

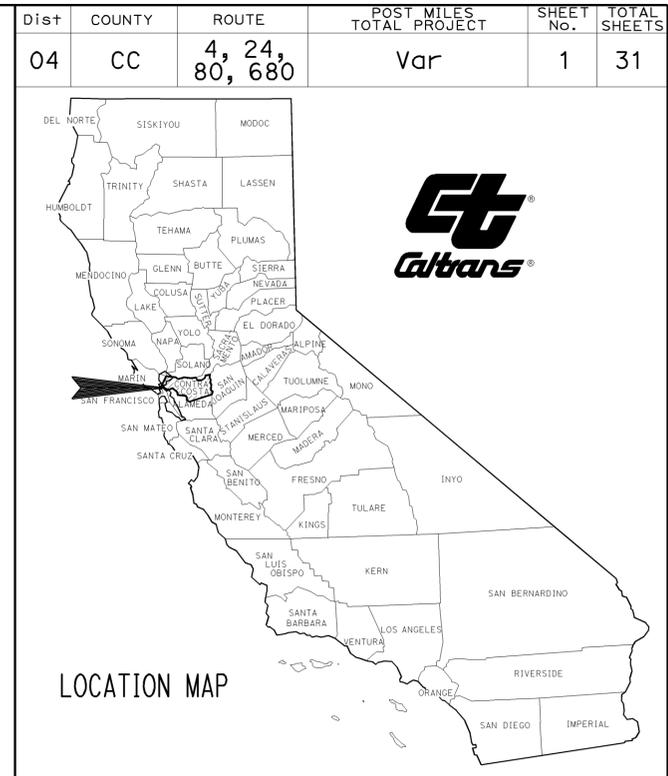
INDEX OF PLANS

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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN CONTRA COSTA COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

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



NOTE:
 THE TABLE OF LOCATIONS OF CONSTRUCTION IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.

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

Robert Camargo 1-12-10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 No. 34402
 Exp. 9-30-11
 CIVIL
 STATE OF CALIFORNIA

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.

PROJECT MANAGER
 RAMSES SARGISS
 DESIGN ENGINEER
 SHERRY HUANG



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR
 RAMSES SARGISS

CALCULATED-DESIGNED BY
 CHECKED BY

SHERRY HUANG
 ROBERT CAMARGO

REVISED BY
 DATE REVISED

SH
 9/21/09

LOCATIONS OF CONSTRUCTION

LOCATION No.	BRIDGE NAME	BRIDGE No.	ROUTE	PM
①	MORELLO AVENUE UC	28-0218L	4	R10.3
②	MORELLO AVENUE UC	28-0218R	4	R10.3
③	GRAYSON CREEK	28-0066L	4	12.9
④	SOLANO WAY UC	28-0241R	4	R13.7
⑤	CAMINO PABLO UC	28-0103K	24	R2.3
⑥	ACALANES ROAD UC	28-0110S	24	R4.4
⑦	LAFAYETTE UC	28-0137R	24	R4.9
⑧	DOLORES DRIVE UC	28-0134L	24	R5.8
⑨	LAFAYETTE STA PUC BART	28-0230L	24	R6.1
⑩	FIRST STREET UC	28-0228L	24	R6.5
⑪	FIRST STREET UC	28-0228R	24	R6.5
⑫	EBMUD AQUEDUCT UC	28-0145L	24	R6.8
⑬	EBMUD AQUEDUCT UC	28-0145R	24	R6.8
⑭	MOUNT DIABLO BOULEVARD UC	28-0045S	24	R7.6
⑮	PLEASANT HILL ROAD UC	28-0106L	24	R7.7
⑯	PLEASANT HILL ROAD UC	28-0106R	24	R7.7
⑰	PLEASANT HILL ROAD UC	28-0106K	24	R7.7
⑱	PLEASANT HILL ROAD UC	28-0106S	24	R7.7
⑲	E24-N680 CONNECTOR OC	28-0126G	24	R8.9
⑳	CUTTING BOULEVARD UC	28-0080R	80	2.0
㉑	CUTTING BOULEVARD UC	28-0080L	80	2.0
㉒	MACDONALD AVENUE UC	28-0082S	80	2.6
㉓	WILLOW AVENUE UC	28-0151	80	10.7
㉔	BLUM ROAD UC	28-0172K	680	21.5
㉕	BLUM ROAD UC	28-0172	680	21.5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	2	31

Robert Camargo 1-12-10
 REGISTERED CIVIL ENGINEER DATE
 1-25-10
 PLANS APPROVAL DATE

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LOCATIONS OF CONSTRUCTION

LC-1

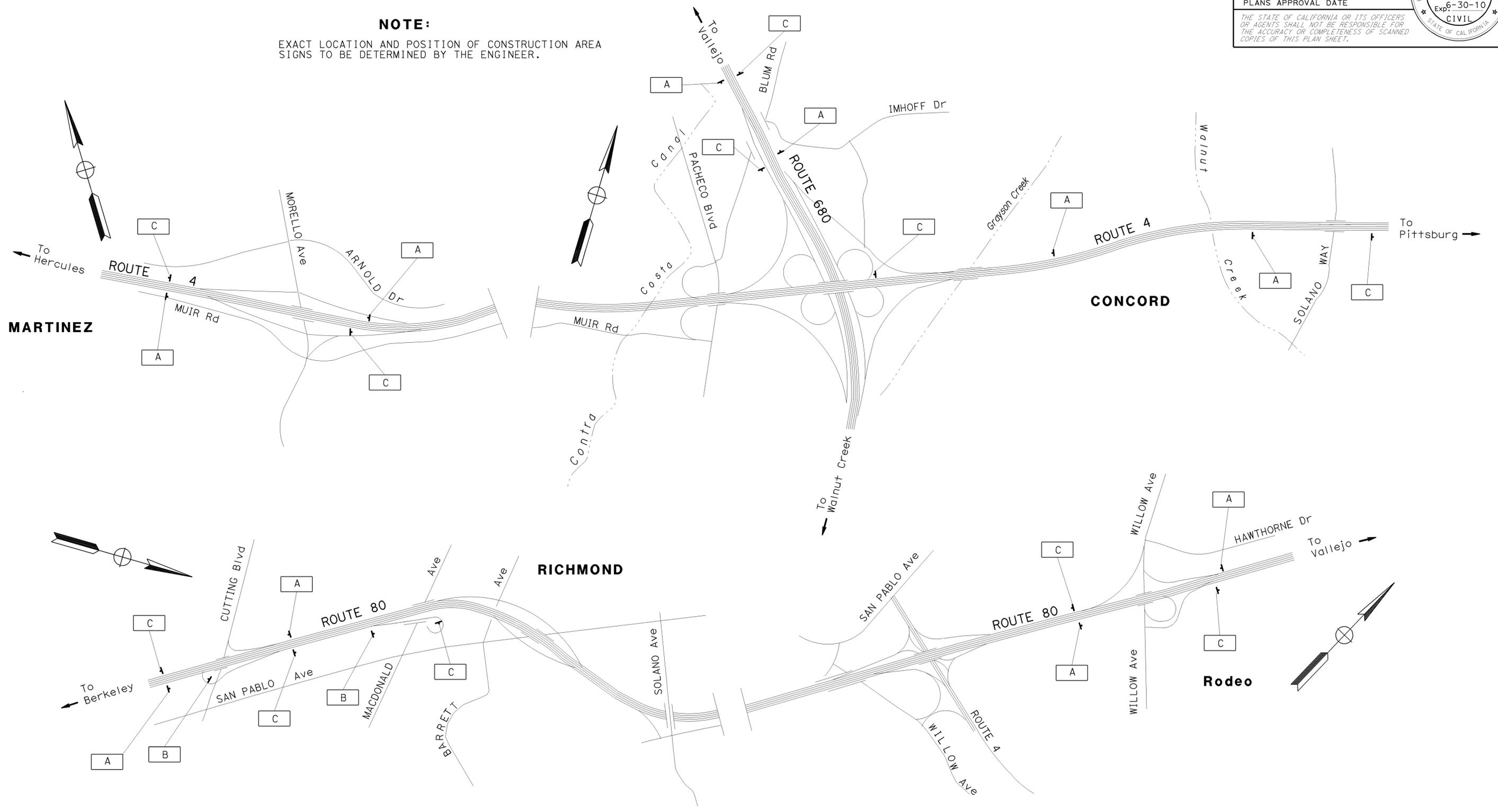
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	3	31

Lourdes David 9-16-09
 REGISTERED CIVIL ENGINEER DATE
 1-25-10
 PLANS APPROVAL DATE
 No. 51428
 Exp. 6-30-10
 CIVIL
 STATE OF CALIFORNIA

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LEGEND:
 [] CONSTRUCTION AREA SIGN LETTER
 → DIRECTION OF TRAFFIC

NOTE:
 EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS
 NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

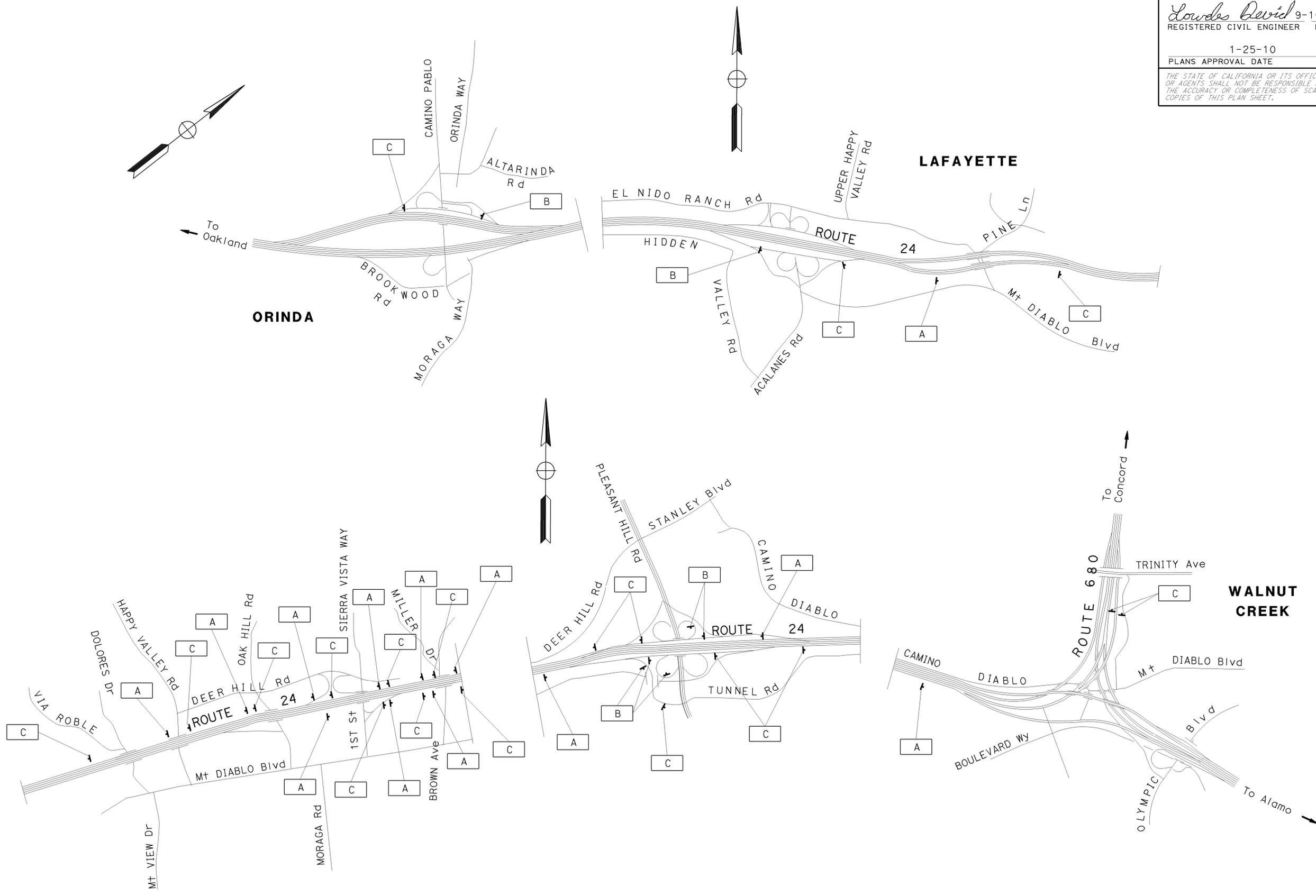
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: LOURDES DAVID
 CHECKED BY: RENE RESTUA
 REVISIONS: RR 4/27/09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	4	31

Lourdes David 9-16-09
 REGISTERED CIVIL ENGINEER DATE
 1-25-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Lourdes David
 No. 51428
 Exp. 6-30-10
 CIVIL
 STATE OF CALIFORNIA

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CONSTRUCTION AREA SIGNS
 NO SCALE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

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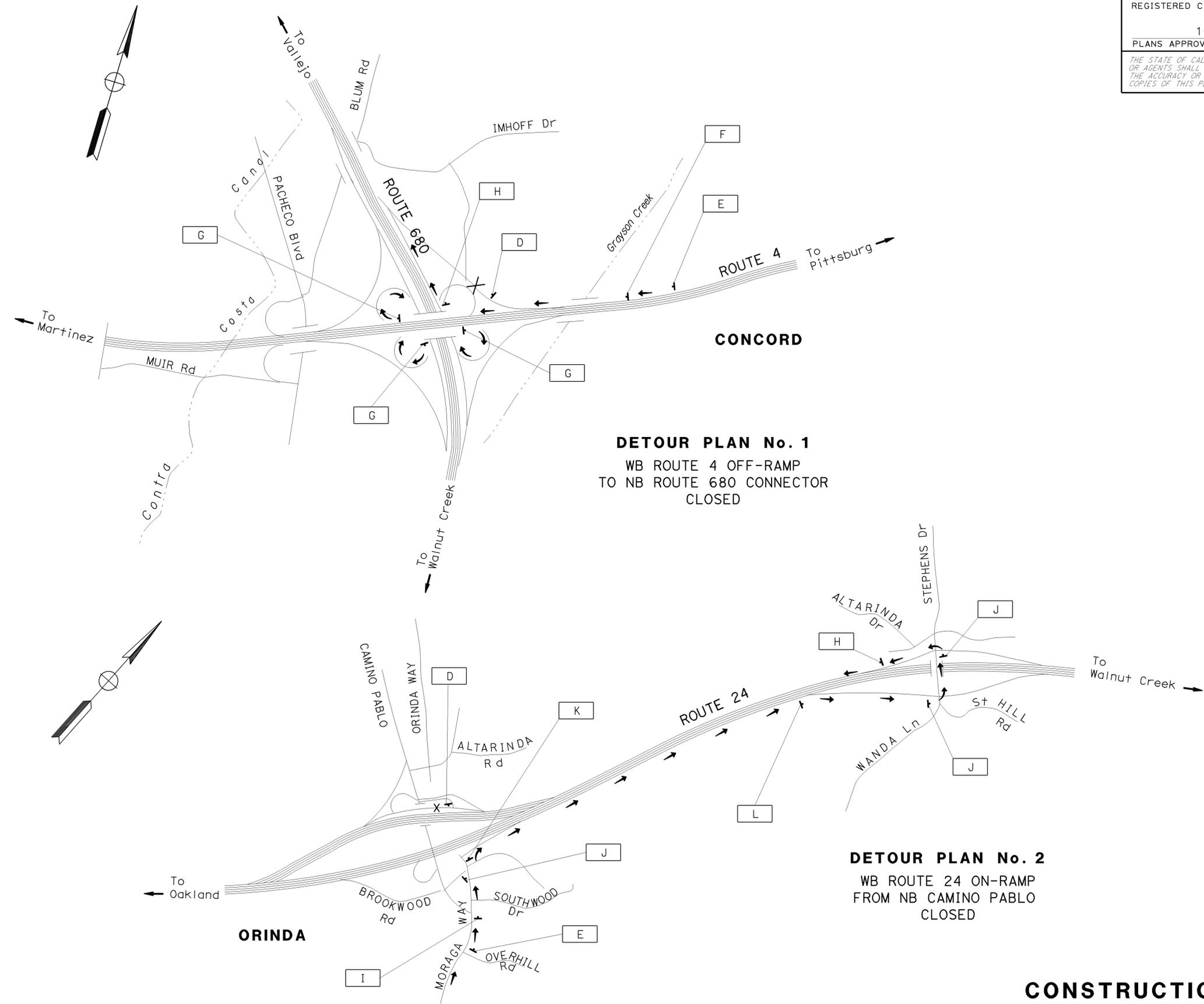
CS-2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	5	31

Lourdes David 9-16-09
 REGISTERED CIVIL ENGINEER DATE
 1-25-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Lourdes David
 No. 51428
 Exp. 6-30-10
 CIVIL
 STATE OF CALIFORNIA

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
 NO SCALE
CS-3

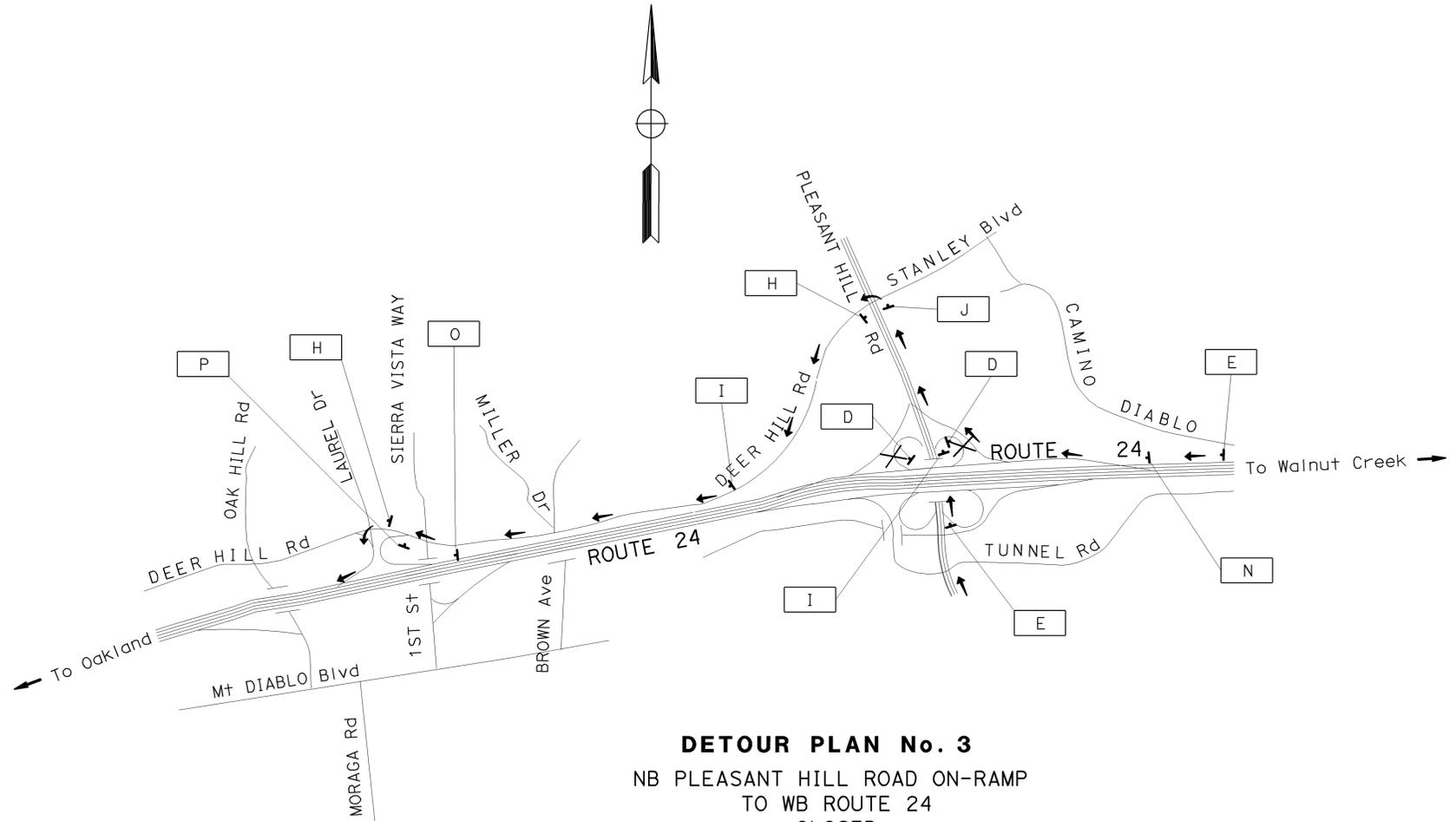
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 ROLAND AU-YEUNG
 TRAFFIC
 CALCULATED-DESIGNED BY
 CHECKED BY
 RENE RESTUA
 LOURDES DAVID
 REVISED BY
 DATE
 RR
 4/27/09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	6	31

Lourdes David 9-16-09
 REGISTERED CIVIL ENGINEER DATE
 1-25-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Lourdes David
 No. 51428
 Exp. 6-30-10
 CIVIL
 STATE OF CALIFORNIA

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DETOUR PLAN No. 3
 NB PLEASANT HILL ROAD ON-RAMP
 TO WB ROUTE 24
 CLOSED
 SB PLEASANT HILL ROAD OFF-RAMP
 CLOSED

