

INDEX OF PLANS

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

**WILSON CREEK BRIDGE AND ON ROUTE 215 AT JUNCTION 10/215**

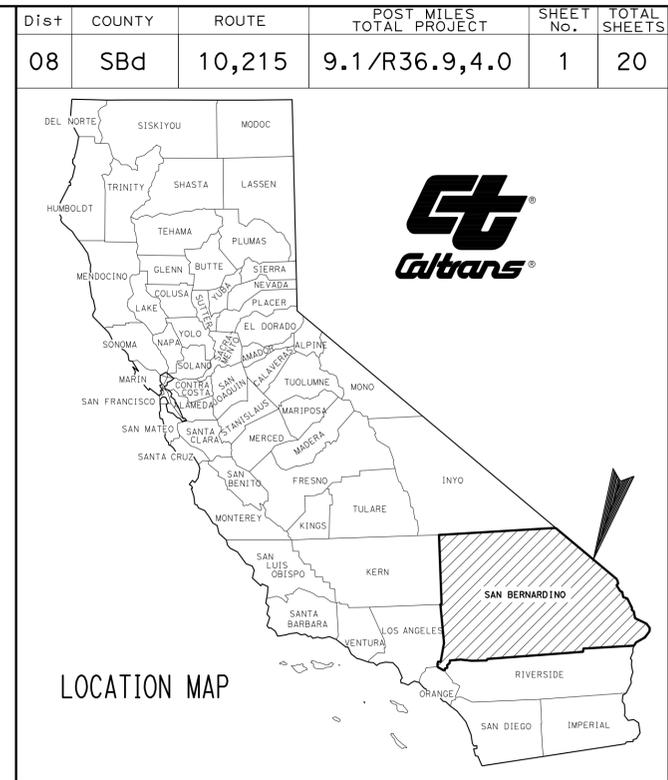
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**

**BRIM-010-2(258)57E**

**PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY**

**IN SAN BERNARDINO COUNTY EAST OF ONTARIO AT VARIOUS LOCATIONS FROM MILLIKEN AVENUE OVERCROSSING TO**

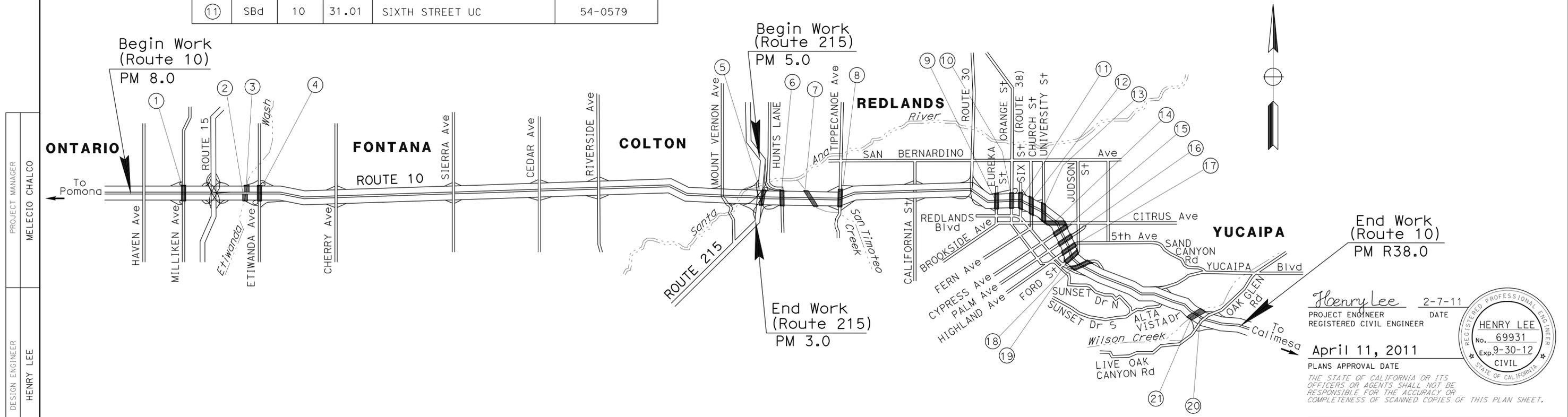


LOCATIONS OF CONSTRUCTION

LOC	COUNTY	ROUTE	PM	NAME OF BRIDGE	BRIDGE NUMBER
①	SBd	10	9.17	MILLIKEN AVENUE OC	54-0539
②	SBd	10	10.99	ETIWANDA WASH	54-0378L
③	SBd	10	10.99	ETIWANDA WASH	54-0378R
④	SBd	10	11.13	ETIWANDA AVENUE OC	54-0463
⑤	SBd	215	4.03	INTERSTATE 215 NB/10 SEP	54-0479R
⑥	SBd	10	24.76	HUNTS LANE UC	54-0601
⑦	SBd	10	25.54	SAN TIMOTEO CREEK	54-0599
⑧	SBd	10	26.27	TIPPECANOE AVENUE UC	54-0598
⑨	SBd	10	30.66	EUREKA STREET UC	54-0580
⑩	SBd	10	30.88	INTERSTATE 10/RTE 38 SEP	54-0581
⑪	SBd	10	31.01	SIXTH STREET UC	54-0579

LOCATIONS OF CONSTRUCTION

LOC	COUNTY	ROUTE	PM	NAME OF BRIDGE	BRIDGE NUMBER
⑫	SBd	10	31.41	CHURCH STREET UC	54-0578
⑬	SBd	10	31.87	UNIVERSITY STREET UC	54-0582
⑭	SBd	10	31.99	CITRUS AVENUE UC	54-0584
⑮	SBd	10	32.11	CYPRESS AVENUE UC	54-0585
⑯	SBd	10	32.36	PALM AVENUE UC	54-0586
⑰	SBd	10	32.61	HIGHLAND AVENUE UC	54-0587
⑱	SBd	10	33.13	FORD STREET UC	54-0588
⑲	SBd	10	33.29	REDLANDS Blvd OFF-RAMP UC	54-0589
⑳	SBd	10	R36.90	WILSON CREEK	54-0648L
㉑	SBd	10	R36.90	WILSON CREEK	54-0648R



PROJECT MANAGER  
MELECIO CHALCO

DESIGN ENGINEER  
HENRY LEE

Henry Lee 2-7-11  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER

April 11, 2011  
PLANS APPROVAL DATE

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



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

NO SCALE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	3	20

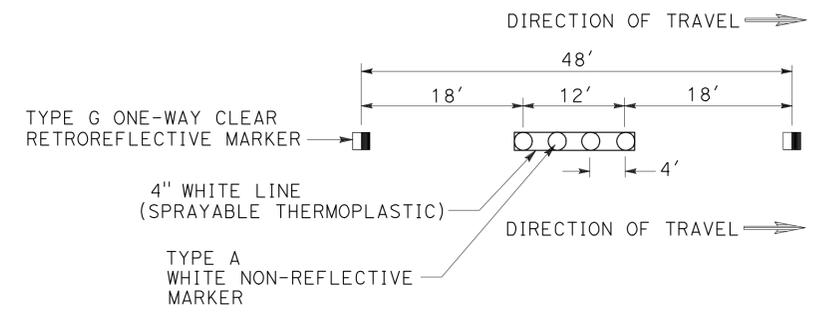
REGISTERED CIVIL ENGINEER DATE 2-7-11  
 4-11-11  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 TRAN HOANG  
 No. 54996  
 Exp. 6-30-12  
 CIVIL

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

### PAVEMENT DELINEATION QUANTITIES

LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	REMOVE THERMOPLASTIC PAVEMENT MARKING		REMOVE THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER				THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING
			WHITE	4"	4"	8"	NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE			4" YELLOW	4" WHITE	8" WHITE		
								A	D	G				H	
			EA	SQFT	LF	LF	EA	EA			LF			SQFT	
BRIDGE No. 54-0539, PM 9.17, MILLIKEN Ave OC NB	22	56	-	630	-	-	-	56	-	-	630	-	-	-	
	13M	225	-	-	1890	-	180	-	45	-	-	1890	-	-	
	27B	-	-	-	630	-	-	-	-	-	630	-	-	-	
	38	58	-	-	-	2620	-	58	-	-	-	1310	-	-	
	TYPE IV(L) ARROW	-	90	-	-	-	-	-	-	-	-	-	90	-	
	TYPE IV(R) ARROW	-	30	-	-	-	-	-	-	-	-	-	-	30	
BRIDGE No. 54-0539, PM 9.17, MILLIKEN Ave OC SB	13M	210	-	-	1770	-	168	-	42	-	-	1770	-	-	
	27B	-	-	-	630	-	-	-	-	-	630	-	-	-	
	38	6	-	-	-	200	-	6	-	-	-	100	-	-	
	TYPE IV(R) ARROW	-	30	-	-	-	-	-	-	-	-	-	30	-	
BRIDGE No. 54-0378L, PM 10.99 ETIWANDA WASH WB	25	8	-	291	-	-	-	-	-	8	291	-	-	-	
	13M	120	-	-	873	-	96	-	24	-	-	873	-	-	
	27B	-	-	-	582	-	-	-	-	-	582	-	-	-	
	36A	14	-	-	-	582	-	14	-	-	-	291	-	-	
	37	16	-	-	-	400	-	16	-	-	-	200	-	-	
BRIDGE No. 54-0378R, PM 10.99 ETIWANDA WASH EB	8	-	-	-	91	-	-	-	-	-	91	-	-	-	
	25	8	-	291	-	-	-	-	-	8	291	-	-	-	
	13M	120	-	-	873	-	96	-	24	-	-	873	-	-	
	27B	-	-	-	582	-	-	-	-	-	582	-	-	-	
BRIDGE No. 54-0479R, PM4.03 INTERSTATE 215NB/10SEP	25A	14	-	291	-	-	-	-	14	-	291	-	-	-	
	25	12	-	510	-	-	-	-	12	510	-	-	-	-	
	13M	120	-	-	1020	-	96	-	24	-	-	1020	-	-	
	27B	-	-	-	550	-	-	-	-	-	-	550	-	-	
	36	28	-	-	-	620	-	28	-	-	-	310	-	-	
BRIDGE No. 54-0599R, PM25.54 SAN TIMOTEO CREEK EB	25A	12	-	250	-	-	-	-	12	250	-	-	-	-	
	25	11	-	457	-	-	-	-	11	457	-	-	-	-	
	13M	165	-	-	1311	-	132	-	33	-	-	1311	-	-	
	27B	-	-	-	612	-	-	-	-	-	-	612	-	-	
BRIDGE No. 54-0599L, PM25.54 SAN TIMOTEO CREEK WB	36A	9	-	-	-	350	-	9	-	-	-	175	-	-	
	37	20	-	-	-	524	-	20	-	-	-	262	-	-	
	25	11	-	437	-	-	-	-	11	437	-	-	-	-	
BRIDGE No. 54-0598, PM26.27 TIPPECANOE Ave UC EB	13M	165	-	-	1311	-	132	-	33	-	-	1311	-	-	
	27B	-	-	-	437	-	-	-	-	-	-	437	-	-	
	25	10	-	412	-	-	-	-	10	412	-	-	-	-	
BRIDGE No. 54-0598, PM26.27 TIPPECANOE Ave UC WB	13M	150	-	-	1236	-	120	-	30	-	-	1236	-	-	
	27B	-	-	-	412	-	-	-	-	-	-	412	-	-	
	HATCHING	-	90	-	-	-	-	-	-	-	-	-	90	-	
	25	10	-	412	-	-	-	-	10	412	-	-	-	-	
BRIDGE No. 54-0581, PM 30.88 RTE 10/38 SEP EB	13M	150	-	-	1236	-	120	-	30	-	-	1236	-	-	
	27B	-	-	-	412	-	-	-	-	-	-	412	-	-	
	25	10	-	430	-	-	-	-	10	430	-	-	-	-	
BRIDGE No. 54-0581, PM 30.88 RTE 10/38 SEP WB	13M	150	-	-	1290	-	120	-	30	-	-	1290	-	-	
	27B	-	-	-	430	-	-	-	-	-	-	430	-	-	
	25	10	-	430	-	-	-	-	10	430	-	-	-	-	
SUBTOTAL		1898	240	4841	18178	5296	1260	56	466	116	4841	18178	2648	240	
TOTAL (SHEET 1)		1898	240	4841	23474		1260		638		25667		240		



DETAIL 13 MODIFIED (13M)

INSTALL TYPE A NON-REFLECTIVE MARKER WITH STRIPING DETAIL 13M  
 INSTALL TYPE A MARKER BEFORE STRIPING TO GET THE PROPER BONDING

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN B  
 FUNCTIONAL SUPERVISOR LARRY SARTORI  
 CALCULATED/DESIGNED BY CHECKED BY  
 VU TRAN TRAN HOANG  
 REVISED BY DATE REVISED  
 x x x x

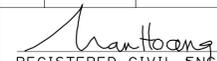
## PAVEMENT DELINEATION QUANTITIES

NO SCALE PDQ-1

LAST REVISION DATE PLOTTED => 15-APR-2011 02-07-11 TIME PLOTTED => 06:13

**PAVEMENT DELINEATION QUANTITIES**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	4	20

 2-7-11  
 REGISTERED CIVIL ENGINEER DATE

4-11-11  
 PLANS APPROVAL DATE

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LOCATION	DETAIL No. OR PAVEMENT MARKING	REMOVE PAVEMENT MARKERS	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER				THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			THERMOPLASTIC PAVEMENT MARKING
				WHITE	YELLOW		NON-REFLECTIVE TYPE	RETROREFLECTIVE TYPE			4" YELLOW	4" WHITE	8" WHITE	
					4"	4"		8"	A	D				
				EA	SQFT	LF	LF	EA	EA	EA	EA	EA	EA	
	13M	180	-	-	1490	-	126	-	54	-	-	1490	-	-
	27B	-	-	-	570	-	-	-	-	-	-	570	-	-
	36A	3	-	-	-	300	-	-	3	-	-	-	150	-
BRIDGE No. 54-0579L, PM 31.01 SIXTH STREET UC WB	25	10	-	394	-	-	-	-	10	394	-	-	-	-
	13M	150	-	-	1182	-	120	-	30	-	-	1182	-	-
	27B	-	-	-	394	-	-	-	-	-	-	394	-	-
BRIDGE No. 54-0579R, PM 31.01 SIXTH STREET UC EB	25	10	-	394	-	-	-	-	10	394	-	-	-	-
	13M	150	-	-	1182	-	120	-	30	-	-	1182	-	-
	27B	-	-	-	394	-	-	-	-	-	-	394	-	-
BRIDGE No. 54-0578L, PM 31.41 CHURCH STREET UC WB	25	11	-	435	-	-	-	-	11	435	-	-	-	-
	13M	165	-	-	1305	-	132	-	33	-	-	1305	-	-
	27B	-	-	-	435	-	-	-	-	-	-	435	-	-
BRIDGE No. 54-0578R, PM 31.41 CHURCH STREET UC EB	25	11	-	435	-	-	-	-	11	435	-	-	-	-
	13M	165	-	-	1305	-	132	-	33	-	-	1305	-	-
	27B	-	-	-	435	-	-	-	-	-	-	435	-	-
BRIDGE No. 54-0582L, PM 31.87 UNIVERSITY St UC WB	25	11	-	435	-	-	-	-	11	435	-	-	-	-
	13M	165	-	-	1305	-	132	-	33	-	-	1305	-	-
	27B	-	-	-	435	-	-	-	-	-	-	435	-	-
BRIDGE No. 54-0582R, PM 31.87 UNIVERSITY St UC EB	25	11	-	435	-	-	-	-	11	435	-	-	-	-
	13M	165	-	-	1305	-	132	-	33	-	-	1305	-	-
	27B	-	-	-	435	-	-	-	-	-	-	435	-	-
BRIDGE No. 54-0584L, PM 31.99 CITRUS Ave UC WB	25	12	-	510	-	-	-	-	12	510	-	-	-	-
	13M	180	-	-	1530	-	144	-	36	-	-	1530	-	-
	27B	-	-	-	510	-	-	-	-	-	-	510	-	-
BRIDGE No. 54-0584R, PM 31.99 CITRUS Ave UC EB	25	12	-	510	-	-	-	-	12	510	-	-	-	-
	13M	180	-	-	1530	-	144	-	36	-	-	1530	-	-
	27B	-	-	-	510	-	-	-	-	-	-	510	-	-
BRIDGE No. 54-0585, PM 32.11 CYPRESS Ave UC	25	20	-	830	-	-	-	-	20	830	-	-	-	-
	13M	300	-	-	2490	-	240	-	60	-	-	2490	-	-
	27B	-	-	-	830	-	-	-	-	-	-	830	-	-
BRIDGE No. 54-0586, PM 32.36 PALM Ave UC	25	20	-	800	-	-	-	-	20	800	-	-	-	-
	13M	300	-	-	2400	-	240	-	60	-	-	2400	-	-
	27B	-	-	-	800	-	-	-	-	-	-	800	-	-
BRIDGE No. 54-0587L, PM 32.61 HIGHLAND Ave UC WB	25	10	-	394	-	-	-	-	10	394	-	-	-	-
	13M	424	-	-	1182	-	394	-	30	-	-	1182	-	-
	27B	-	-	-	394	-	-	-	-	-	-	394	-	-
BRIDGE No. 54-0587R, PM 32.61 HIGHLAND Ave UC EB	25	10	-	394	-	-	-	-	10	394	-	-	-	-
	13M	424	-	-	1182	-	394	-	30	-	-	1182	-	-
	27B	-	-	-	394	-	-	-	-	-	-	394	-	-
BRIDGE No. 54-0588L, PM 33.13 FORD St UC WB	25	10	-	403	-	-	-	-	10	403	-	-	-	-
	13M	150	-	-	1209	-	120	-	30	-	-	1209	-	-
	27B	-	-	-	403	-	-	-	-	-	-	403	-	-
BRIDGE No. 54-0588R, PM 33.13 FORD St UC EB	25	10	-	403	-	-	-	-	10	403	-	-	-	-
	13M	150	-	-	1209	-	120	-	30	-	-	1209	-	-
	27B	-	-	-	403	-	-	-	-	-	-	403	-	-
BRIDGE No. 54-0589, PM 33.29 REDLANDS Blvd OFF-RAMP UC	25	22	-	926	-	-	-	-	22	926	-	-	-	-
	13M	330	-	-	2778	-	264	-	66	-	-	2778	-	-
	27B	-	-	-	926	-	-	-	-	-	-	926	-	-
BRIDGE No. 54-0648L, PM R36.90 WILSON CREEK WB	25	9	-	366	-	-	-	-	9	366	-	-	-	-
	13M	90	-	-	732	-	72	-	18	-	-	732	-	-
	27B	-	-	-	732	-	-	-	-	-	-	732	-	-
	36B	17	-	-	-	732	-	-	17	-	-	-	366	-
BRIDGE NO. 54-0648R, PM R36.90 WILSON CREEK EB	25	9	-	366	-	-	-	-	9	366	-	-	-	-
	13M	90	-	-	732	-	72	-	18	-	-	732	-	-
	27B	-	-	-	366	-	-	-	-	-	-	366	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		3986	-	8430	35414	1032	3098	-	680	208	8430	35414	516	-
TOTAL (SHEET 2)		3986	-	8430	36446		3098		888		44360			-
GRAND TOTAL		5884	240	13291	59920		4358		1526		70027		240	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN B  
 FUNCTIONAL SUPERVISOR LARRY SARTORI  
 VU TRAN TRAN HOANG  
 CALCULATED/DESIGNED BY CHECKED BY  
 REVISED BY DATE REVISED

