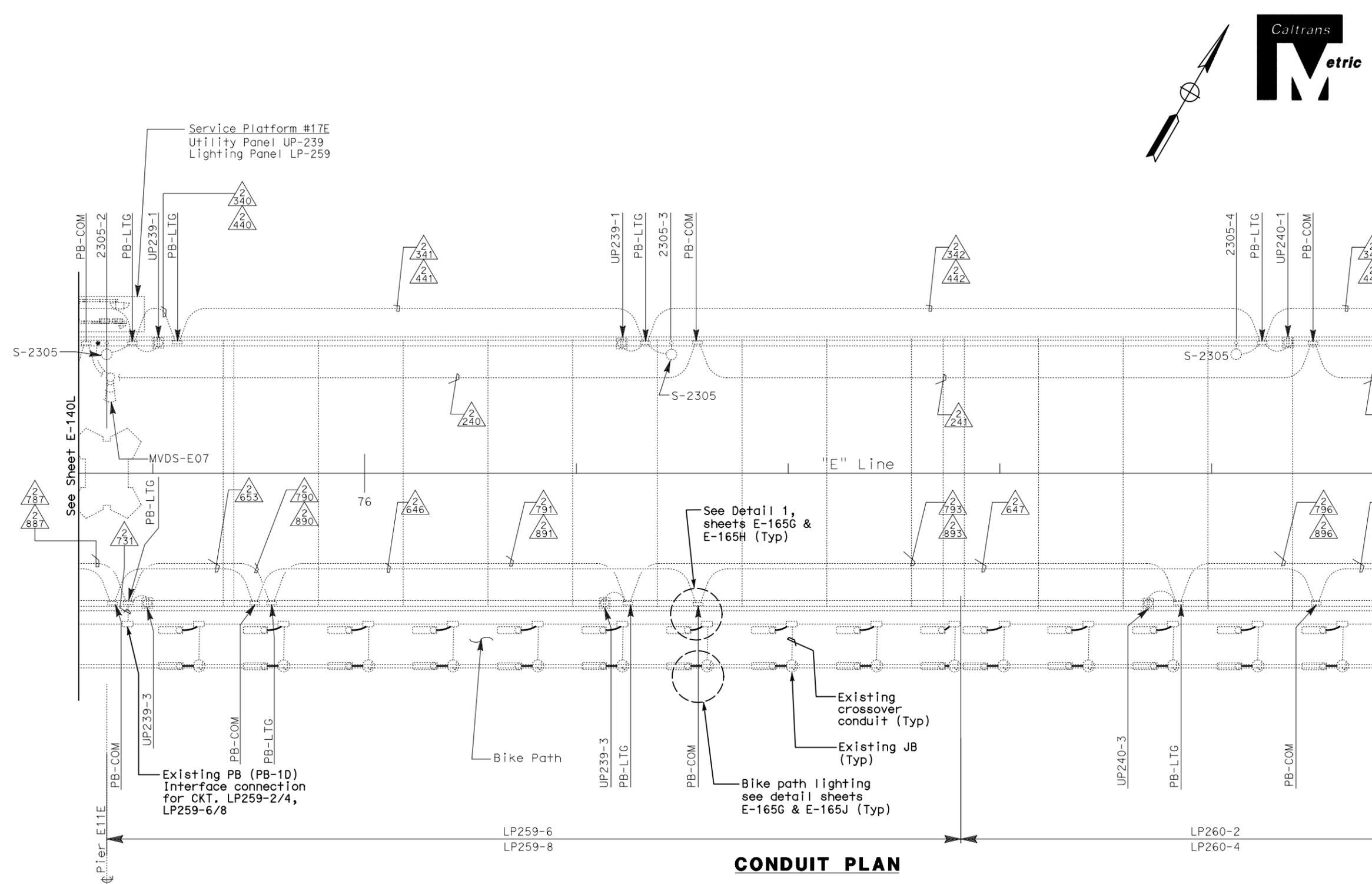
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CU 04251

EA 0120F1

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:42  
 LAST REVISION 00-00-00

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



**CONDUIT PLAN**

- NOTES:**
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  2. Unless shown in bold, everything else shown was part of Skyway Contract.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
△	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCC#
REVISIONS					

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

**SKYWAY ROADWAY LEVEL EASTBOUND  
 LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140M**

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DGN FILE => 04-0120f1\_0193S12.dgn  
 USERNAME => llorico

CU 04251

EA 0120F1

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, Ala	80	13.2 / 13.9	193S12	1204	

10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE \_\_\_\_\_

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 303 Second St., Suite 700N  
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL	SHEET No	TOTAL SHEETS
04	SF, Alameda	80	13.2 / 13.9	193S14	1204	

REGISTERED ELECTRICAL ENGINEER  
**Syn Yee Chin** 10/28/10  
 No. 18186  
 Exp. 09/30/2011  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_  
**PB AMERICAS, Inc.**  
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 303 Second St., Suite 700N  
 San Francisco, CA 94107-1317

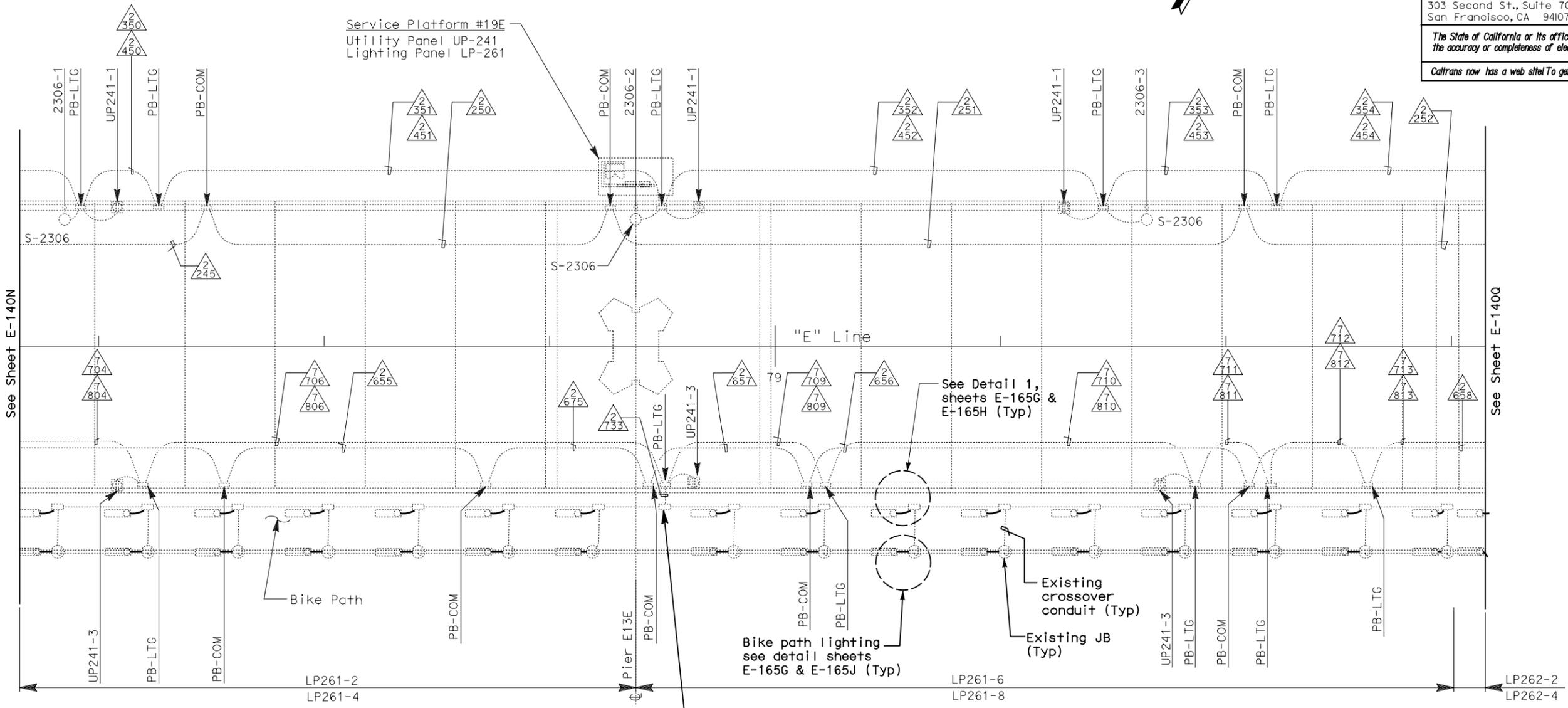
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REVISOR	DATE	REVISION

DESIGN OVERSIGHT	CHECKED BY	DATE
BEHZAD GOLEHAMMADI		

DESIGNED BY	CHECKED BY	DATE



**CONDUIT PLAN**

**NOTES:**

1. This plan sheet is a record drawing from Skyway structure. Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-54 from Skyway Structures, contract No. 04-012024.
2. Unless shown in bold, everything else shown was part of Skyway Contract.

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

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

**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

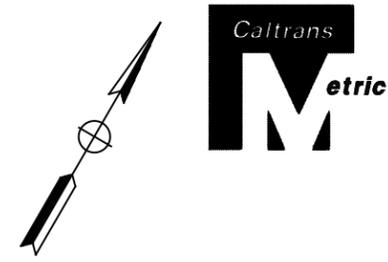
**E-140P**

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 DGN FILE => 04-0120f1\_0193S14.dgn  
 USERNAME => llorico

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:43  
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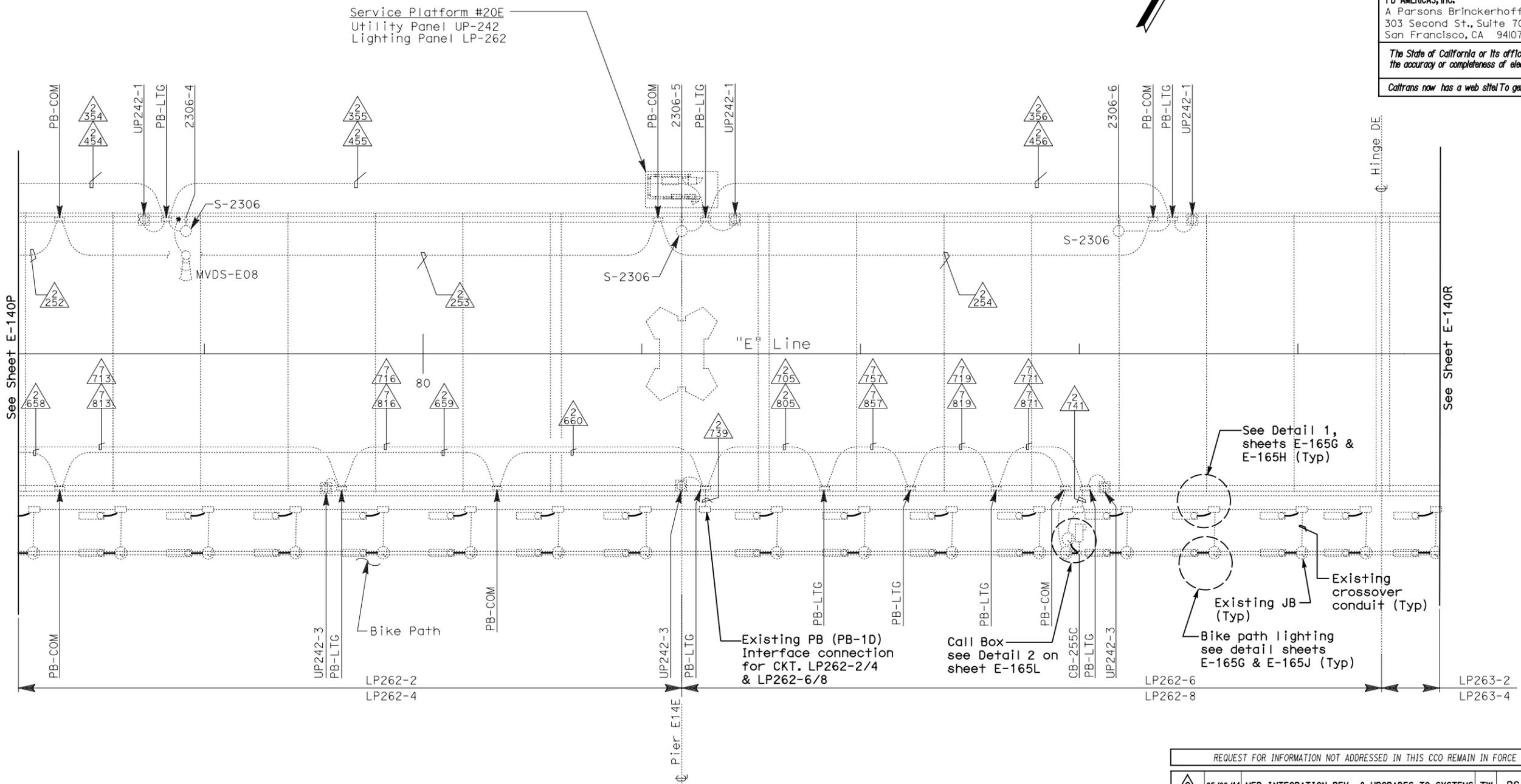
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST 13.9	SHEET No 193S15	TOTAL SHEETS 1204
04	SF, Alameda	80	13.2 /			

REGISTERED ELECTRICAL ENGINEER  
 SIGNATURE: *Syn Yee Chin*  
 DATE: 10/28/10  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 18186  
 Exp. 09/30/2011  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE \_\_\_\_\_  
 PB AMERICAS, Inc.  
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**CONDUIT PLAN**

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
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- NOTES:**
- This plan sheet is a record drawing from Skyway structure. Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-55 from Skyway Structures, contract No. 04-012024.
  - Unless shown in bold, everything else shown was part of Skyway Contract.