CONSTRUCTION AREA SIGNS
 NO SCALE
CS-4

FOR NOTES, ABBREVIATIONS
 AND LEGEND, SEE SHEET CS-1

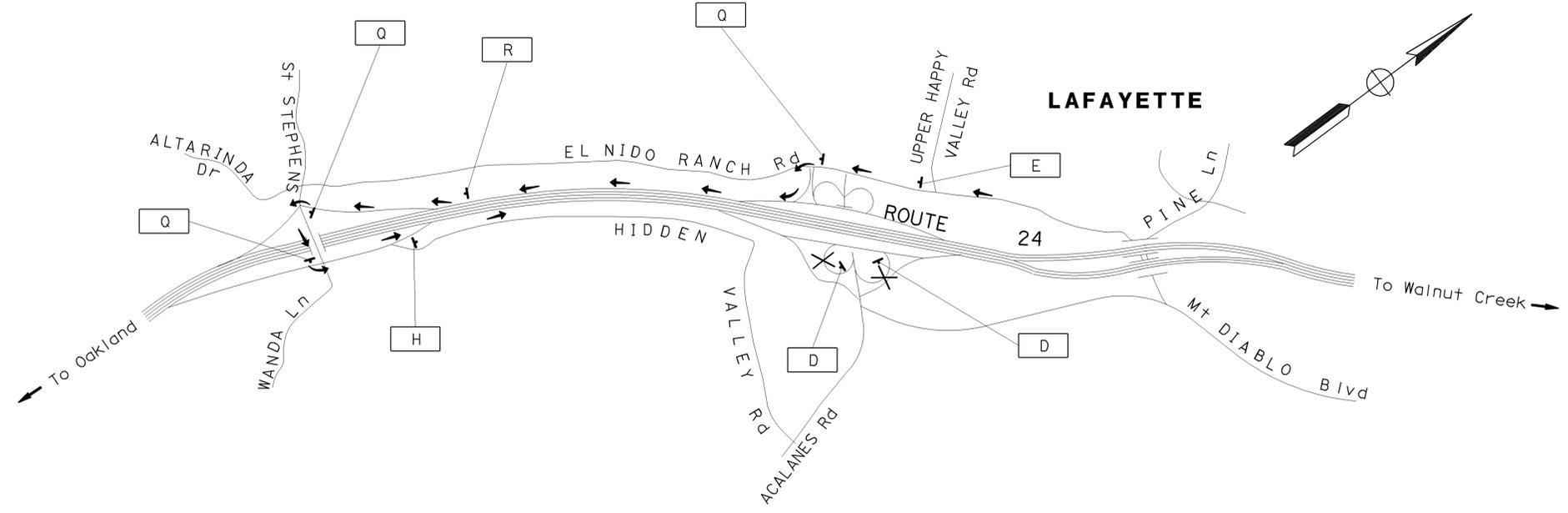
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 CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: CHECKED BY:
 RENE RESTUA
 REVISIONS: RR 4/27/09
 REVISIONS: REVISIONS: DATE: REVISIONS: DATE: REVISIONS: DATE:

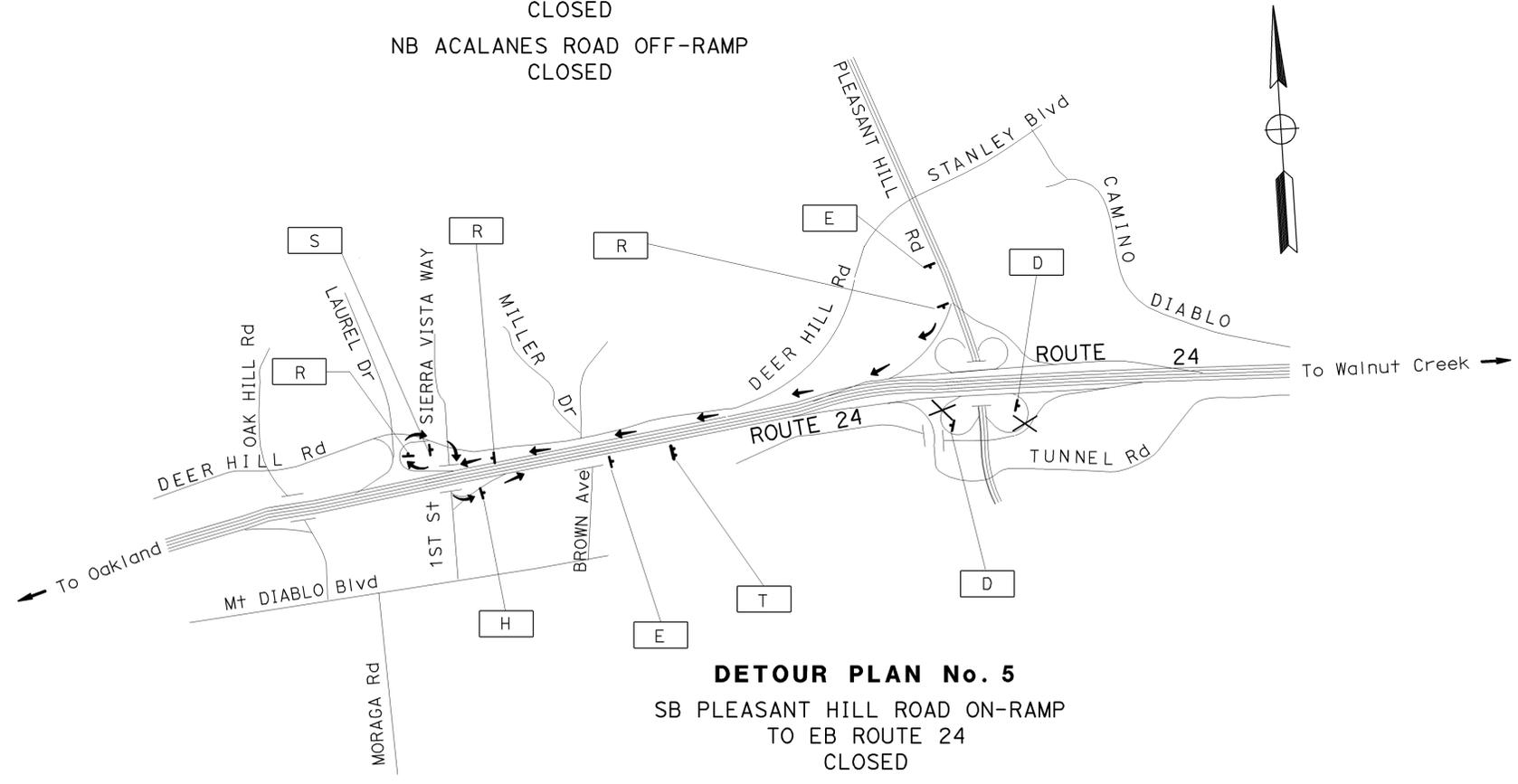
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	7	31

9-16-09
 REGISTERED CIVIL ENGINEER DATE
 1-25-10
 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.

REGISTERED PROFESSIONAL ENGINEER
 Lourdes David
 No. 51428
 Exp. 6-30-10
 CIVIL
 STATE OF CALIFORNIA



DETOUR PLAN No. 4
 SB ACALANES ROAD ON-RAMP TO EB ROUTE 24 CLOSED
 NB ACALANES ROAD OFF-RAMP CLOSED



DETOUR PLAN No. 5
 SB PLEASANT HILL ROAD ON-RAMP TO EB ROUTE 24 CLOSED
 NB PLEASANT HILL ROAD OFF-RAMP CLOSED

CONSTRUCTION AREA SIGNS
 NO SCALE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 TRAFFIC

RENE RESTUA
 REVISOR: LOURDES DAVID
 CHECKED BY

REVISOR: RR
 DATE: 4/27/09

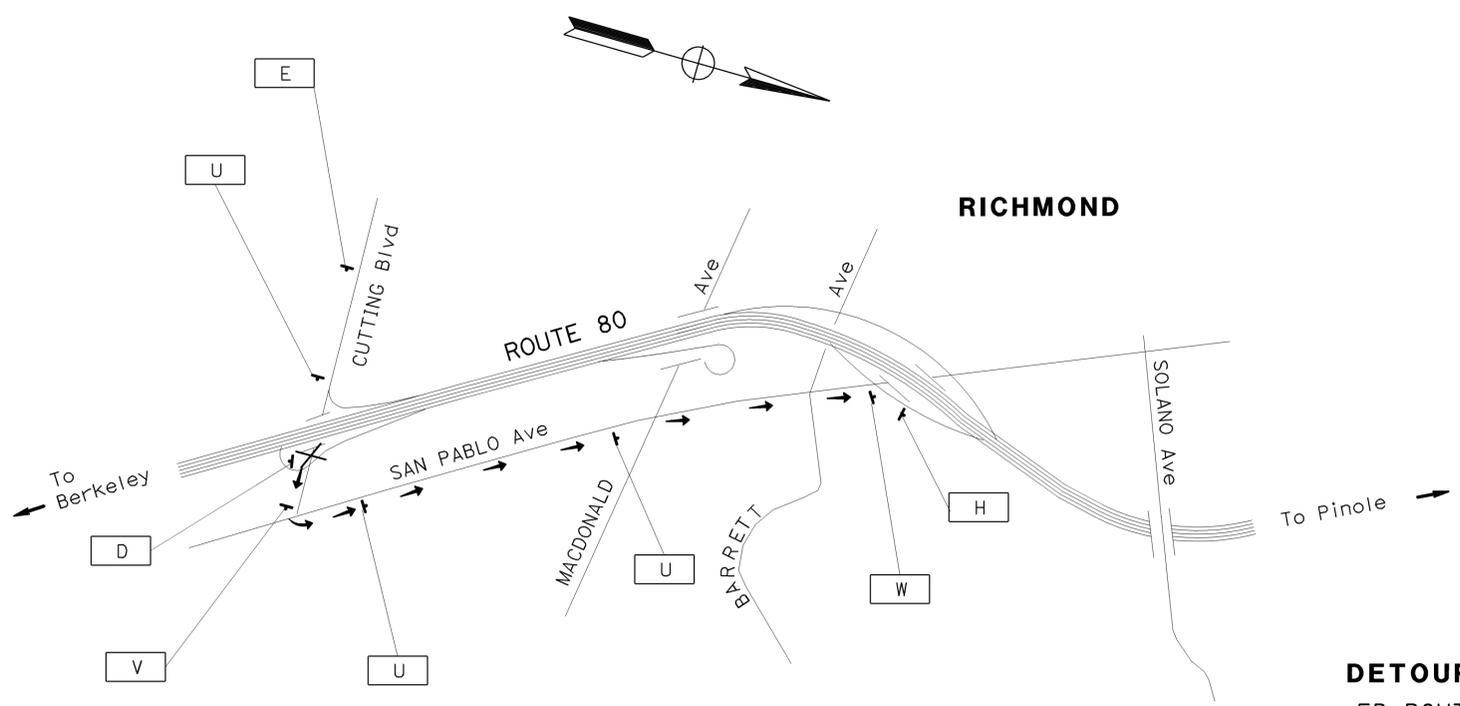
DESIGNED BY
 CHECKED BY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	8	31

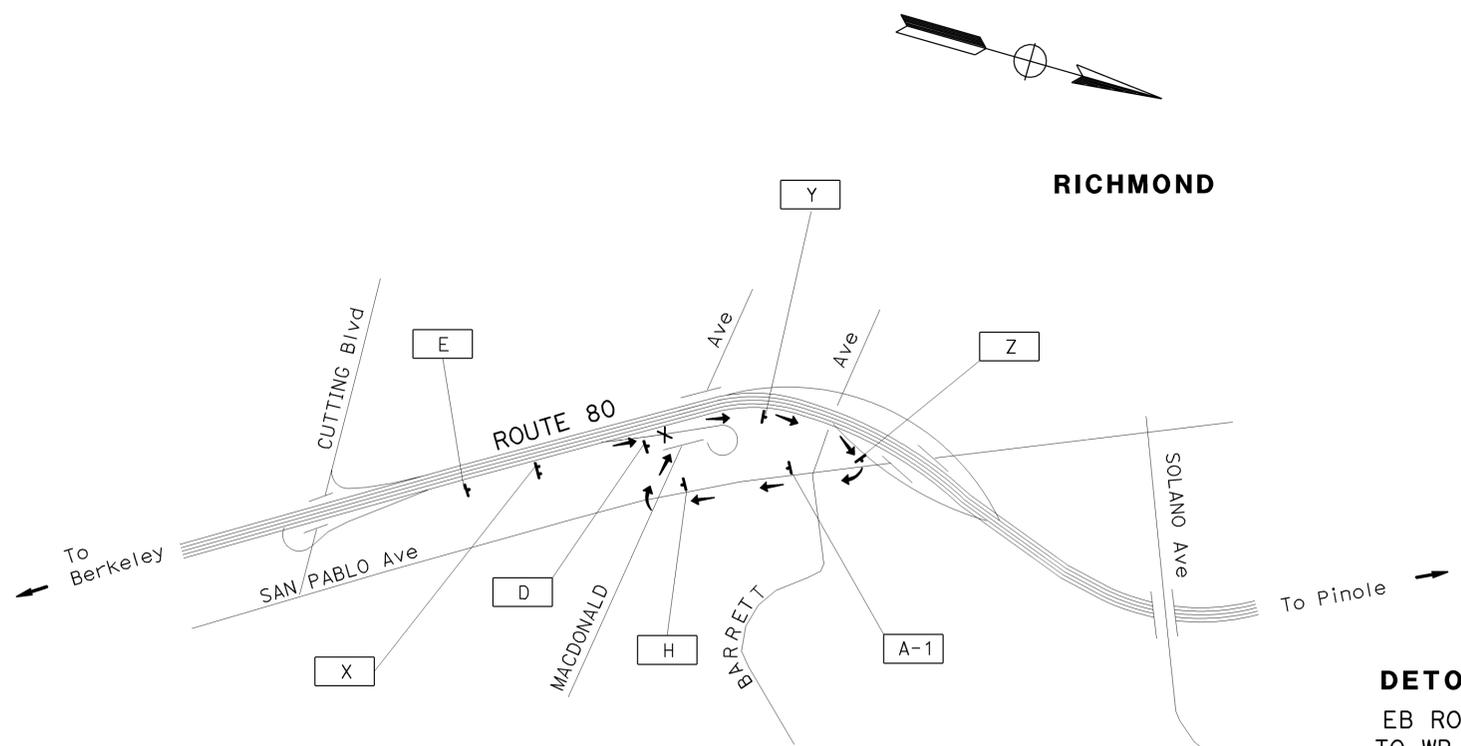
Lourdes David 9-16-09
 REGISTERED CIVIL ENGINEER DATE
 1-25-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Lourdes David
 No. 51428
 Exp. 6-30-10
 CIVIL
 STATE OF CALIFORNIA

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DETOUR PLAN No. 6
 EB ROUTE 80 ON-RAMP
 FROM EB CUTTING BOULEVARD
 CLOSED



DETOUR PLAN No. 7
 EB ROUTE 80 OFF-RAMP
 TO WB MACDONALD AVENUE
 CLOSED

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-6

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No.	SIGN CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	No. OF SIGNS	REMARK
CS-1	A	W20-1	ROAD WORK AHEAD	60'' x 60''	(TWO) 4'' x 6''	10	
	B	W20-1	ROAD WORK AHEAD	48'' x 48''	(ONE) 4'' x 6''	2	
	C	G20-2	END ROAD WORK	48'' x 24''	(ONE) 4'' x 4''	11	
CS-2	A	W20-1	ROAD WORK AHEAD	60'' x 60''	(TWO) 4'' x 6''	13	
	B	W20-1	ROAD WORK AHEAD	48'' x 48''	(ONE) 4'' x 6''	7	
	C	G20-2	END ROAD WORK	48'' x 24''	(ONE) 4'' x 4''	19	
CS-3	D	SC6-4 (CA)	RAMP CLOSURE NOTICE	48'' x 60''	(ONE) 6'' x 6''	2	
	E	W20-2	DETOUR AHEAD	48'' x 48''	(ONE) 4'' x 6''	2	
	F	M4-8	DETOUR	21'' x 9''	(ONE) 4'' x 6''	1	
		M3-1	NORTH	21'' x 9''			
		G27-2(680) (CA)	ROUTE 680 SHIELD	30'' x 25''			
	G	M6-3 (↑)	STRAIGHT AHEAD ARROW	21'' x 15''	(ONE) 4'' x 6''	3	
		M4-8	DETOUR	21'' x 9''			
		M3-1	NORTH	21'' x 9''			
	H	G27-2(680) (CA)	ROUTE 680 SHIELD	30'' x 25''	(ONE) 4'' x 6''	3	
		M6-2 (↗)	UPRIGHT ARROW	21'' x 15''			
		M4-8a	END DETOUR	30'' x 18''			
	I	M4-8	DETOUR	21'' x 9''	(ONE) 4'' x 6''	1	
		M3-4	WEST	21'' x 9''			
		G28-2(24) (CA)	ROUTE 24 SHIELD	24'' x 25''			
		M6-3 (↑)	STRAIGHT AHEAD ARROW	21'' x 15''			
J	M4-8	DETOUR	21'' x 9''	(ONE) 4'' x 6''	3		
	M3-4	WEST	21'' x 9''				
	G28-2(24) (CA)	ROUTE 24 SHIELD	24'' x 25''				
K	M6-1 (←)	LEFT ARROW	21'' x 15''	(ONE) 4'' x 6''	1		
	M4-8	DETOUR	21'' x 9''				
	M3-4	WEST	21'' x 9''				
L	G28-2(24) (CA)	ROUTE 24 SHIELD	24'' x 25''	(ONE) 4'' x 6''	1		
	M6-1 (→)	RIGHT ARROW	21'' x 15''				
	M4-8	DETOUR	21'' x 9''				
	M3-4	WEST	21'' x 9''				
L	G28-2(24) (CA)	ROUTE 24 SHIELD	24'' x 25''	(ONE) 4'' x 6''	1		
	M6-2 (↗)	UPRIGHT ARROW	21'' x 15''				

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	9	31

Lourdes David 9-16-09
 REGISTERED CIVIL ENGINEER DATE
 1-25-10
 PLANS APPROVAL DATE
 No. 51428
 Exp. 6-30-10
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No.	SIGN CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	No. OF SIGNS	REMARK
CS-4	D	SC6-4 (CA)	RAMP CLOSURE NOTICE	48'' x 60''	(ONE) 6'' x 6''	2	
	E	W20-2	DETOUR AHEAD	48'' x 48''	(ONE) 4'' x 6''	2	
	H	M4-8a	END DETOUR	30" x 18"	(ONE) 4'' x 4''	2	
		M4-8	DETOUR	21'' x 9''			
		M3-4	WEST	21'' x 9''			
	I	G28-2(24) (CA)	ROUTE 24 SHIELD	24'' x 25''	(ONE) 4'' x 6''	2	
		M6-3 (↑)	STRAIGHT AHEAD ARROW	21'' x 15''			
		M4-8	DETOUR	21'' x 9''			
	J	M3-4	WEST	21'' x 9''	(ONE) 4'' x 6''	1	
		G28-2(24) (CA)	ROUTE 24 SHIELD	24'' x 25''			
		M6-1 (←)	LEFT ARROW	21'' x 15''			
	N	SPECIAL	SB PLEASANT HILL ROAD RAMP CLOSED USE NEXT EXIT	102" x 84"	(TWO) 6'' x 8''	1	8" CAP
O	SPECIAL	SB PLEASANT HILL ROAD	102" x 60"	(TWO) 6'' x 6''	1	8" CAP	
P	SPECIAL	SB PLEASANT HILL ROAD	78" x 42"	(TWO) 4'' x 6''	1	6" CAP	

CONSTRUCTION AREA SIGNS

CS-7

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No.	SIGN CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	QUANTITY	REMARK
CS-5	D	SC6-4 (CA)	RAMP CLOSURE NOTICE	48'' x 60''	(ONE) 6'' x 6''	4	
	E	W20-2	DETOUR AHEAD	48'' x 48''	(ONE) 4'' x 6''	3	
	H	M4-8a	END DETOUR	30'' x 18''	(ONE) 4'' x 4''	2	
	Q	M4-8	DETOUR	21'' x 9''	(ONE) 4'' x 6''	3	
		M3-2	EAST	21'' x 9''			
		G28-2(24) (CA)	ROUTE 24 SHIELD	24'' x 25''			
		M6-1 (←)	LEFT ARROW	21'' x 15''			
	R	M4-8	DETOUR	21'' x 9''	(ONE) 4'' x 6''	3	
		M3-2	EAST	21'' x 9''			
		G28-2(24) (CA)	ROUTE 24 SHIELD	24'' x 25''			
		M6-2 (↗)	UPRIGHT ARROW	21'' x 15''			
	S	M4-8	DETOUR	21'' x 9''	(ONE) 4'' x 6''	1	
		M3-2	EAST	21'' x 9''			
		G28-2(24) (CA)	ROUTE 24 SHIELD	24'' x 25''			
	T	M6-1 (→)	RIGHT ARROW	21'' x 15''	(ONE) 4'' x 6''	1	8" CAP
SPECIAL		NB PLEASANT HILL ROAD RAMP CLOSED USE NEXT EXIT	132" x 72"				
CS-6	D	SC6-4 (CA)	RAMP CLOSURE NOTICE	48'' x 60''	(ONE) 6'' x 6''	2	
	E	W20-2	DETOUR AHEAD	48'' x 48''	(ONE) 4'' x 6''	2	
	H	M4-8a	END DETOUR	30'' x 18''	(ONE) 4'' x 4''	2	
	U	M4-8	DETOUR	21'' x 9''	(ONE) 4'' x 6''	3	
		M3-2	EAST	21'' x 9''			
		G27-2(80) (CA)	ROUTE 80 SHIELD	24'' x 25''			
	V	M6-3 (↑)	STRAIGHT AHEAD ARROW	21'' x 15''	(ONE) 4'' x 6''	1	
		M4-8	DETOUR	21'' x 9''			
		M3-2	EAST	21'' x 9''			
		G27-2(80) (CA)	ROUTE 80 SHIELD	24'' x 25''			
V	M6-1 (←)	LEFT ARROW	21'' x 15''	(ONE) 4'' x 6''	1		
	M6-1 (←)	LEFT ARROW	21'' x 15''				