**PAVEMENT DELINEATION QUANTITIES PDQ-2**

LAST REVISION DATE PLOTTED => 15-APR-2011 02-07-11 TIME PLOTTED => 09:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	5	20

REGISTERED CIVIL ENGINEER *TRAN HOANG* DATE 2-7-11  
 PLANS APPROVAL DATE 4-11-11  
 No. 54996  
 Exp. 6-30-12  
 CIVIL

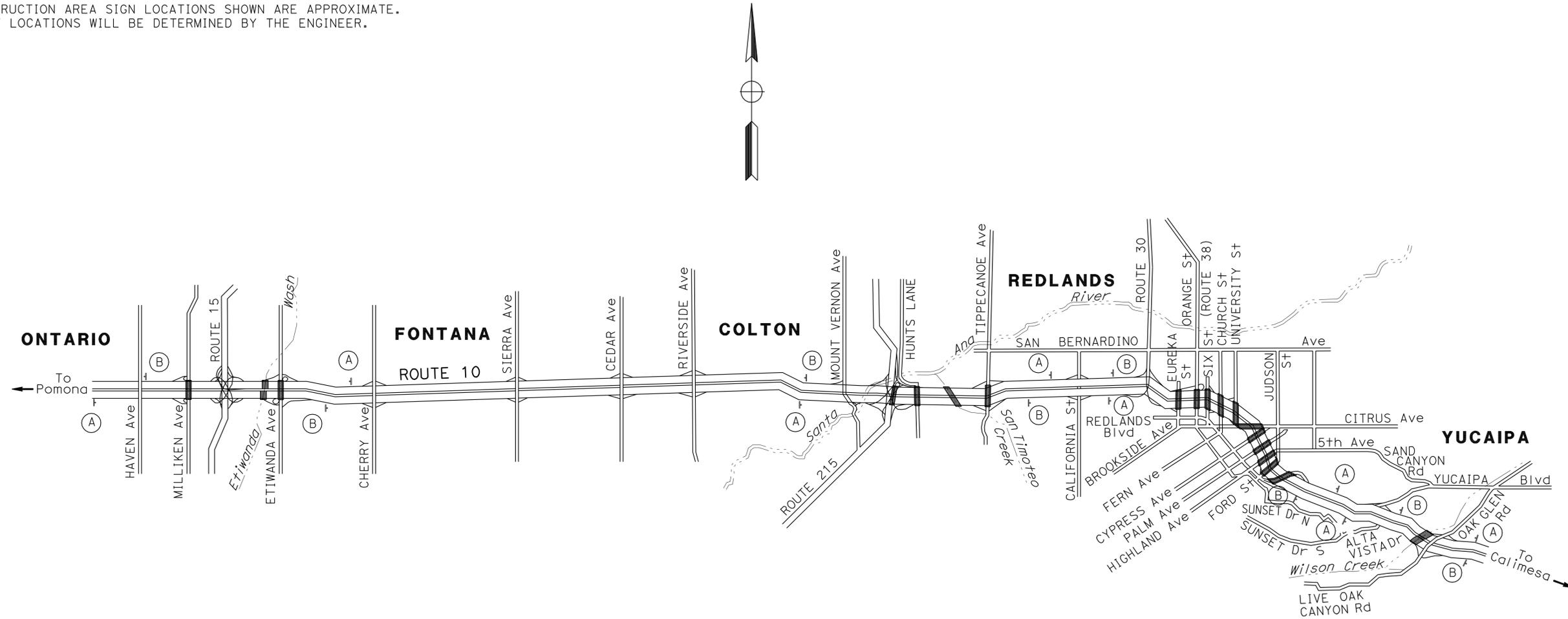
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**LEGEND:**

- ⊥ CONSTRUCTION AREA SIGN (ONE POST)
- ⇨ DIRECTION OF TRAFFIC

**NOTE:**

1. CONSTRUCTION AREA SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.



**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN NUMBER	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
(A)	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	8
(B)	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	8
TOTAL					16

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

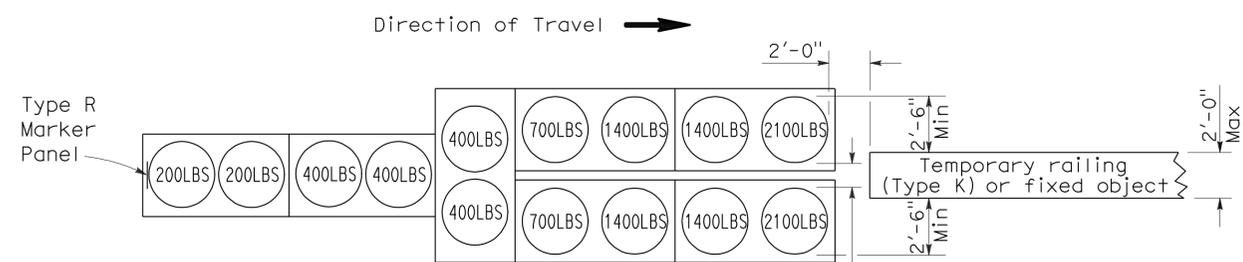
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	6	20

**Randell D. Hiatt**  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

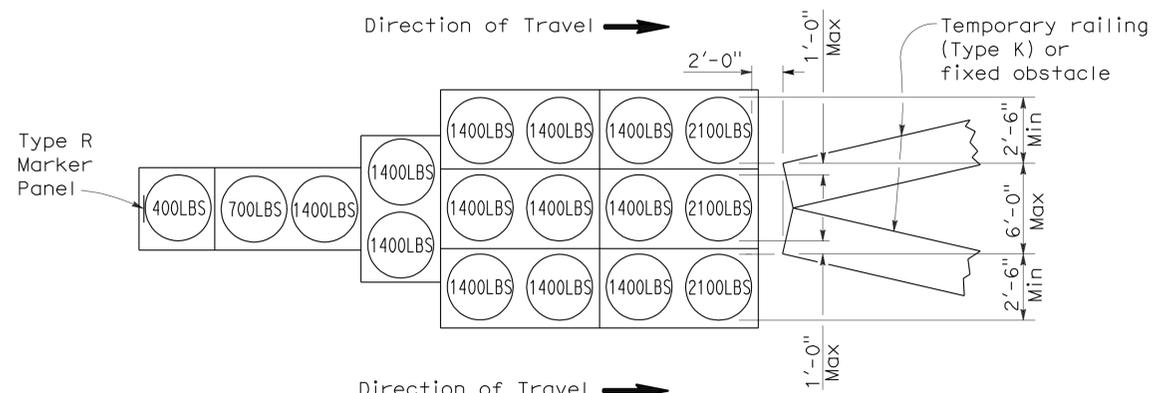
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 4-11-11



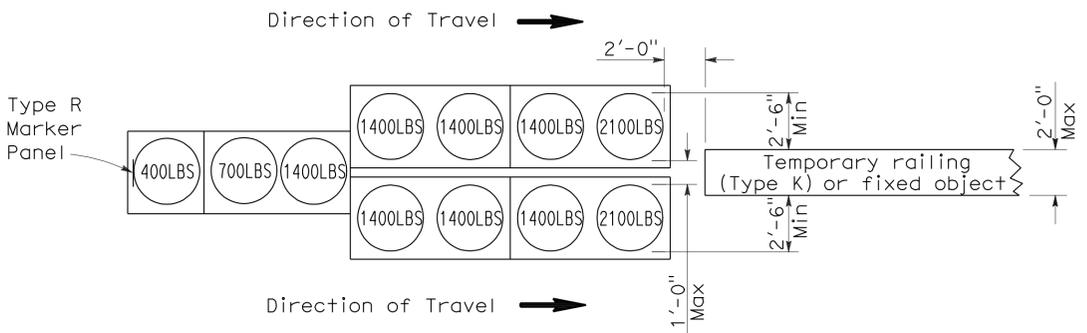
**ARRAY 'TU14'**

Approach speed 45 mph or more



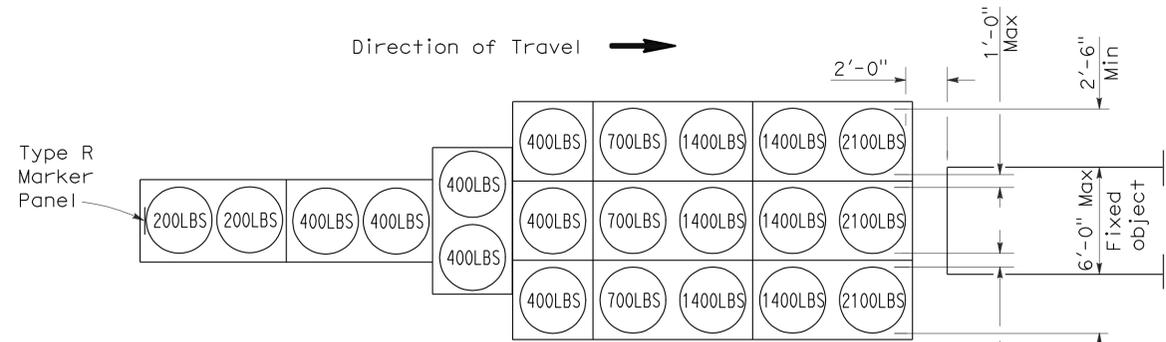
**ARRAY 'TU17'**

Approach speed less than 45 mph



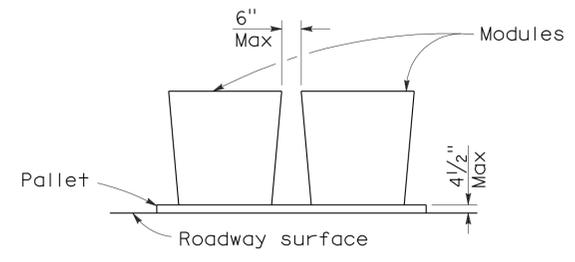
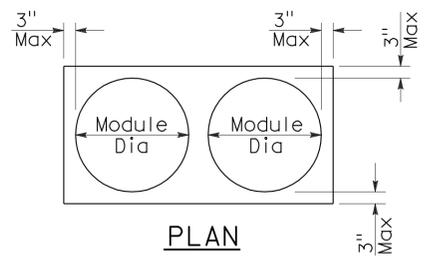
**ARRAY 'TU11'**

Approach speed less than 45 mph



**ARRAY 'TU21'**

Approach speed 45 mph or more



**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A  
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1A**

2006 REVISED STANDARD PLAN RSP T1A

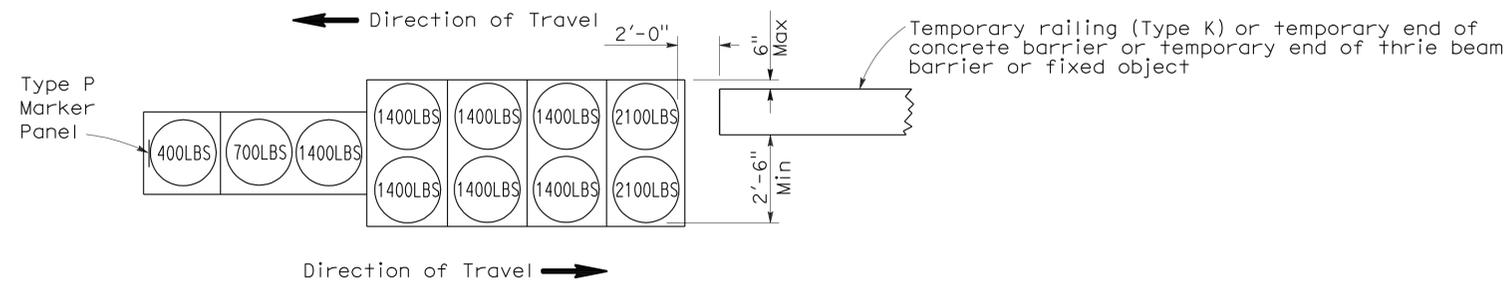
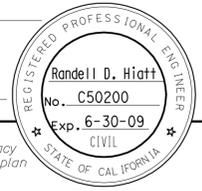
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	7	20

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

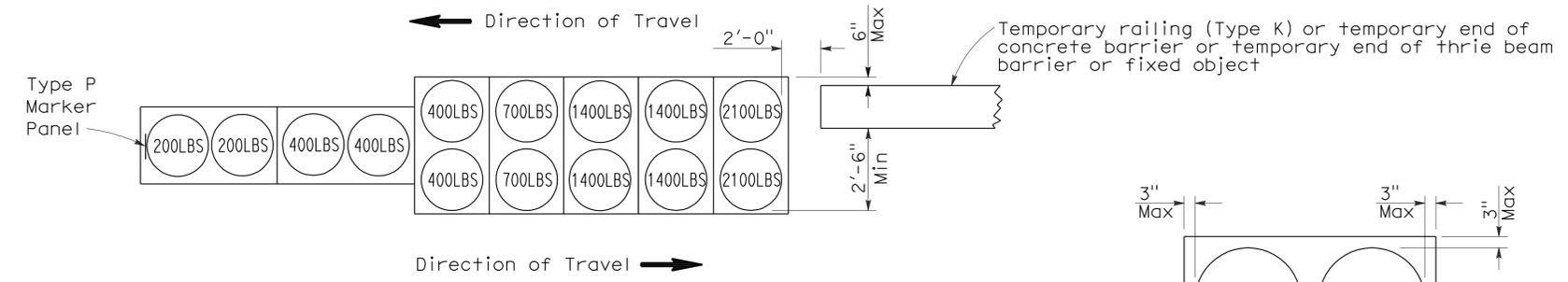
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 4-11-11



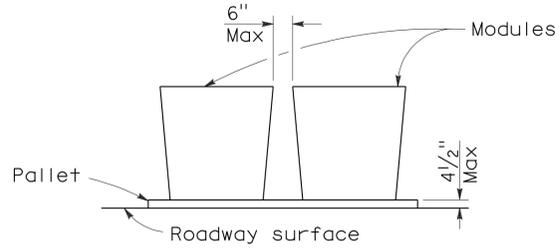
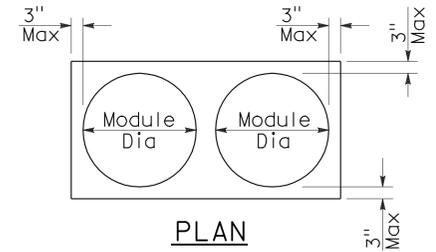
**ARRAY 'TB11'**

Approach speed less than 45 mph



**ARRAY 'TB14'**

Approach speed 45 mph or more



**CRASH CUSHION PALLET DETAIL**  
See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B  
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