**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140Q**

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 USERNAME => ilorico

CU 04251

EA 0120F1

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:43  
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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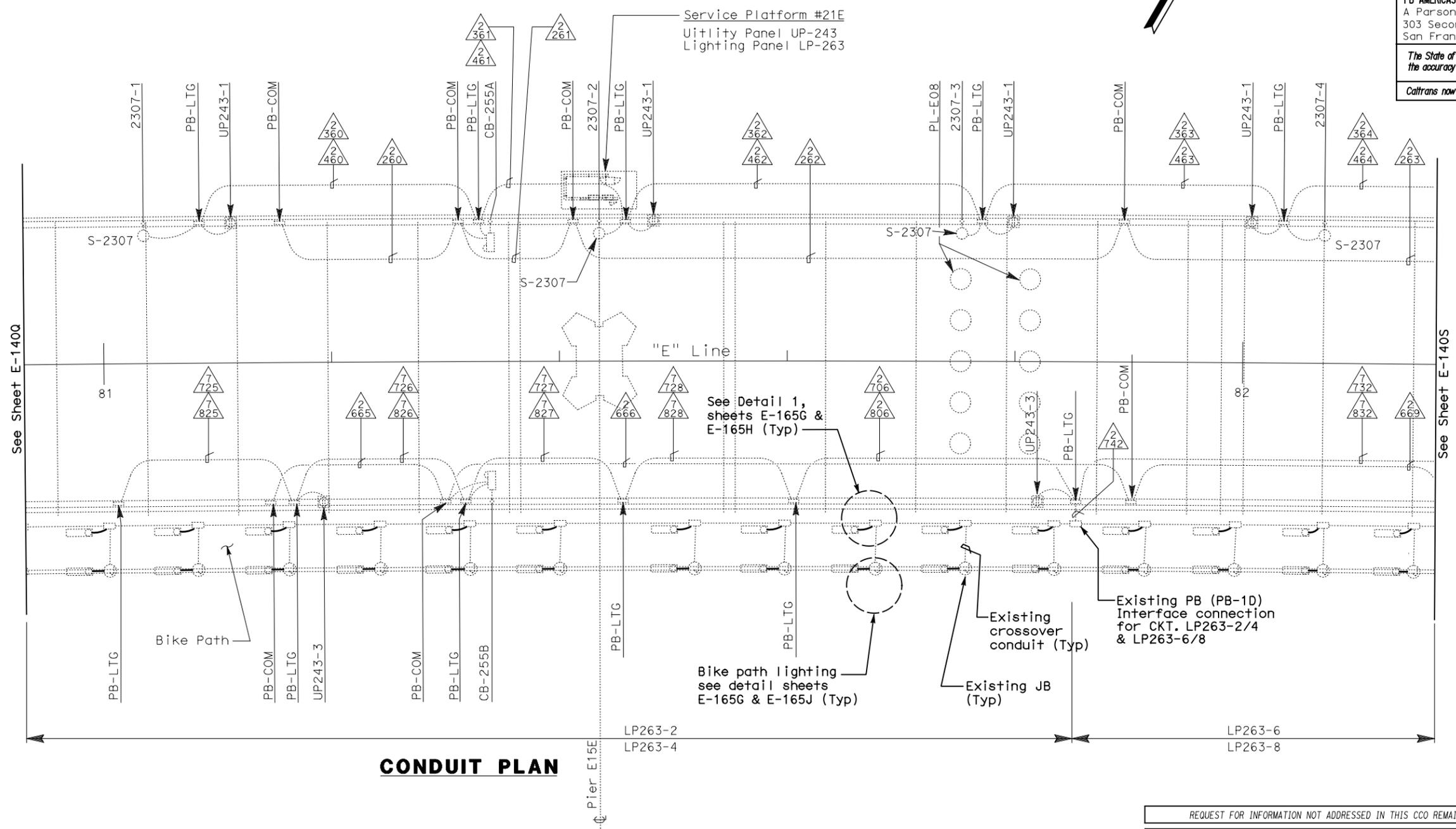
*Syn Yee Chin* 10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE \_\_\_\_\_

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**CONDUIT PLAN**

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1. This plan sheet is a record drawing from Skyway structure. Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-56 from Skyway Structures, contract No. 04-012024.
2. Unless shown in bold, everything else shown was part of Skyway Contract.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE						
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CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
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**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140R**

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CU 04251

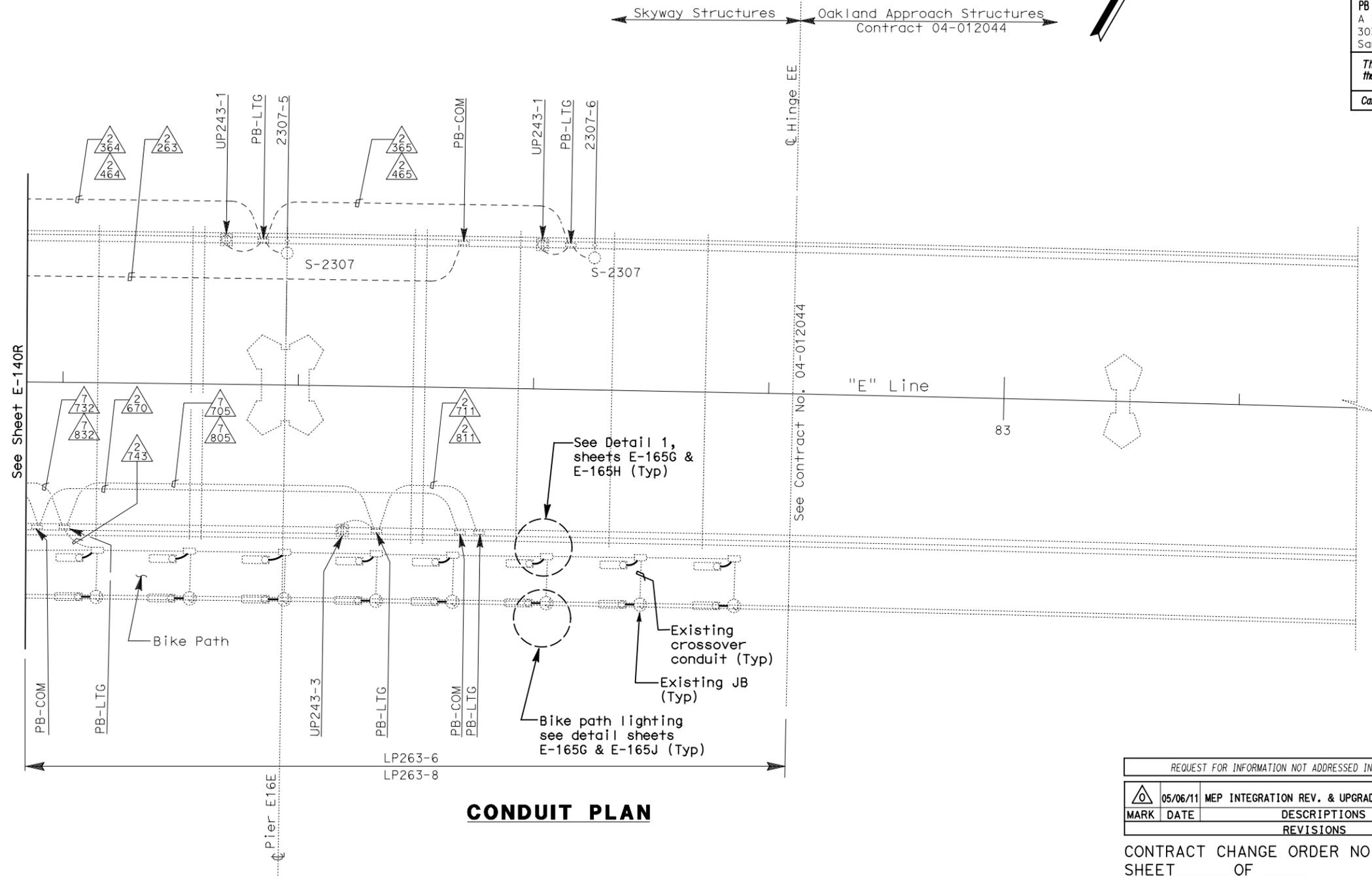
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DATE PLOTTED => 10-MAY-2011  
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
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 BEHZAD GOLEMOHAMMADI  
 REVISIONS  
 DATE XX/XX/10  
 REVISOR  
 DATE REVISOR  
 DATE REVISOR

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, Alameda	80	13.2	13.9	193S17	1204

**Syn Yee Chin** 10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE  
 PLANS APPROVAL DATE  
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**CONDUIT PLAN**

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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

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

**NOTES:**

- This plan sheet is a record drawing from Skyway structure. Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-57 from Skyway Structures, contract No. 04-012024.
- Unless shown in bold, everything else shown was part of Skyway Contract.

**SKYWAY ROADWAY LEVEL EASTBOUND LIGHTING AND ELECTRICAL SYSTEMS**

SCALE: 1:200

**E-140S**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

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 USERNAME => ilorico

CU 04251

EA 0120F1

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:43  
 LAST REVISION  
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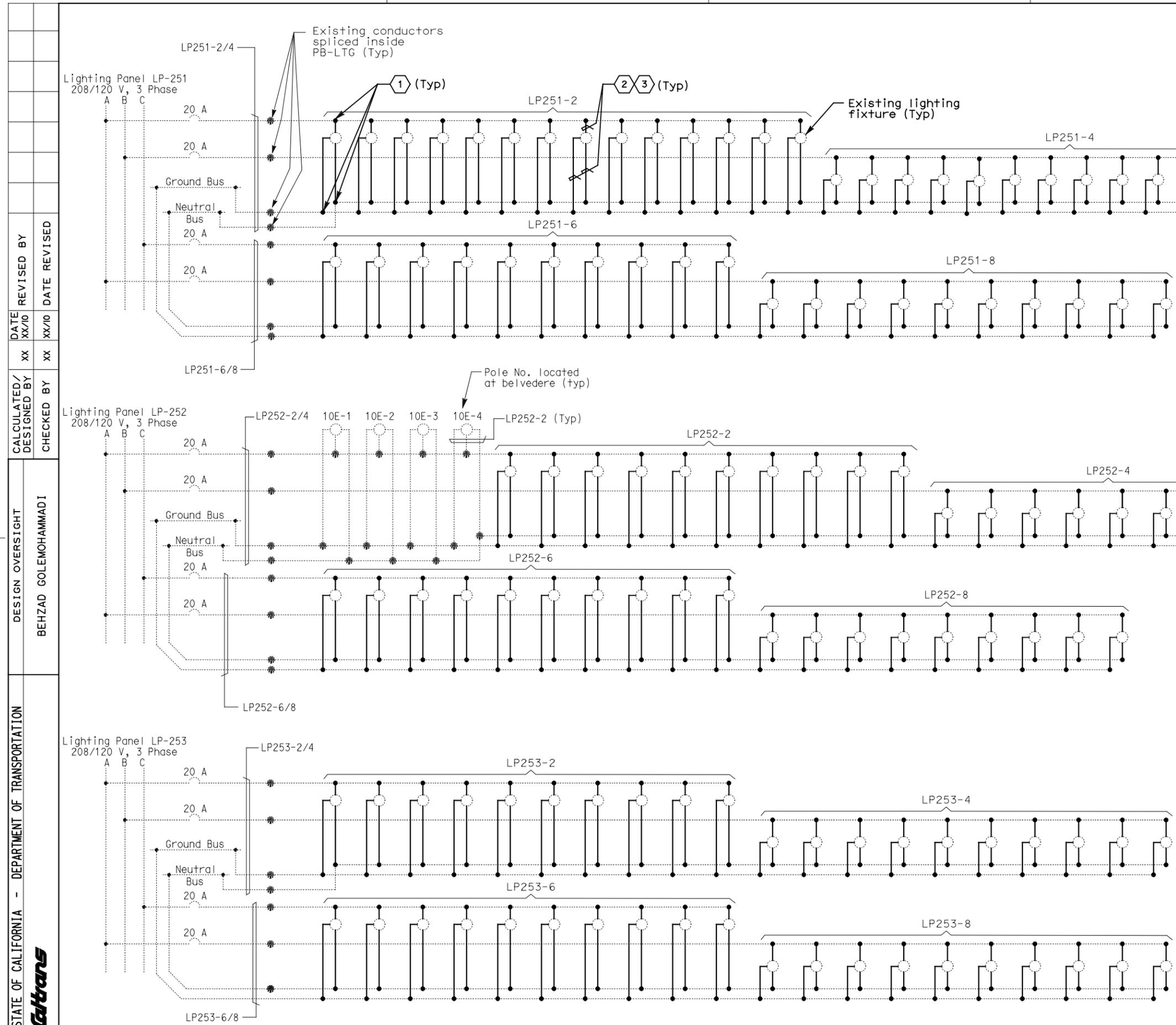
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, Alameda	80	13.2 / 13.9	198S01	1204	

10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE  
 SYN YEE CHIN  
 No. 18186  
 Exp. 09/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

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

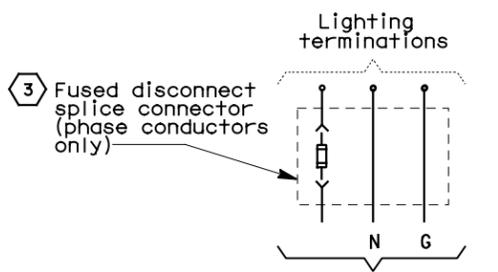
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**SHEET NOTES:**

- ① Conductors spliced inside PB-LTG (PB-1D) located at north side of Bike Path.
- ② 2#12 + #12G, THWN. See Detail 1.
- ③ If not existing, install 5A in-line fuse in fuseholder with insulating boot per light fixture inside the belvedere light pole handhole for 10E-1 through 10E-4. For bike path lights (north/south hand railing) install 5A in-line fuses with water resistant fuseholder inside PB-1D located at north side of the bike path.



**DETAIL-1**  
(TYP. FOR EACH BIKE PATH LIGHTING)

**NOTES:**

1. This sheet is a record drawing from Skyway structure. Existing condition shown may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-179 from Skyway Structures, contract No. 04-012024.
2. Unless shown in bold, everything else shown was part of Skyway Contract.