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	10	31

Lourdes David 9-16-09
 REGISTERED CIVIL ENGINEER DATE
 1-25-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 No. 51428
 Exp. 6-30-10
 CIVIL
 STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No.	SIGN CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	QUANTITY	REMARK
CS-6	W	M4-8	DETOUR	21'' x 9''	(ONE) 4'' x 6''	1	
		M3-2	EAST	21'' x 9''			
		G27-2(80) (CA)	ROUTE 80 SHIELD	24'' x 25''			
		M6-2 (↗)	UPRIGHT ARROW	21'' x 15''			
CS-6	X	SPECIAL	MACDONALD AVENUE RAMP CLOSED USE NEXT EXIT	120" x 84"	(TWO) 6'' x 8''	1	8" CAP
	Y	SPECIAL	MACDONALD AVENUE ↗	66" x 48"	(TWO) 4'' x 6''	1	6" CAP
	Z	SPECIAL	MACDONALD AVENUE ↖	66" x 48"	(TWO) 4'' x 6''	1	6" CAP
	A-1	SPECIAL	MACDONALD AVENUE ↑	66" x 48"	(TWO) 4'' x 6''	1	6" CAP

CONSTRUCTION AREA SIGNS

CS-8

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	11	31

Robert Camargo 1-12-10
 REGISTERED CIVIL ENGINEER DATE
 1-25-10
 PLANS APPROVAL DATE

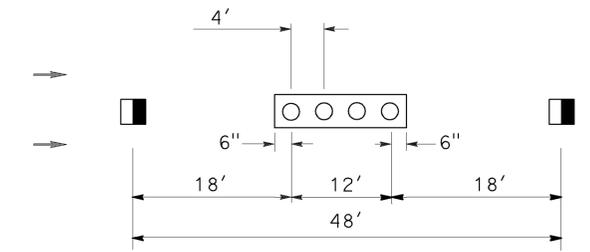
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LOCATION	BRIDGE NAME	BRIDGE No.	DETAIL No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE		REMOVE PAVEMENT MARKERS	REMOVE YELLOW THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE				PAVEMENT MARKER (RETROREFLECTIVE)		THERMOPLASTIC PAVEMENT MARKING	
				WHITE	YELLOW			4" WHITE	4" YELLOW	8" WHITE	4" WHITE (BROKEN 35-13)	NON-REFLECTIVE TYPE A	TYPE G	TYPE H	LIMIT LINE
				LF				EA	LF				EA		SQFT
1	MORELLO Ave UC	28-0218L	13M	104		42					352	32	10		
			25		176	5				176				5	
			27B	176						176					
2	MORELLO Ave UC	28-0218R	13M	104		42					352	32	10		
			25		176	5				176				5	
			27B	176						176					
4	SOLANO WAY UC	28-0241R	13M	78		31					283	24	7		
			25		283	7			283					7	
			27B	283					283						
			36	1132		14					566		14		
5	CAMINO PABLO UC	28-0103K	25A		112	6				112				6	
			27B	112					112						
6	ACALANES Rd UC	28-0110S	25A		90	5				90				5	
			27B	90					90						
8	DOLORES Dr UC	28-0134L	13M			48					375	36	12		
			25		125	4			125					4	
			27B	125				125							
9	LAFAYETTE STA PUC BART	28-0230L	13M			33					300	24	9		
			25		100	3			100					3	
			27B	100				100							
10	FIRST St UC	28-0228L	13M	117		48					390	36	12		
			25		130	4			130					4	
			27B	130				130							
14	MOUNT DIABLO Blvd UC	28-0045S	25		227	10					227			10	
			27B	227				227							
15	PLEASANT HILL Rd UC	28-0106L	13M			78					732	60	18		
			25		244	6			244					6	
			27B	244				244							
16	PLEASANT HILL Rd UC	28-0106R	13M			78					732	60	18		
			25		244	6			244					6	
			27B	244				244							
17	PLEASANT HILL Rd UC	28-0106K	25A		245	11				245				11	
			27B	245				245							
			38B	244		12				122		12			
18	PLEASANT HILL Rd UC	28-0106S	25A		244	11				244				11	
			27B	244				244							
LIMIT LINE						88								88	
19	E24-N680 CONNECTOR OC	28-0126G	13M	1040		402					5060	320		82	
			25A		2675	114			2675					114	
			27B	2675				2675							
			36	1460		64			730		64				
20	CUTTING Blvd UC	28-0080R	13M	195		78					672	60	18		
			25		224	6			224					6	
			27B	224				224							
22	MACDONALD Ave UC	28-0082S	25A		277	13				277				13	
			27B	277				277							
			TOTAL				10494	5572	1206	88	11144	1642	9248	684	522

NOTE: EXISTING PAVEMENT DELINEATION TO BE REPLACED IN KIND OR AS DIRECTED BY THE ENGINEER

LEGEND

- DIRECTION OF TRAVEL
- TYPE G ONE WAY RETROREFLECTIVE MARKER
- 4" WHITE LINE
- TYPE A WHITE NON-REFLECTIVE MARKER



DETAIL 13M

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	12	31

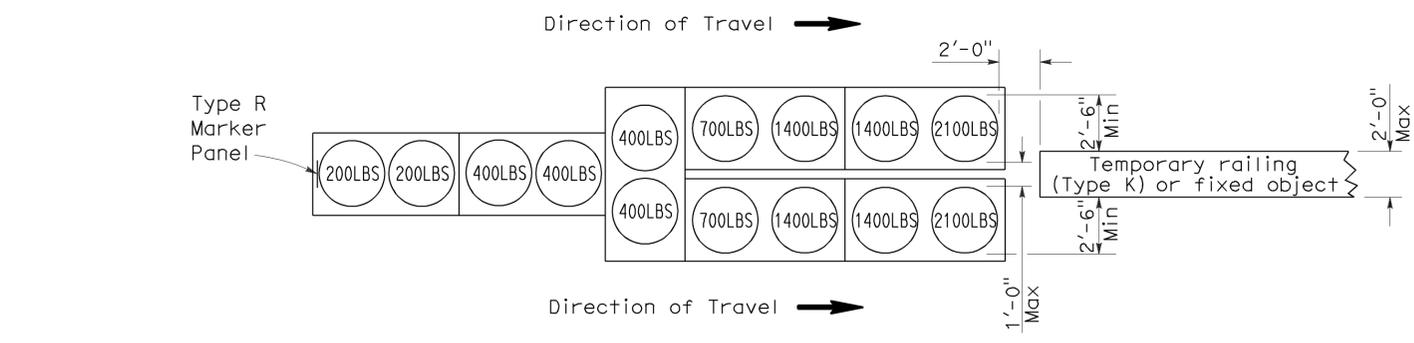
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

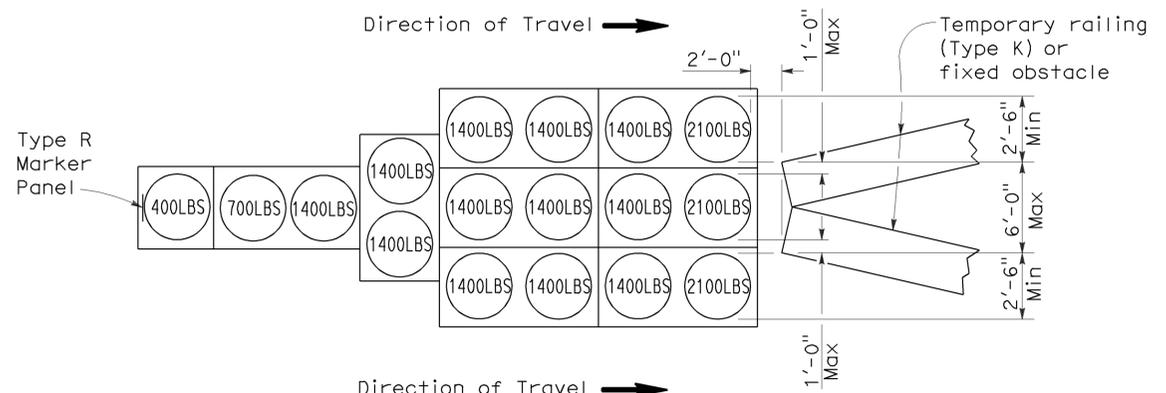
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-25-10



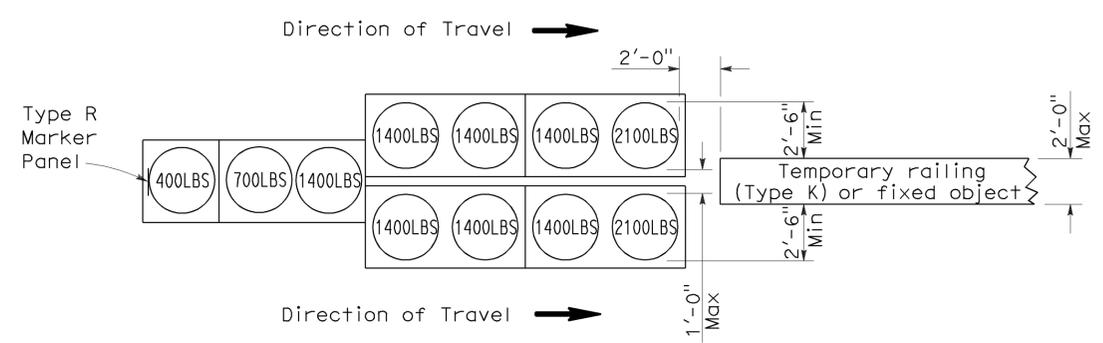
ARRAY 'TU14'

Approach speed 45 mph or more



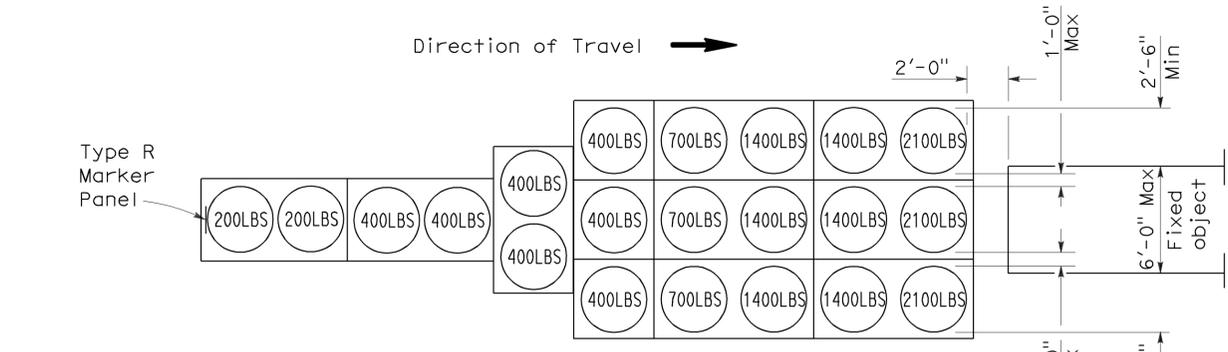
ARRAY 'TU17'

Approach speed less than 45 mph



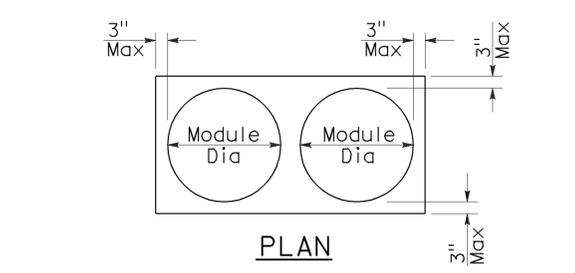
ARRAY 'TU11'

Approach speed less than 45 mph

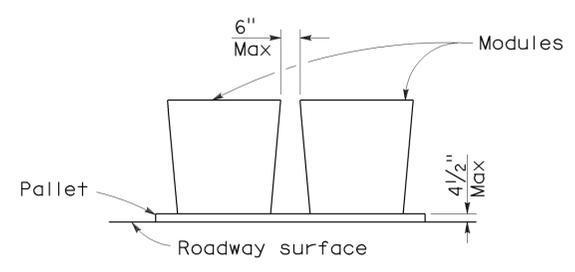


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

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
04	CC	4, 24 80, 680	Var	13	31

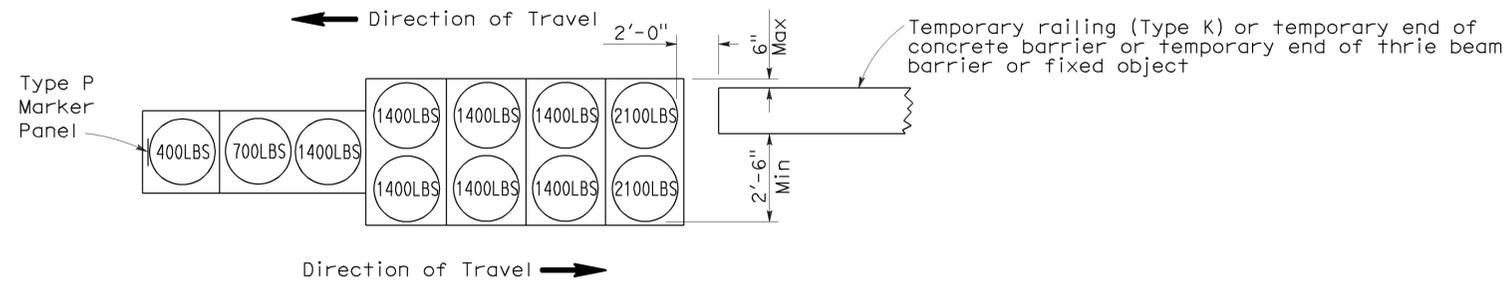
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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.

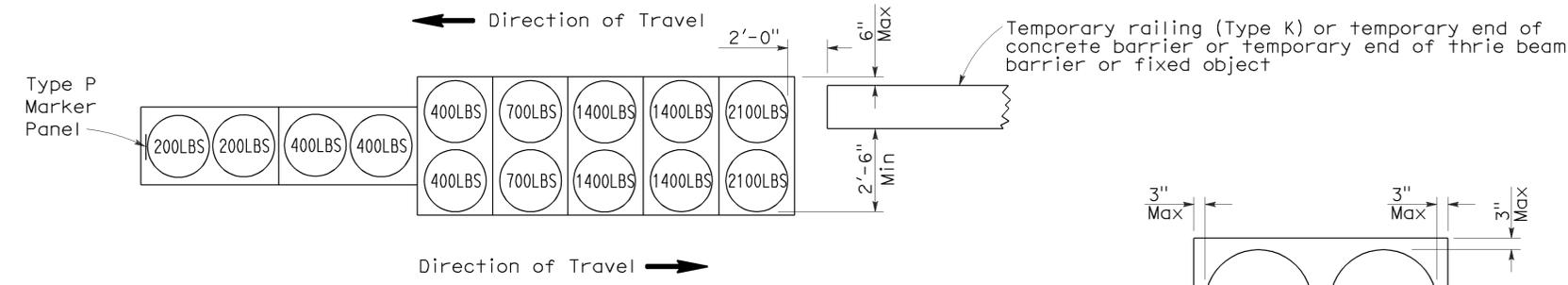
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-25-10



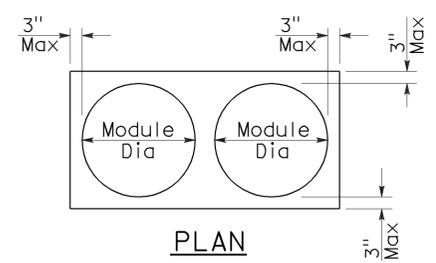
ARRAY 'TB11'

Approach speed less than 45 mph

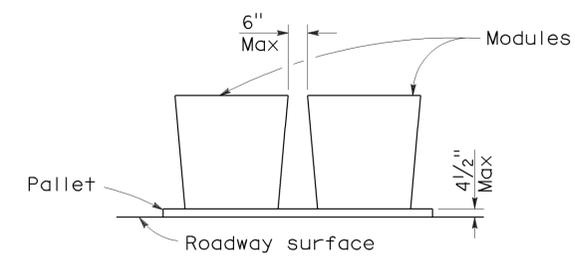


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

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
04	CC	4, 24 80, 680	Var	14	31

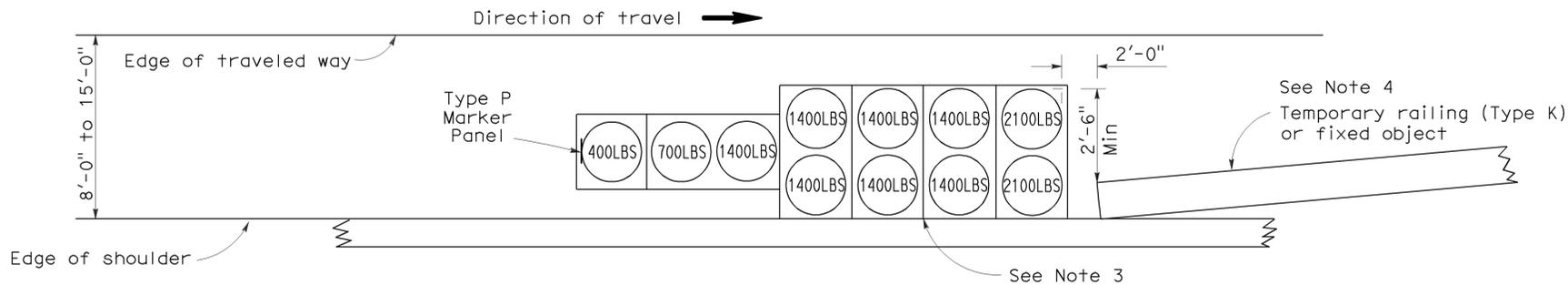
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

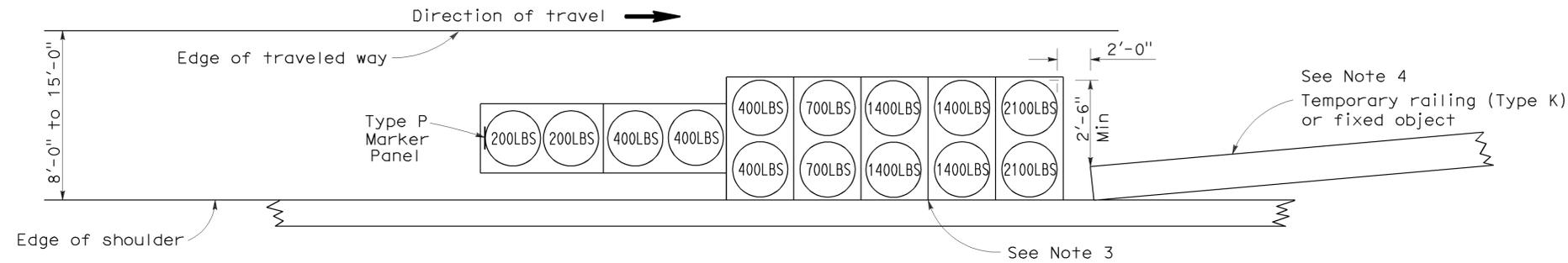
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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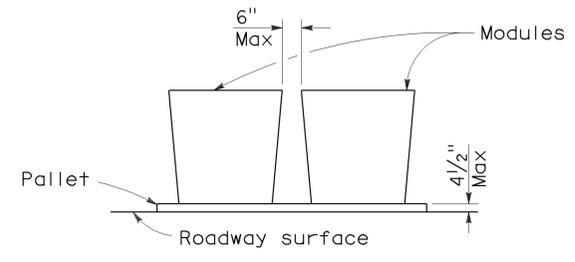
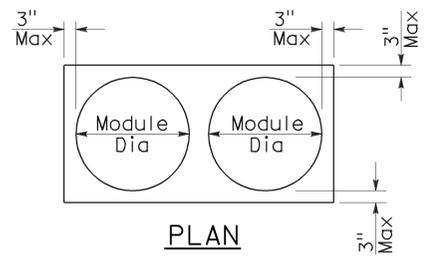
To accompany plans dated 1-25-10



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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	15	31

