

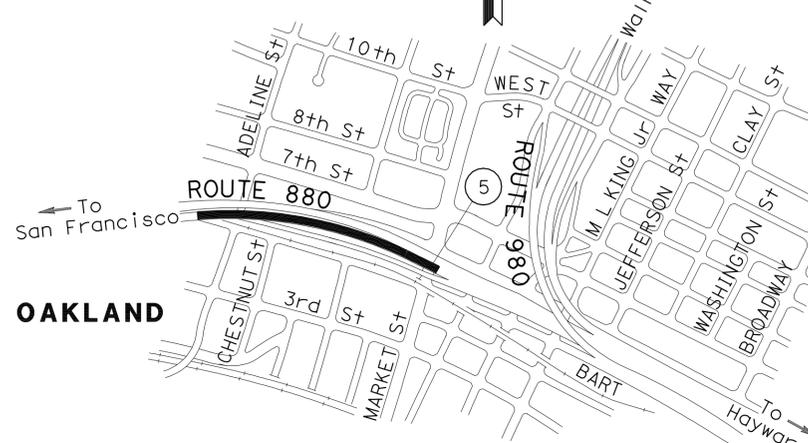
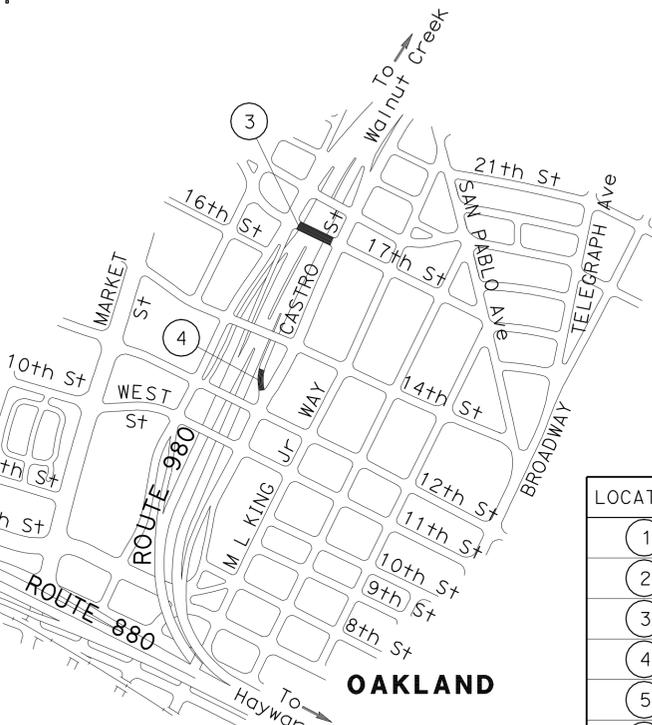
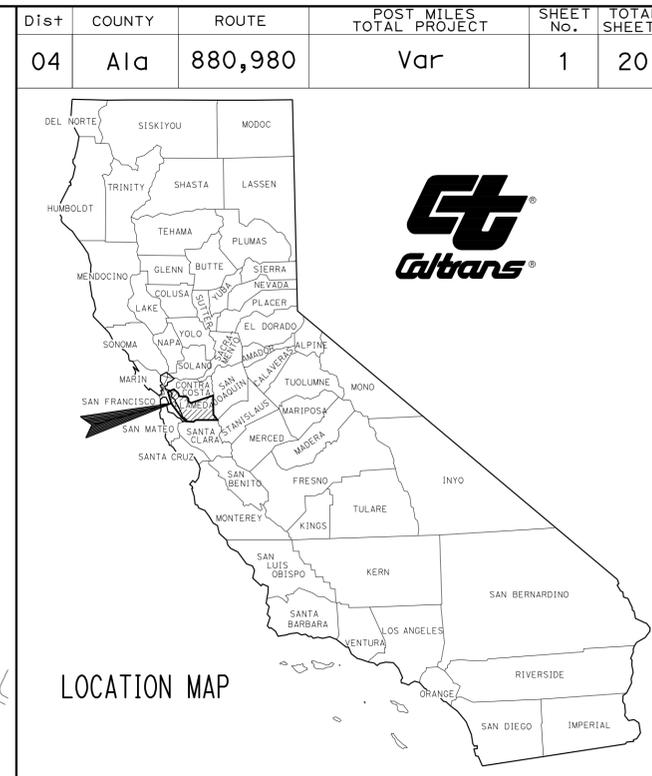
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2 - 5	CONSTRUCTION AREA SIGNS
6	PAVEMENT DELINEATION QUANTITIES
7 - 10	REVISED STANDARD PLANS
STRUCTURE PLANS	
11 - 17	GENERAL PLANS
18	DECK REPAIR TABLE AND DETAILS
19	JOINT SEAL ASSEMBLY DETAILS
20	JOINT SEAL ASSEMBLY (Max MOVEMENT RATING = 4")