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05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163	
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			

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

**SKYWAY ROADWAY LEVEL EASTBOUND  
120 V BIKE PATH WIRING DIAGRAMS**  
NO SCALE

**E-147A**

DESIGNED BY: BEHZAD GOLEHAMMADI

DESIGN OVERSIGHT: BEHZAD GOLEHAMMADI

DEPARTMENT OF TRANSPORTATION

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

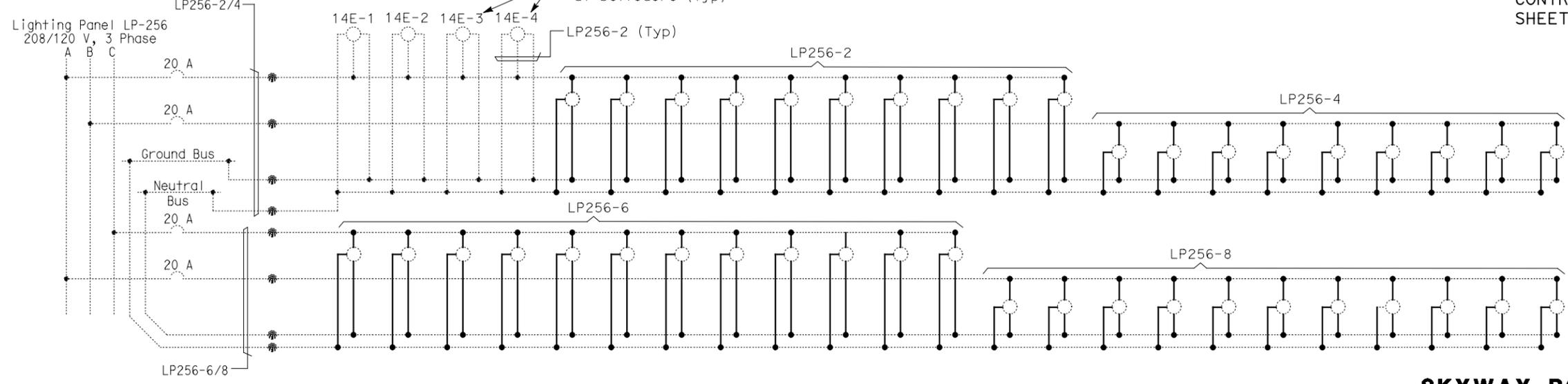
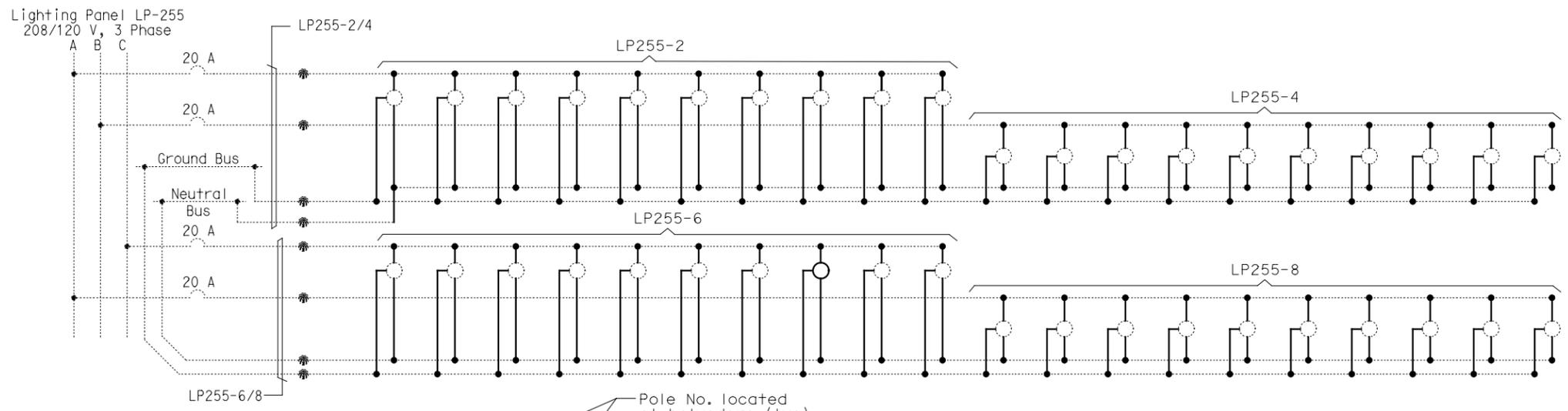
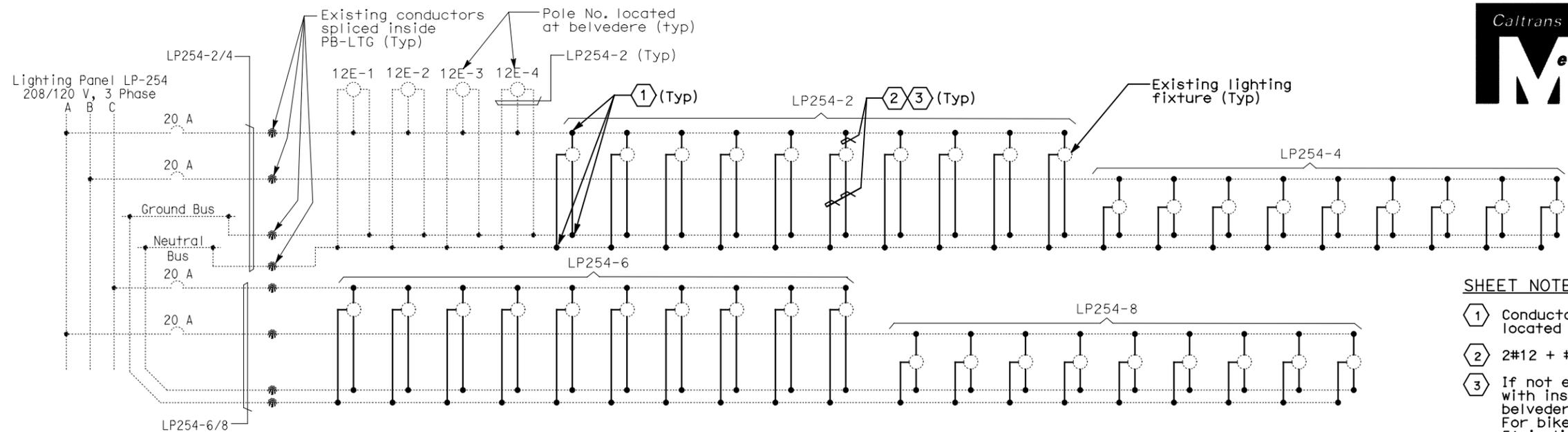
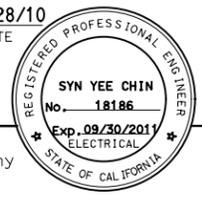
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USERNAME => ilorico

CU 04251 EA 0120F1

DATE PLOTTED => 10-MAY-2011  
TIME PLOTTED => 16:43  
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF,Ala	80	13.2 / 13.9	198502	1204	
REGISTERED ELECTRICAL ENGINEER <i>Syn Yee Chin</i> 10/28/10						
PLANS APPROVAL DATE <b>PB AMERICAS, Inc.</b> A Parsons Brinckerhoff Company 303 Second St., Suite 700N San Francisco, CA 94107-1317						
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**SHEET NOTES:**

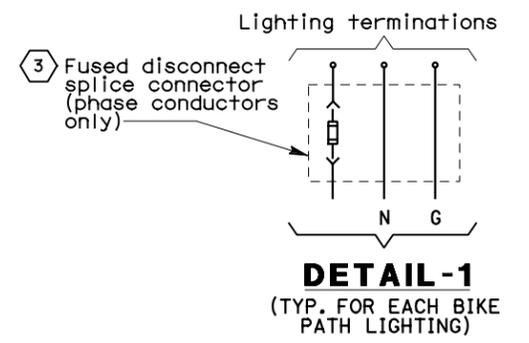
- ① Conductors spliced inside PB-LTG (PB-1D) located at north side of Bike Path.
- ② 2#12 + #12G, THWN. See Detail 1.
- ③ If not existing, install 5A in-line fuse in fuseholder with insulating boot per light fixture inside the belvedere light pole handhole for 14E-1 through 14E-4. For bike path lights (north/south hand railing) install 5A in-line fuses with water resistant fuseholder inside PB-1D located at north side of the bike path.

**NOTES:**

1. This sheet is a record drawing from Skyway structure. Existing condition shown may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-180 from Skyway Structures, contract No. 04-012024.
2. Unless shown in bold, everything else shown was part of Skyway Contract.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			

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



**SKYWAY ROADWAY LEVEL EASTBOUND  
 120 V BIKE PATH WIRING DIAGRAMS**  
 NO SCALE

**E-147B**

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 USERNAME => ilorico

CU 04251

EA 0120F1

REVISIONS: 00-00-00  
 DATE PLOTTED => 10-MAY-2011  
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 DESIGN OVERSIGHT: BEHZAD GOLEMOHAMMADI  
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT  
 BEHZAD GOLEHAMMADI



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
04	SF,Ala	80	13.2 / 13.9	198S03	1204	

REGISTERED ELECTRICAL ENGINEER  
 SYN YEE CHIN  
 No. 18186  
 Exp. 09/30/2011  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: 10/28/10

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**SHEET NOTES:**

- ① Conductors spliced inside PB-LTG (PB-1D) located at north side of Bike Path.
- ② 2#12 + #12G, THWN. See Detail 1.
- ③ If not existing, install 5A in-line fuse in fuseholder with insulating boot per light fixture inside the belvedere light pole handhole for 16E-1 through 16E-4. For bike path lights (north/south hand railing) install 5A in-line fuses with water resistant fuseholder inside PB-1D located at north side of the bike path.

**NOTES:**

- 1. This sheet is a record drawing from Skyway structure. Existing condition shown may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-181 from Skyway Structures, contract No. 04-012024.
- 2. Unless shown in bold, everything else shown was part of Skyway Contract.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
△	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			

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

**SKYWAY ROADWAY LEVEL EASTBOUND  
 120 V BIKE PATH WIRING DIAGRAMS**  
 NO SCALE

**E-147C**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS  
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 USERNAME =>llorico

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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF,Ala	80	13.2 / 13.9	198S04	1204	

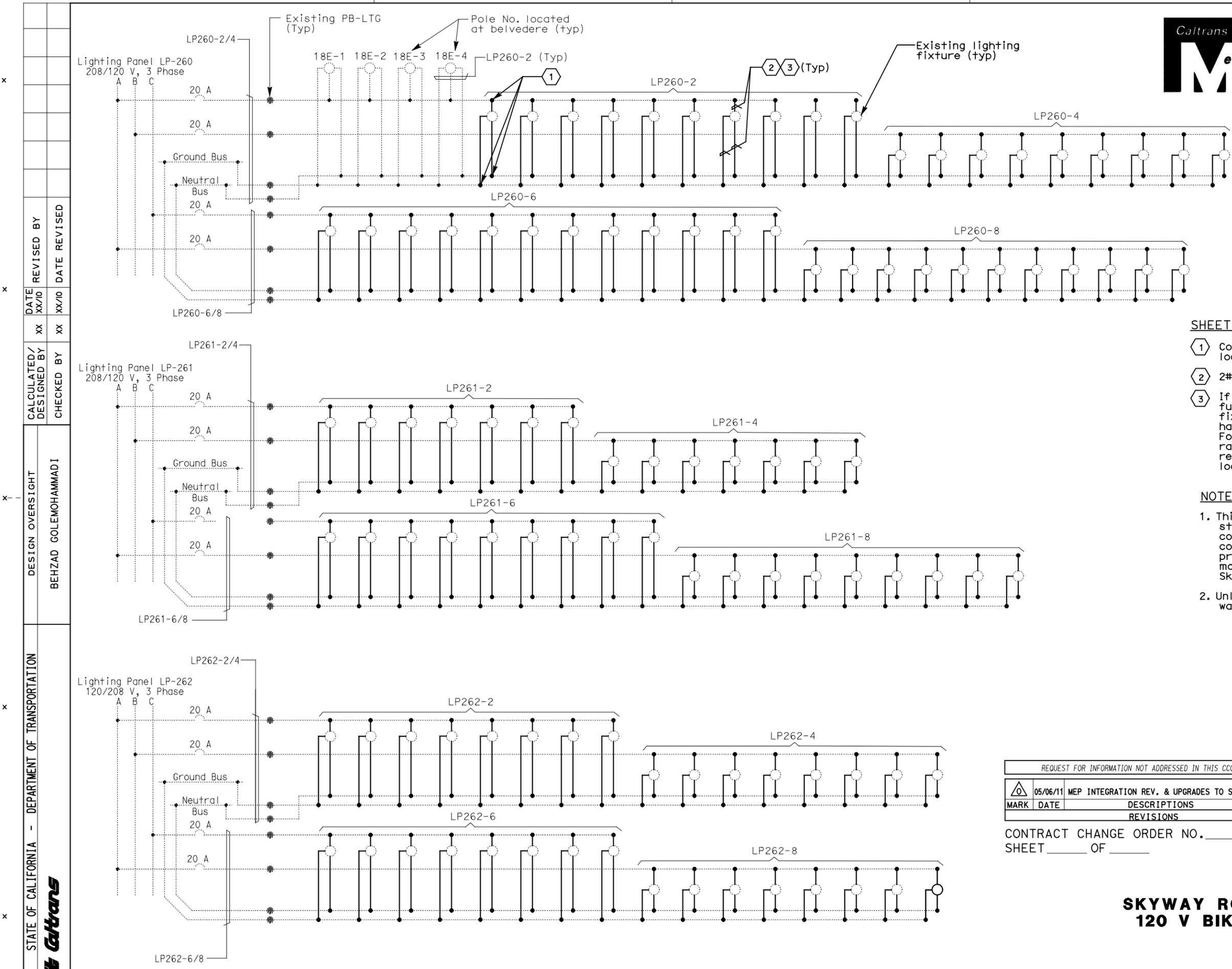
REGISTERED ELECTRICAL ENGINEER  
 SYN YEE CHIN  
 No. 18186  
 Exp. 09/30/2011  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: 10/28/10

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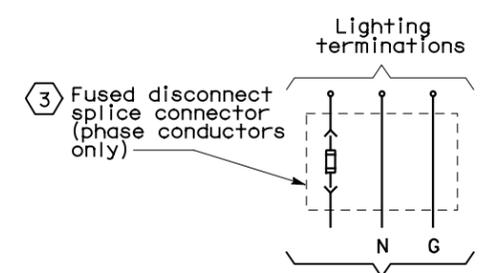


**SHEET NOTES:**

- ① Conductors spliced inside PB-LTG (PB-1D) located at north side of Bike Path.
- ② 2#12 + #12G, THWN. See Detail 1.
- ③ If not existing, install 5A in-line fuse in fuseholder with insulating boot per light fixture inside the belvedere light pole handhole for 18E-1 through 18E-4. For bike path lights (north/south hand railing) install 5A in-line fuses with water resistant fuseholder inside PB-1D located at north side of the bike path.