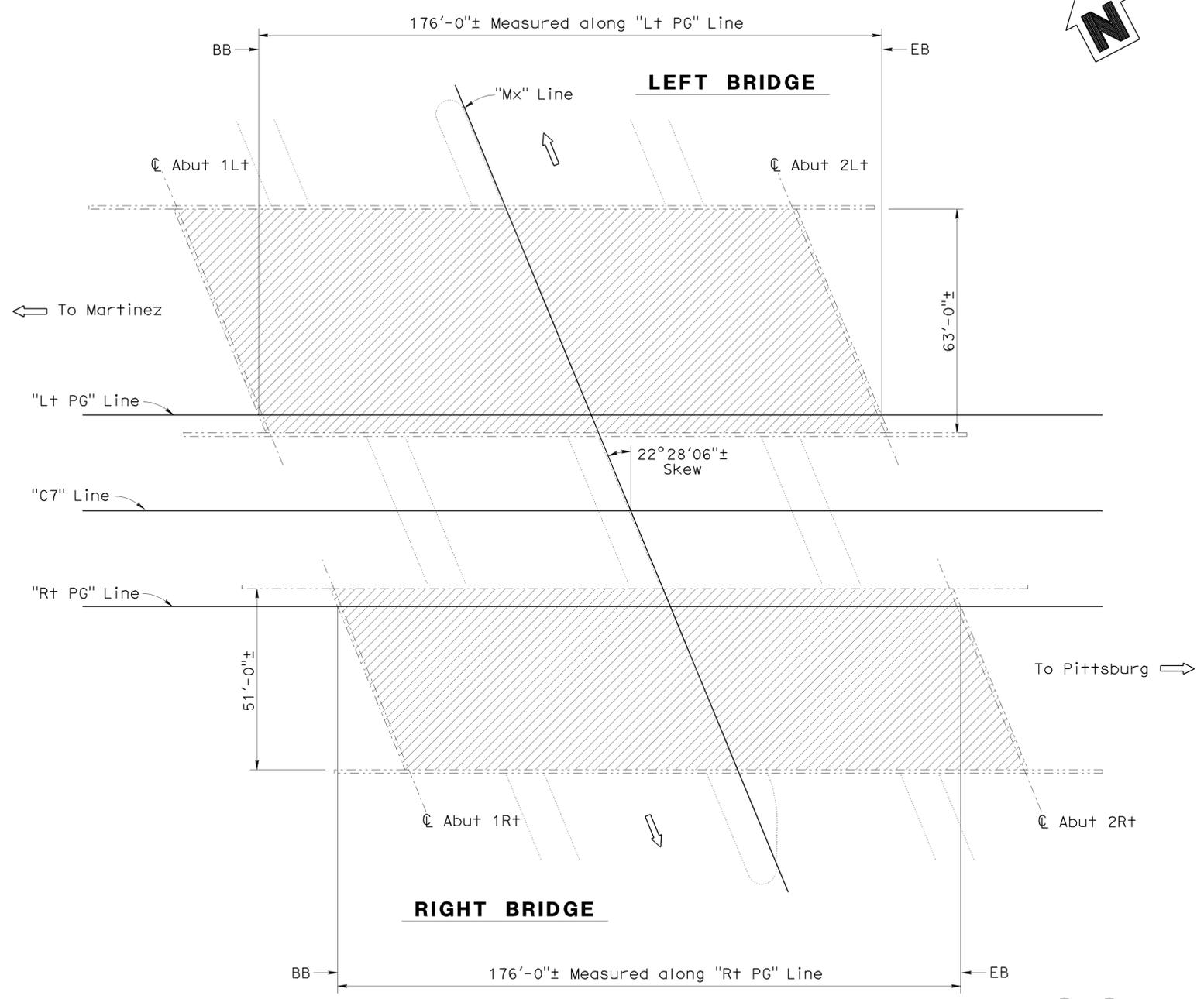
Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09

1-25-10
PLANS APPROVAL DATE

Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997



LEGEND:

- Indicates existing structure
- ⇒ Indicates direction of traffic
- ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
- - Indicates bridge location. see "Title" 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	GENERAL PLAN No. 10
11	GENERAL PLAN No. 11
12	GENERAL PLAN No. 12
13	GENERAL PLAN No. 13
14	GENERAL PLAN No. 14
15	DECK REPAIR DETAILS
16	JOINT SEAL DETAILS
17	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

STANDARD PLANS DATED MAY 2006

A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)

1 2 MORELLO AVENUE UC
Br No. 28-0218L/R, Route 4, PM R10.33
No Scale

1 2 MORELLO AVENUE UC (28-0218L/R)

QUANTITIES		
REMOVE UNSOUND CONCRETE	51	CF
CLEAN BRIDGE DECK	20,100	SQFT
RAPID SETTING CONCRETE (PATCH)	51	CF
TREAT BRIDGE DECK	20,100	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	268	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

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

DESIGN OVERSIGHT
SIGN OFF DATE 12-15-09

DESIGN	BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi
QUANTITIES	BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

REPLACE JOINT SEAL & TREAT BRIDGE DECKS

Br No. 28-0218L/R ON ROUTE 4

GENERAL PLAN No. 1

USERNAME => s126215 DATE PLOTTED => 25-JAN-2010 TIME PLOTTED => 13:54

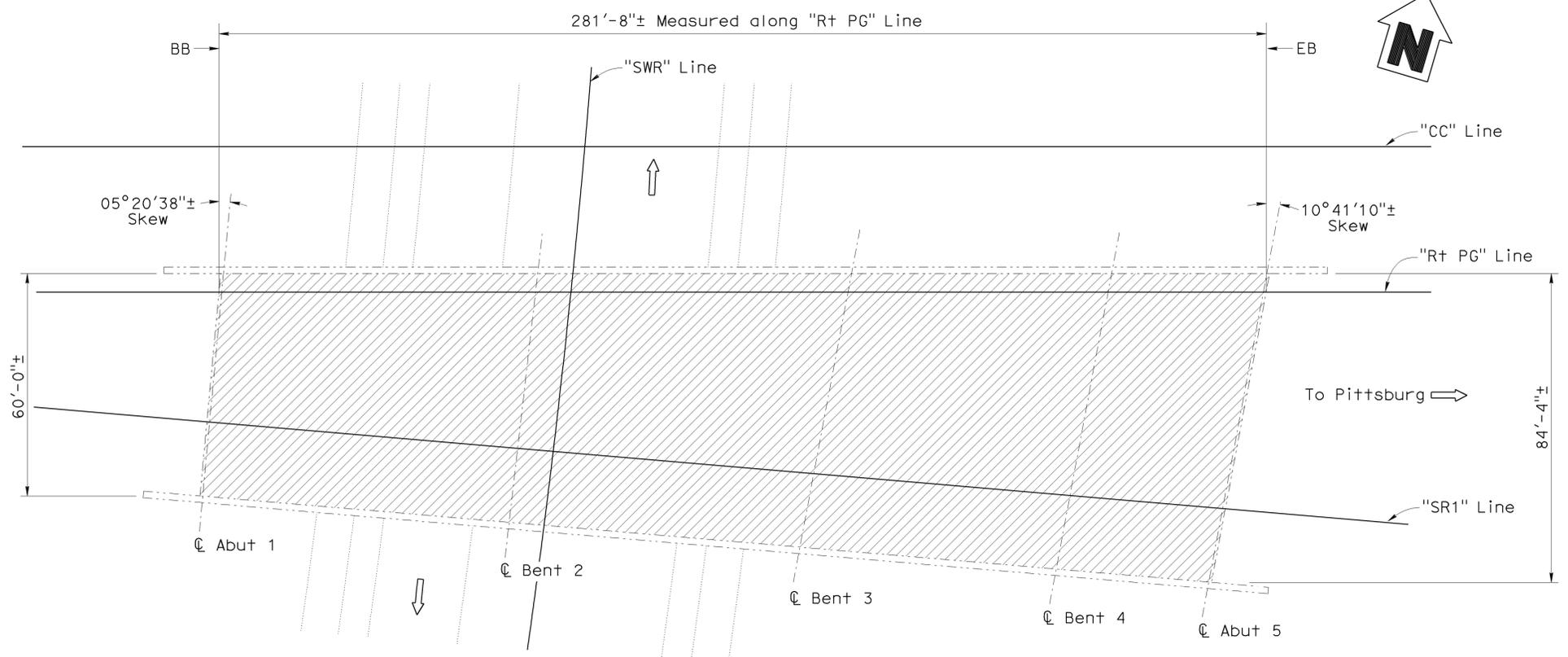
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	16	31

Syed M Kazmi 8/28/09
REGISTERED CIVIL ENGINEER DATE

1-25-10
PLANS APPROVAL DATE

Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997



- LEGEND:**
- Indicates existing structure
 - ⇒ Indicates direction of traffic
 - ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
 - Indicates location of existing joint seal removal and placement of new joint seal. For details see "Joint Seal Details" sheet.
 - Indicates bridge location. see "Title" sheet.

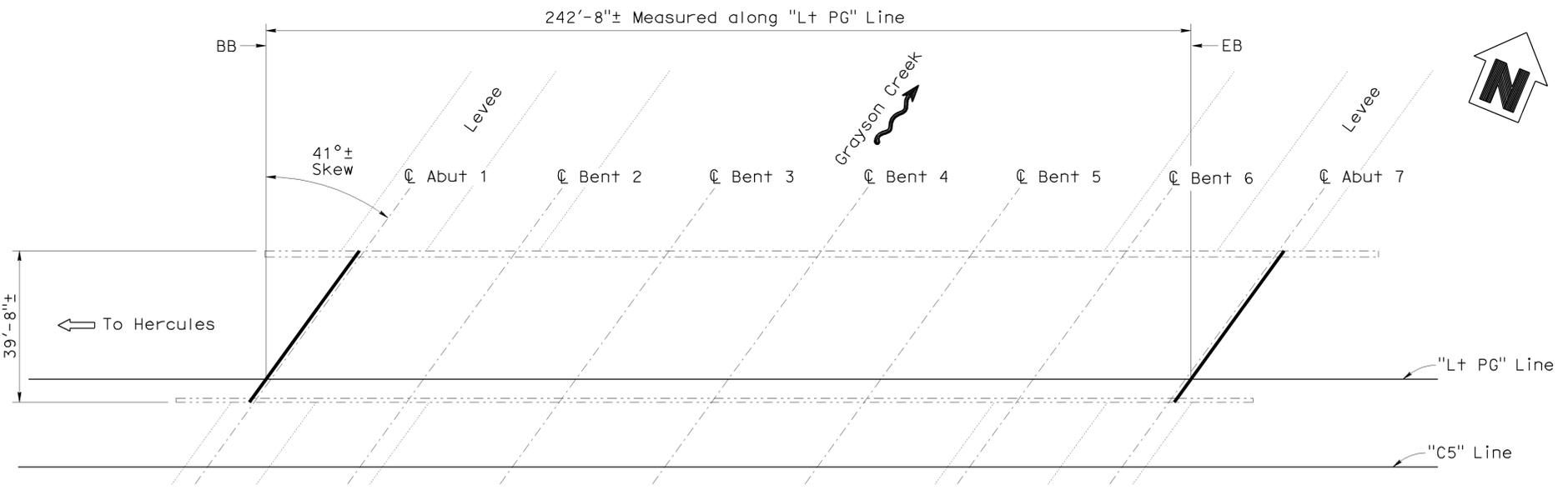
4 SOLANO WAY UC
Br No. 28-0241R, Route 4, PM R13.65
No Scale

3 GRAYSON CREEK (28-0066L)
QUANTITIES

CLEAN EXPANSION JOINT	100	LF
JOINT SEAL (MR 1")	100	LF

4 SOLANO WAY UC (28-0241R)
QUANTITIES

REMOVE UNSOUND CONCRETE	51	CF
CLEAN BRIDGE DECK	20,400	SQFT
RAPID SETTING CONCRETE (PATCH)	51	CF
TREAT BRIDGE DECK	20,400	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	272	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



3 GRAYSON CREEK
Br No. 28-0066L, Route 4, PM 12.90
No Scale

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

Kenneth R Brown
DESIGN OVERSIGHT
12-15-09
SIGN OFF DATE

DESIGN	BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi
QUANTITIES	BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

REPLACE JOINT SEAL & TREAT BRIDGE DECKS
Br No. 28-0066L & 28-0241R ON ROUTE 4
GENERAL PLAN No. 2

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 04
EA 1E4601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

3-27-09	5-4-09	6-18-09	8-28-09	12-15-09
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SHEET 2 OF 17

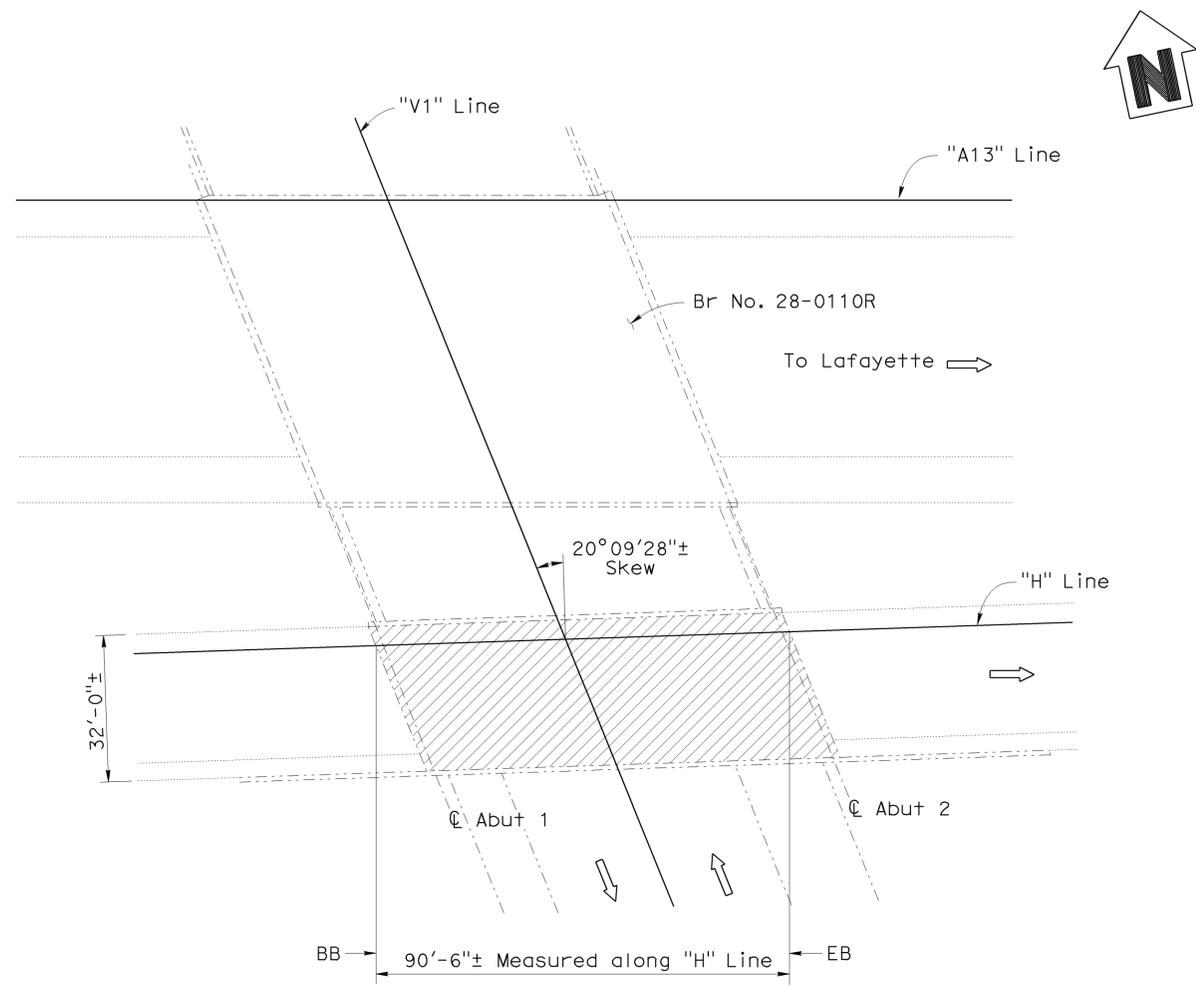
USERNAME => s126215 DATE PLOTTED => 25-JAN-2010 TIME PLOTTED => 13:54

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	17	31

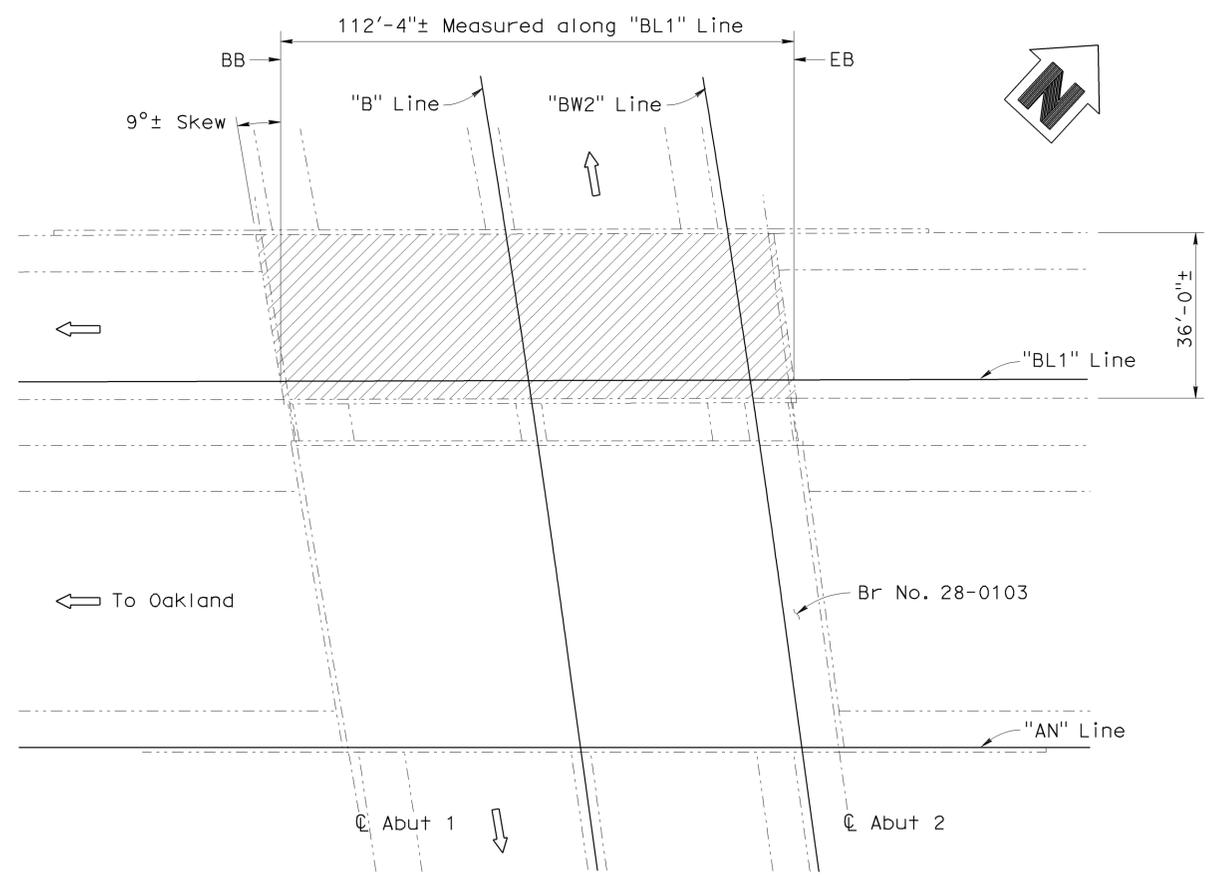
Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09
1-25-10
PLANS APPROVAL DATE
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997

- LEGEND:**
- Indicates existing structure
 - Indicates direction of traffic
 - ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
 - ⊖ Indicates bridge location, see "Title" sheet.



6 ACALANES ROAD UC
Br No. 28-0110S, Route 24, PM R4.40
No Scale



5 CAMINO PABLO UC
Br No. 28-0103K, Route 24, PM R2.31
No Scale

5 CAMINO PABLO UC (28-0103K)
QUANTITIES

REMOVE UNSOUND CONCRETE	11	CF
CLEAN BRIDGE DECK	4,100	SQFT
RAPID SETTING CONCRETE (PATCH)	11	CF
TREAT BRIDGE DECK	4,100	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	55	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

6 ACALANES ROAD UC (28-0110S)
QUANTITIES

REMOVE UNSOUND CONCRETE	8	CF
CLEAN BRIDGE DECK	3,000	SQFT
RAPID SETTING CONCRETE (PATCH)	8	CF
TREAT BRIDGE DECK	3,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	40	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

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

DESIGN OVERSIGHT
12-15-09
SIGN OFF DATE

DESIGN BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS BY C. Doehne	CHECKED D. Anderson	LAYOUT BY H. Choi	CHECKED D. Anderson
QUANTITIES BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS BY D. Harnagel	PLANS AND SPECS COMPARED S. Kazmi

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
Syed Kazmi
PROJECT ENGINEER

BRIDGE NO.	Various
POST MILES	Varies

REPLACE JOINT SEAL & TREAT BRIDGE DECKS
Br No. 28-0103K & 28-0110S ON ROUTE 24
GENERAL PLAN No. 3

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 04
EA 1E4601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

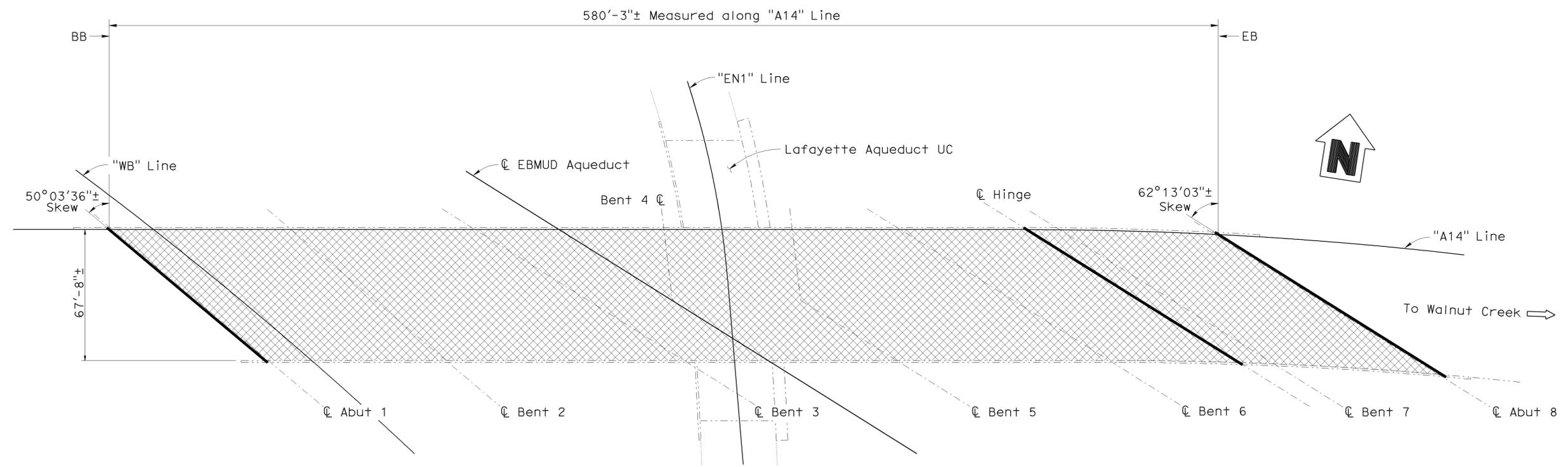
REVISION DATES (PRELIMINARY STAGE ONLY)	3-27-09	5-18-09	6-18-09	8-28-09	12-15-09	SHEET 3 OF 17
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	18	31

Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09
1-25-10
PLANS APPROVAL DATE
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997

- LEGEND:**
- Indicates existing structure
 - Indicates direction of traffic
 - ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean Deck. See "Deck Repair Detail (A)" on "Deck Repair Details" sheet.
 - /— Indicates location of existing joint seal removal and placement of new joint seal. For details see "Joint Seal Details" sheet.
 - Indicates bridge location. see "Title" sheet.