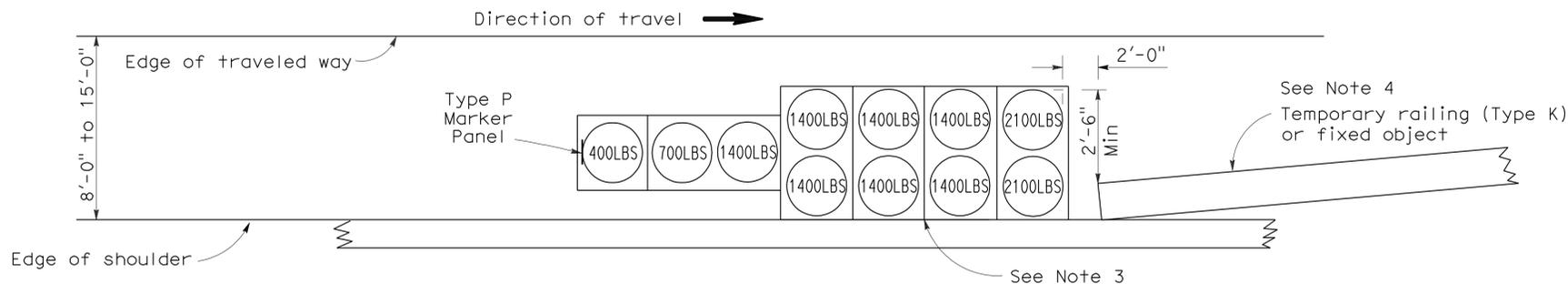
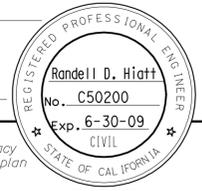
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	8	20

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

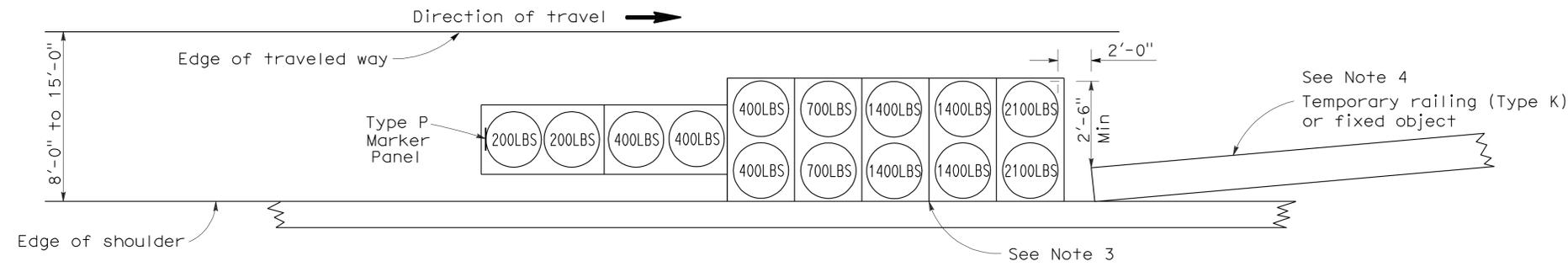
June 6, 2008  
PLANS APPROVAL DATE

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

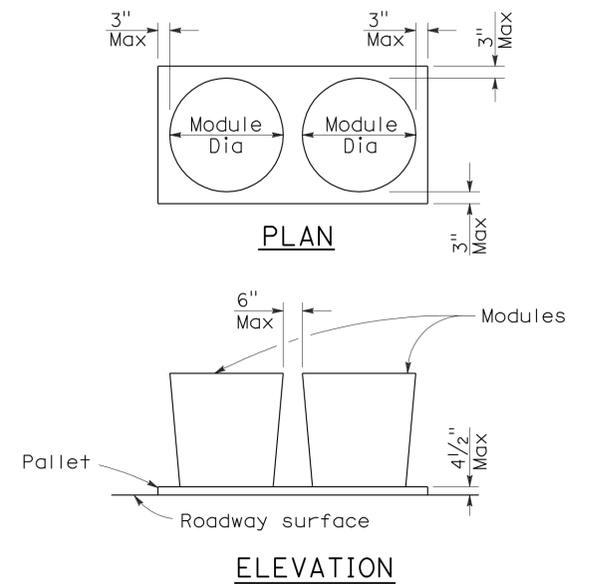
To accompany plans dated 4-11-11



**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



**ARRAY 'TS14'**  
Approach speed 45 mph or more  
See Note 9



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**NOTES:**

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

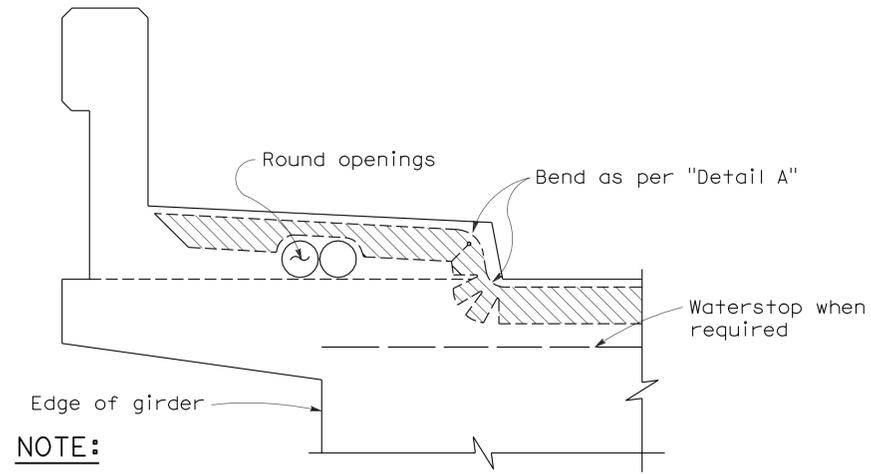
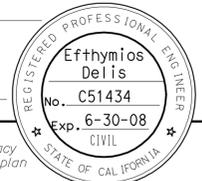
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**

NO SCALE  
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2  
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

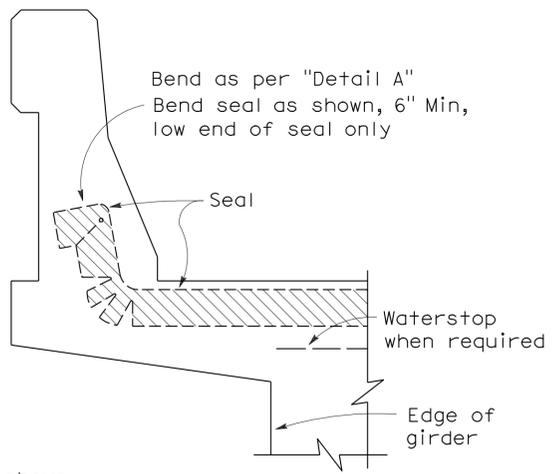
**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

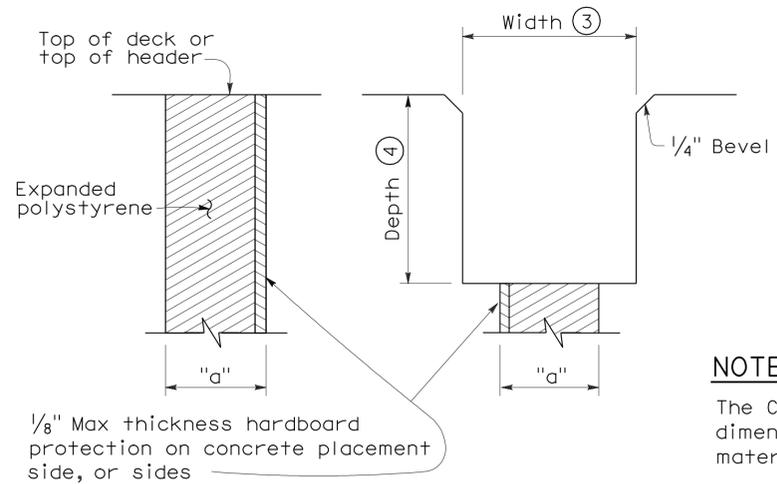


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



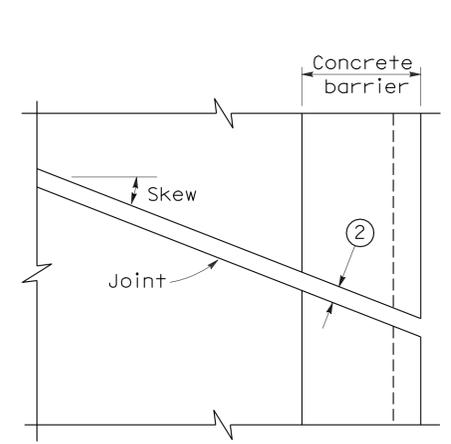
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

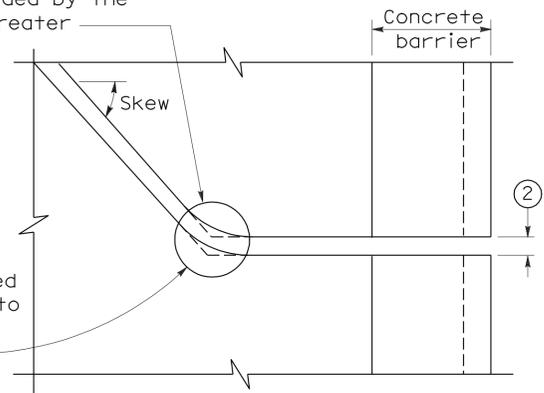
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



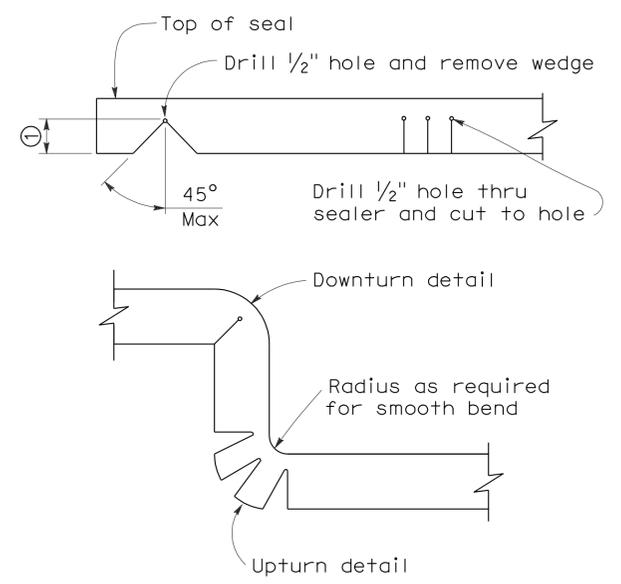
**PLAN OF JOINT (SKEW ≤ 20°)**

Min  $\phi$  radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



**PLAN OF JOINT (SKEW > 20°)**

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



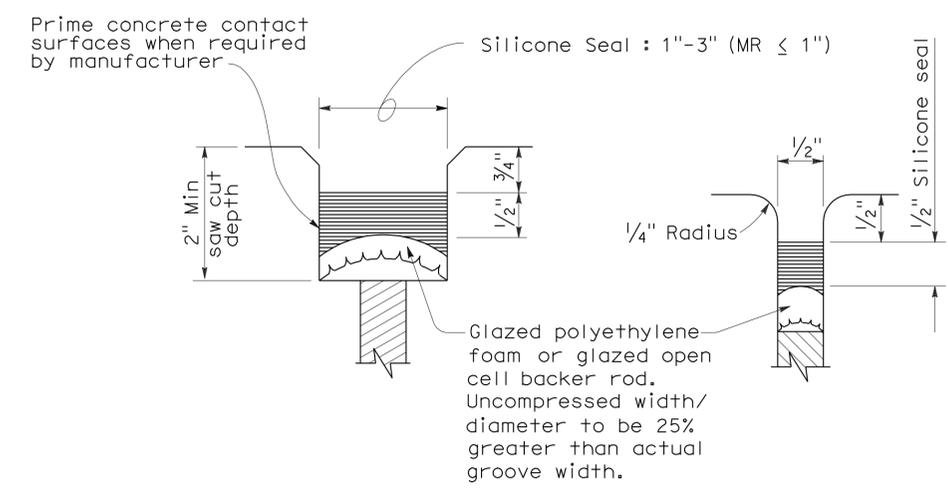
**DETAIL A**

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
  - Opening in barrier to match width of sawn deck joint.
  - Sawcut groove widths shall be as ordered by the Engineer.
  - Depth of sawcut: Type A - Depth to be 2" minimum.  
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W<sub>2</sub>) plus dimensions shown.
  - MR (movement rating) as shown on other plan sheets.
  - Other depths must be approved by the Engineer.

**DIMENSIONS "a" OF JOINT REQUIRED**

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**JOINT SEALS**  
**(MAXIMUM MOVEMENT RATING = 2")**  
 NO SCALE

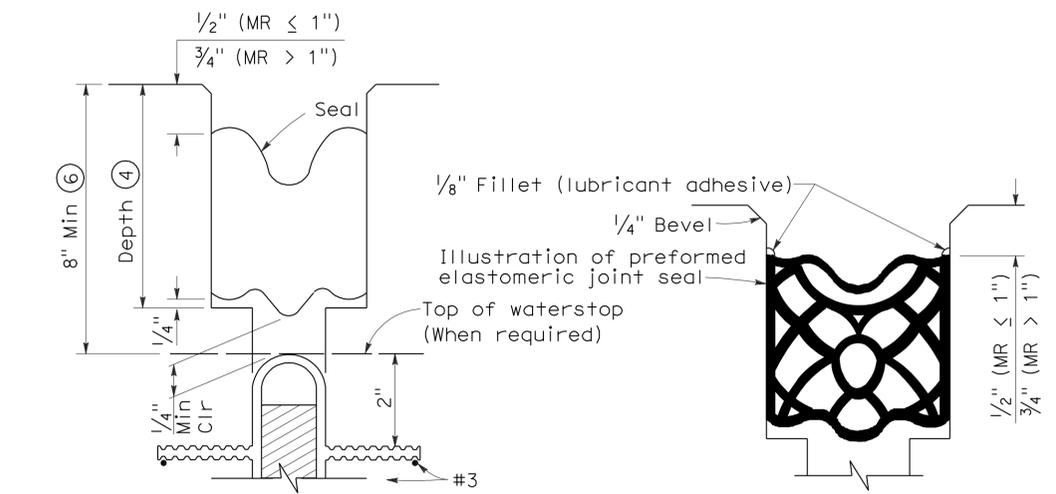


**TYPE A SEAL**

Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



**TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W<sub>2</sub>)**

**TYPE B SEAL**

Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Sbd	10,215	9.1/R36.9,4.0	10	20

Edward Li 08/26/10  
REGISTERED CIVIL ENGINEER DATE  
4-11-11  
PLANS APPROVAL DATE  
No. C56706  
Exp. 06/30/11  
CIVIL  
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.

**INDEX TO PLANS**

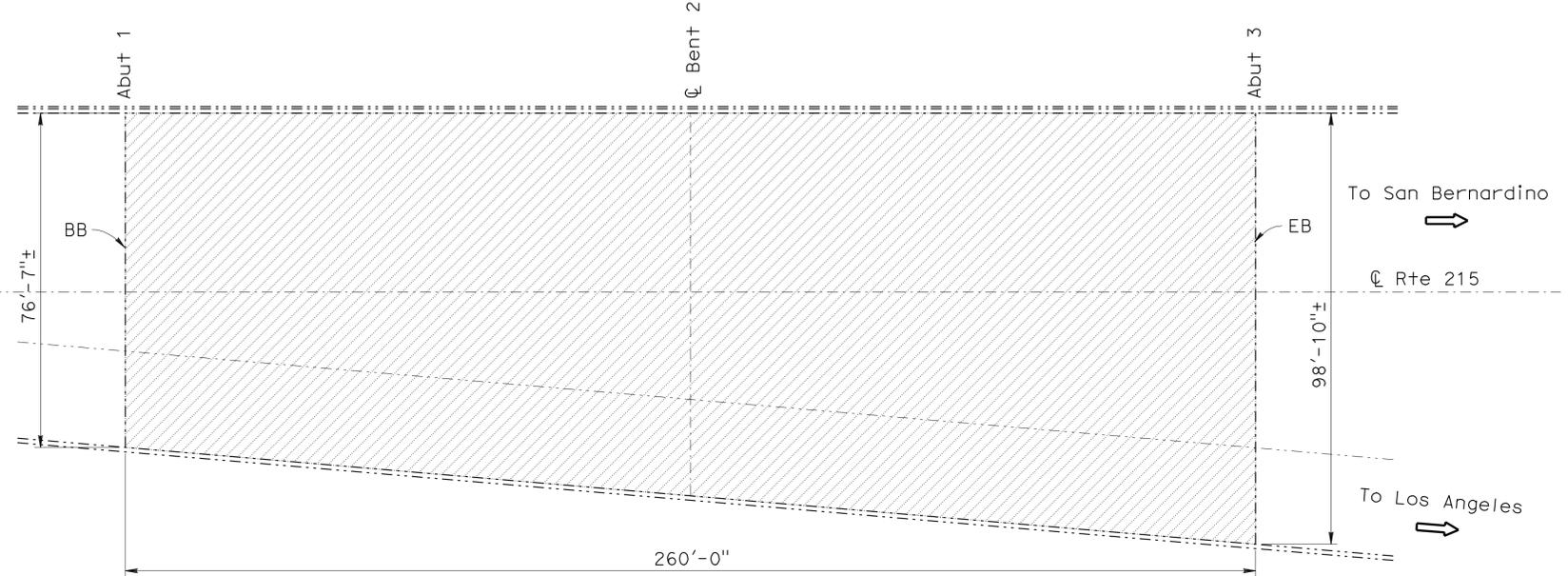
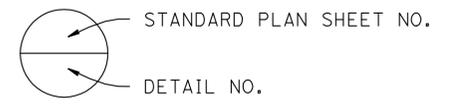
SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	MISCELLANEOUS DETAILS NO. 1
11	MISCELLANEOUS DETAILS NO. 2