**NOTES:**

- 1. This sheet is a record drawing from Skyway structure. Existing condition shown may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-182 from Skyway Structures, contract No. 04-012024.
- 2. Unless shown in bold, everything else shown was part of Skyway Contract.



**DETAIL-1**  
(TYP. FOR EACH BIKE PATH LIGHTING)

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
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CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
SHEET \_\_\_\_\_ OF \_\_\_\_\_

**SKYWAY ROADWAY LEVEL EASTBOUND  
120 V BIKE PATH WIRING DIAGRAMS**  
NO SCALE

**E-147D**

DESIGNED BY: BEHZAD GOLEMOHAMMADI  
 CHECKED BY: \_\_\_\_\_  
 CALCULATED/DESIGNED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_

REVISIONS:

DATE	REVISION BY	DATE
XX/XX/XX	XX	XX/XX/XX

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FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS  
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USERNAME => ilorico

CU 04251

EA 0120F1

DATE PLOTTED => 10-MAY-2011  
TIME PLOTTED => 16:43  
LAST REVISION 00-00-00

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

DESIGNED BY  
 BEHZAD GOLEMOHAMMADI

CHECKED BY  
 XX

DATE XX/XX/10

REVISOR  
 XX

DATE XX/XX/10



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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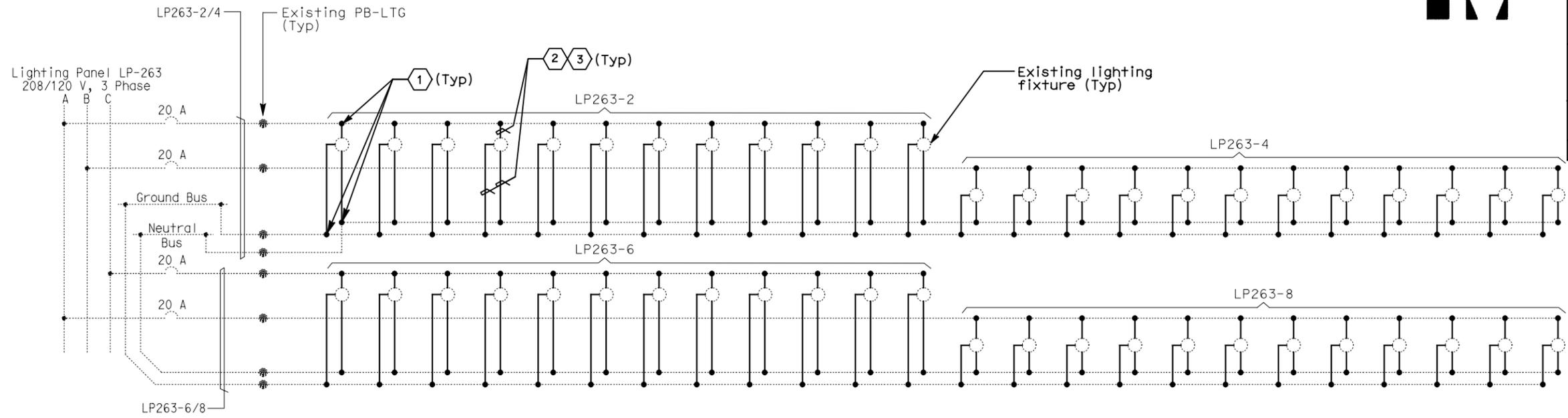
REGISTERED ELECTRICAL ENGINEER  
 SYN YEE CHIN  
 No. 18186  
 Exp. 09/30/2011  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE: 10/28/10

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

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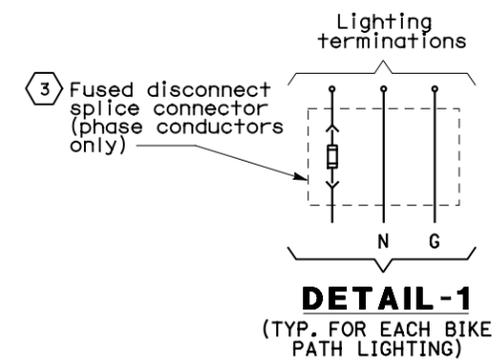


**SHEET NOTES:**

- 1 Conductors spliced inside PB-LTG (PB-1D) located at north side of Bike Path.
- 2 2#12 + #12G, THWN. See Detail 1.
- 3 For bike path lights (north/south hand railing) install 5A in-line fuses with water resistant fuseholder inside PB-1D located at north side of the bike path.

**NOTES:**

- 1. This sheet is a record drawing from Skyway structure. Existing condition shown may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-183 from Skyway Structures, contract No. 04-012024.
- 2. Unless shown in bold, everything else shown was part of Skyway Contract.



REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
0	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

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

**SKYWAY ROADWAY LEVEL EASTBOUND  
 120 V BIKE PATH WIRING DIAGRAMS**  
 NO SCALE

**E-147E**

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CU 04251

EA 0120F1

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:43  
 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
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 BEHZAD GOLEMOHAMMADI  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 DATE XX/XX/10  
 REVISIONS  
 REVISIONS  
 DATE XX/XX/10  
 REVISIONS  
 DATE XX/XX/10



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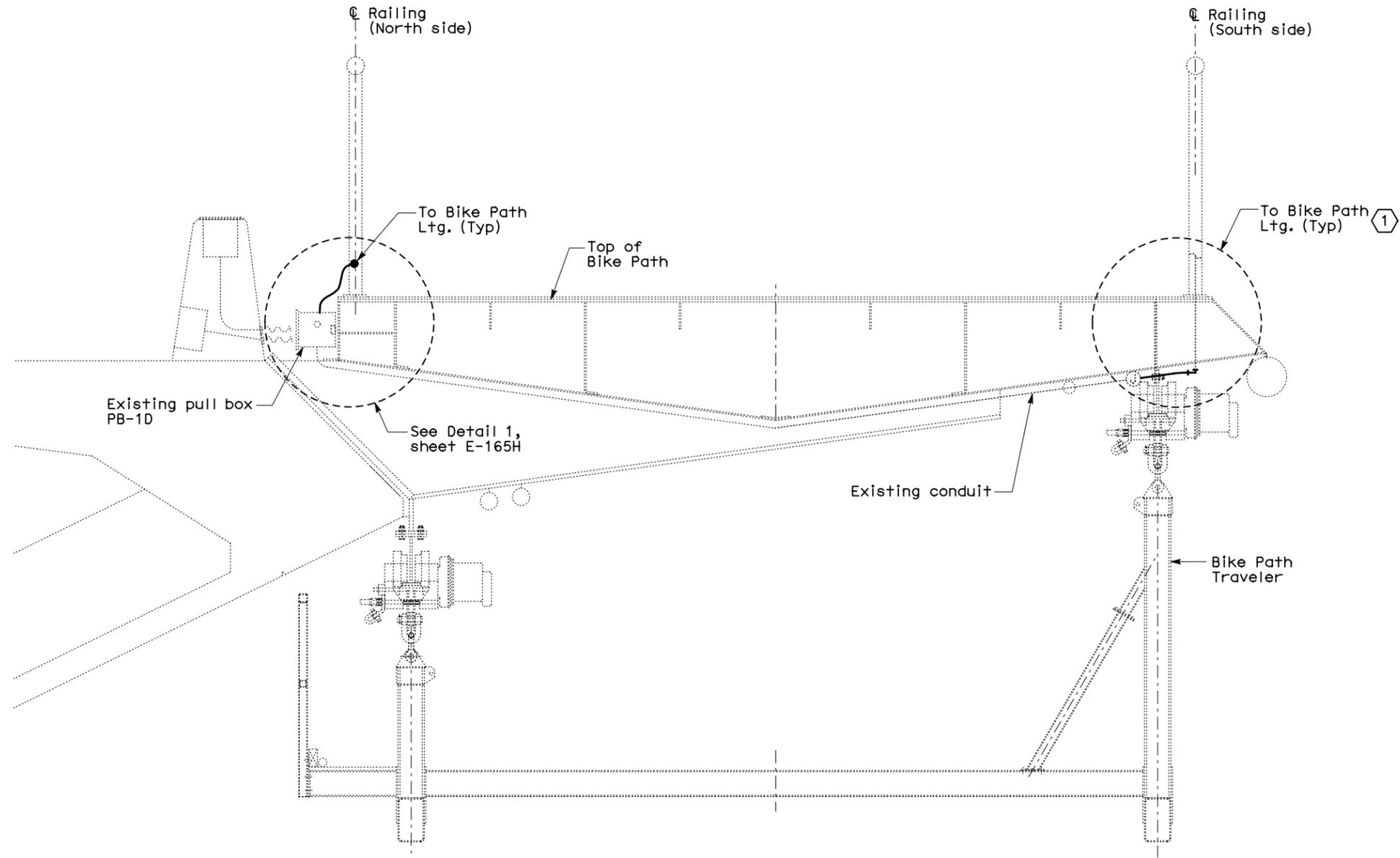
REGISTERED ELECTRICAL ENGINEER  
 SYN YEE CHIN  
 No. 18186  
 Exp. 09/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
 10/28/10

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**DETAIL 1 - ELEVATION**  
 NO SCALE

**SHEET NOTES:**

① For bike path light detail, see Sheet E-165J.

**NOTES:**

1. For location of bike path light fixtures and belvedere lights, see E-140A through E-140S.
2. All conduit connections shall be watertight.
3. Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE						
△	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163	
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#	
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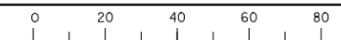
**DETAILS**  
**SKYWAY ROADWAY EASTBOUND**  
**TYPICAL BIKE PATH PLANS AND SECTIONS**  
 SCALE: 1:15

**E-165G**

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CU 04251

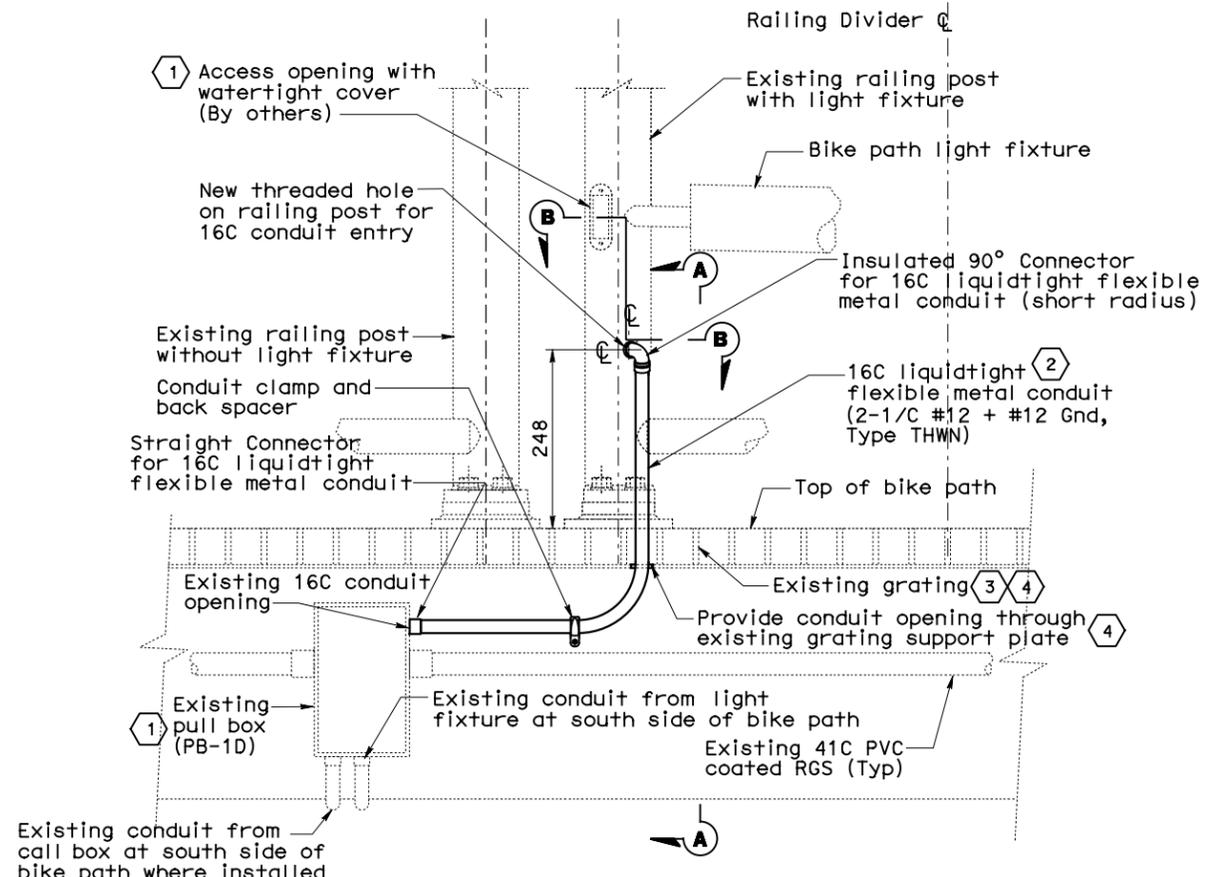
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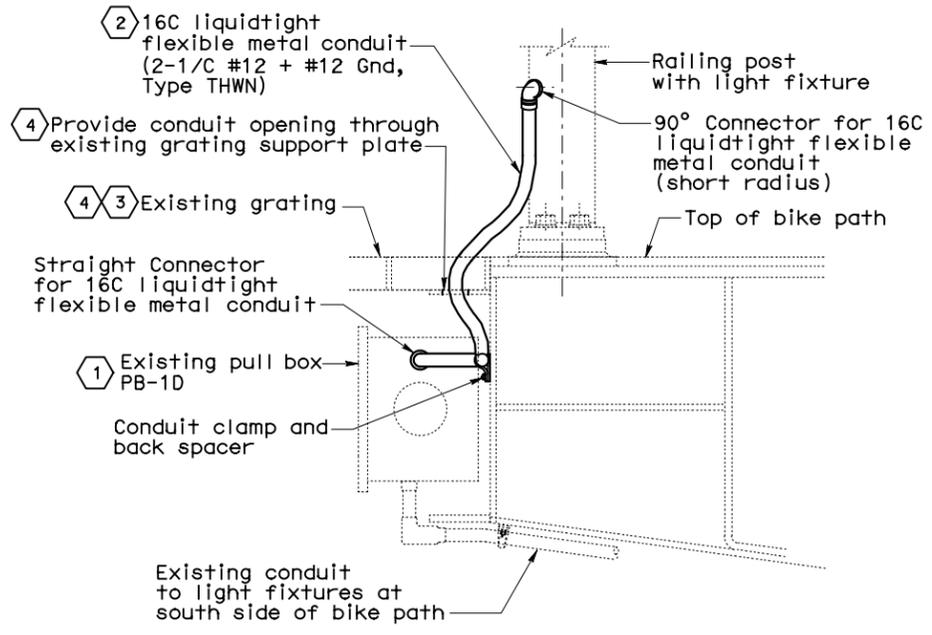