7 LAFAYETTE UC (28-0137R)
QUANTITIES

REMOVE UNSOUND CONCRETE	99	CF
CLEAN BRIDGE DECK	39,300	SQFT
CLEAN EXPANSION JOINT	387	LF
RAPID SETTING CONCRETE (PATCH)	99	CF
JOINT SEAL (MR 1")	146	LF
JOINT SEAL (MR 1 1/2")	106	LF
JOINT SEAL (MR 2")	135	LF

7 LAFAYETTE UC
Br No. 28-0137R, Route 24, PM R4.90
No Scale

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

Kenneth R Brown
DESIGN OVERSIGHT
12-15-09
SIGN OFF DATE

DESIGN	BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi
QUANTITIES	BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel
			PLANS AND SPECS COMPARED	S. Kazmi

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
Syed Kazmi
PROJECT ENGINEER

BRIDGE NO.	Various
POST MILES	Varies

REPLACE JOINT SEAL & TREAT BRIDGE DECKS

Br No. 28-0137R ON ROUTE 24
GENERAL PLAN No. 4

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 04
EA 1E4601

DISREGARD PRINTS BEARING EARLIER REVISION DATES	3-27-09	5-8-09	6-18-09	8-28-09	12-15-09					SHEET 4	OF 17
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	19	31

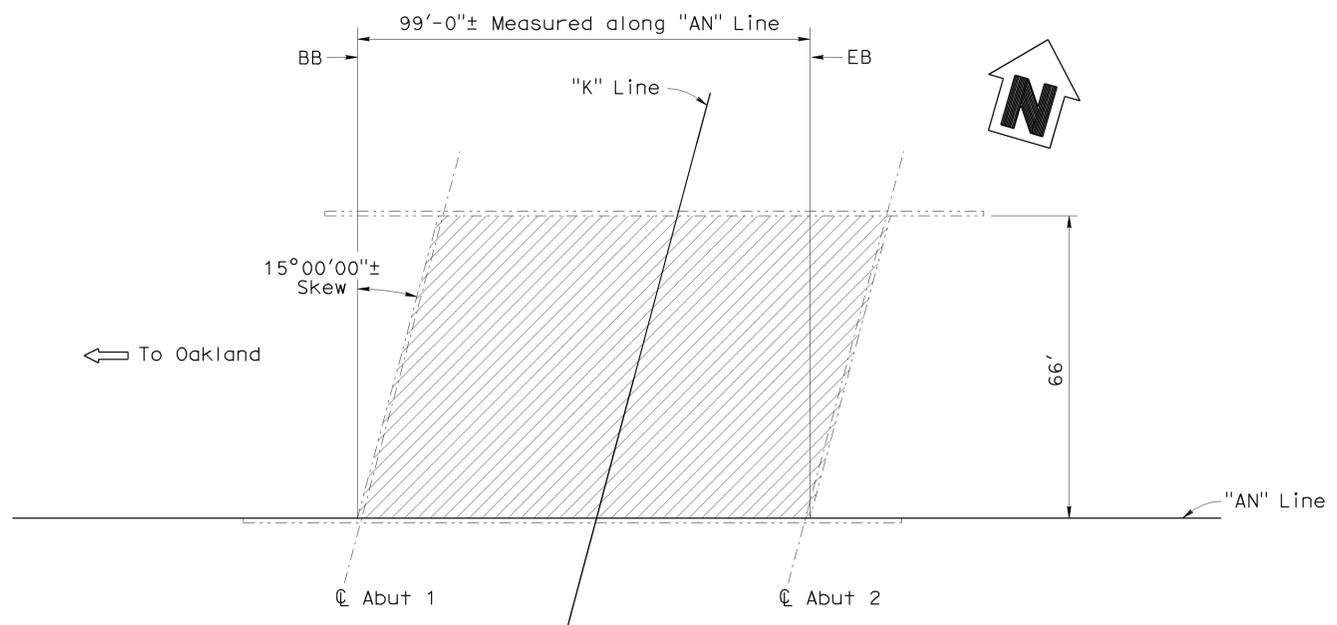
Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09

1-25-10
PLANS APPROVAL DATE

Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997

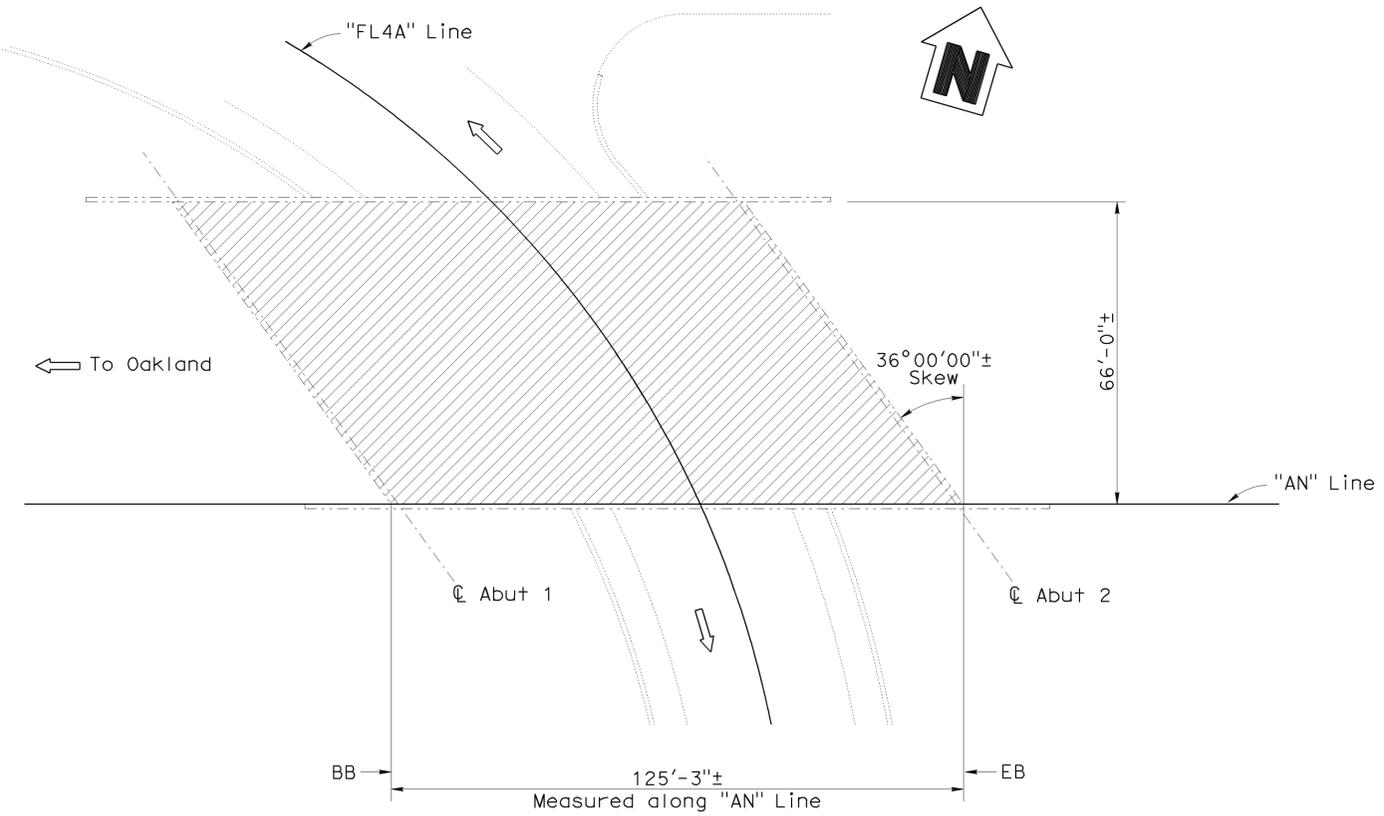


9 LAFAYETTE STA PUC BART
Br No. 28-0230L, Route 24, PM R6.08
No Scale

- LEGEND:**
- Indicates existing structure
 - Indicates direction of traffic
 - ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
 - Indicates bridge location. see "Title" sheet.

9 LAFAYETTE STATION PEDESTRIAN UC BART (28-0230L)

QUANTITIES		
REMOVE UNSOUND CONCRETE	17	CF
CLEAN BRIDGE DECK	6,600	SQFT
RAPID SETTING CONCRETE (PATCH)	17	CF
TREAT BRIDGE DECK	6,600	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	88	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



8 DOLORES DRIVE UC
Br No. 28-0134L, Route 24, PM R5.840
No Scale

8 DOLORES DRIVE UC (28-0134L)

QUANTITIES		
REMOVE UNSOUND CONCRETE	21	CF
CLEAN BRIDGE DECK	8,300	SQFT
RAPID SETTING CONCRETE (PATCH)	21	CF
TREAT BRIDGE DECK	8,300	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	111	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

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

 DESIGN OVERSIGHT 12-15-09 SIGN OFF DATE	DESIGN BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Syed Kazmi PROJECT ENGINEER	BRIDGE NO. Various	
	DETAILS BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi		CHECKED D. Anderson	POST MILES
	QUANTITIES BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel		PLANS AND SPECS COMPARED S. Kazmi	Varies

REPLACE JOINT SEAL & TREAT BRIDGE DECKS

Br No. 28-0134L & 28-0230L ON ROUTE 24

GENERAL PLAN No. 5

CU 04	EA 1E4601	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 5 OF 17
		3-22-09 5-8-09 6-18-09 8-28-09 12-15-09	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	20	31

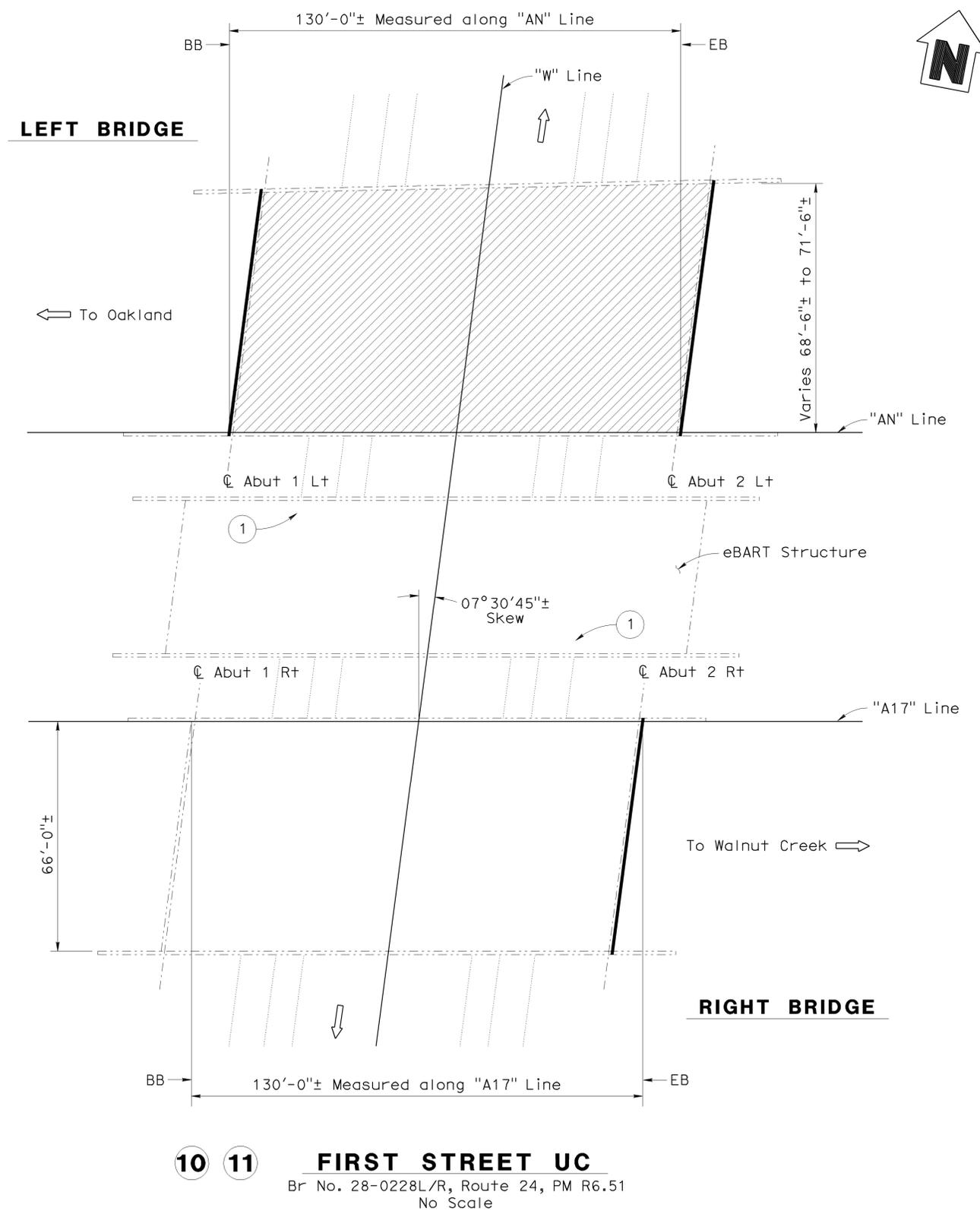
Syed M Kazmi 8/28/09
REGISTERED CIVIL ENGINEER DATE

1-25-10
PLANS APPROVAL DATE

Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997



LEGEND:

- Indicates existing structure
- ➡ Indicates direction of traffic
- ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
- ↘ Indicates location of existing joint seal removal and placement of new joint seal. For details see "Joint Seal Details" sheet.
- ① Remove the existing bridge identification for Br. No. 28-0228R on the columns of the eBART Structure.
- Indicates bridge location. see "Title" sheet.

10 11 FIRST STREET UC (28-0228L/R)
QUANTITIES

REMOVE UNSOUND CONCRETE	23	CF
CLEAN BRIDGE DECK	9,100	SQFT
CLEAN EXPANSION JOINT	210	LF
RAPID SETTING CONCRETE (PATCH)	23	CF
JOINT SEAL (MR 1/2")	67	LF
JOINT SEAL (MR 1")	143	LF
TREAT BRIDGE DEC	9,100	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	437	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

10 11 FIRST STREET UC
Br No. 28-0228L/R, Route 24, PM R6.51
No Scale

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

 DESIGN OVERSIGHT 12-15-09 SIGN OFF DATE	DESIGN BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Syed Kazmi PROJECT ENGINEER	BRIDGE NO. Various	
	DETAILS BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi		CHECKED D. Anderson	POST MILES Various
	QUANTITIES BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel		PLANS AND SPECS COMPARED S. Kazmi	

REPLACE JOINT SEAL & TREAT BRIDGE DECKS

Br No. 28-0228L/R ON ROUTE 24

GENERAL PLAN No. 6

USERNAME => s126215 DATE PLOTTED => 25-JAN-2010 TIME PLOTTED => 13:54

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	21	31

Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09

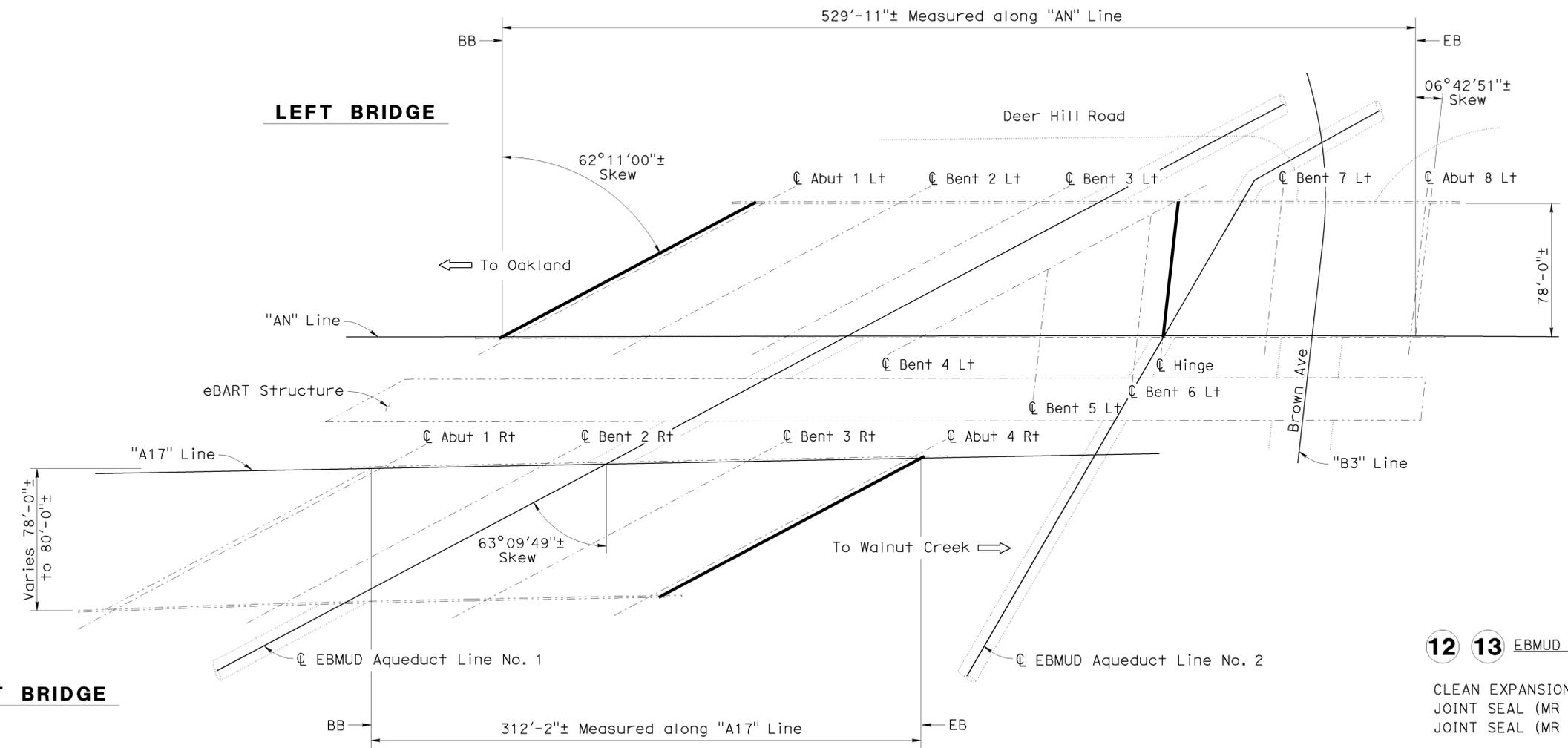
1-25-10
PLANS APPROVAL DATE

Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997

- LEGEND:**
- Indicates existing structure
 - ⇒ Indicates direction of traffic
 - /— Indicates location of existing joint seal removal and placement of new joint seal. For details see "Joint Seal Details" sheet.
 - - Indicates bridge location. see "Title" sheet.