**STANDARD PLANS DATED MAY 2006**

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

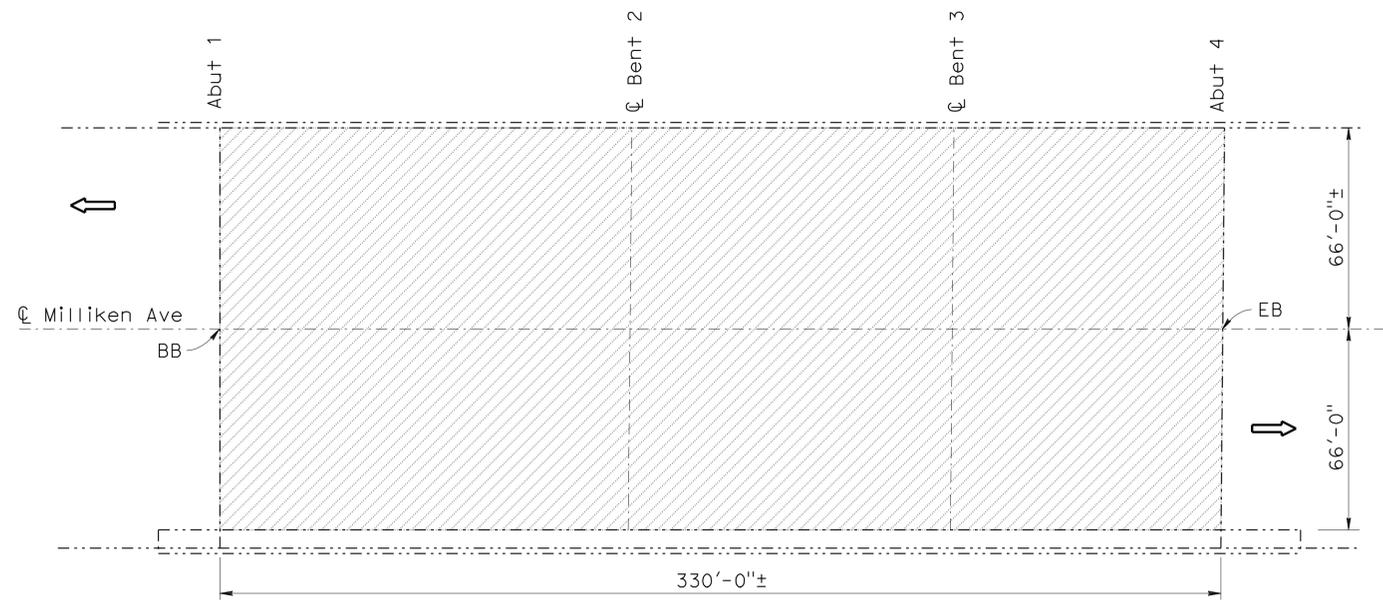
**LEGEND:**

- Indicates existing.
- Indicates direction of traffic.
- /— Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint spalls.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



**INTERSTATE 215/10 SEPARATION**  
Br No. 54-0479R, Rte 215, PM 4.03  
1" = 20'

INTERSTATE 215/10 SEPARATION		BRIDGE NO. 54-0479R	
QUANTITIES			
REMOVE UNSOUND CONCRETE	58	CF	
CLEAN BRIDGE DECK	22,815	SQFT	
RAPID SETTING CONCRETE (PATCH)	58	CF	
TREAT BRIDGE DECK	22,815	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	286	GAL	



**MILLIKEN AVENUE OC**  
Br No. 54-0539, Rte 10, PM 9.17  
1" = 30'

MILLIKEN AVENUE OC		BRIDGE NO. 54-0539	
QUANTITIES			
REMOVE UNSOUND CONCRETE	109	CF	
CLEAN BRIDGE DECK	43,560	SQFT	
RAPID SETTING CONCRETE (PATCH)	109	CF	
TREAT BRIDGE DECK	43,560	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	545	GAL	

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> <b>STRUCTURE MAINTENANCE DESIGN</b>	BRIDGE NO.	<b>ROUTE 10,215 BRIDGES</b> <b>GENERAL PLAN NO. 1</b>	
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			CHECKED Edward Li		POST MILE
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Tanya Kershell			PLANS AND SPECS COMPARED Tanya Kershell		Varies

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 08 EA OP1601 DISREGARD PRINTS BEARING EARLIER REVISION DATES 8-24-10

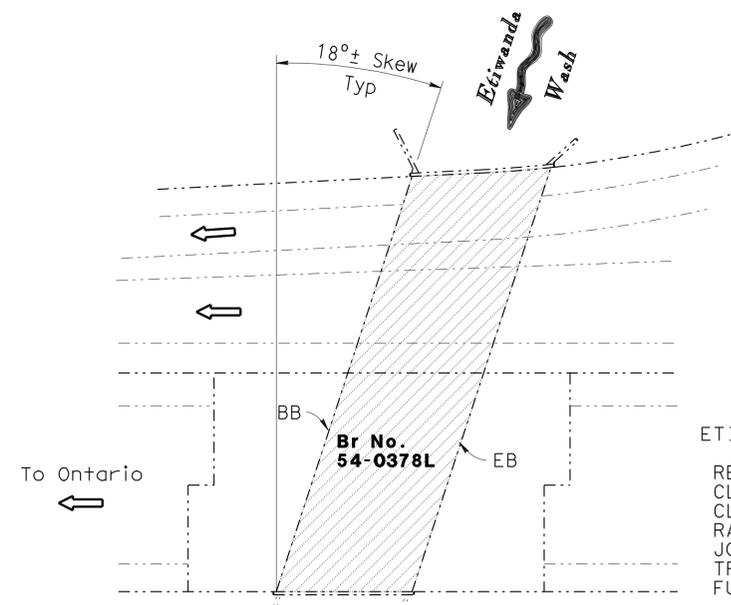
USERNAME => fhmikes DATE PLOTTED => 15-APR-2011 TIME PLOTTED => 06:21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SbD	10,215	9.1/R36.9,4.0	11	20
		Edward Li 08/26/10		REGISTERED CIVIL ENGINEER DATE	
		4-11-11		PLANS APPROVAL DATE	
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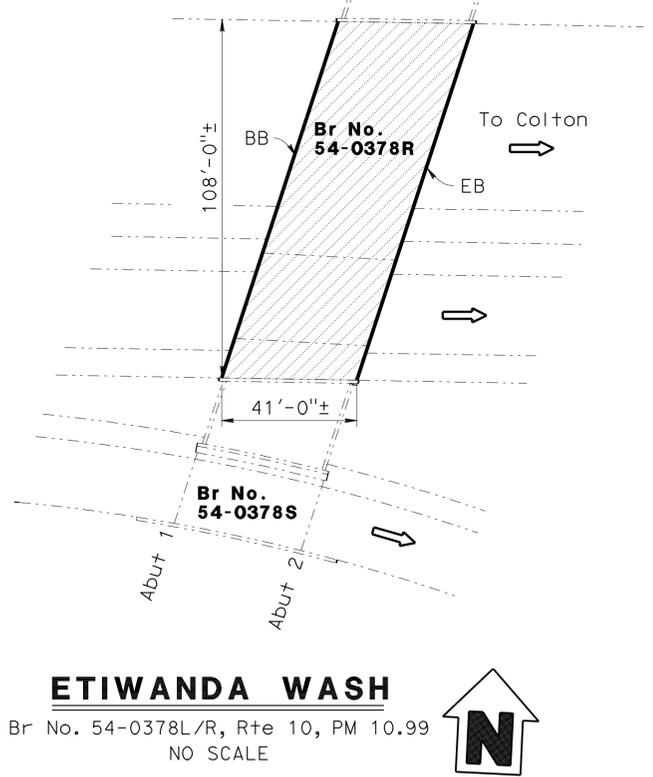
**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
- /— Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint spalls.

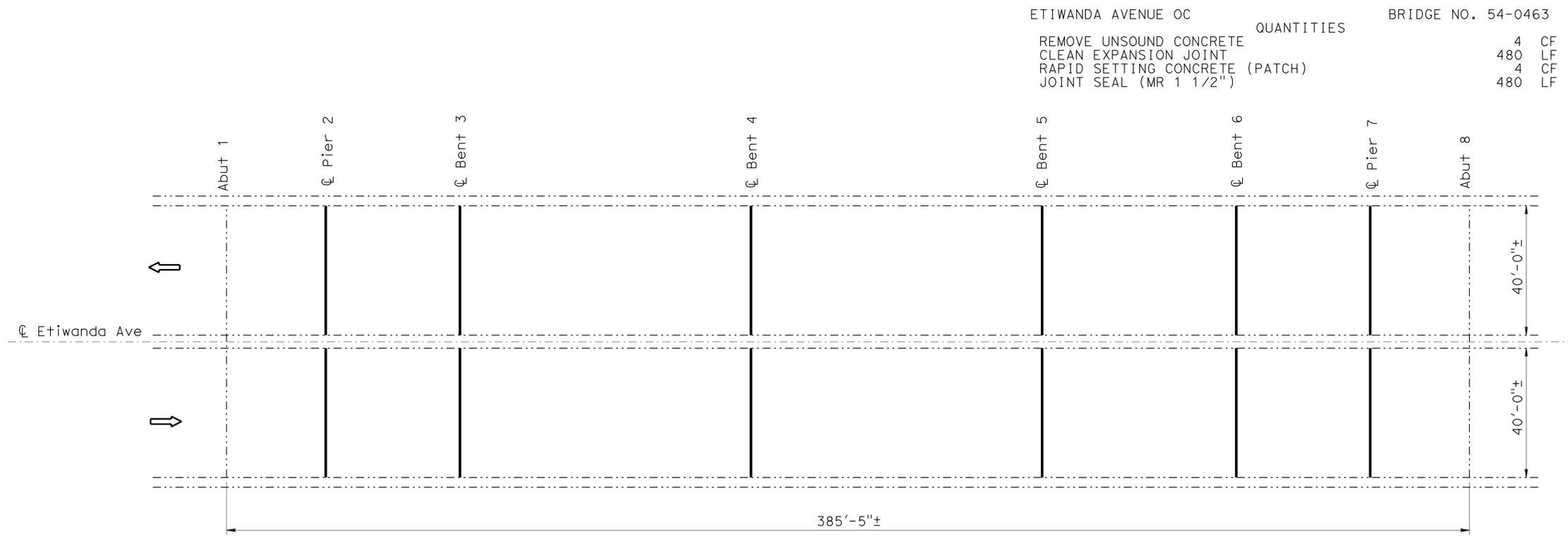


ETIWANDA WASH BRIDGE NO. 54-0378L/R

QUANTITIES		
REMOVE UNSOUND CONCRETE	28	CF
CLEAN BRIDGE DECK	9,706	SQFT
CLEAN EXPANSION JOINT	226	LF
RAPID SETTING CONCRETE (PATCH)	28	CF
JOINT SEAL (MR 1/2")	226	LF
TREAT BRIDGE DECK	9,706	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	122	GAL



**ETIWANDA WASH**  
 Br No. 54-0378L/R, Rte 10, PM 10.99  
 NO SCALE



ETIWANDA AVENUE OC BRIDGE NO. 54-0463

QUANTITIES		
REMOVE UNSOUND CONCRETE	4	CF
CLEAN EXPANSION JOINT	480	LF
RAPID SETTING CONCRETE (PATCH)	4	CF
JOINT SEAL (MR 1 1/2")	480	LF

**ETIWANDA AVENUE OC**  
 Br No. 54-0463, Rte 10, PM 11.13  
 1" = 20'

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

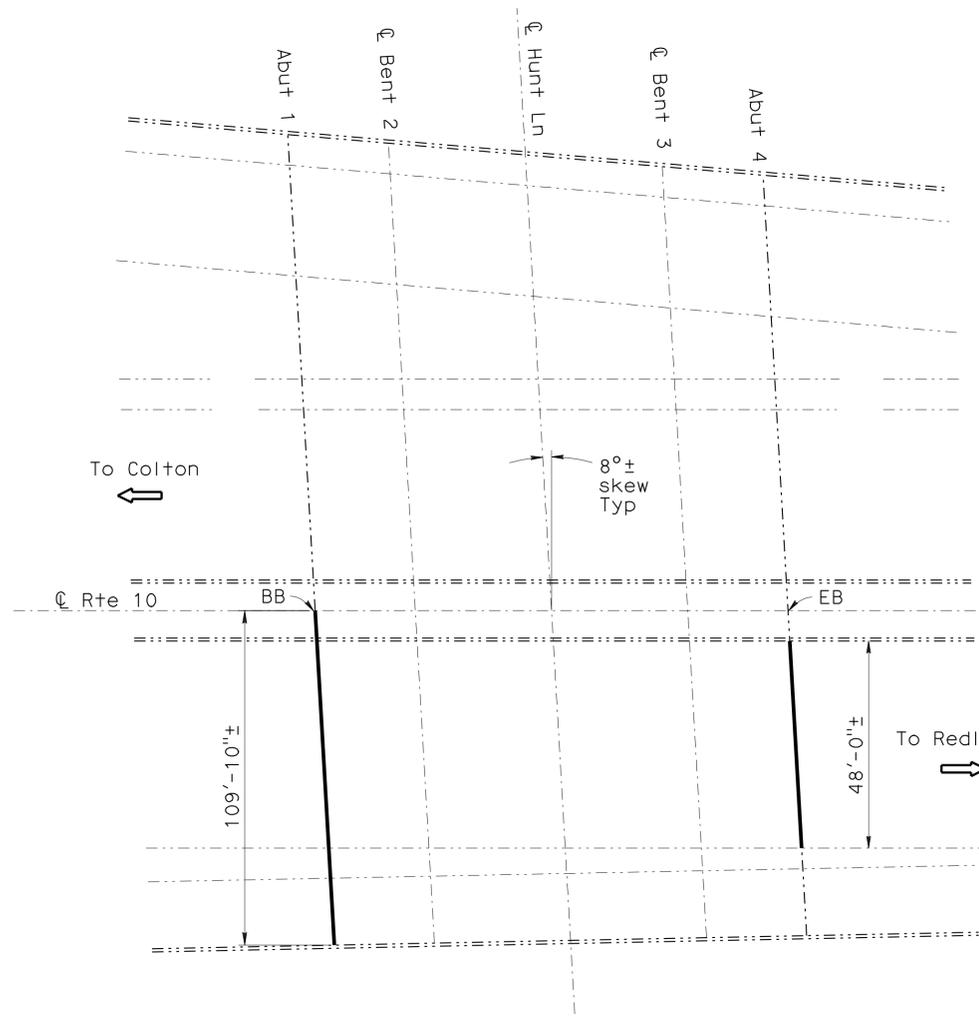
<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 10,215 BRIDGES</b> <b>GENERAL PLAN NO. 2</b>	
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			CHECKED Edward Li		POST MILE
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Tanya Kershell			PLANS AND SPECS COMPARED Tanya Kershell		Varies
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA OP1601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 02 OF 11

USERNAME => fhmikes DATE PLOTTED => 15-APR-2011 TIME PLOTTED => 06:21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Sbd	10,215	9.1/R36.9,4.0	12	20

Edward Li 08/26/10  
 REGISTERED CIVIL ENGINEER DATE  
 PLANS APPROVAL DATE 4-11-11  
 No. C56706  
 Exp. 06/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

SAN TIMOTEO CREEK BRIDGE No. 54-0599  
 QUANTITIES  
 REMOVE UNSOUND CONCRETE 59 CF  
 CLEAN BRIDGE DECK 23,498 SQFT  
 RAPID SETTING CONCRETE (PATCH) 59 CF  
 TREAT BRIDGE DECK 23,498 SQFT  
 FURNISH BRIDGE DECK TREATMENT MATERIAL 294 GAL  
 PUBLIC SAFETY PLAN LUMP SUM