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04	SF	80	13.2/13.9	210 S8	1204
Syn Yee Chin REGISTERED ELECTRICAL ENGINEER DATE 10/28/10					
PLANS APPROVAL DATE _____ PB AMERICAS, Inc. A Parsons Brinckerhoff Company 303 Second St., Suite 700N San Francisco, CA 94107-1317					
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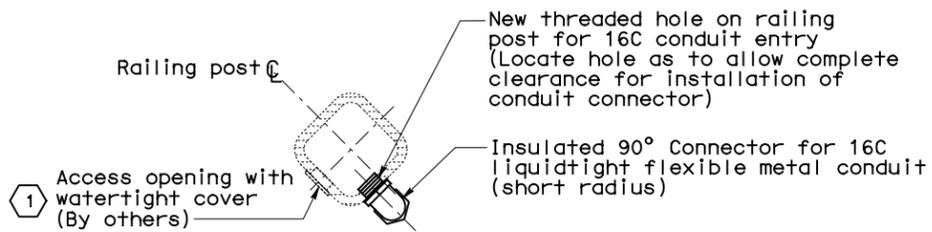
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CHECKED BY	REVISOR	DATE	REVISOR	DATE
DESIGN OVERSIGHT BEHZAD GOLEMOHAMMADI				
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION 				



**DETAIL 1 - ELEVATION**  
 TYPICAL LIGHT FIXTURE CONDUIT INSTALLATION  
 AT NORTH SIDE OF THE BIKE PATH



**SECTION A-A**  
 NO SCALE



**SECTION B-B**  
 SCALE: 1:10

**SHEET NOTES:**

- 1 Disconnect and remove existing bike path lighting conduits, JB and wires at both ends. Plug unused holes on pull box PB-1D.
- 2 Install a new 16C Liquidtight flexible metal conduit between the railing post and existing pull box (PB-1D). Install and connect new conductors to light fixture and splice to existing conductors inside PB-1D.
- 3 Where required, provide cutout opening on grating for the new conduit. Grating must be able to be removed without disconnecting the conduit or electrical wires from the light fixture.
- 4 Contractor shall restore all surface areas of steel plates and gratings that have been cut or where finish coating has been removed or damaged. Restoration shall be performed in accordance with the applicable specification.

**NOTES:**

1. For location of bike path light fixtures and belvedere lights, see E-140A through E-140S.
2. All conduit connections shall be watertight.
3. Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
△	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163
REVISIONS					

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

**DETAILS**  
**SKYWAY ROADWAY EASTBOUND**  
**TYPICAL BIKE PATH PLANS AND SECTIONS**  
 SCALE: 1:5

**E-165H**

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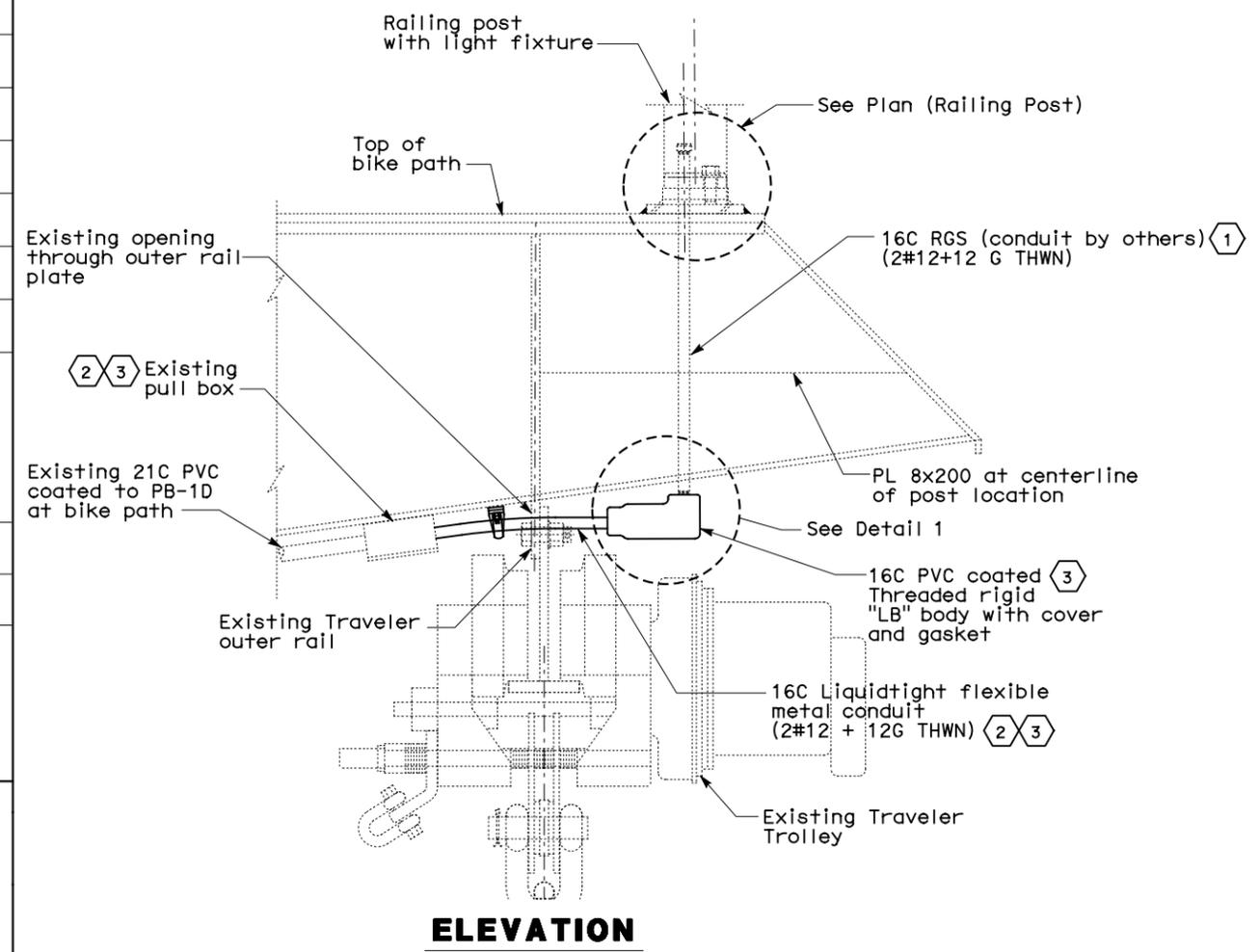
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT  
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 REVISIONS  
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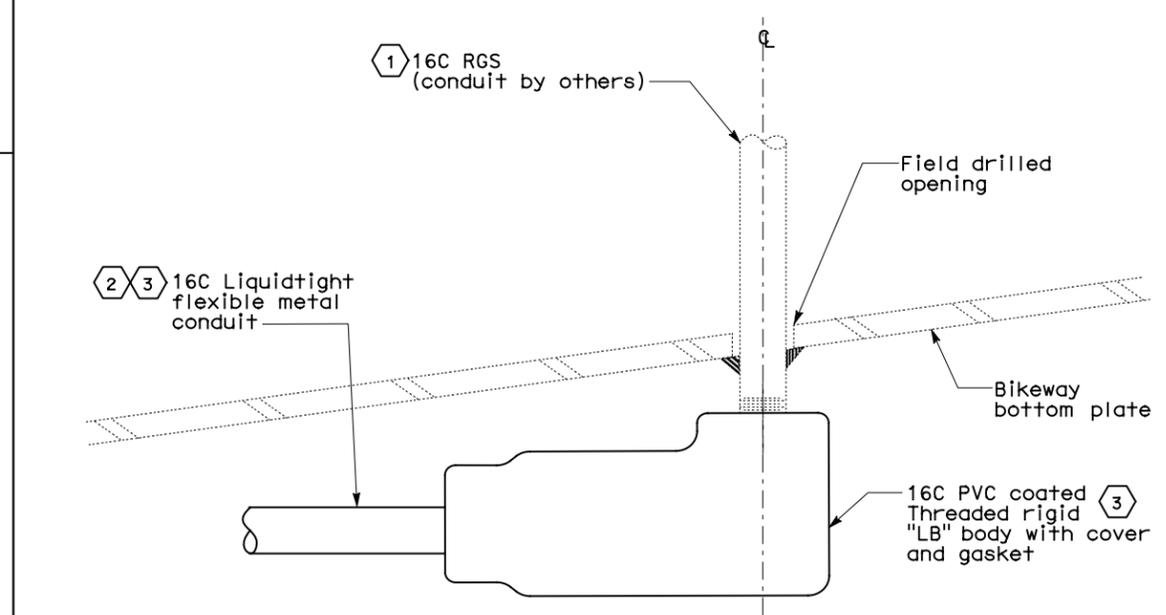
10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE  
**Syn Yee Chin**  
 No. 18186  
 Exp. 09/30/2011  
 REGISTERED PROFESSIONAL ENGINEER  
 ELECTRICAL  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE  
**PB AMERICAS, Inc.**  
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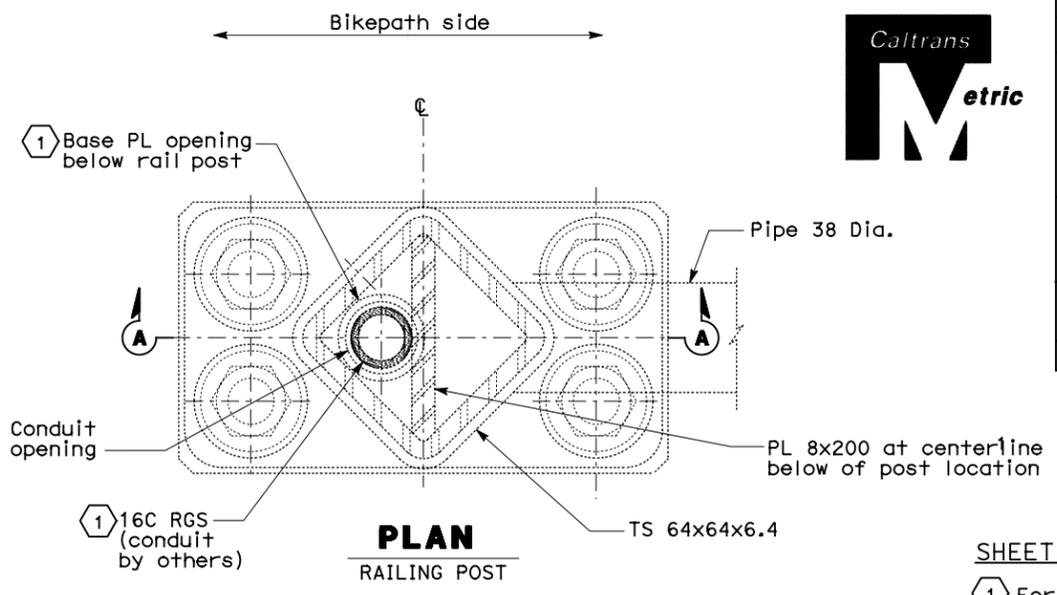
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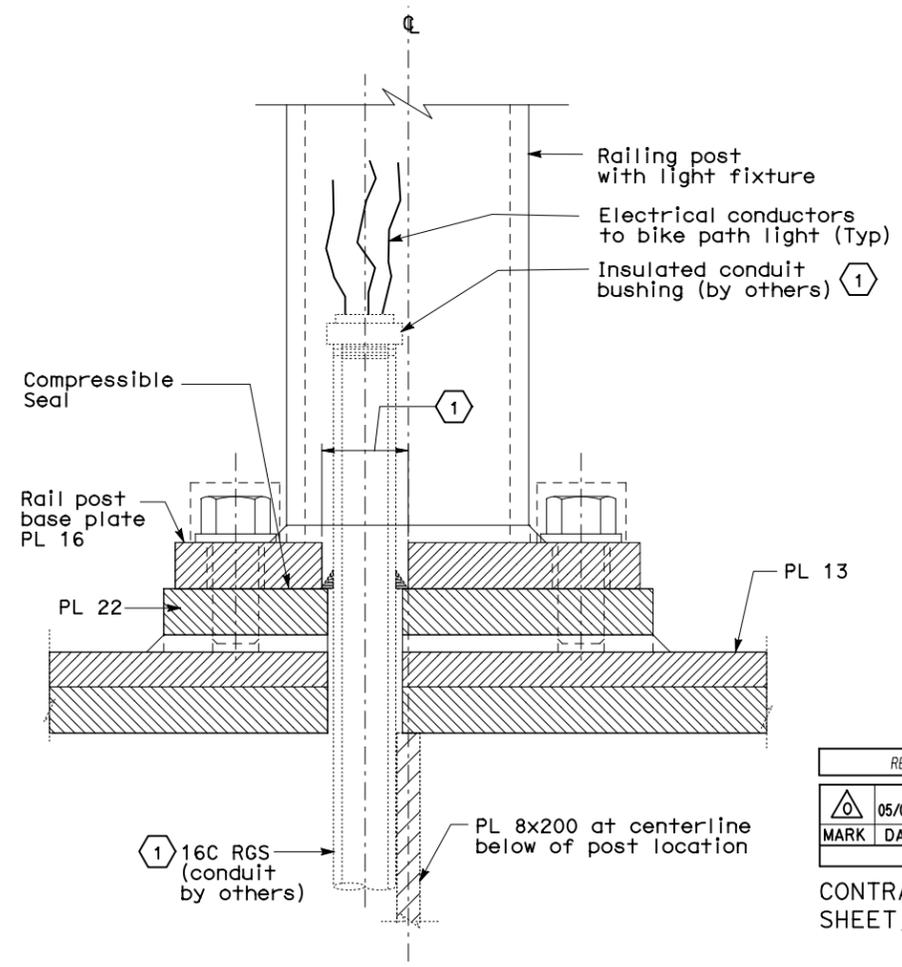
**ELEVATION**



**DETAIL 1  
 CONDUIT PENETRATION DETAIL**



**PLAN  
 RAILING POST**



**SECTION A-A**

**DETAILS  
 SKYWAY ROADWAY EASTBOUND  
 TYPICAL BIKE PATH PLANS AND SECTIONS**  
 SCALE: 1:5

**SHEET NOTES:**

- For conduit installation and opening, see Structural Plans.
- Disconnect and remove existing RG conduits and cables intended for bike path lighting from existing pull box.
- Install new 16C Liquidtight flexible metal conduit route through existing Traveler outer rail plate between existing pull box and new 16C PVC coated threaded rigid "LB" body. Connect "LB" body to existing 16C RGS (conduit by others). Install new conductors and splice (2#12 + 12G THWN) from existing pull box to bike path railing post via existing conduit.