12	13	EBMUD AQUEDUCT UC (28-0145L/R)	QUANTITIES
		CLEAN EXPANSION JOINT	422 LF
		JOINT SEAL (MR 1 1/2")	174 LF
		JOINT SEAL (MR 2")	248 LF

12 13 EBMUD AQUEDUCT UC
Br No. 28-0145L/R, Route 24, PM R6.75
No Scale

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

 DESIGN OVERSIGHT 12-15-09 SIGN OFF DATE	DESIGN BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Syed Kazmi PROJECT ENGINEER	BRIDGE NO. Various	
	DETAILS BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi		CHECKED D. Anderson	POST MILES Varies
	QUANTITIES BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel		PLANS AND SPECS COMPARED S. Kazmi	

REPLACE JOINT SEAL & TREAT BRIDGE DECKS

Br No. 28-0145L & 28-0145R ON ROUTE 24

GENERAL PLAN No. 7

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 04 EA 1E4601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th>REVISION DATES (PRELIMINARY STAGE ONLY)</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>3-27-09 5-8-09 6-18-09 8-28-09 12-15-09</td> <td>7</td> <td>17</td> </tr> </table>	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF	3-27-09 5-8-09 6-18-09 8-28-09 12-15-09	7	17
REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF									
3-27-09 5-8-09 6-18-09 8-28-09 12-15-09	7	17									

USERNAME => s126215 DATE PLOTTED => 25-JAN-2010 TIME PLOTTED => 13:54

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	22	31

Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09

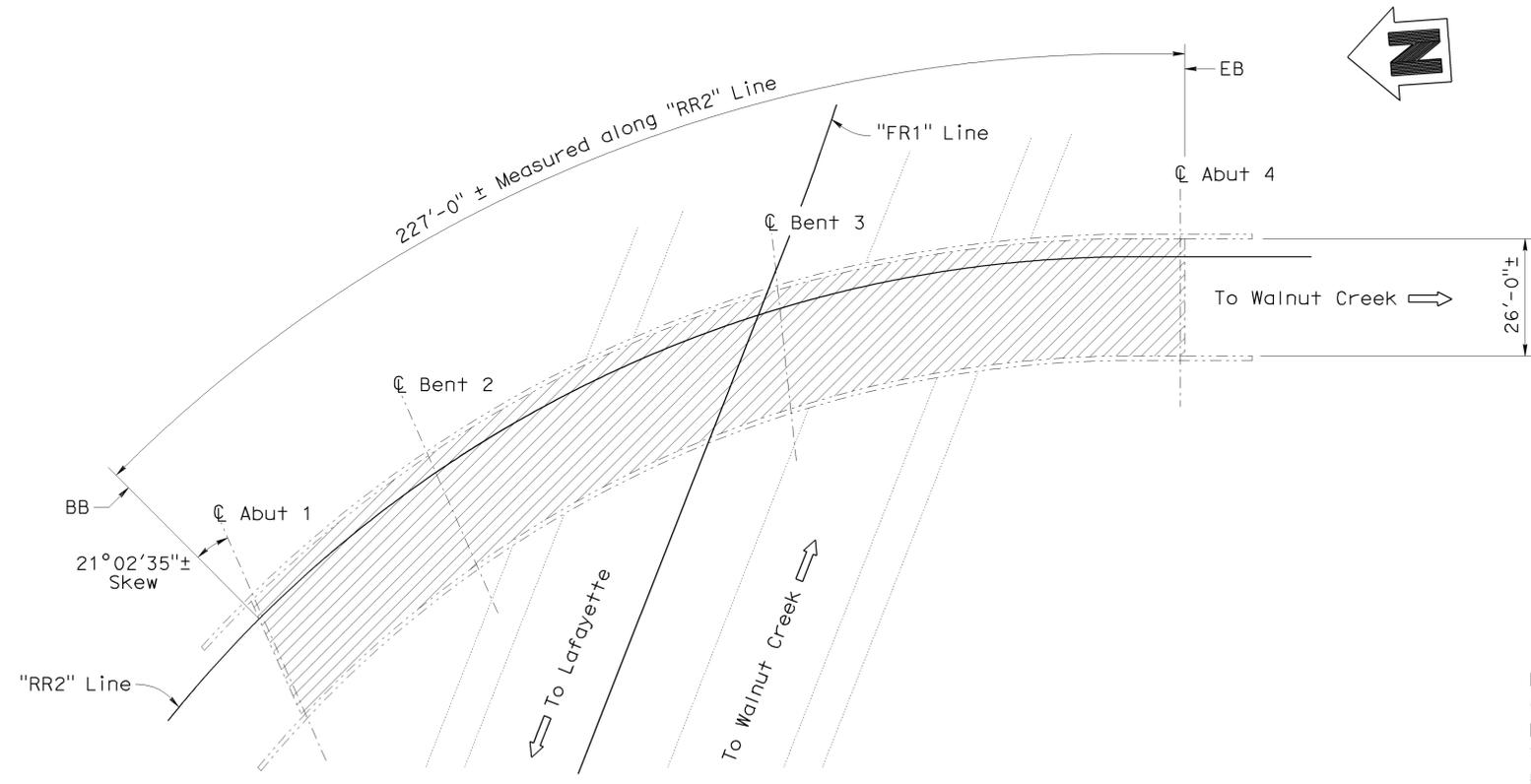
1-25-10
PLANS APPROVAL DATE

Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997

- LEGEND:**
- Indicates existing structure
 - ➔ Indicates direction of traffic
 - ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
 - Indicates bridge location. See "Title" sheet.



14 MOUNT DIABLO BOULEVARD UC (28-0045S) QUANTITIES

REMOVE UNSOUND CONCRETE	15	CF
CLEAN BRIDGE DECK	6,000	SQFT
RAPID SETTING CONCRETE (PATCH)	15	CF
TREAT BRIDGE DECK	6,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	80	GAL
PUBLIC SAFETY PLAN		LUMP SUM

14 MOUNT DIABLO BOULEVARD UC
Br No. 28-0045S, Route 24, PM R7.6
No Scale

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

Kenneth R Brown
DESIGN OVERSIGHT
SIGN OFF DATE 12-15-09

DESIGN	BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi
QUANTITIES	BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
Syed Kazmi
PROJECT ENGINEER

REPLACE JOINT SEAL & TREAT BRIDGE DECKS
Br No. 28-0045S ON ROUTE 24
GENERAL PLAN No. 8

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 04
EA 1E4601

DISREGARD PRINTS BEARING EARLIER REVISION DATES	3-27-09	5-8-09	6-18-09	8-28-09	12-15-09	SHEET 8 OF 17
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	23	31

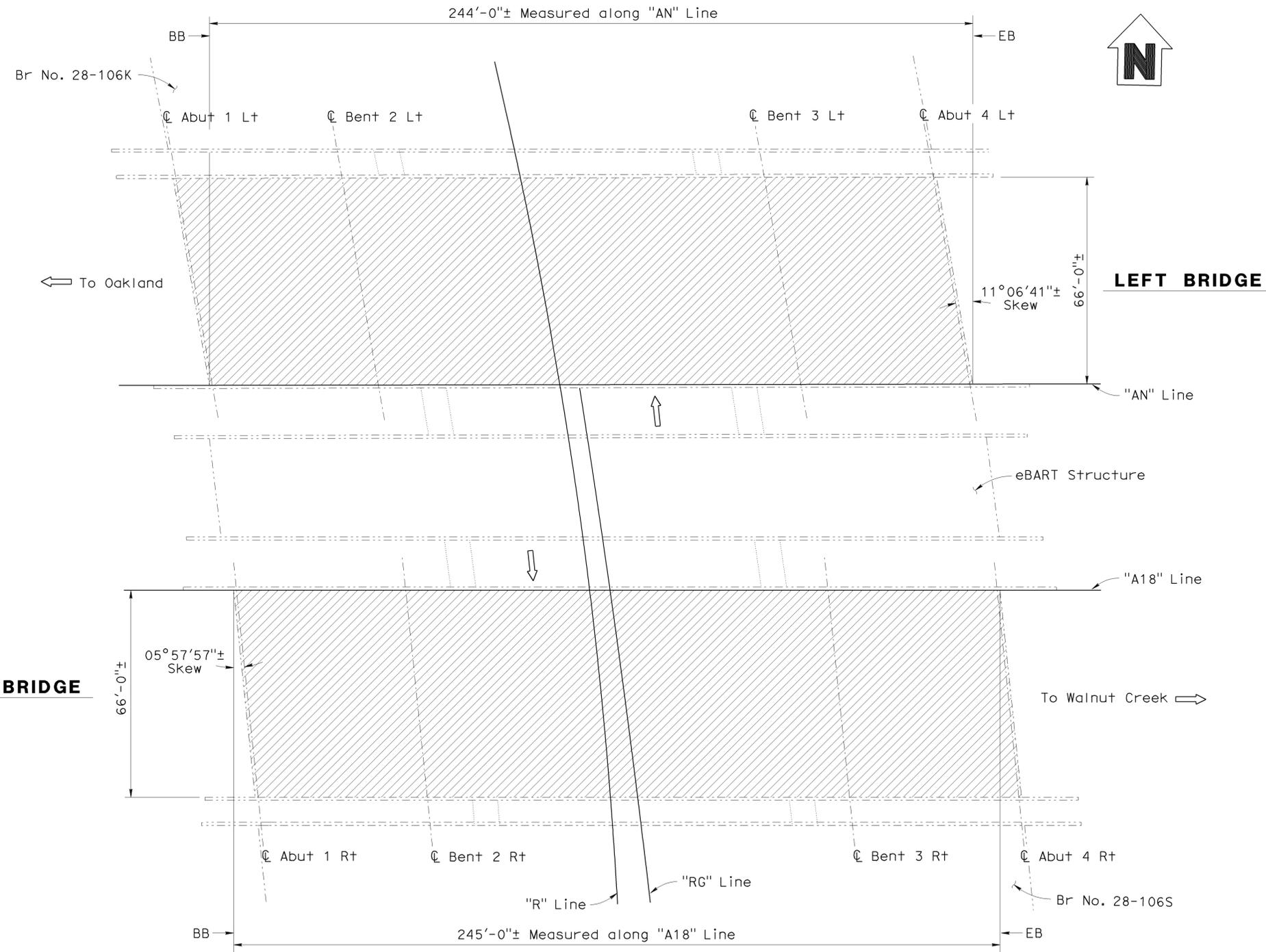
Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09

1-25-10
PLANS APPROVAL DATE

Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997



LEGEND:

- Indicates existing structure
- Indicates direction of traffic
- Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
- Indicates bridge location. see "Title" sheet.

15 16 PLEASANT HILL ROAD UC (28-0106L/R)

QUANTITIES

REMOVE UNSOUND CONCRETE	82	CF
CLEAN BRIDGE DECK	32,400	SQFT
RAPID SETTING CONCRETE (PATCH)	82	CF
TREAT BRIDGE DECK	32,400	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	432	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

15 16 PLEASANT HILL ROAD UC

Br No. 28-0106L/R, Route 24, PM R7.66
No Scale

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

 DESIGN OVERSIGHT SIGN OFF DATE 12-15-09 DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)	DESIGN BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Syed Kazmi PROJECT ENGINEER	BRIDGE NO. Various	
	DETAILS BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi		CHECKED D. Anderson	POST MILES Varies
	QUANTITIES BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel		PLANS AND SPECS COMPARED S. Kazmi	

REPLACE JOINT SEAL & TREAT BRIDGE DECKS

Br No. 28-0106L/R ON ROUTE 24

GENERAL PLAN No. 9

CU 04 EA 1E4601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 9 OF 17
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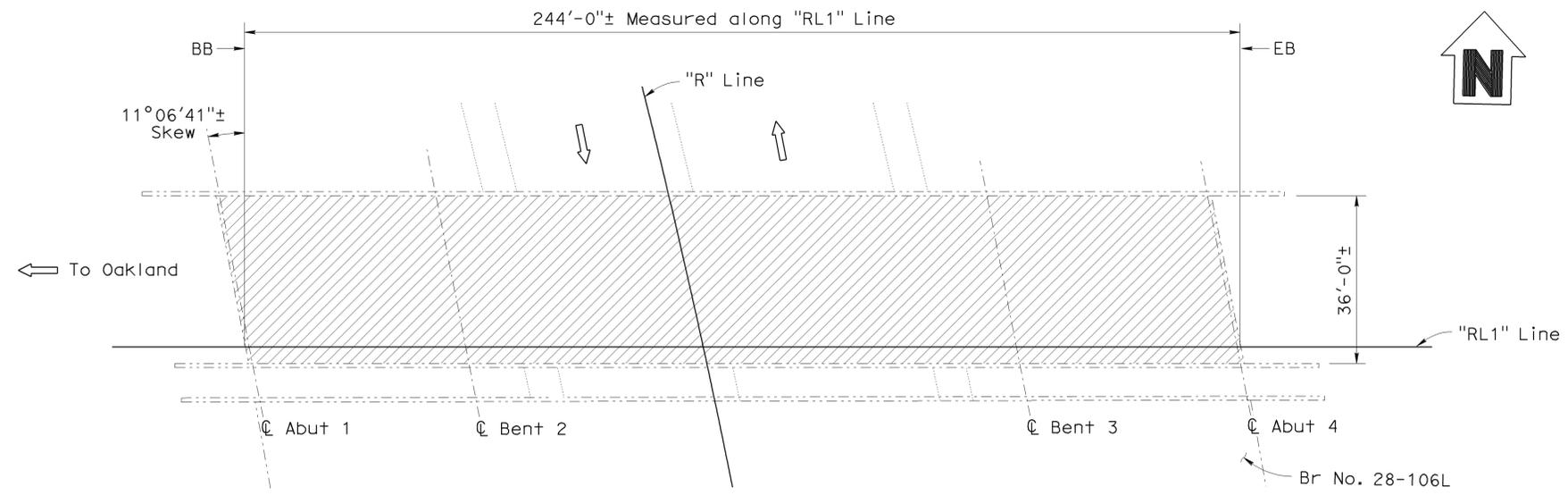
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	24	31

Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09
1-25-10
PLANS APPROVAL DATE
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

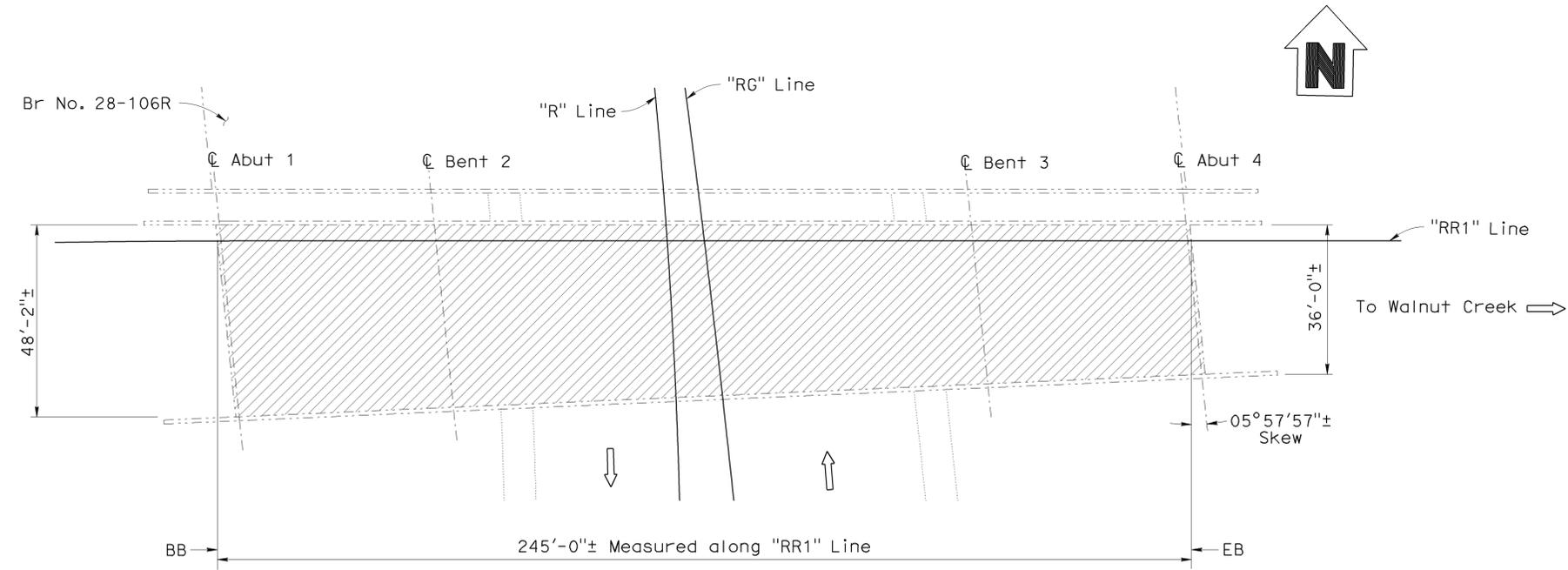
URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997

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17 PLEASANT HILL ROAD UC
Br No. 28-0106K, Route 24, PM R7.66
No Scale

- LEGEND:**
- Indicates existing structure
 - Indicates direction of traffic
 - ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
 - Indicates bridge location. see "Title" sheet.



18 PLEASANT HILL ROAD UC
Br No. 28-0106S, Route 24, PM R7.66
No Scale

17 PLEASANT HILL ROAD UC (28-0106K)
QUANTITIES

REMOVE UNSOUND CONCRETE	22	CF
CLEAN BRIDGE DECK	8,800	SQFT
RAPID SETTING CONCRETE (PATCH)	22	CF
TREAT BRIDGE DECK	8,800	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	118	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

18 PLEASANT HILL ROAD UC (28-0106S)
QUANTITIES

REMOVE UNSOUND CONCRETE	26	CF
CLEAN BRIDGE DECK	10,400	SQFT
RAPID SETTING CONCRETE (PATCH)	22	CF
TREAT BRIDGE DECK	10,400	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	139	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

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

 DESIGN OVERSIGHT 12-15-09 SIGN OFF DATE	DESIGN BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Syed Kazmi PROJECT ENGINEER	BRIDGE NO. Various	
	DETAILS BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi		CHECKED D. Anderson	POST MILES
	QUANTITIES BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel		PLANS AND SPECS COMPARED S. Kazmi	Varies

REPLACE JOINT SEAL & TREAT BRIDGE DECKS
Br No. 28-0106K/S ON ROUTE 24
GENERAL PLAN No. 10

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 04 EA 1E4601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 10 OF 17
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	25	31

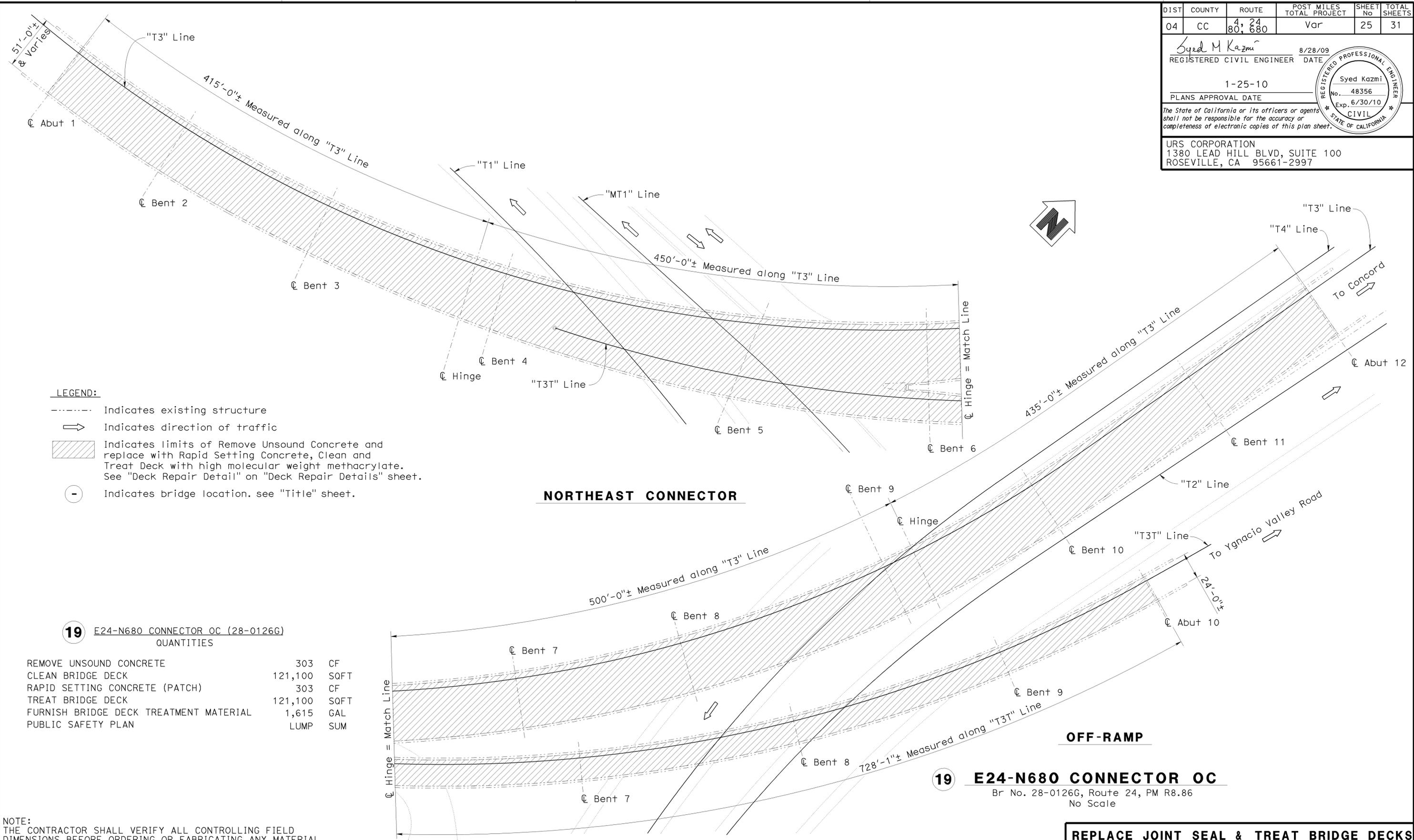
Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09

1-25-10
PLANS APPROVAL DATE

Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997



- LEGEND:**
- Indicates existing structure
 - ➔ Indicates direction of traffic
 - ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
 - Indicates bridge location. see "Title" sheet.