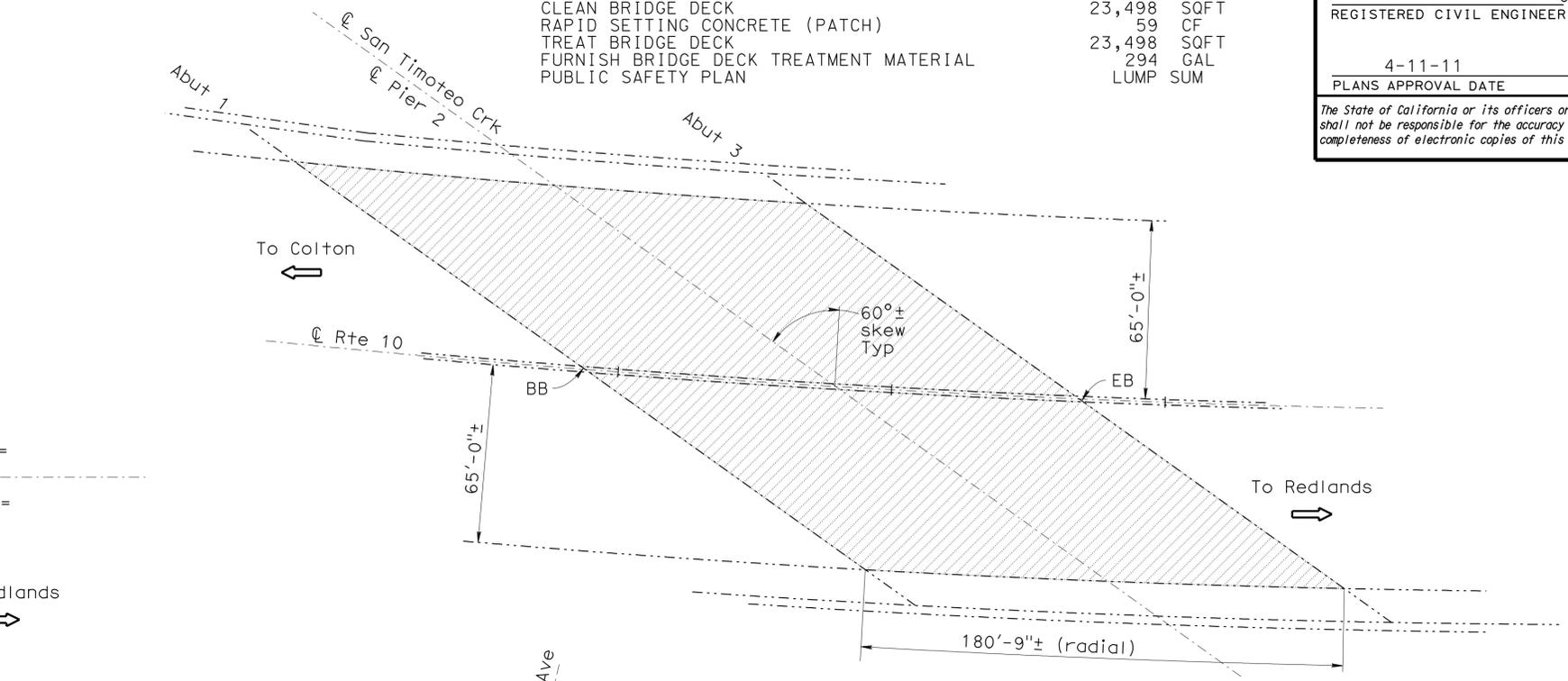


**HUNTS LANE UC**  
 Br No. 54-0601, Rte 10, PM 24.76  
 1" = 20'

HUNTS LANE UC BRIDGE No. 54-0601  
 QUANTITIES  
 REMOVE UNSOUND CONCRETE 2 CF  
 CLEAN EXPANSION JOINT 160 LF  
 RAPID SETTING CONCRETE (PATCH) 2 CF  
 JOINT SEAL (MR 1") 160 LF

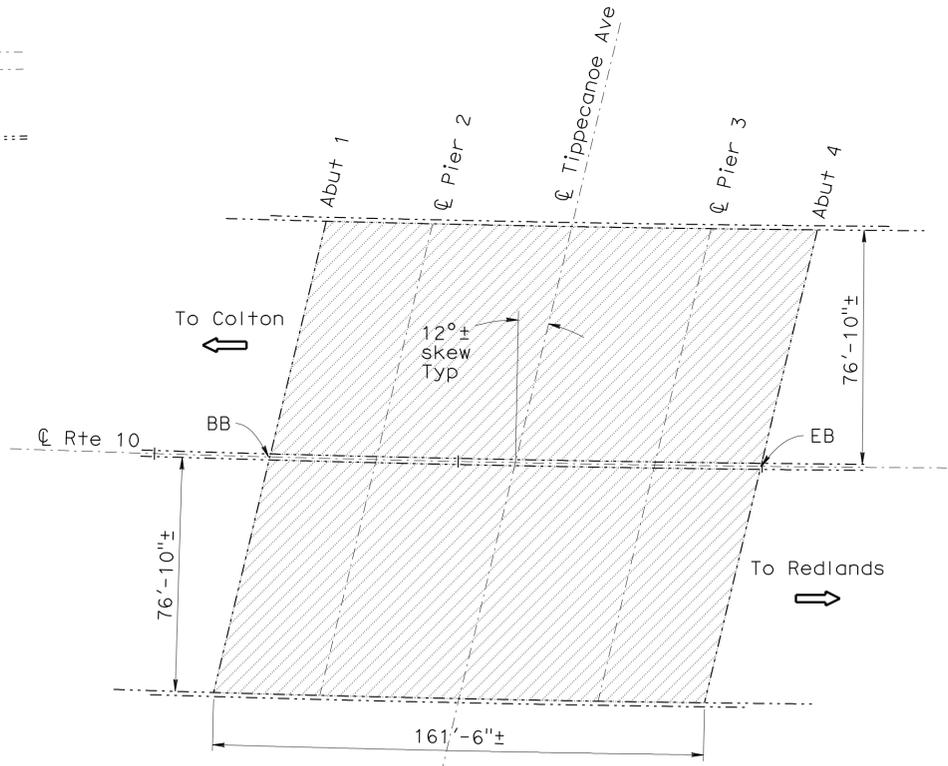
NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE  
 DESIGN ENGINEER



**SAN TIMOTEO CREEK**  
 Br No. 54-0599, Rte 10, PM 25.54  
 1" = 30'

TIPPECANOE AVENUE UC BRIDGE No. 54-0598  
 QUANTITIES  
 REMOVE UNSOUND CONCRETE 63 CF  
 CLEAN BRIDGE DECK 24,818 SQFT  
 RAPID SETTING CONCRETE (PATCH) 63 CF  
 TREAT BRIDGE DECK 24,818 SQFT  
 FURNISH BRIDGE DECK TREATMENT MATERIAL 311 GAL



**TIPPECANOE AVENUE UC**  
 Br No. 54-0598, Rte 10, PM 26.27  
 1" = 30'

**LEGEND:**  
 - - - - - Indicates existing.  
 → Indicates direction of traffic.  
 / Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint spalls.  
 [Hatched Box] Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Tanya Kershell

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

ROUTE 10,215 BRIDGES  
 GENERAL PLAN NO. 3  
 BRIDGE NO. Various  
 POST MILE Varies

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	13	20

Edward Li 08/26/10  
REGISTERED CIVIL ENGINEER DATE

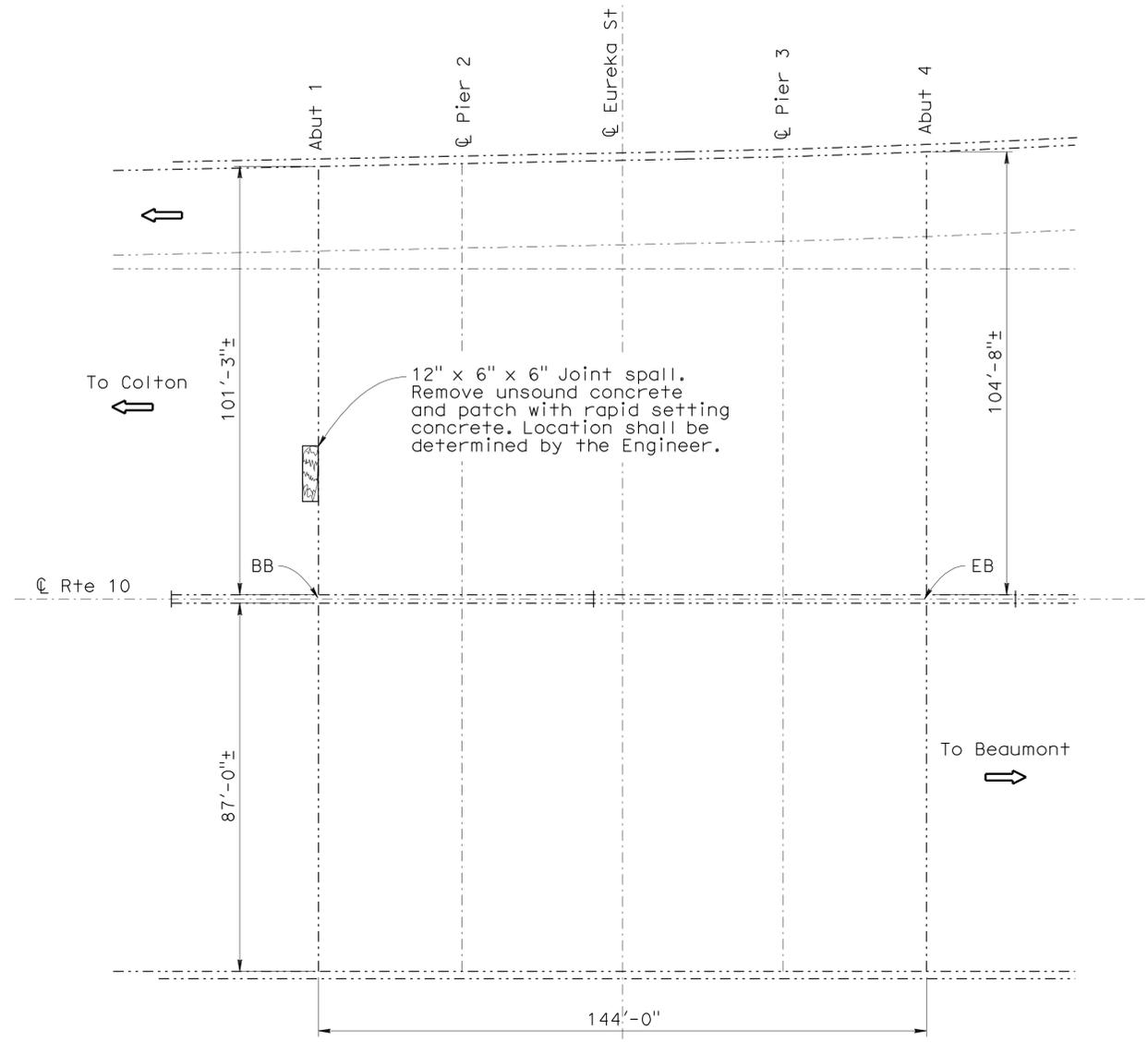
4-11-11  
PLANS APPROVAL DATE

No. C56706  
Exp. 06/30/11  
CIVIL

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**LEGEND:**

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

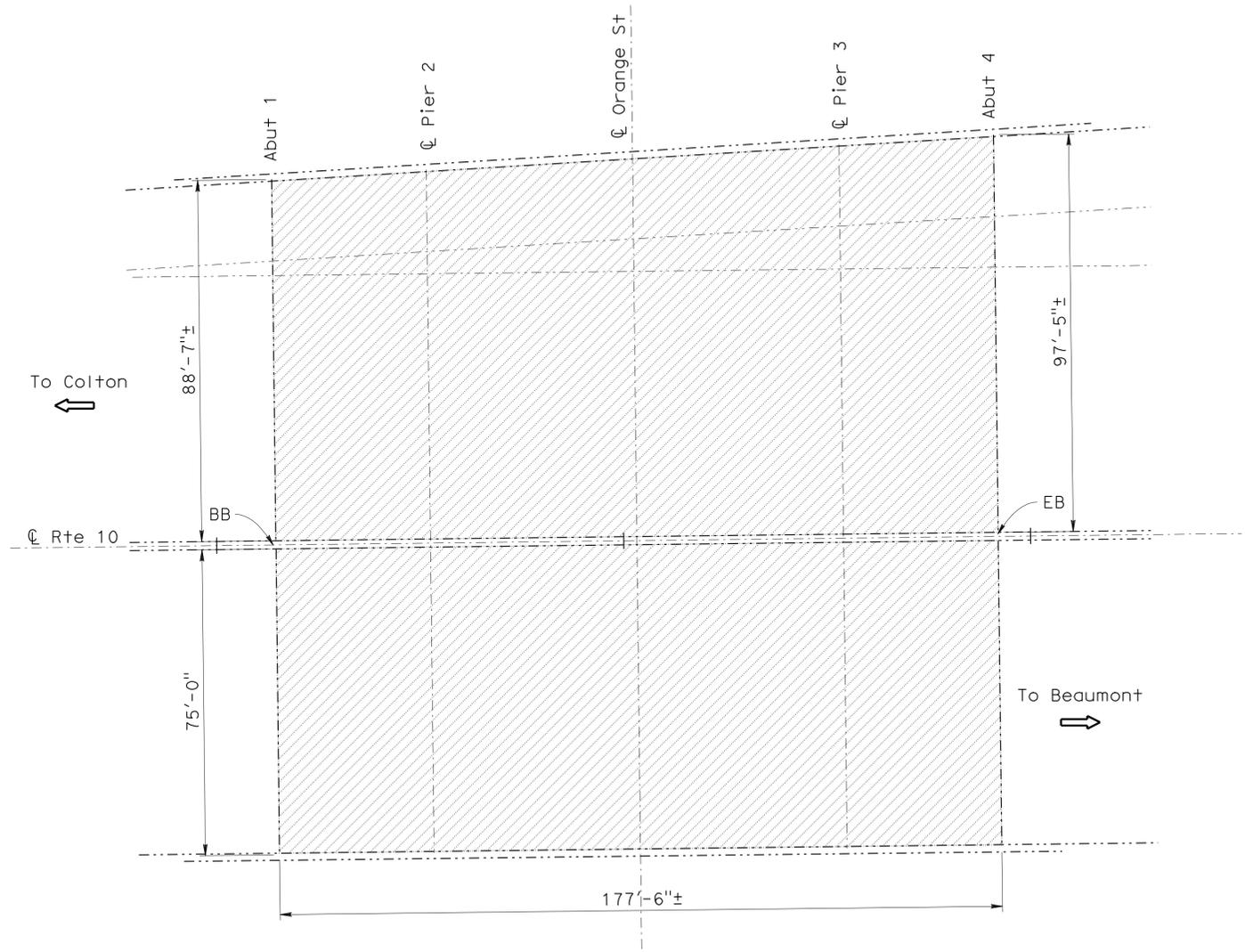


**EUREKA STREET UC**

Br No. 54-0580, Rte 10, PM 30.66  
1" = 20'



EUREKA STREET UC	QUANTITIES	BRIDGE No. 54-0580
REMOVE UNSOUND CONCRETE	1	CF
RAPID SETTING CONCRETE (PATCH)	1	CF



**INTERSTATE 10 / STATE ROUTE 38 SEP**

Br No. 54-0581, Rte 10, PM 30.88  
1" = 20'



INTERSTATE 10/STATE ROUTE 38 SEP  
QUANTITIES

REMOVE UNSOUND CONCRETE	75	CF
CLEAN BRIDGE DECK	29,829	SQFT
RAPID SETTING CONCRETE (PATCH)	75	CF
TREAT BRIDGE DECK	29,829	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	373	GAL

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Tanya Kershell

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	Various
		POST MILE

ROUTE 10,215 BRIDGES	
GENERAL PLAN NO. 4	

TIME PLOTTED => 06:21  
USERNAME => hmlakes DATE PLOTTED => 15-APR-2011

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SbD	10,215	9.1/R36.9,4.0	14	20

Edward Li 08/26/10  
 REGISTERED CIVIL ENGINEER DATE

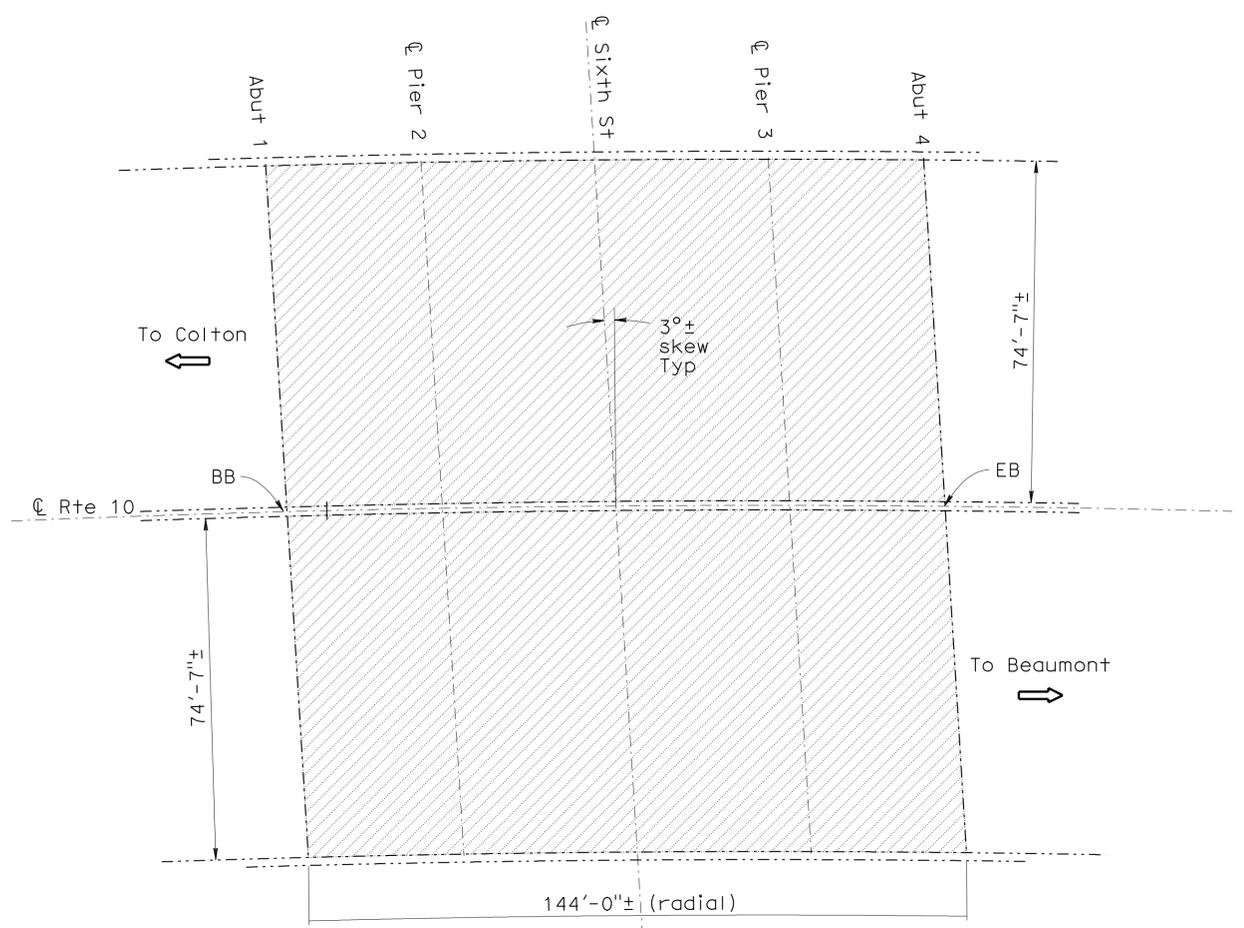
4-11-11  
 PLANS APPROVAL DATE

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 Exp. 06/30/11  
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- ➔ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