**NOTES:**

- For locations of bike path light fixtures, see plan sheets E-140A through E-140S.
- All conduit connections shall be watertight.
- Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE				
MARK	DATE	DESCRIPTIONS	BY	CH'D
△	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG
				163
REVISIONS				

CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
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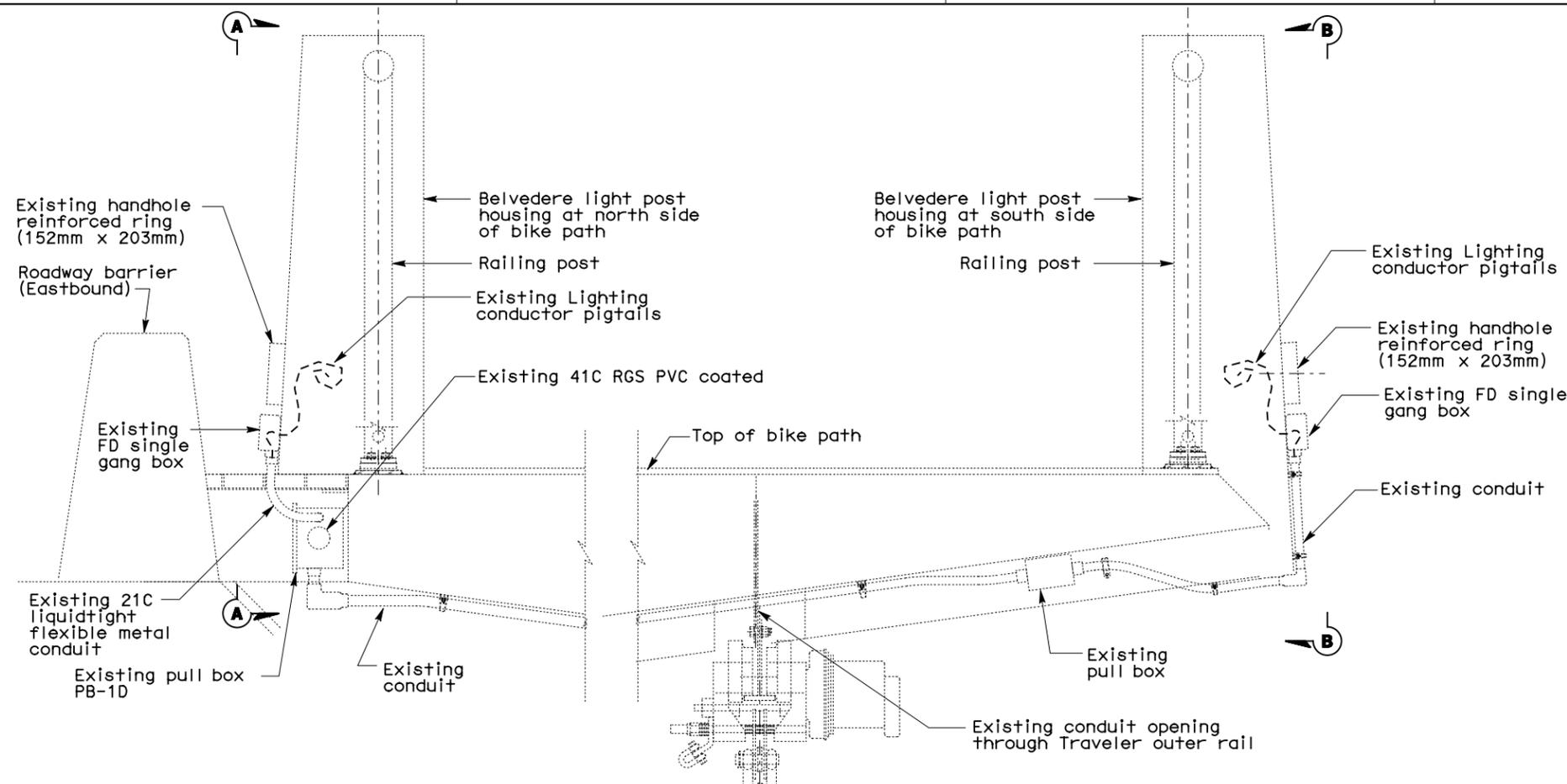
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 FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS  
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DATE PLOTTED => 13-MAY-2011  
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				SYN YEE CHIN No. 18186 Exp. 09/30/2011 ELECTRICAL STATE OF CALIFORNIA		
				PLANS APPROVAL DATE		
				PB AMERICAS, Inc. A Parsons Brinckerhoff Company 303 Second St., Suite 700N San Francisco, CA 94107-1317		
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**DETAIL 1 - ELEVATION**

BIKE PATH BELVEDERE LIGHTING CONDUIT INSTALLATION - WEST SIDE SHOWN  
 SIMILAR FOR BELVEDERE EAST SIDE

**SHEET NOTES:**

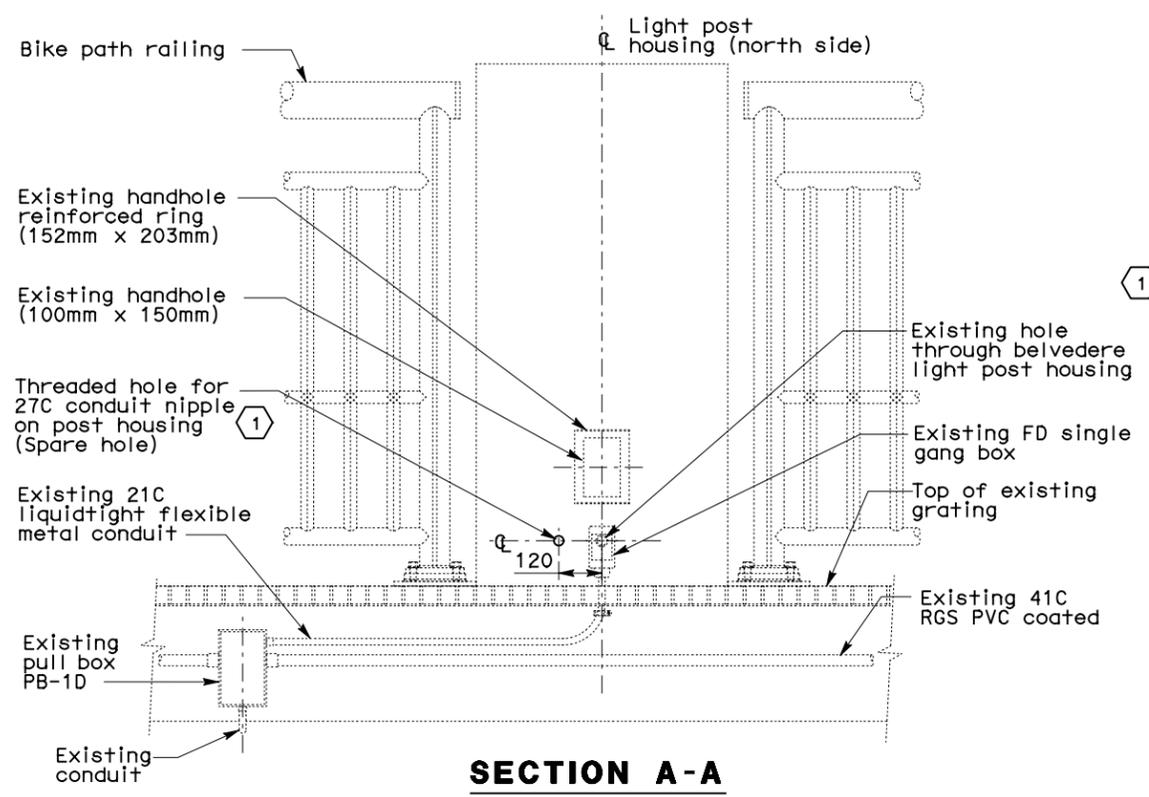
- ① Drill new threaded hole and use threaded plug to cover spare hole for future use.

**NOTES:**

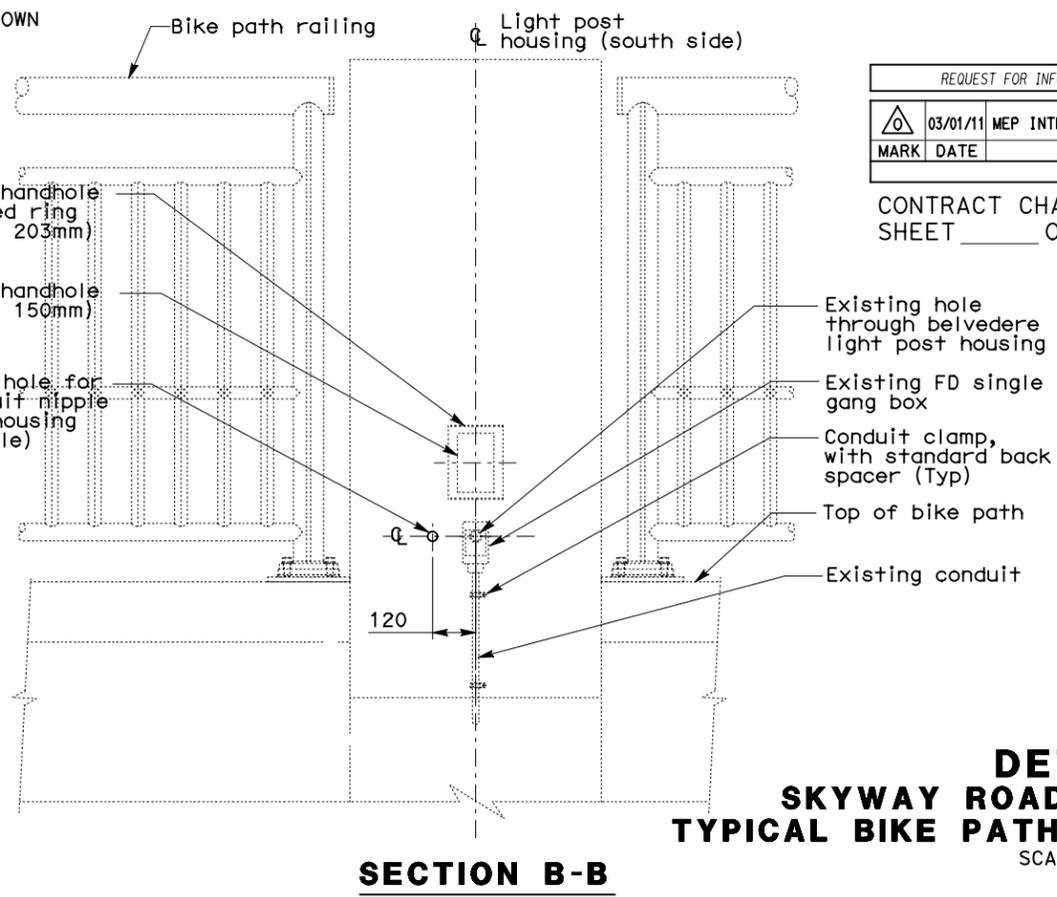
- For location of bike path light fixtures and belvedere lights, see plan sheets E-140A through E-140S.
- Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
△	03/01/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

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



**SECTION A-A**



**SECTION B-B**

**DETAILS SKYWAY ROADWAY EASTBOUND TYPICAL BIKE PATH PLANS AND SECTIONS**  
 SCALE: 1:10

**E-165K**

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DESIGNED BY	BEHZAD GOLEMOHAMMADI
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DATE	
REVISOR	
DATE	
REVISOR	