NORTHEAST CONNECTOR

OFF-RAMP

19 E24-N680 CONNECTOR OC

Br No. 28-0126G, Route 24, PM R8.86
No Scale

19 E24-N680 CONNECTOR OC (28-0126G) QUANTITIES

REMOVE UNSOUND CONCRETE	303	CF
CLEAN BRIDGE DECK	121,100	SQFT
RAPID SETTING CONCRETE (PATCH)	303	CF
TREAT BRIDGE DECK	121,100	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	1,615	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

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

 DESIGN OVERSIGHT 12-15-09 SIGN OFF DATE	DESIGN BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. Various	REPLACE JOINT SEAL & TREAT BRIDGE DECKS Br No. 28-0126G ON ROUTE 24 GENERAL PLAN No. 11	
	DETAILS BY C. Doehne	CHECKED D. Anderson	LAYOUT BY H. Choi	CHECKED D. Anderson		PROJECT ENGINEER Syed Kazmi		POST MILES Varies
	QUANTITIES BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS BY D. Harnagel	PLANS AND SPECS COMPARED S. Kazmi		CU 04 EA 1E4601		REVISION DATES (PRELIMINARY STAGE ONLY)

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 3-27-09, 5-4-09, 6-10-09, 8-28-09, 12-15-09

SHEET 11 OF 17

FILE => 04-1E4601-a-gp11.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	26	31

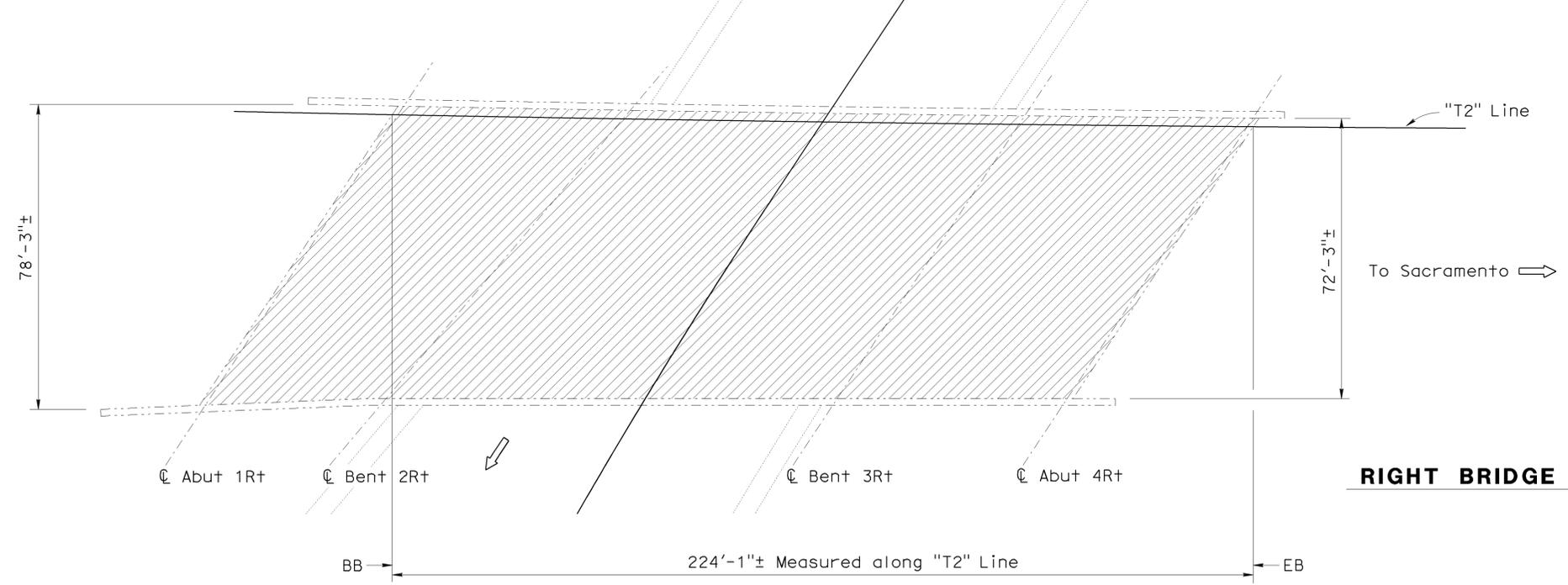
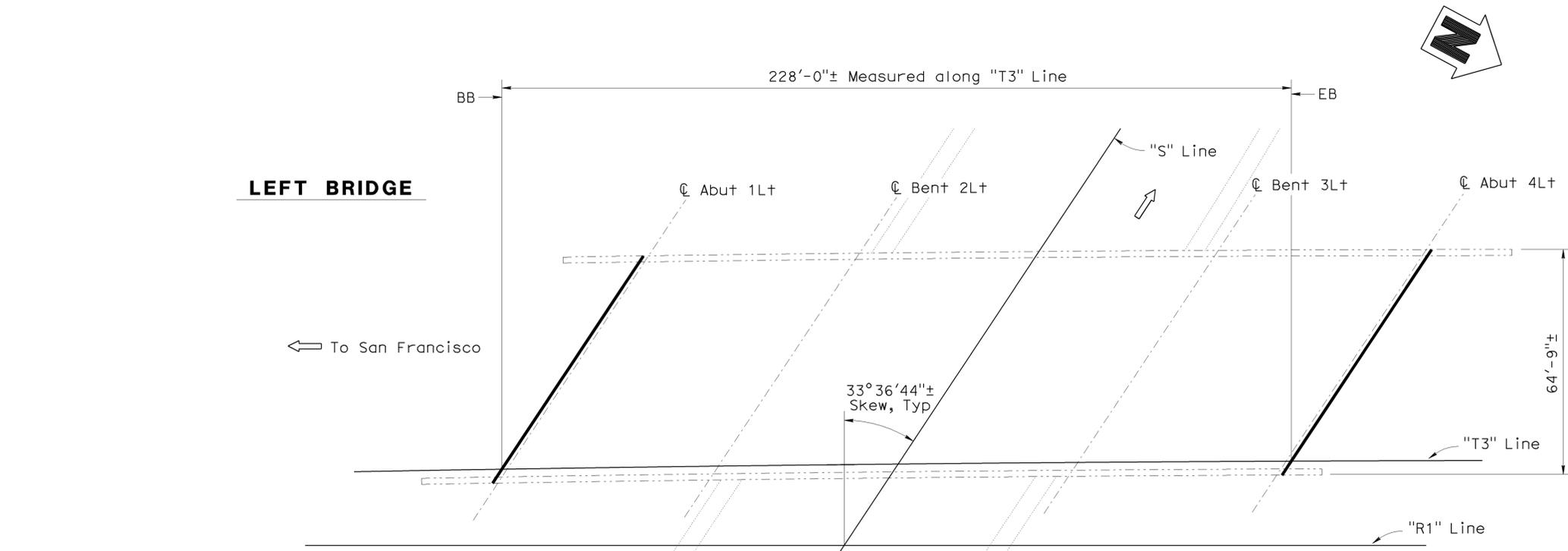
Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09

1-25-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997



20 21 CUTTING BOULEVARD UC (28-0080L/R)
QUANTITIES

REMOVE UNSOUND CONCRETE	43	CF
CLEAN BRIDGE DECK	16,900	SQFT
CLEAN EXPANSION JOINT	150	LF
RAPID SETTING CONCRETE (PATCH)	43	CF
JOINT SEAL (MR 1")	150	LF
TREAT BRIDGE DECK	16,900	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	226	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

- LEGEND:**
- Indicates existing structure
 - ⇒ Indicates direction of traffic
 - ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
 - /— Indicates location of existing joint seal removal and placement of new joint seal. For details see "Joint Seal Details" sheet.
 - Indicates bridge location. see "Title" sheet.

20 21 CUTTING BOULEVARD UC
Br No. 28-0080R/L, Route 80, PM 2.04
No Scale

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

 DESIGN OVERSIGHT 12-15-09 SIGN OFF DATE	DESIGN	BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Syed Kazmi PROJECT ENGINEER	BRIDGE NO.	Various	
	DETAILS	BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi		CHECKED D. Anderson	POST MILES	Varies
	QUANTITIES	BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel		PLANS AND SPECS COMPARED	S. Kazmi	

REPLACE JOINT SEAL & TREAT BRIDGE DECKS	
Br No. 28-0080 R/L ON ROUTE 80	
GENERAL PLAN No. 12	
CU 04 EA 1E4601	REVISION DATES (PRELIMINARY STAGE ONLY) 3-27-09 5-18-09 6-18-09 8-28-09 12-15-09 SHEET 12 OF 17

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	27	31

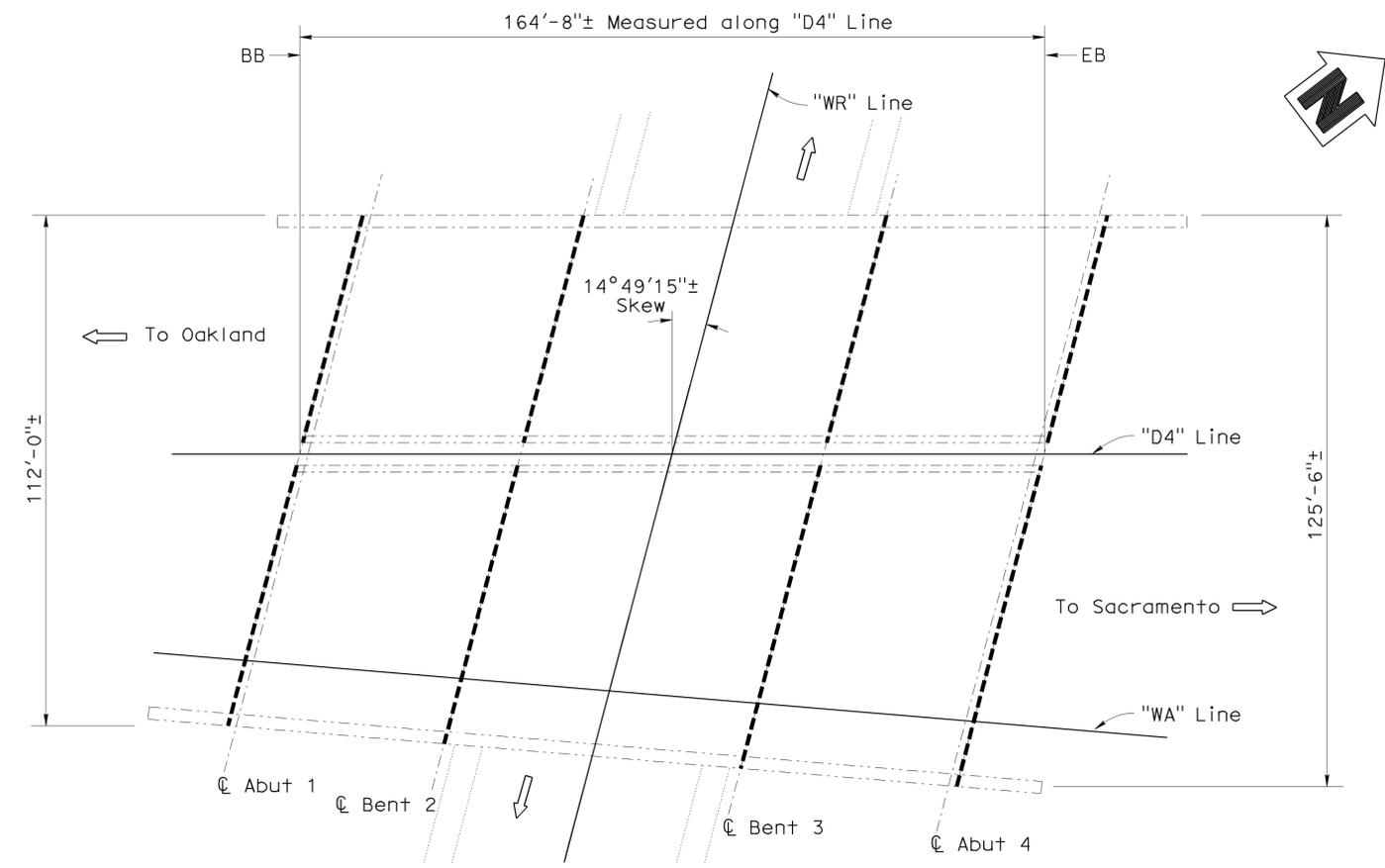
Syed M Kazmi 8/28/09
REGISTERED CIVIL ENGINEER DATE

1-25-10
PLANS APPROVAL DATE

Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

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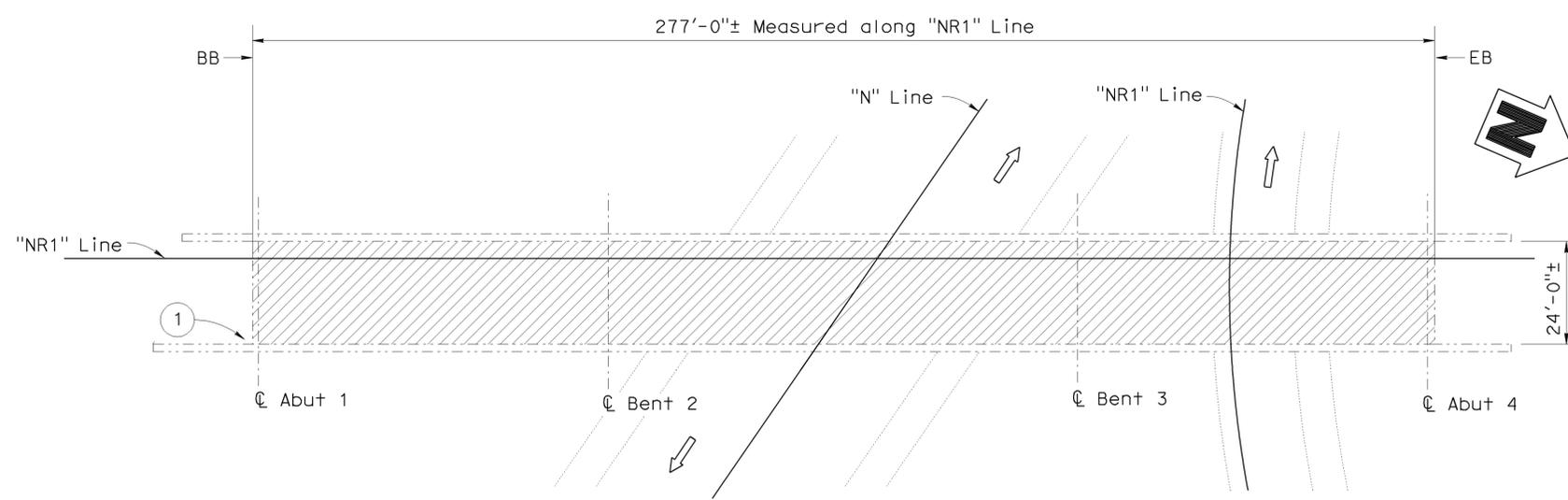
URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997



23 WILLOW AVENUE UC
Br No. 28-0151, Route 80, PM 10.69
No Scale

LEGEND:

- Indicates existing structure
- ⇒ Indicates direction of traffic
- ▨ Indicates limits of Remove Unsound Concrete and replace with Rapid Setting Concrete, Clean and Treat Deck with high molecular weight methacrylate. See "Deck Repair Detail" on "Deck Repair Details" sheet.
- - - - - Indicates location to clean existing joint and replace the armored open joint with a joint seal. For details see "Armored Open Joint Replacement Detail" on "Joint Seal Details" sheet.
- ① Paint the bridge identification "MACDONALD AVENUE UC BR NO 28 0082S PM 2.59 1979"
- Indicates bridge location. see "Title" sheet.



22 MACDONALD AVENUE UC
Br No. 28-0082S, Route 80, PM 2.59
No Scale

23 WILLOW AVENUE UC (28-0151)
QUANTITIES

CLEAN EXPANSION JOINT	477	LF
JOINT SEAL (MR 1/2")	238	LF
JOINT SEAL (MR 1")	239	LF

22 MACDONALD AVENUE UC (28-0082S)
QUANTITIES

REMOVE UNSOUND CONCRETE	17	CF
CLEAN BRIDGE DECK	6,700	SQFT
RAPID SETTING CONCRETE (PATCH)	17	CF
TREAT BRIDGE DECK	6,700	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	90	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

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

DESIGN OVERSIGHT
SIGN OFF DATE
12-15-09

DESIGN BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi
QUANTITIES BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

REPLACE JOINT SEAL & TREAT BRIDGE DECKS
Br No. 28-0082S & 28-0151 ON ROUTE 80
GENERAL PLAN No. 13

USERNAME => 5126215 DATE PLOTTED => 25-JAN-2010 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24 80, 680	Var	28	31

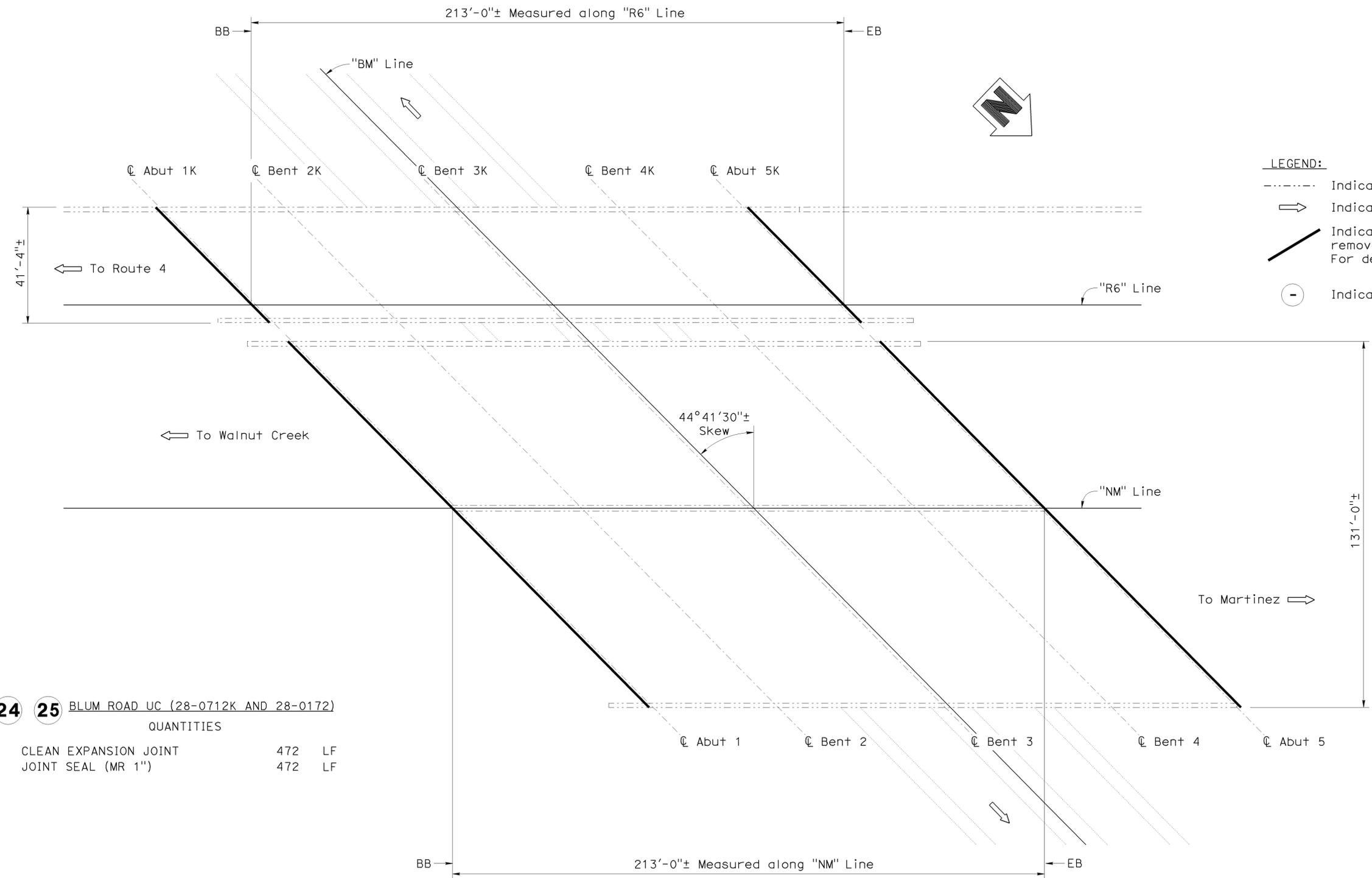
Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09

1-25-10
PLANS APPROVAL DATE

Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

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URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997



24 25 BLUM ROAD UC (28-0712K AND 28-0172)
QUANTITIES

CLEAN EXPANSION JOINT	472	LF
JOINT SEAL (MR 1")	472	LF

24 25 **BLUM ROAD UC**
Br No. 28-0172K/0172, Route 680, PM 21.52
No Scale

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

 DESIGN OVERSIGHT SIGN OFF DATE 12-15-09	DESIGN	BY H. Choi	CHECKED D. Anderson	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Syed Kazmi PROJECT ENGINEER	BRIDGE NO.	REPLACE JOINT SEAL & TREAT BRIDGE DECKS Br No. 28-0172K & Br No. 28-0172 ON ROUTE 680 GENERAL PLAN No. 14	
	DETAILS	BY C. Doehne	CHECKED D. Anderson	LAYOUT	BY H. Choi		CHECKED D. Anderson		Various
	QUANTITIES	BY H. Choi	CHECKED D. Anderson	SPECIFICATIONS	BY D. Harnagel		PLANS AND SPECS COMPARED S. Kazmi		Varies

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 04 EA 1E4601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 3-27-09 5-4-09 6-18-09 8-28-09 12-15-09	SHEET 14 OF 17
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	29	31

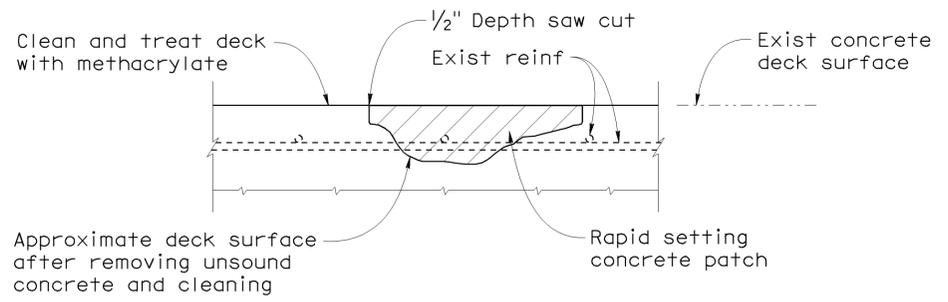
Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 8/28/09
1-25-10
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Syed Kazmi
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997

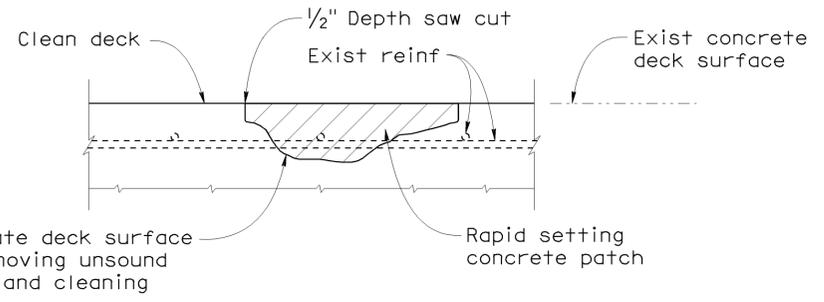
DECK REPAIR TABLE						
INDEX	BRIDGE NUMBER	TOTAL DECK AREA (SQ FT)	APPROX AREA DAMAGED (percent)	APPROX DEPTH DAMAGED (inches)	REMOVE UNSOUND CONCRETE (CF)	RAPID SETTING CONCRETE PATCH (CF)
①	28-0218L	11,100	1	3	28	28
②	28-0218R	9,000	1	3	23	23
④	28-0241R	20,400	1	3	51	51
⑤	28-0103K	4,100	1	3	11	11
⑥	28-0110S	3,000	1	3	8	8
⑦	28-0137R	39,300	1	3	99	99
⑧	28-0134L	8,300	1	3	21	21
⑨	28-0230L	6,600	1	3	17	17
⑩	28-0228L	9,100	1	3	23	23
⑭	28-0045S	6,000	1	3	15	15
⑮	28-0106L	16,200	1	3	41	41
⑯	28-0106R	16,200	1	3	41	41
⑰	28-0106K	8,800	1	3	22	22
⑱	28-0106S	10,400	1	3	26	26
⑲	28-0126G	121,100	1	3	303	303
⑳	28-0080R	16,900	1	3	43	43
㉒	28-0082S	6,700	1	3	17	17



DECK REPAIR DETAIL

No Scale

Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal. Also see "DECK REPAIR TABLE".