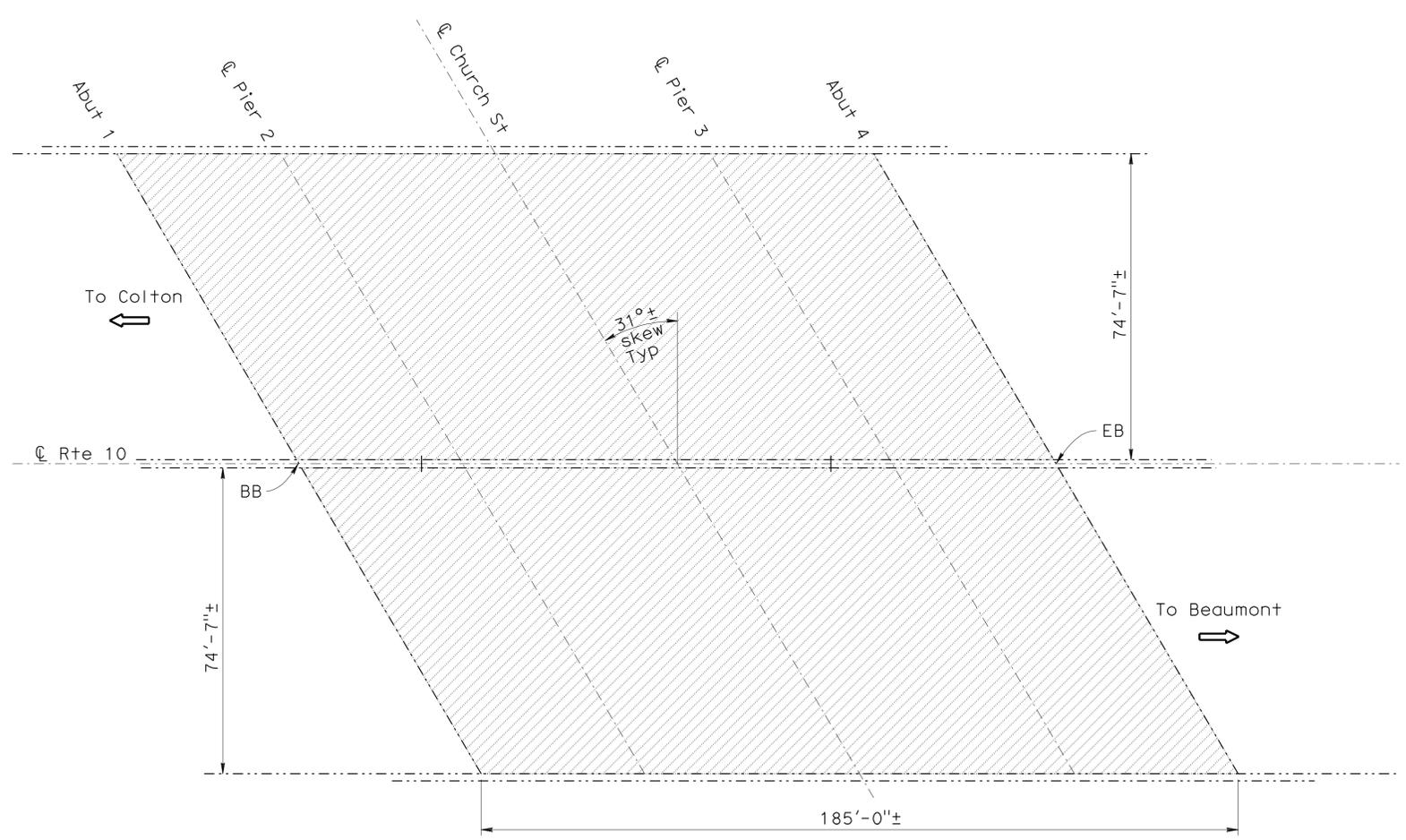


**SIXTH STREET UC**

Br No. 54-0579, Rte 10, PM 31.01  
 1" = 20'



SIXTH STREET UC	QUANTITIES	BRIDGE No. 54-0579
REMOVE UNSOUND CONCRETE	54 CF	
CLEAN BRIDGE DECK	21,480 SQFT	
RAPID SETTING CONCRETE (PATCH)	54 CF	
TREAT BRIDGE DECK	21,480 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	269 GAL	
PUBLIC SAFETY PLAN	LUMP SUM	



**CHURCH STREET UC**

Br No. 54-0578, Rte 10, PM 31.41  
 1" = 20'



CHURCH STREET UC	QUANTITIES	BRIDGE No. 54-0578
REMOVE UNSOUND CONCRETE	69 CF	
CLEAN BRIDGE DECK	27,602 SQFT	
RAPID SETTING CONCRETE (PATCH)	69 CF	
TREAT BRIDGE DECK	27,602 SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	345 GAL	

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	<b>ROUTE 10,215 BRIDGES</b> <b>GENERAL PLAN NO. 5</b>	
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			CHECKED Edward Li	POST MILE		Varies
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Tanya Kershell			PLANS AND SPECS COMPARED	Tanya Kershell		

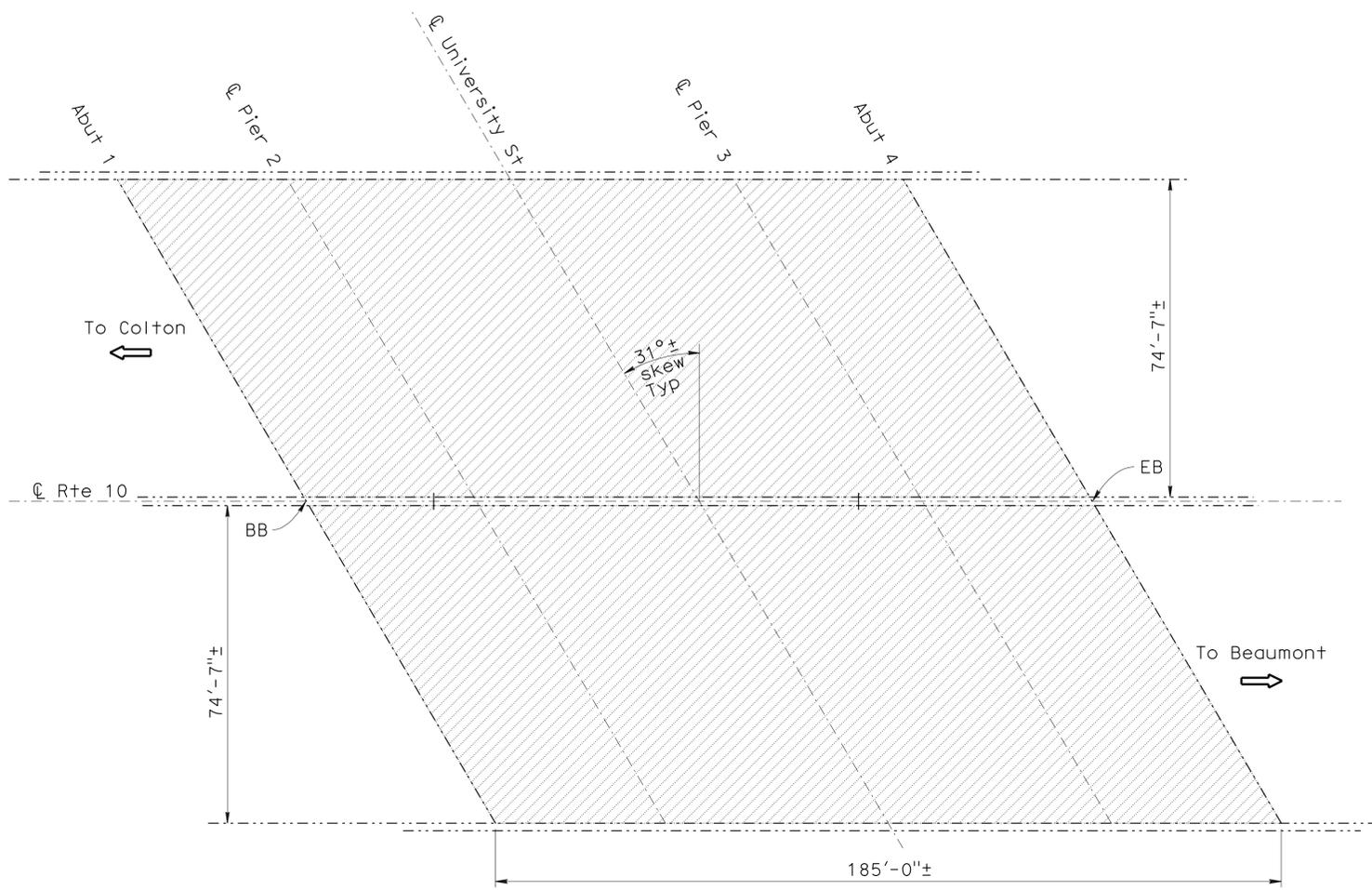
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	15	20

Edward Li 08/26/10  
 REGISTERED CIVIL ENGINEER DATE  
 4-11-11  
 PLANS APPROVAL DATE  
 No. C56706  
 Exp. 06/30/11  
 CIVIL  
 STATE OF CALIFORNIA

**LEGEND:**

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



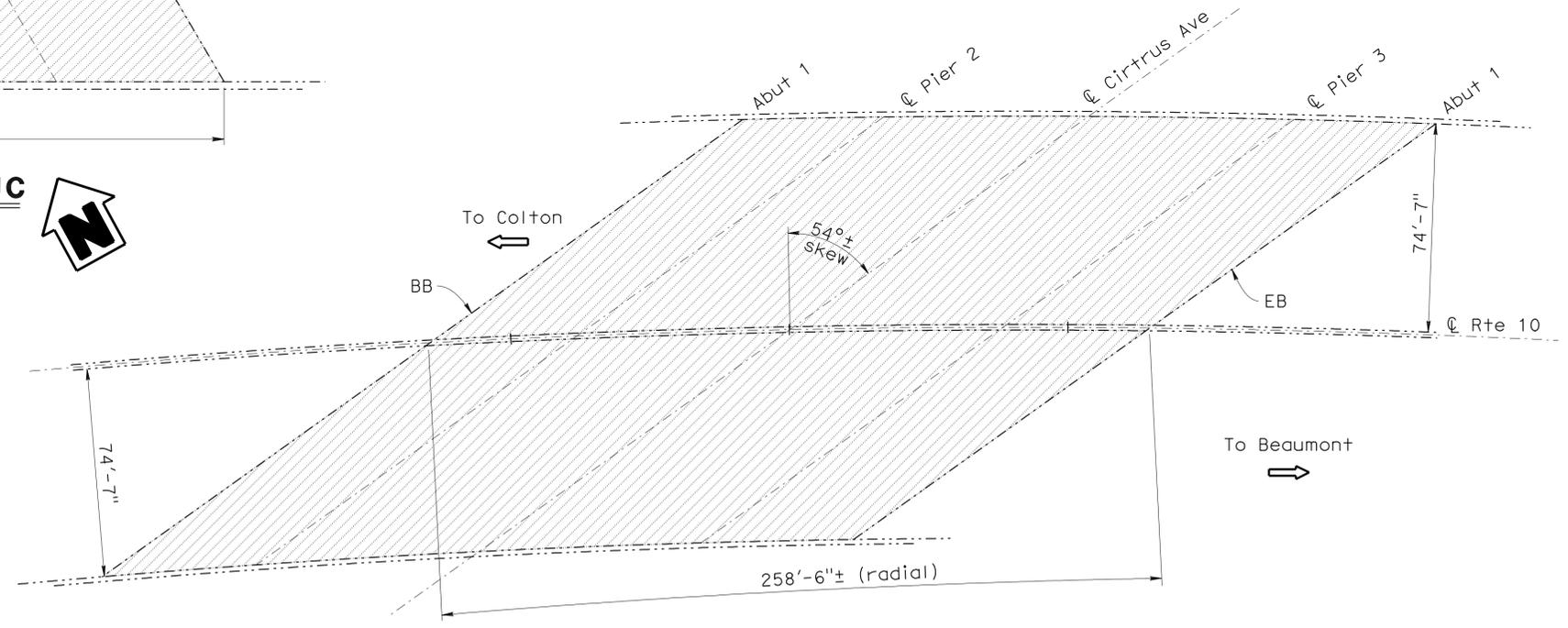
**UNIVERSITY STREET UC**

Br No. 54-0582, Rte 10, PM 31.87  
1" = 20'

UNIVERSITY STREET UC

QUANTITIES		
REMOVE UNSOUND CONCRETE	69	CF
CLEAN BRIDGE DECK	27,602	SQFT
RAPID SETTING CONCRETE (PATCH)	69	CF
TREAT BRIDGE DECK	27,602	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	345	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

BRIDGE No. 54-0582



**CITRUS AVENUE UC**

Br No. 54-0584, Rte 10, PM 31.99  
1" = 30'



CITRUS AVENUE UC

QUANTITIES		
REMOVE UNSOUND CONCRETE	97	CF
CLEAN BRIDGE DECK	38,568	SQFT
RAPID SETTING CONCRETE (PATCH)	97	CF
TREAT BRIDGE DECK	38,568	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	482	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

BRIDGE No. 54-0584

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	<b>ROUTE 10,215 BRIDGES</b> <b>GENERAL PLAN NO. 6</b>	
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang			CHECKED Edward Li	POST MILE		Varies
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Tanya Kershell			PLANS AND SPECS COMPARED Tanya Kershell	POST MILE		Varies
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA OP1601	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	SHEET 06 OF 11

USERNAME => hrmikes DATE PLOTTED => 15-APR-2011 TIME PLOTTED => 06:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	16	20