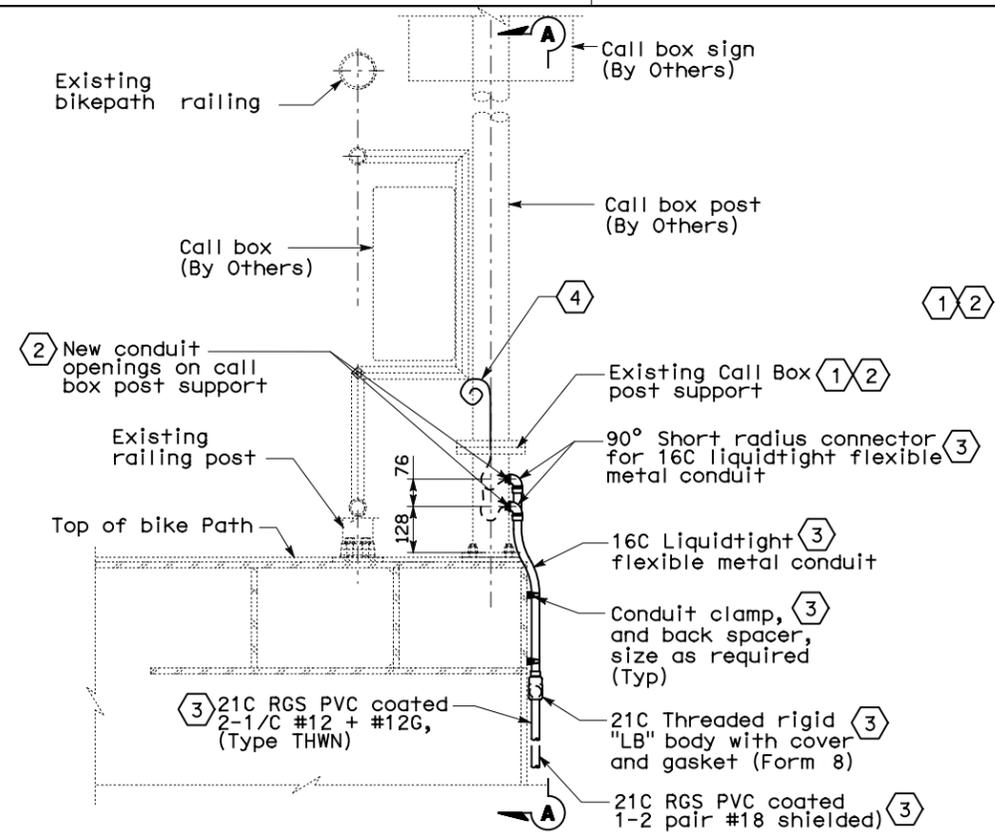
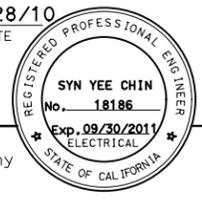
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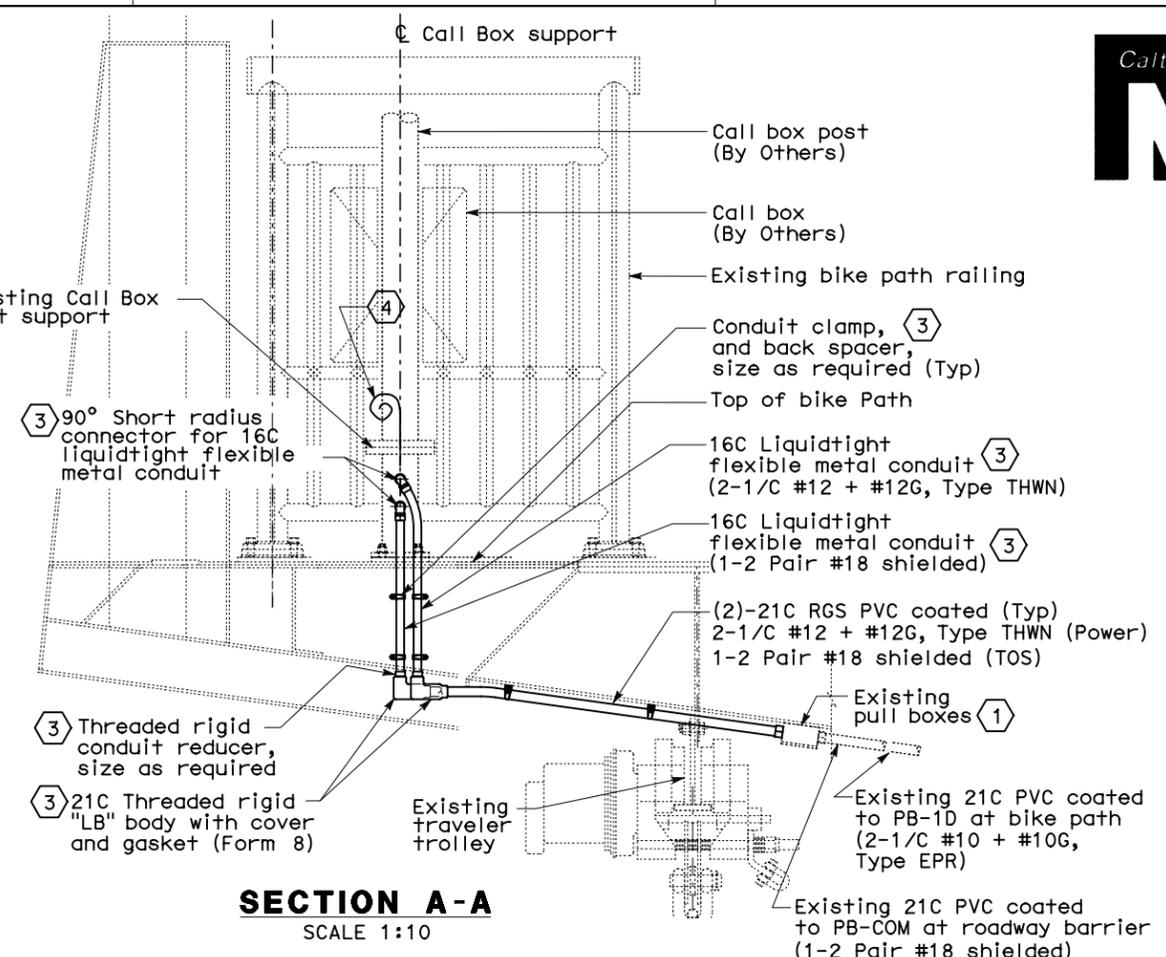
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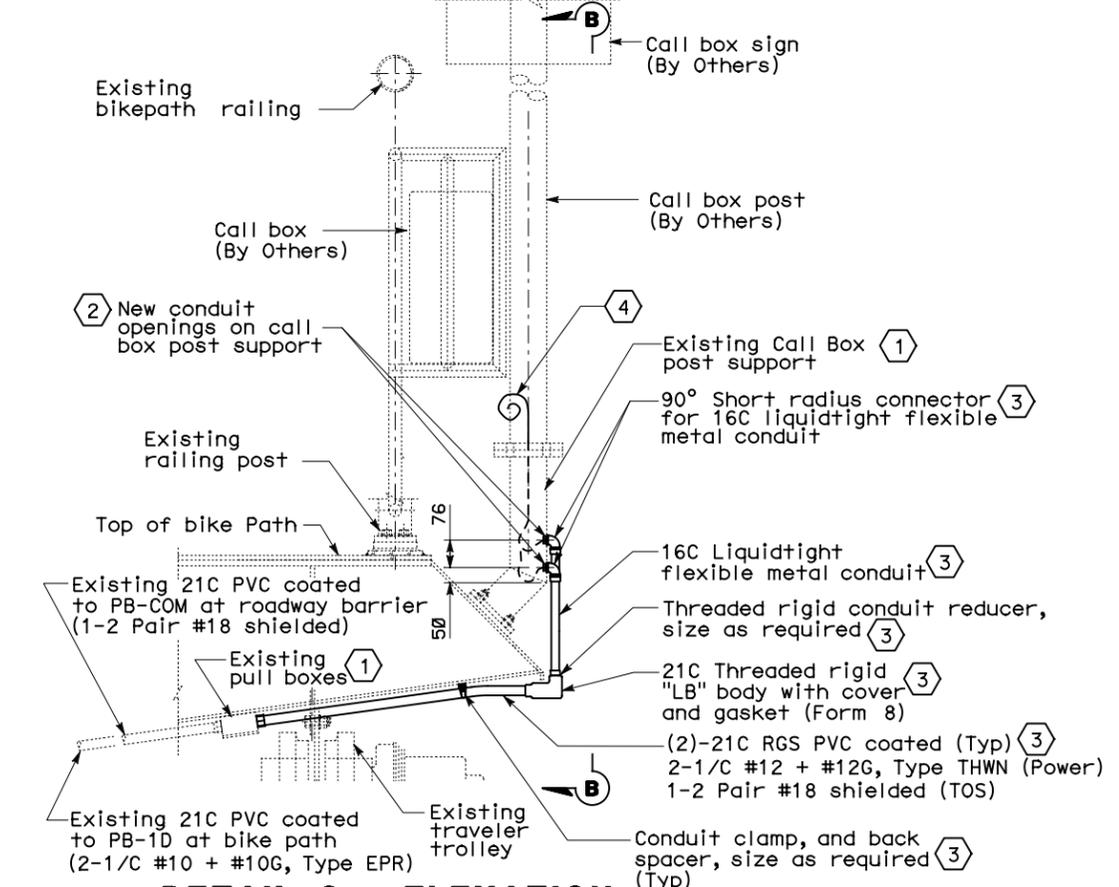
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04	SF	80	13.2/13.9		210	1204
			10/28/10			
REGISTERED ELECTRICAL ENGINEER DATE						
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PB AMERICAS, Inc. A Parsons Brinckerhoff Company 303 Second St., Suite 700N San Francisco, CA 94107-1317						
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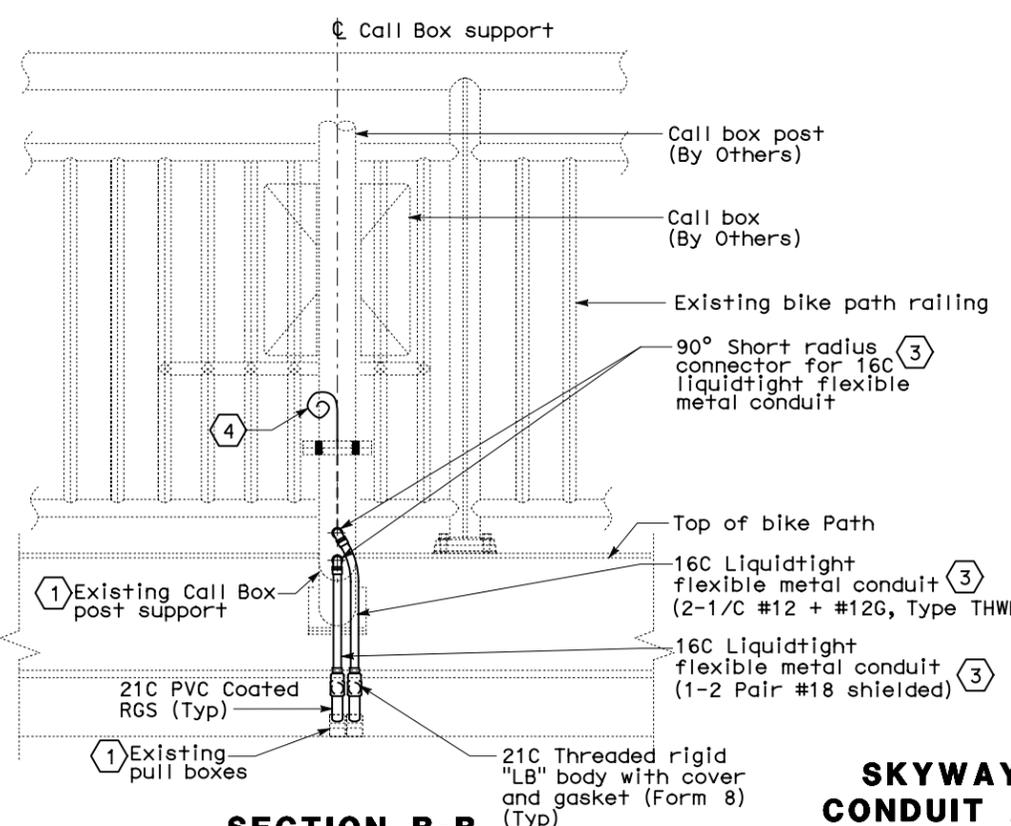
**DETAIL 1 - ELEVATION**  
CALL BOX AT BELVEDERE  
SCALE 1:10



**SECTION A-A**  
SCALE 1:10



**DETAIL 2 - ELEVATION**  
CALL BOX AT BIKE PATH  
SCALE 1:10



**SECTION B-B**  
SCALE 1:10

**SHEET NOTES:**

- 1 Disconnect and remove existing liquidtight flexible metal conduits intended for lighting and Comm. cables between the call box post support and the existing pull box below the bike path girder. Pull back and salvage existing conductors for future use.
- 2 Provide new threaded holes for 16C liquidtight flexible metal conduit on existing call box post support. Plug existing conduit openings using stainless steel threaded plugs.
- 3 Install new conduits and fittings between the call box post support and the respective existing pull boxes (lighting and comm.) located below the bike path girder.
- 4 Contractor shall inspect existing conductors for damage prior to repulling the conductors. Replace damaged conductors with the same type and size. Contractor shall also verify and ensure that there is sufficient length of lighting and Comm. conductor pigtails for future termination to the call box. Seal each conductor end to prevent water from entering the insulation. Pigtails shall be coiled and protected from damage. Provide weatherproof covers for the pigtails and call box supports.