DECK REPAIR DETAIL (A)

No Scale

Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal. Also see "DECK REPAIR TABLE".

DECK REPAIR NOTES:

- When existing transverse reinforcement is exposed in the deck surface, saw cutting shall be waived with the approval of the Engineer.

LEGEND:

- Indicates existing structure
- ⊖ Indicates bridge location, see "Title" sheet.

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

Kenneth R Brown
DESIGN OVERSIGHT
SIGN OFF DATE 12-15-09

DESIGN	BY H. Choi	CHECKED D. Anderson
DETAILS	BY L. Davis	CHECKED D. Anderson
QUANTITIES	BY H. Choi	CHECKED D. Anderson

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Syed Kazmi
PROJECT ENGINEER

BRIDGE NO.	Various
POST MILES	Varies

REPLACE JOINT SEAL & TREAT BRIDGE DECKS

ROUTE 4, 24, 80, & 680 BRIDGES

DECK REPAIR DETAILS

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 04
EA 1E4601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)			
3-27-09	5-8-09	6-18-09	8-28-09

SHEET	OF
15	17

FILE => 04-1E4601-q-ddt01.dgn
DATE PLOTTED => 25-JAN-2010
TIME PLOTTED => 13:55
USERNAME => s126215

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	30	31

Syed M Kazmi
REGISTERED CIVIL ENGINEER DATE 11/15/09
1-25-10
PLANS APPROVAL DATE
No. 48356
Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

URS CORPORATION
1380 LEAD HILL BLVD, SUITE 100
ROSEVILLE, CA 95661-2997

JOINT SEAL TABLE						
INDEX	BRIDGE NUMBER	LOCATION	"MR" * (inches)	APPROX LENGTH (feet)	EXISTING WATERSTOP OR NEOPRENE STRIP	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)
③	28-0066L	Abut 1	1	50	N	12
		Abut 7	1	50	N	12
⑦	28-0137R	Abut 1	1 1/2	106	N	12
		Hinge	2	135	N	30
⑩	28-0228L	Abut 1	1	70	N	12
		Abut 2	1	73	N	12
⑪	28-0228R	Abut 2	1/2	67	N	12
⑫	28-0145L	Abut 1	2	168	Y	6
		Hinge	2	80	N	27
⑬	28-0145R	Abut 4	1 1/2	174	Y	6
⑳	28-0080L	Abut 1	1	75	Y	12
		Abut 4	1	75	Y	12
㉓	28-0151	Abut 1	1/2	112	Y	6
		Bent 2	1	117	Y	6
		Bent 3	1	122	Y	6
		Abut 4	1/2	126	Y	6
㉔	28-0172K	Abut 1	1	55	N	42
		Abut 5	1	55	N	42
㉕	28-0172	Abut 1	1	181	Y	12
		Abut 5	1	181	Y	12

* Movement Rating (MR) calculations only consider temperature movement.

The following notes apply to JOINT SEAL TYPE A:

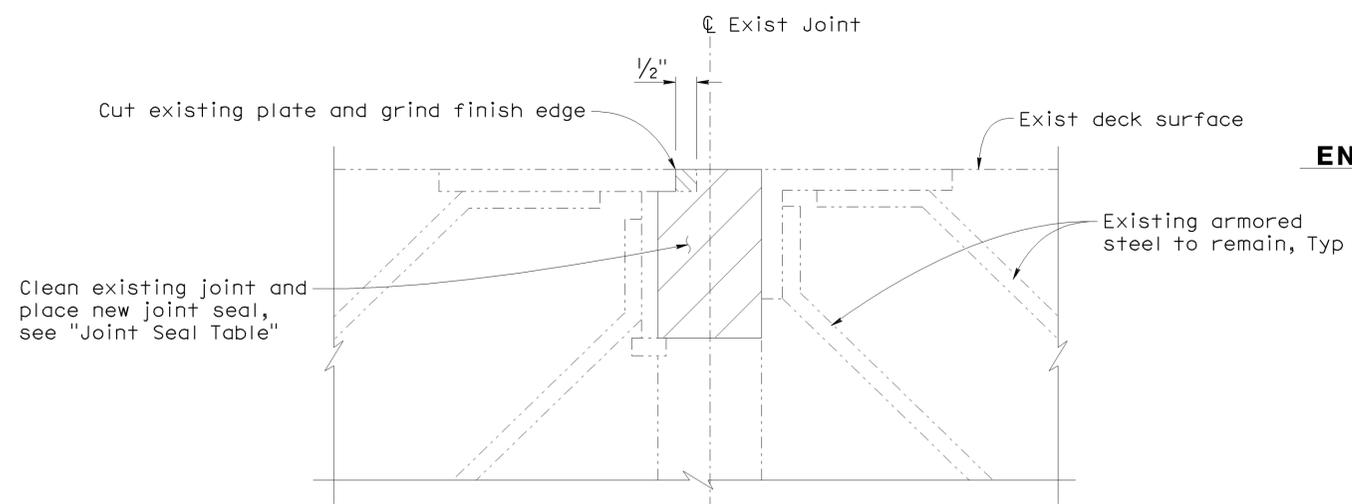
- 1) Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint. For details not shown see "Joint Seals (Maximum Movement Rating = 2")" sheet.
- 2) The replacement joint seal shall be the same type as the existing joint seal.

The following notes apply to JOINT SEAL TYPE B:

- 1) Joint 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 calculated 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 psi.
- 4) Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
- 5) For details not shown see "Joint Seals (Maximum Movement Rating = 2")" sheet.
- 6) The replacement joint seal shall be the same type as the existing joint seal.

LEGEND:

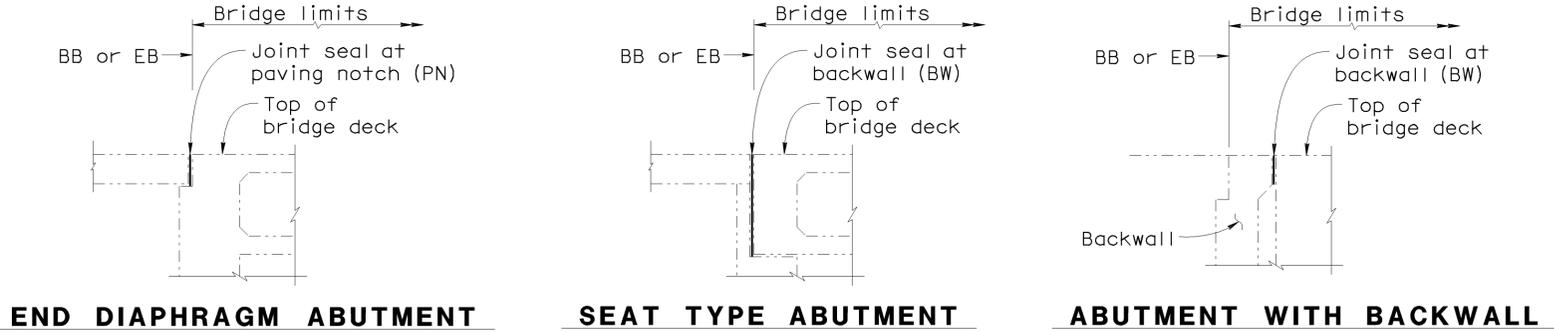
- Indicates existing structure
- Indicates bridge location. see "Title" sheet.
- BW Backwall
- PN Paving Notch



ARMORED OPEN JOINT REPLACEMENT DETAIL

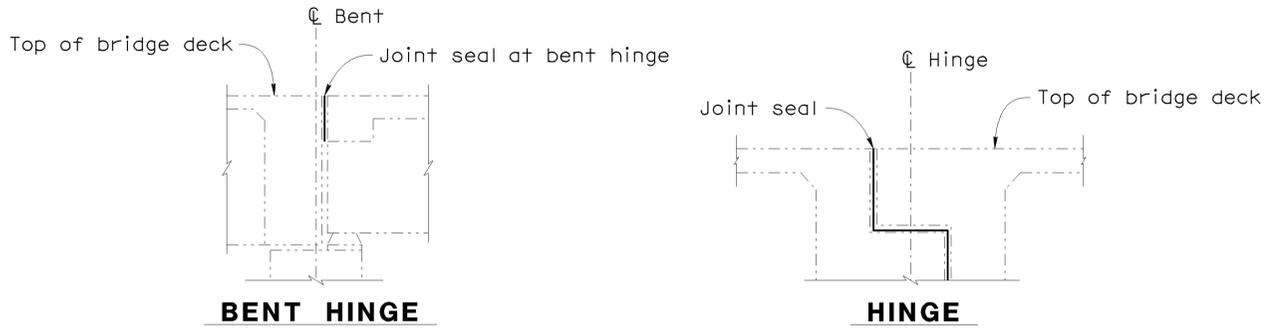
No Scale

Note: Expansion joint at Bent shown, joint at abutment similar.



JOINT SEAL LOCATION

No Scale



BENT HINGE

HINGE

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

DESIGN OVERSIGHT
Kenneth R Brown
SIGN OFF DATE 12-15-09

DESIGN	BY H. Choi	CHECKED D. Anderson
DETAILS	BY L. Davis	CHECKED D. Anderson
QUANTITIES	BY H. Choi	CHECKED D. Anderson

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
Syed Kazmi
PROJECT ENGINEER

BRIDGE NO.	Various
POST MILES	Varies

REPLACE JOINT SEAL & TREAT BRIDGE DECKS

ROUTE 4, 24, 80, & 680 BRIDGES

JOINT SEAL DETAILS

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 04
EA 1E4601

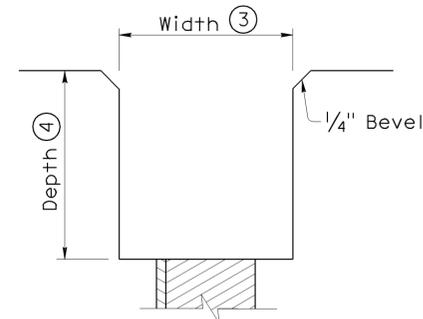
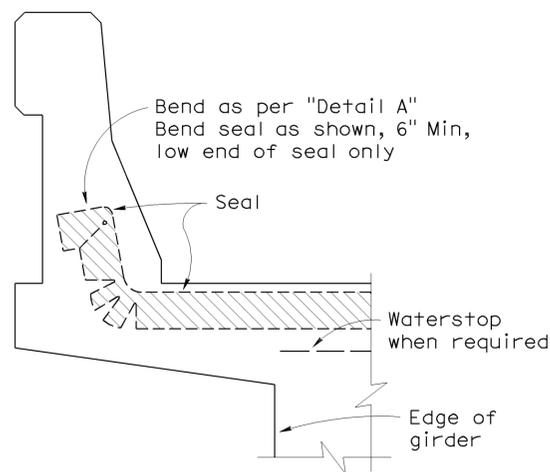
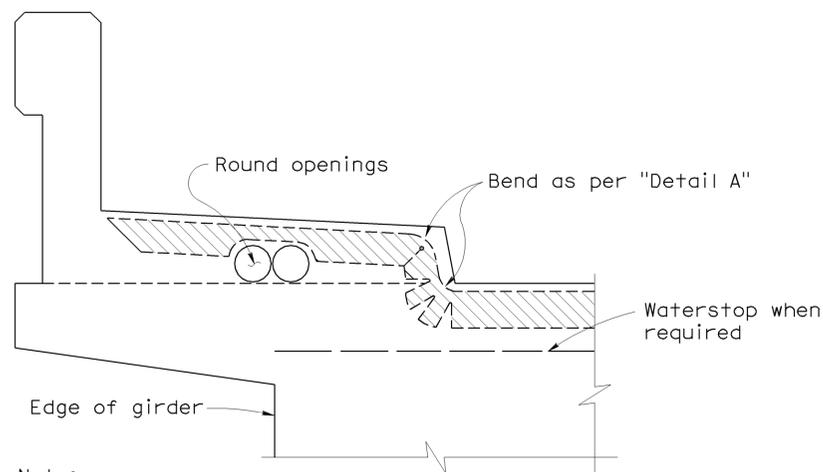
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)				
3-27-09	5-8-09	6-18-09	8-28-09	11-15-09

SHEET 16 OF 17

USERNAME => s126215 DATE PLOTTED => 25-JAN-2010 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	CC	4, 24, 80, 680	Var	31	31
Syed M Kazmi			8/28/09	DATE	
REGISTERED CIVIL ENGINEER			DATE		
1-25-10			PLANS APPROVAL DATE		
No. 48356			Exp. 6/30/10		
CIVIL			STATE OF CALIFORNIA		
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URS CORPORATION 1380 LEAD HILL BLVD, SUITE 100 ROSEVILLE, CA 95661-2997					



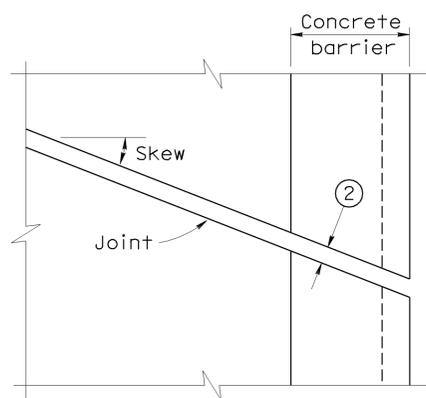
SAWCUT DETAIL

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.

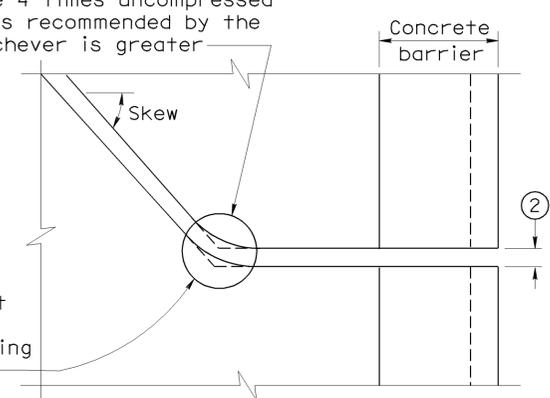
CONCRETE BARRIER AND SIDEWALK

CONCRETE BARRIER

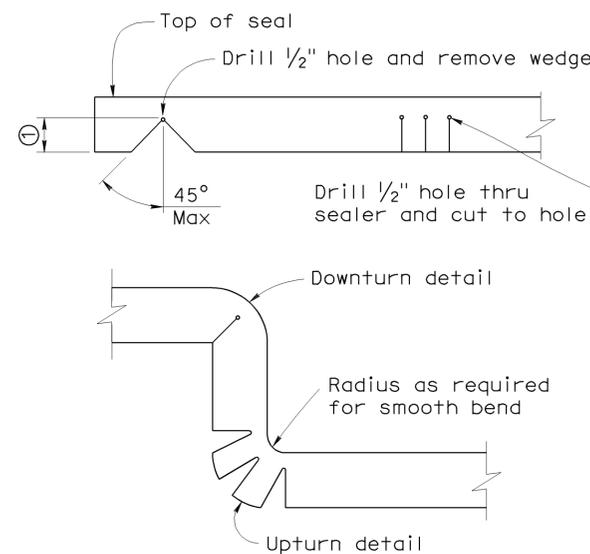
JOINT SEALS DETAILS



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



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



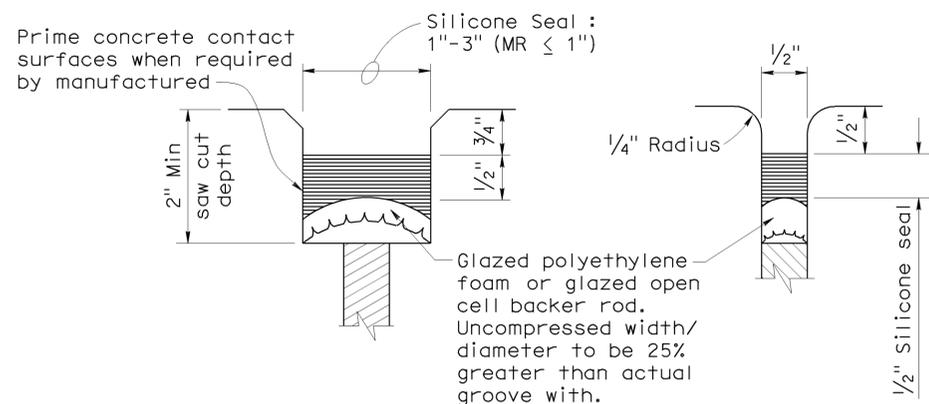
DETAIL A

NOTES:

- ① 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.
- ② Opening in barrier to match width of sawn deck joint.
- ③ Sawcut groove widths shall be as ordered by the Engineer.
- ④ 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 (W2) plus dimensions shown.
- ⑤ Other depths must be approved by the Engineer.

PLAN OF JOINT (SKEW < 20°)

PLAN OF JOINT (SKEW > 20°)

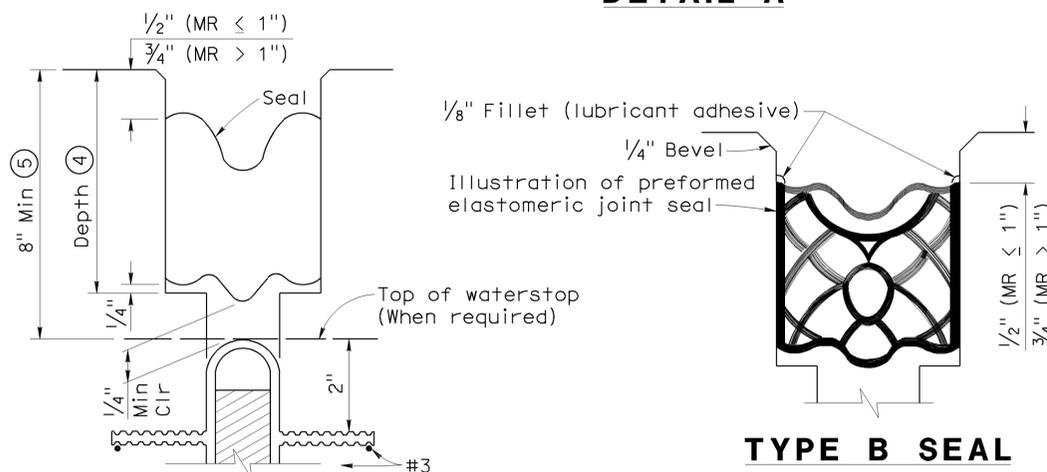


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W2)

TYPE B SEAL

Movement Rating \leq 2"

NOTE:
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DESIGN OVERSIGHT
SIGN OFF DATE
12-15-09

DESIGN	BY H. Choi	CHECKED D. Anderson
DETAILS	BY L. Davis	CHECKED D. Anderson
QUANTITIES	BY H. Choi	CHECKED D. Anderson

PREPARED FOR THE
STATE OF CALIFORNIA
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Syed Kazmi
PROJECT ENGINEER

BRIDGE NO.	Various
POST MILES	Varies

REPLACE JOINT SEAL & TREAT BRIDGE DECKS
ROUTE 4, 24, 80 & 680 BRIDGES
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")

DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 2/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

CU 04
EA 1E4601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

3-27-09	5-8-09	6-18-09	8-28-09
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SHEET 17 OF 31

USERNAME => s126215 DATE PLOTTED => 25-JAN-2010 TIME PLOTTED => 13:55

FILE => 04-1E4601-q-jntdt02.dgn