Edward Li 08/26/10  
 REGISTERED CIVIL ENGINEER DATE

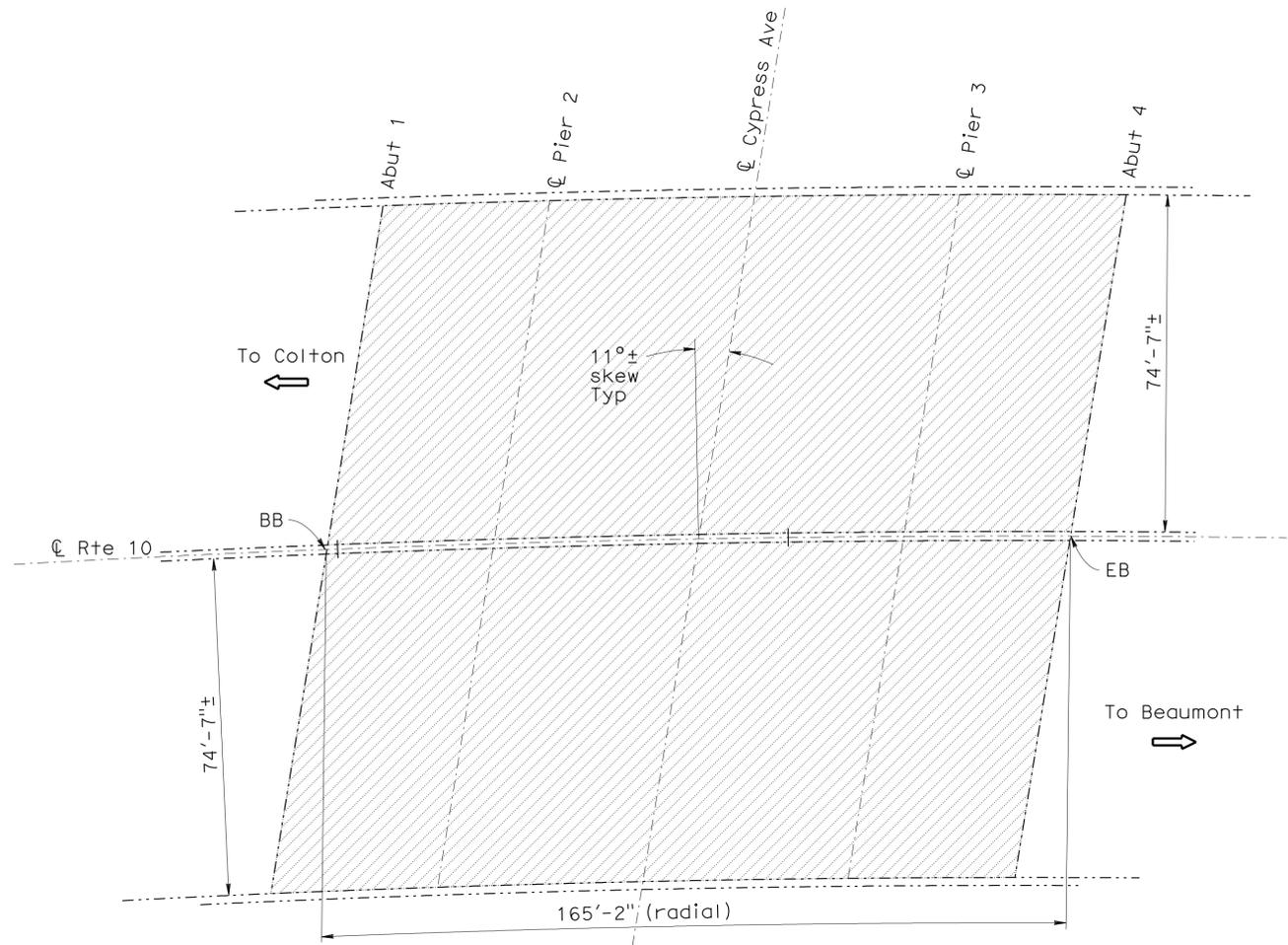
4-11-11  
 PLANS APPROVAL DATE

No. C56706  
 Exp. 06/30/11  
 CIVIL

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**LEGEND:**

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



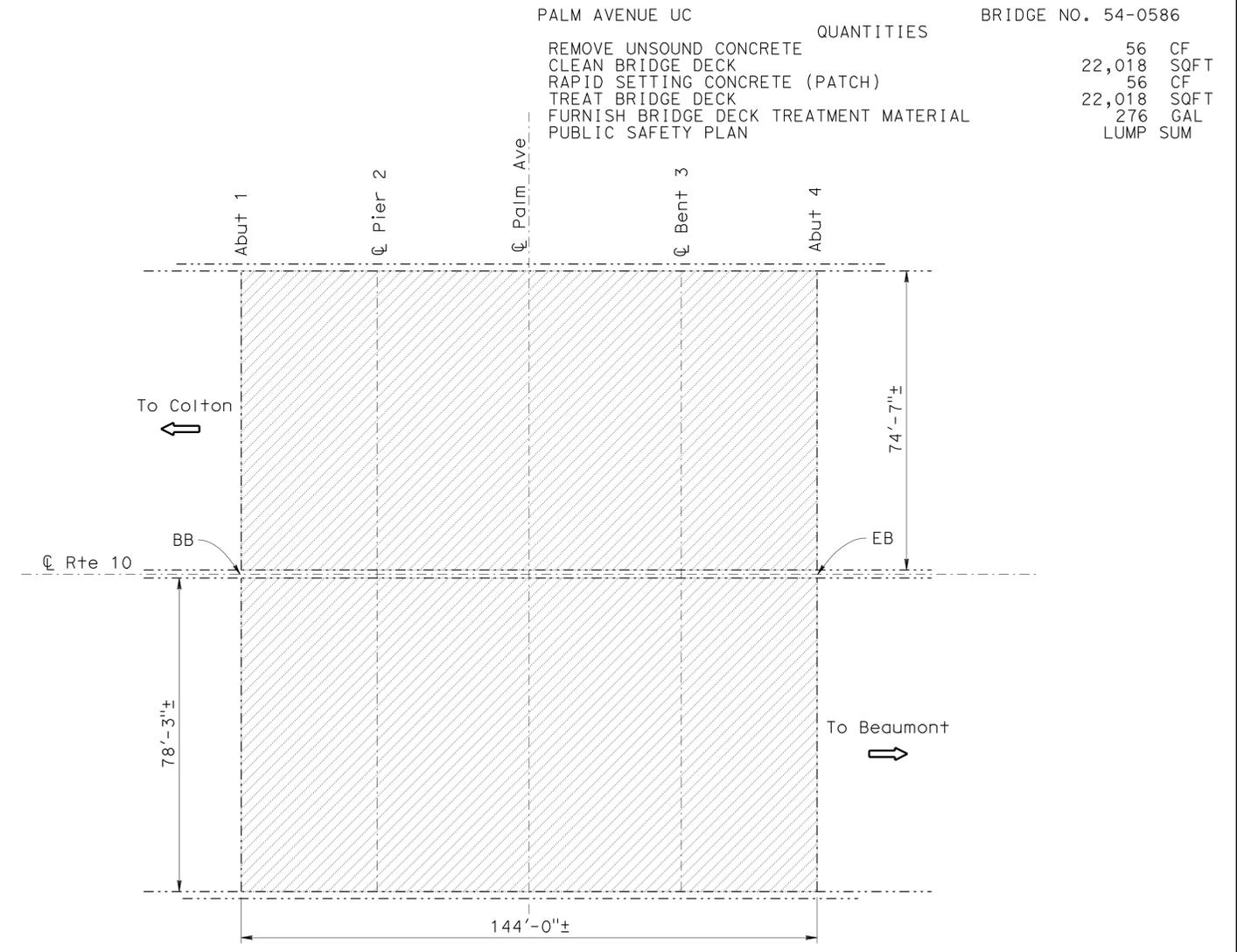
**CYPRESS AVENUE UC**

Br No. 54-0585, Rte 10, PM 32.11  
 1" = 20'



CYPRESS AVENUE UC	BRIDGE NO. 54-0585	QUANTITIES	
REMOVE UNSOUND CONCRETE		62	CF
CLEAN BRIDGE DECK		24,648	SQFT
RAPID SETTING CONCRETE (PATCH)		62	CF
TREAT BRIDGE DECK		24,648	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		308	GAL
PUBLIC SAFETY PLAN		LUMP	SUM

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



**PALM AVENUE UC**

Br No. 54-0586, Rte 10, PM 32.36  
 1" = 20'



PALM AVENUE UC	BRIDGE NO. 54-0586	QUANTITIES	
REMOVE UNSOUND CONCRETE		56	CF
CLEAN BRIDGE DECK		22,018	SQFT
RAPID SETTING CONCRETE (PATCH)		56	CF
TREAT BRIDGE DECK		22,018	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		276	GAL
PUBLIC SAFETY PLAN		LUMP	SUM

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Tanya Kershell

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies

ROUTE 10,215 BRIDGES  
 GENERAL PLAN NO. 7

REVISION DATES

SHEET 07 OF 11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	17	20

Edward Li 08/26/10  
 REGISTERED CIVIL ENGINEER DATE

4-11-11  
 PLANS APPROVAL DATE

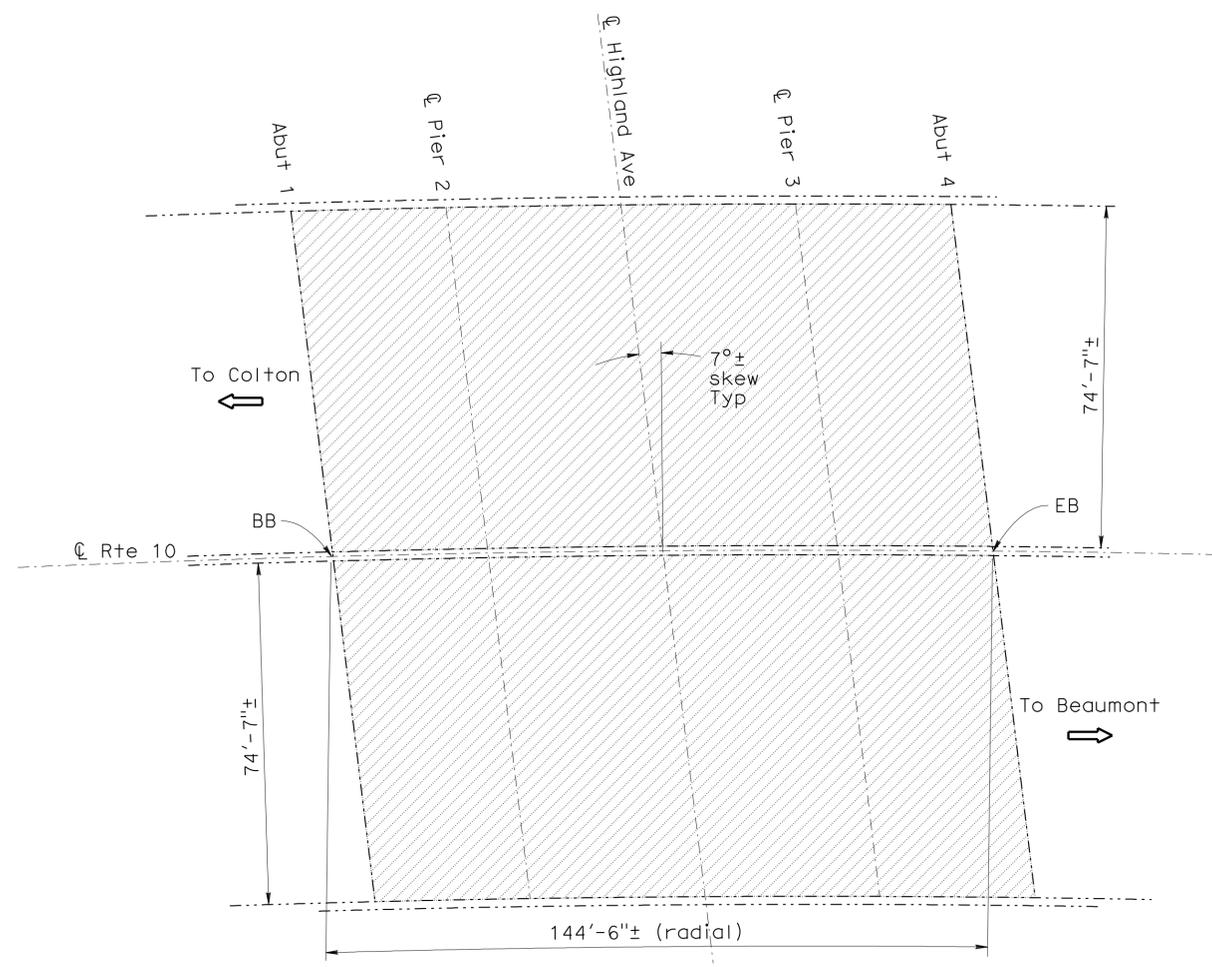
No. C56706  
 Exp. 06/30/11  
 CIVIL

REGISTERED PROFESSIONAL ENGINEER  
 EDWARD GUOJUN LI  
 STATE OF CALIFORNIA

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**LEGEND:**

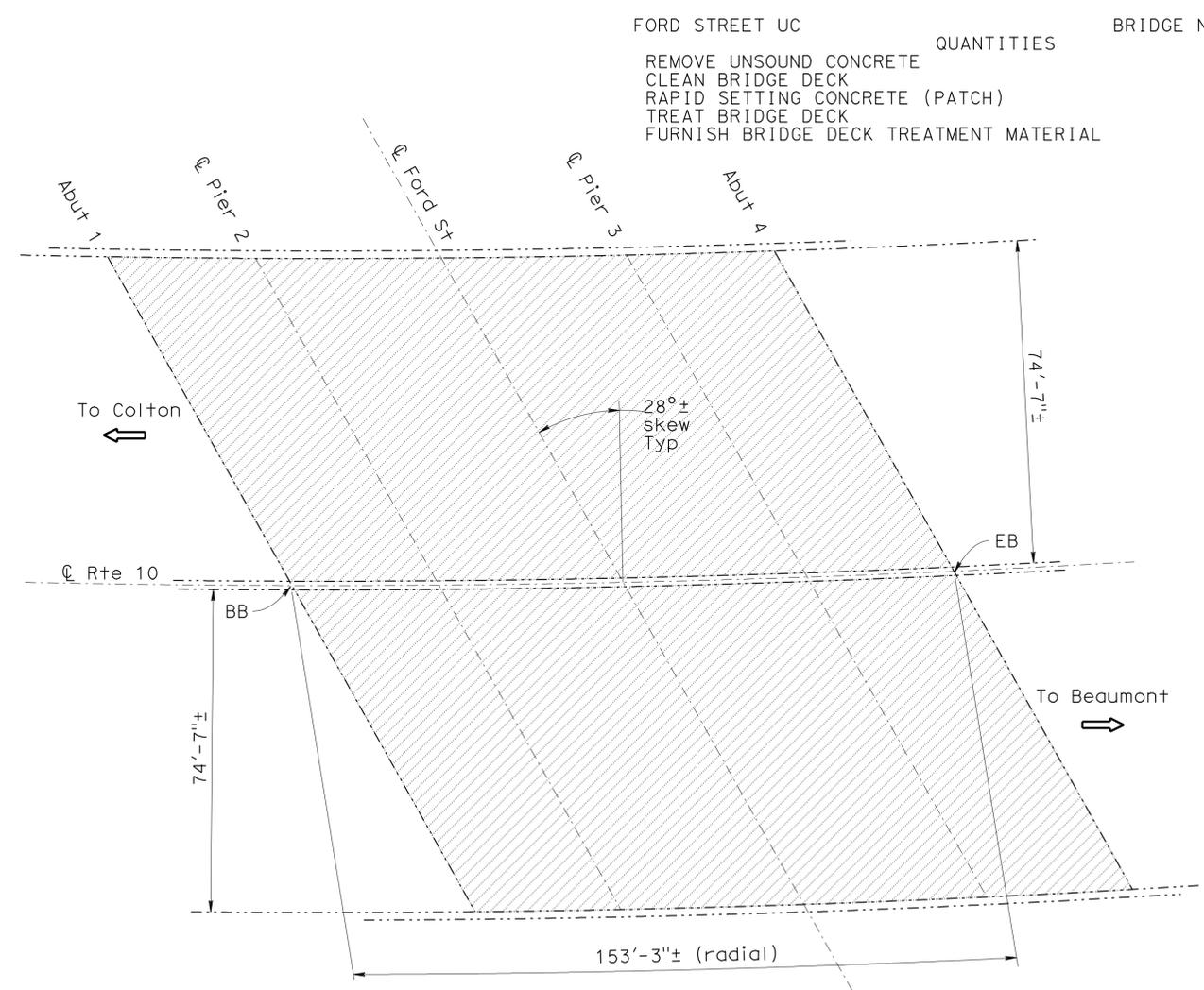
- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



**HIGHLAND AVENUE UC**  
 Br No. 54-0587, Rte 10, PM 32.61  
 1" = 20'

HIGHLAND AVENUE UC		BRIDGE NO. 54-0587	
		QUANTITIES	
REMOVE UNSOUND CONCRETE		54	CF
CLEAN BRIDGE DECK		21,560	SQFT
RAPID SETTING CONCRETE (PATCH)		54	CF
TREAT BRIDGE DECK		21,560	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		270	GAL
PUBLIC SAFETY PLAN			LUMP SUM

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



**FORD STREET UC**  
 Br No. 54-0588, Rte 10, PM 33.13  
 1" = 20'

FORD STREET UC		BRIDGE NO. 54-0588	
		QUANTITIES	
REMOVE UNSOUND CONCRETE		58	CF
CLEAN BRIDGE DECK		22,872	SQFT
RAPID SETTING CONCRETE (PATCH)		58	CF
TREAT BRIDGE DECK		22,872	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL		286	GAL

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
	QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Tanya Kershell
				PLANS AND SPECS COMPARED	Tanya Kershell