**NOTES:**

1. For call box locations, see plan sheets E-140A through E-140S.
2. All conduit connections shall be watertight.
3. Existing condition shown is diagrammatic and may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE			
0	05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW RG 163
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REVISIONS			

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

**DETAILS**  
**SKYWAY ROADWAY EASTBOUND**  
**CONDUIT AND PULL BOX LOCATIONS**  
SCALE AS NOTED

**E-165L**

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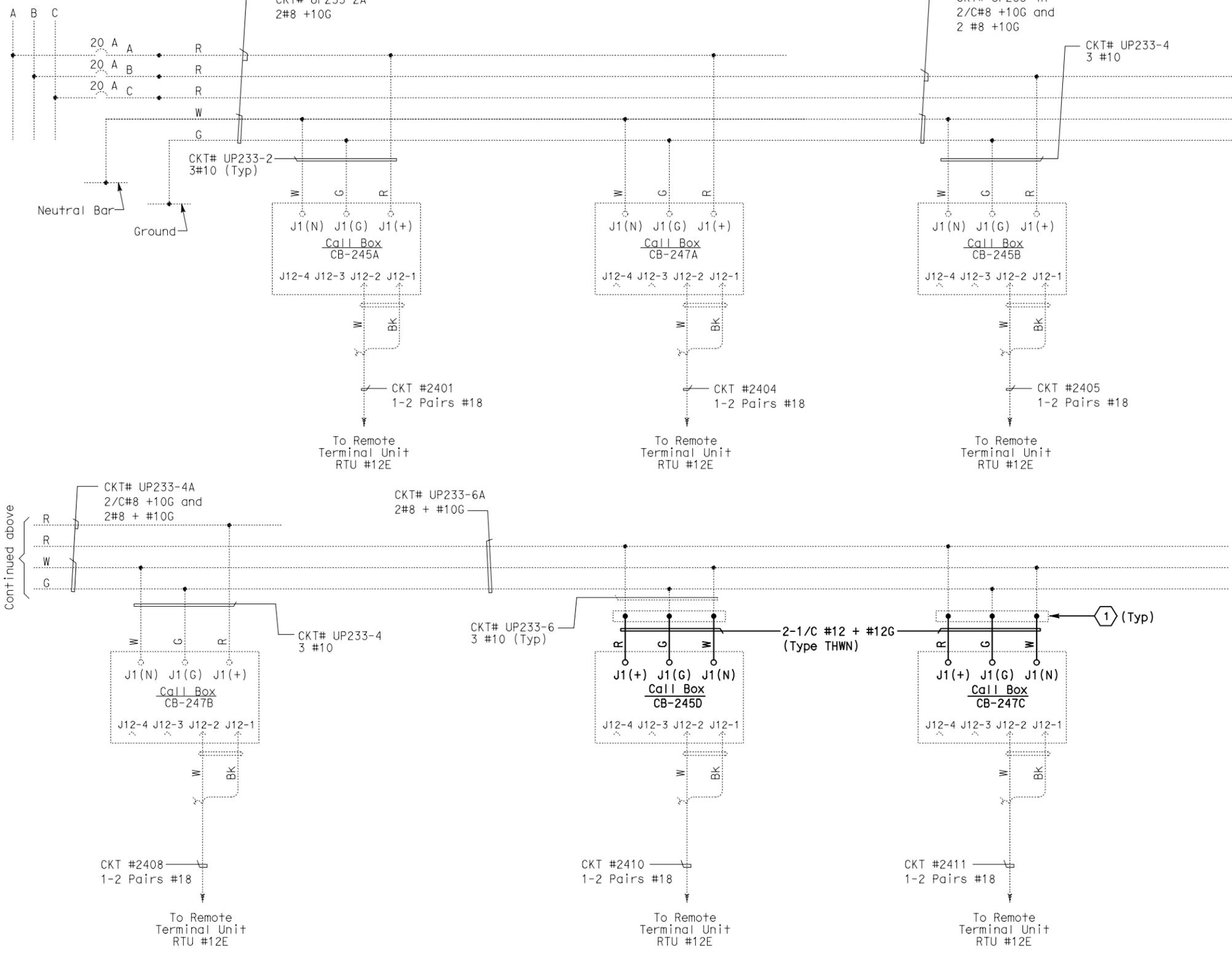
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
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REVISIONS: [Grid with columns for DATE, REVISION BY, DATE, REVISION BY]

DATE PLOTTED => 10-MAY-2011  
TIME PLOTTED => 16:44  
LAST REVISION 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT  
 BEHZAD GOLEHAMMADI

Utility Panel UP-233  
 208/120 V, 3 Phase



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, Ala	80	13.2	13.9	35551	1204

REGISTERED ELECTRICAL ENGINEER  
 SYN YEE CHIN  
 No. 18186  
 Exp. 09/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

10/28/10  
 REGISTERED ELECTRICAL ENGINEER DATE

PLANS APPROVAL DATE

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Continued below

**SHEET NOTES:**

- 1 Existing pull box mounted below bikepath. See Details on sheet E-165L.

**NOTES:**

- This sheet is a record drawing from Skyway structure. Existing condition shown may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-338 from Skyway Structures, contract No. 04-012024.
- Unless shown in bold, everything else shown was part of Skyway Contract.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
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MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

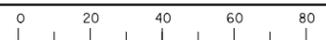
CONTRACT CHANGE ORDER NO. \_\_\_\_\_  
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**SKYWAY ROADWAY LEVEL EASTBOUND  
 CALL BOX WIRING DIAGRAM**  
 NO SCALE

**E-400A**

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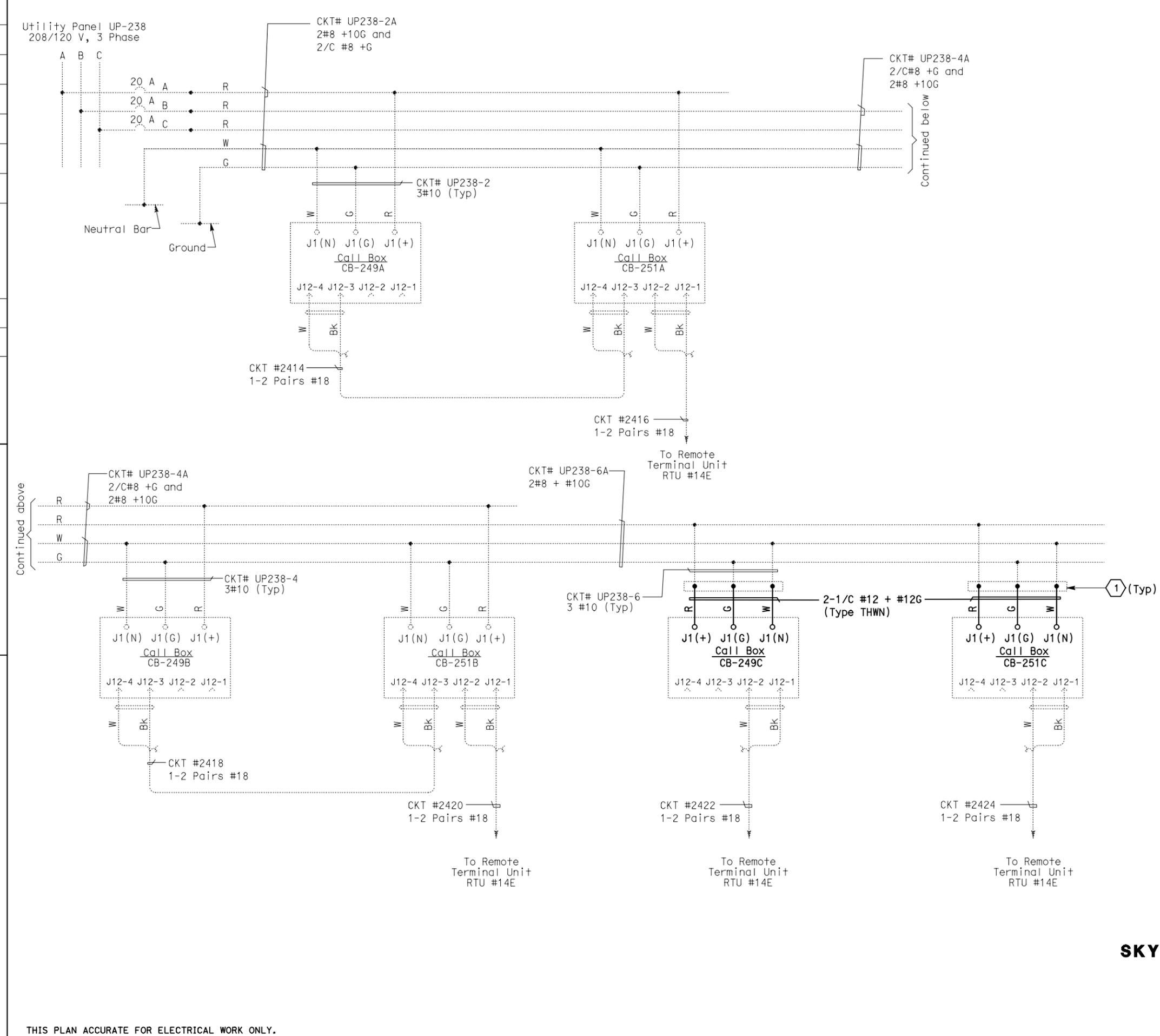
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF, Alameda	80	13.2 / 13.9	35552	1204	

Registered Professional Engineer  
**Syn Yee Chin**  
 No. 18186  
 Exp. 09/30/2011  
 ELECTRICAL  
 STATE OF CALIFORNIA

REGISTERED ELECTRICAL ENGINEER DATE: 10/28/10  
 PLANS APPROVAL DATE: \_\_\_\_\_  
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**SHEET NOTES:**

- 1 Existing pull box mounted below bikepath. See Details on sheet E-165L.

**NOTES:**

- This sheet is a record drawing from Skyway structure. Existing condition shown may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-339 from Skyway Structures, contract No. 04-012024.
- Unless shown in bold, everything else shown was part of Skyway Contract.

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REVISIONS					

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

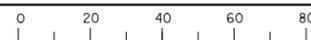
**SKYWAY ROADWAY LEVEL EASTBOUND  
 CALL BOX WIRING DIAGRAM**

NO SCALE

**E-400B**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS



DGN FILE => 04-0120f1\_0355S02.dgn  
 USERNAME => ilorico

CU 04251

EA 0120F1

DATE PLOTTED => 10-MAY-2011  
 TIME PLOTTED => 16:44  
 LAST REVISION 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN OVERSIGHT  
 BEHZAD GOLEHAMMADI

Utility Panel UP-242  
 208/120 V, 3 Phase



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF,Ala	80	13.2 / 13.9	355S3	1204	

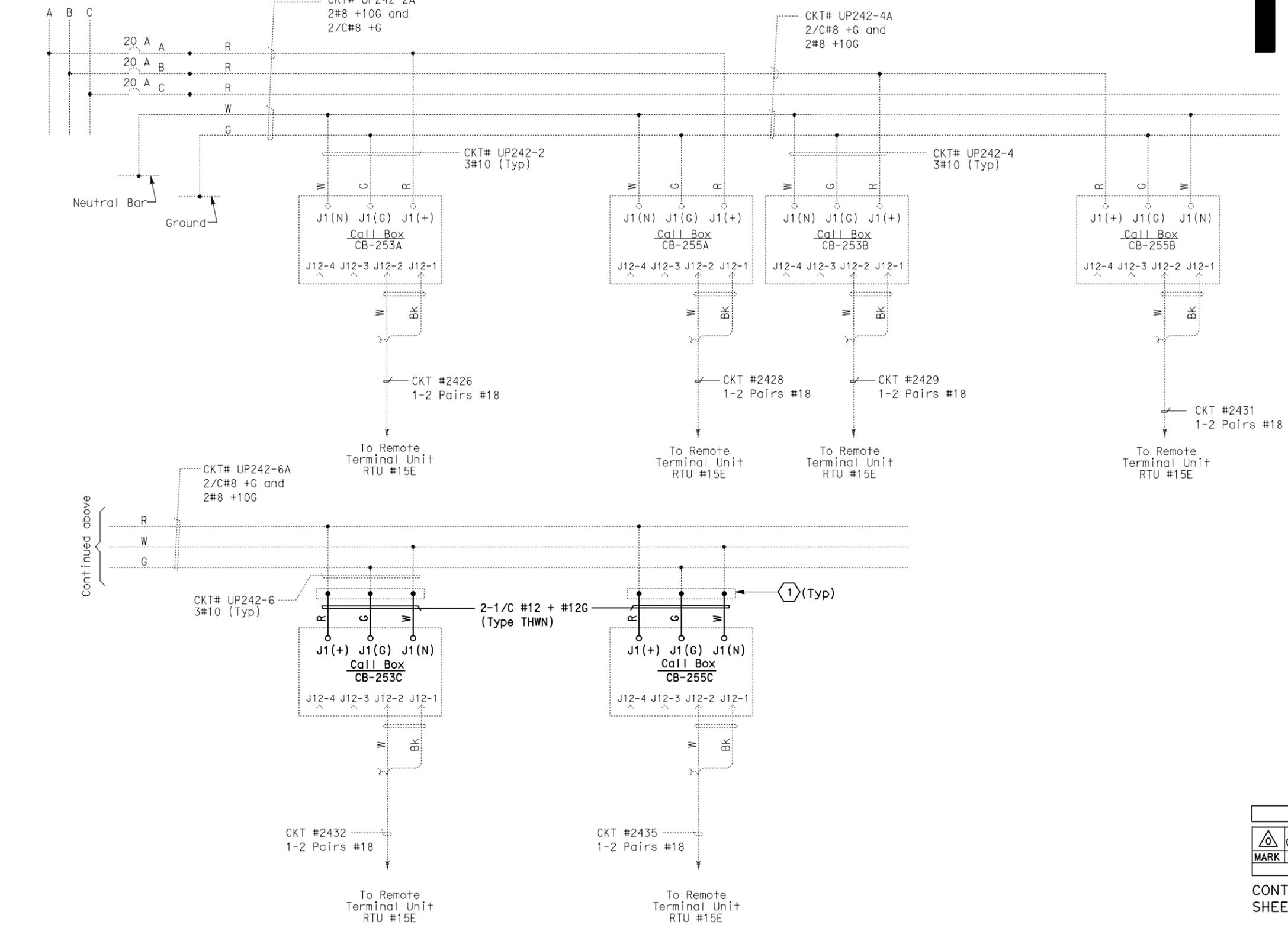
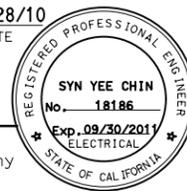
REGISTERED ELECTRICAL ENGINEER  
 SIGNATURE: *Syn Yee Chin*  
 DATE: 10/28/10

PLANS APPROVAL DATE

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

*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

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



Continued below

Continued above

**SHEET NOTES:**

- 1 Existing pull box mounted below bikepath. See Details on sheet E-165L.

**NOTES:**

- This sheet is a record drawing from Skyway structure. Existing condition shown may not completely reflect the actual as-built condition. Contractor to verify as-built prior to commencing the required modification. See Sheet EE-340 from Skyway Structures, contract No. 04-012024.
- Unless shown in bold, everything else shown was part of Skyway Contract.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
05/06/11	MEP INTEGRATION REV. & UPGRADES TO SYSTEMS	TW	RG	163	
MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
REVISIONS					

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

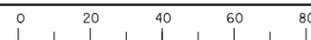
**SKYWAY ROADWAY LEVEL EASTBOUND  
 CALL BOX WIRING DIAGRAM**

NO SCALE

**E-400C**

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

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