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies

ROUTE 10,215 BRIDGES  
 GENERAL PLAN NO. 8

REVISION DATES

SHEET 08 OF 11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	18	20

Edward Li 08/26/10  
REGISTERED CIVIL ENGINEER DATE

4-11-11  
PLANS APPROVAL DATE

No. C56706  
Exp. 06/30/11  
CIVIL

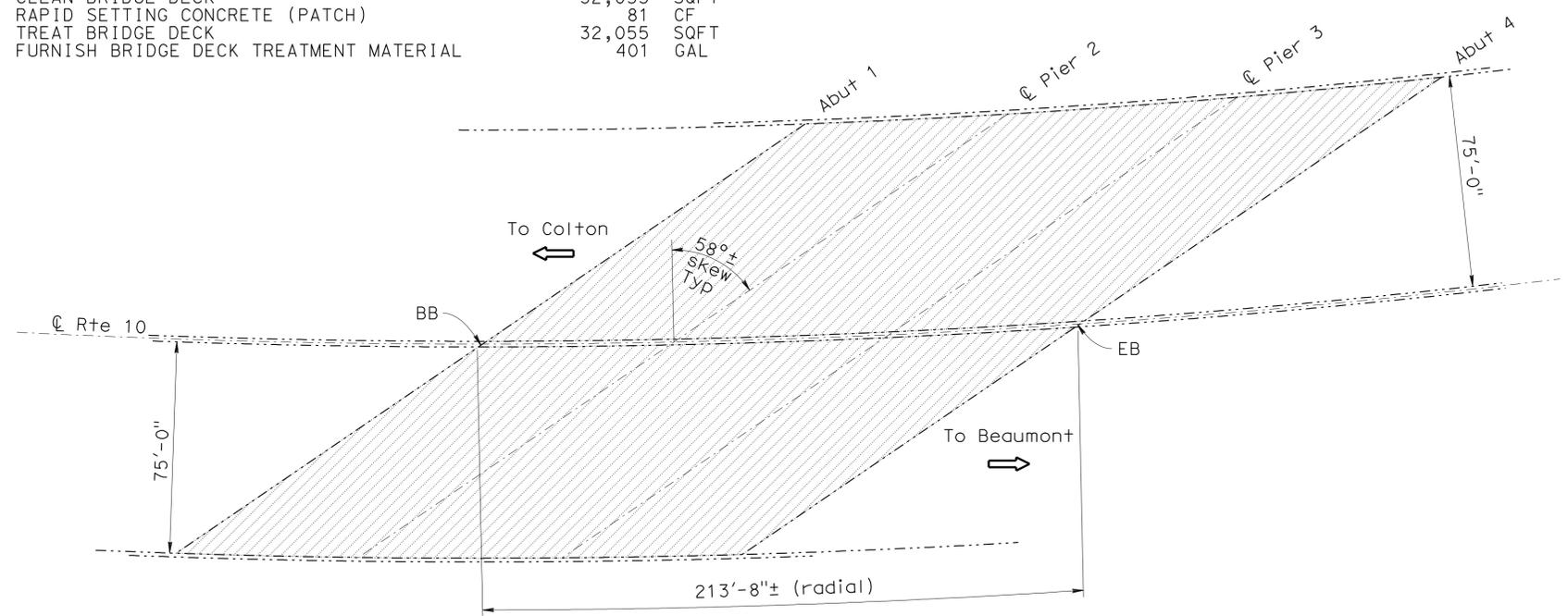
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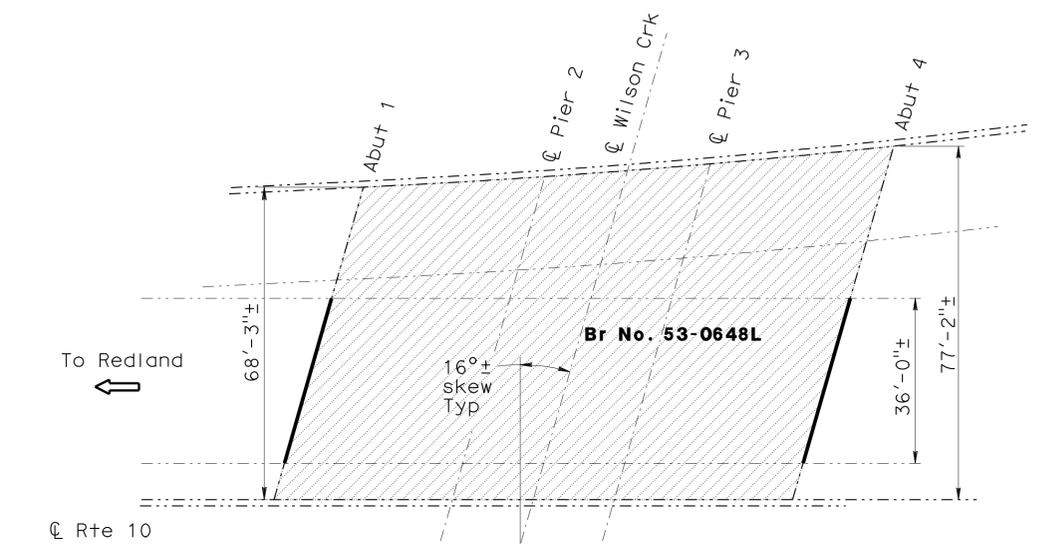
- Indicates existing.
- ➔ Indicates direction of traffic.
- /— Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint spalls.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

REDLANDS BLVD OFF-RAMP UC BRIDGE NO. 54-0589

QUANTITIES			
REMOVE UNSOUND CONCRETE	81	CF	
CLEAN BRIDGE DECK	32,055	SQFT	
RAPID SETTING CONCRETE (PATCH)	81	CF	
TREAT BRIDGE DECK	32,055	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	401	GAL	



**REDLANDS BLVD OFF-RAMP UC**  
Br No. 54-0589, Rte 10, PM 33.29  
1" = 30'



**WILSON CREEK**  
Br No. 54-0648L/R, Rte 10, PM R36.9  
1" = 20'

WILSON CREEK BRIDGE NO. 54-0648L/R

QUANTITIES			
REMOVE UNSOUND CONCRETE	41	CF	
CLEAN BRIDGE DECK	14,382	SQFT	
CLEAN EXPANSION JOINT	152	LF	
RAPID SETTING CONCRETE (PATCH)	41	CF	
JOINT SEAL (MR 1")	152	LF	
TREAT BRIDGE DECK	14,382	SQFT	
FURNISH BRIDGE DECK TREATMENT MATERIAL	181	GAL	

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Edward Li	CHECKED HongTien Tran	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Edward Li	LAYOUT	BY Tom Dang
QUANTITIES	BY Edward Li	CHECKED HongTien Tran	SPECIFICATIONS	BY Tanya Kershell
				CHECKED Edward Li
				PLANS AND SPECS COMPARED Tanya Kershell

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

**ROUTE 10,215 BRIDGES**  
**GENERAL PLAN NO. 9**

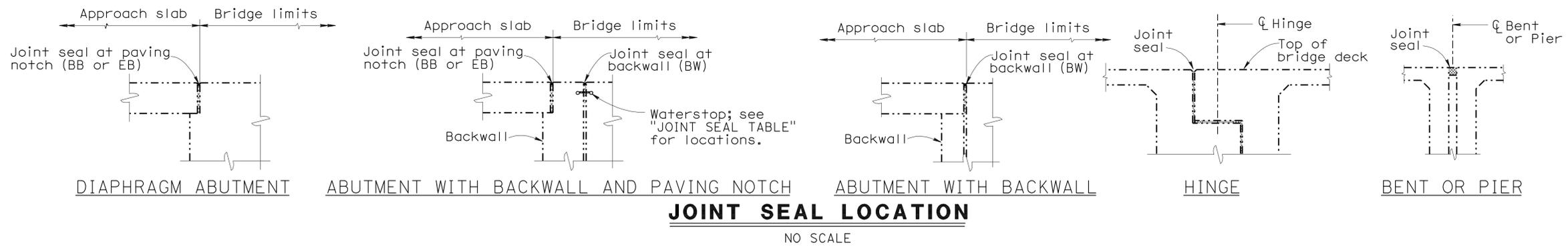
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	Sbd	10,215	9.1/R36.9,4.0	19	20

Edward Li 08/26/10  
REGISTERED CIVIL ENGINEER DATE

4-11-11  
PLANS APPROVAL DATE

No. C56706  
Exp. 06/30/11  
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**NOTES:**

The following notes apply to JOINT SEAL TYPE A:

Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see RSP B6-21 sheet.

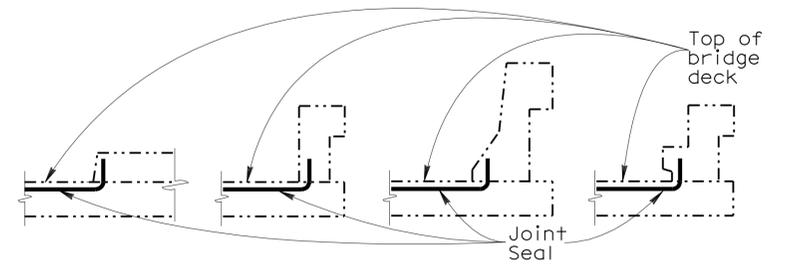
The following notes apply to JOINT SEAL TYPE B:

- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.
- 3) W1 shall be the smaller of the values determined as follows:
  - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
  - B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.
- 4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

For details not shown see RSP B6-21 sheet.

<b>JOINT SEAL TABLE</b>										
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROX LENGTH (FT)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN TO CLEAN EXP JOINT (INCHES)	APPROX DEPTH OF JOINT SPALLS (INCHES)	APPROX WIDTH OF JOINT SPALLS (INCHES)	APPROX LENGTH OF JOINT SPALLS (FEET)
		Abutment	Location							
ETIWANDA WASH (RT)	54-0378R	Abut 1	PN	1/2	114	NO	12	3	6	5
		Abut 2	PN	1/2	114	NO	12	3	6	5
ETIWANDA AVENUE OC	54-0463	Pier 2	-	1 1/2	80	YES	7	3	6	5
		Bent 3	-	1 1/2	80	YES	7	3	6	5
		Bent 4	-	1 1/2	80	YES	7	3	6	5
		Bent 5	-	1 1/2	80	YES	7	3	6	5
		Bent 6	-	1 1/2	80	YES	7	3	6	5
HUNTS LANE UC	54-0601	Abut 1	PN	1	111	NO	12	3	6	5
		Abut 4	PN	1	49	NO	12	3	6	5
WILSON CREEK (LT)	54-0648L	Abut 1	PN	1	38	NO	12	3	6	5
		Abut 4	PN	1	38	NO	12	3	6	5
WILSON CREEK (RT)	54-0648R	Abut 1	PN	1	38	NO	12	3	6	5
		Abut 4	PN	1	38	NO	12	3	6	5

PN = Paving notch



**BARRIER RAIL**

**JOINT SEAL AT LOW SIDE OF DECK**

Note: Details shown for illustration purposes only.

For use only where deck joint matches the sidewalk, curb or barrier rail joint.

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Edward Li	CHECKED Hongtien Tran
DETAILS	BY Tom Dang	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED Hongtien Tran

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
**STRUCTURE MAINTENANCE DESIGN**

BRIDGE NO.	Various	<b>ROUTE 10,215 BRIDGES</b>
POST MILE	Varies	
<b>MISCELLANEOUS DETAILS NO. 1</b>		

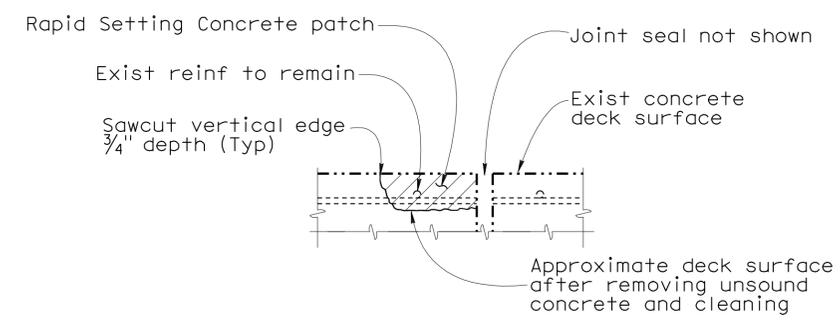
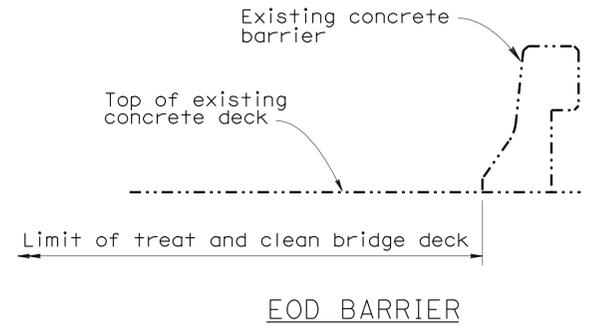
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	10,215	9.1/R36.9,4.0	20	20

Edward Li 08/26/10  
 REGISTERED CIVIL ENGINEER DATE  
 4-11-11  
 PLANS APPROVAL DATE  
 No. C56706  
 Exp. 06/30/11  
 CIVIL  
 STATE OF CALIFORNIA  
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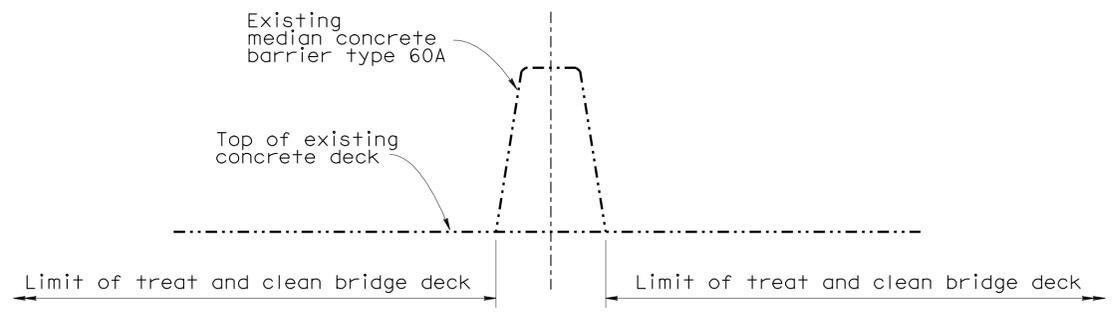
DECK REPAIR TABLE			
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCHES)
INTERSTATE 215/10 SEPARATION	54-0479R	1	3
MILLIKEN AVENUE OC	54-0539	1	3
ETIWANDA WASH (LT)	54-0378L	1	3
ETIWANDA WASH (RT)	54-0378R	1	3
ETIWANADA AVENUE OC	54-0463	1	3
SAN TIMOTED AVENUE UC	54-0599	1	3
TIPPECANOE AVENUE UC	54-0598	1	3
INTERSTATE 10 / STATE ROUTE 8 SEPARATION	54-0581	1	3
SIXTH STREET UC	54-0579	1	3
CHURCH STREET UC	54-0578	1	3
UNIVERSITY STREET UC	54-0582	1	3
CITRUS AVENUE UC	54-0584	1	3
CYPRESS AVENUE UC	54-0585	1	3
PALM AVENUE UC	54-0586	1	3
HIGHLAND AVENUE UC	54-0587	1	3
FORD STREET UC	54-0588	1	3
REDLANDS BLVD OFF-RAMP UC	54-0589	1	3
WILSON CREEK (LT)	54-0648L	1	3
WILSON CREEK (RT)	54-0648R	1	3

- DECK REPAIR NOTES:**
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
  - It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
  - When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
  - The saw cut depth shall not exceed  $\frac{3}{4}$  inch or the concrete cover over the top steel reinforcing bars, whichever is less.
  - Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.

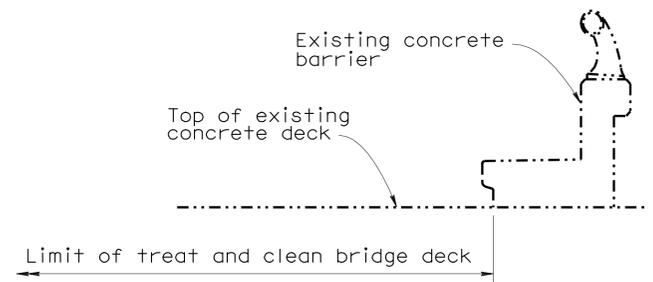


**JOINT SPALL REPAIR DETAIL**

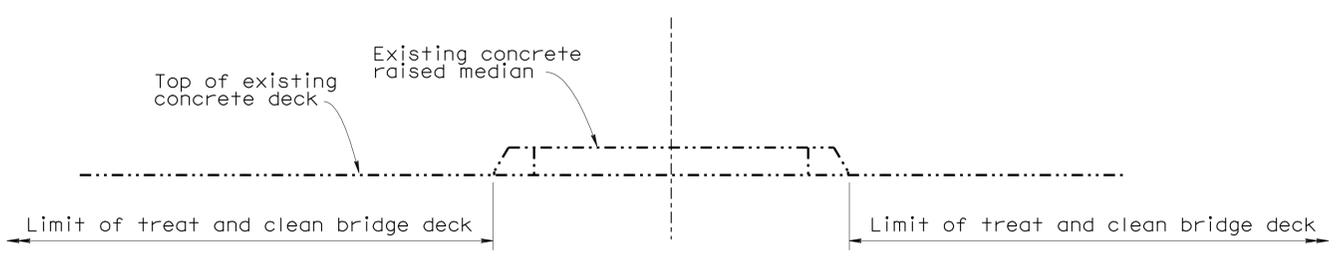
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



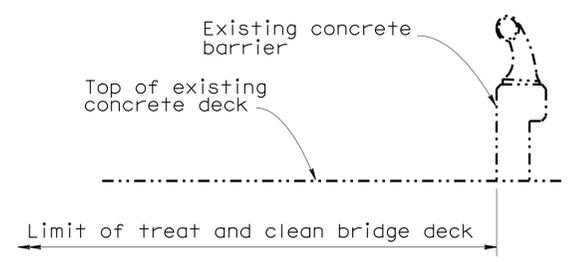
**MEDIAN BARRIER**



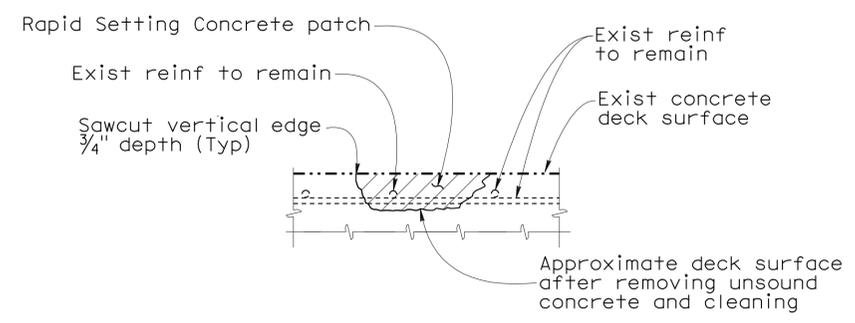
**SIDEWALK BARRIER TYPE 2**



**RAISED MEDIAN**



**SIDEWALK BARRIER TYPE 1**



**DECK DAMAGE REPAIR DETAIL**

Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

**TYPICAL LIMITS OF DECK WORK**

NO SCALE

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Edward Li	CHECKED Hongtien Tran
DETAILS	BY Tom Dang	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED Hongtien Tran

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

ROUTE 10,215 BRIDGES  
MISCELLANEOUS DETAILS NO. 2

USERNAME => hrmikes DATE PLOTTED => 15-APR-2011 TIME PLOTTED => 06:22