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

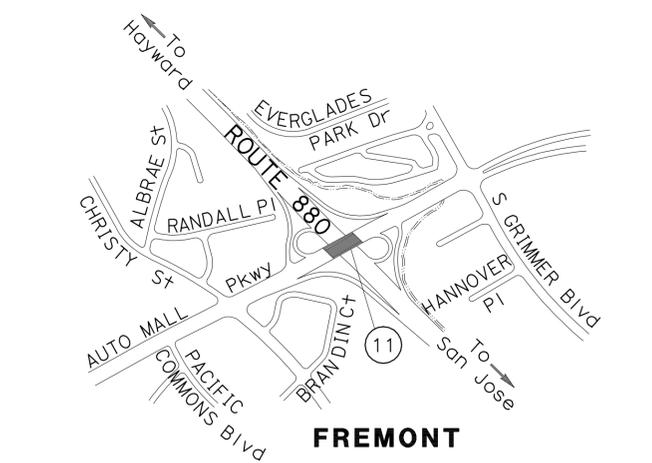
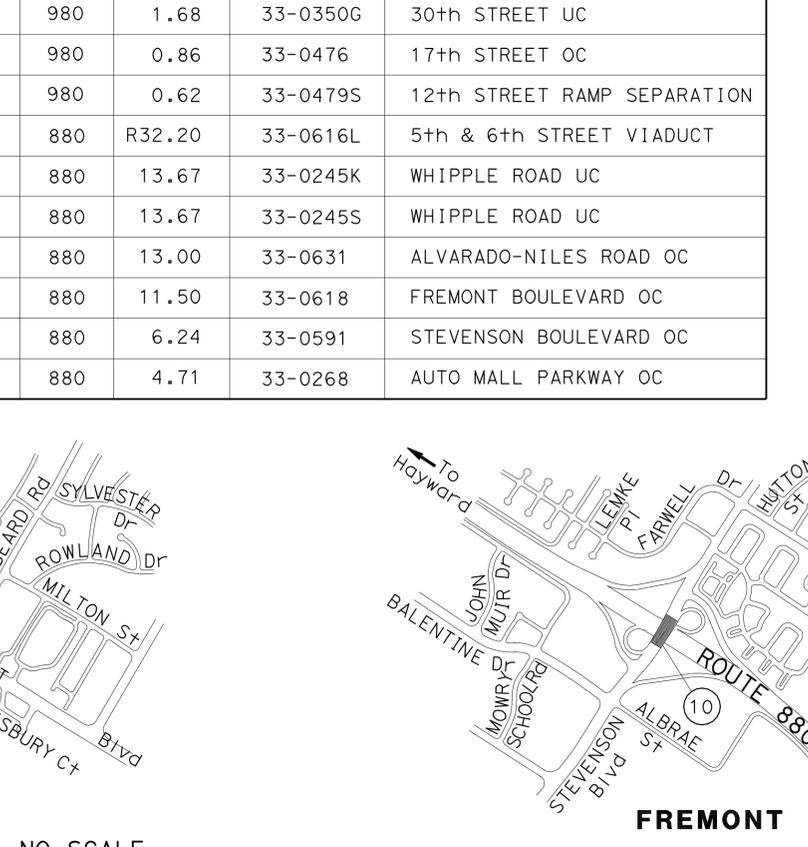
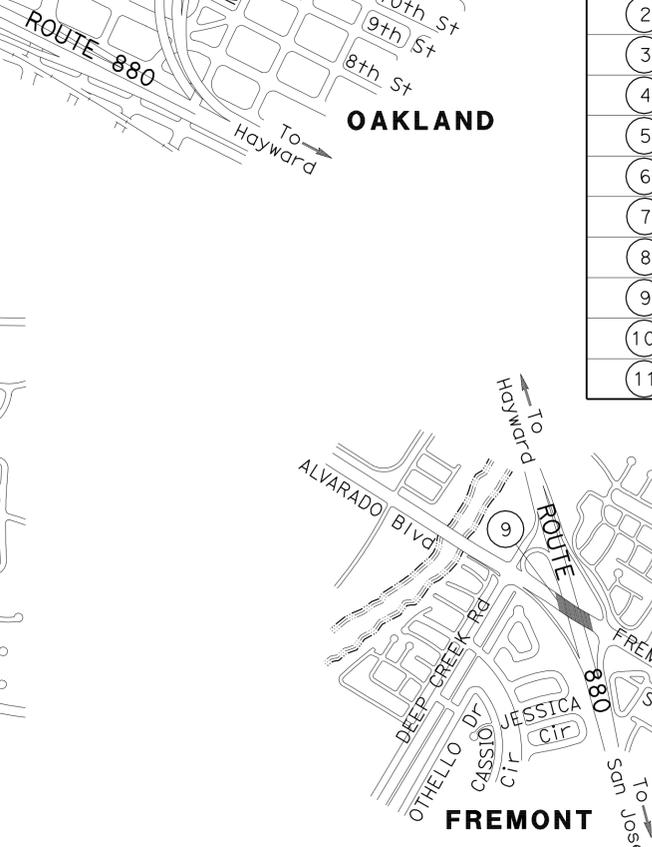
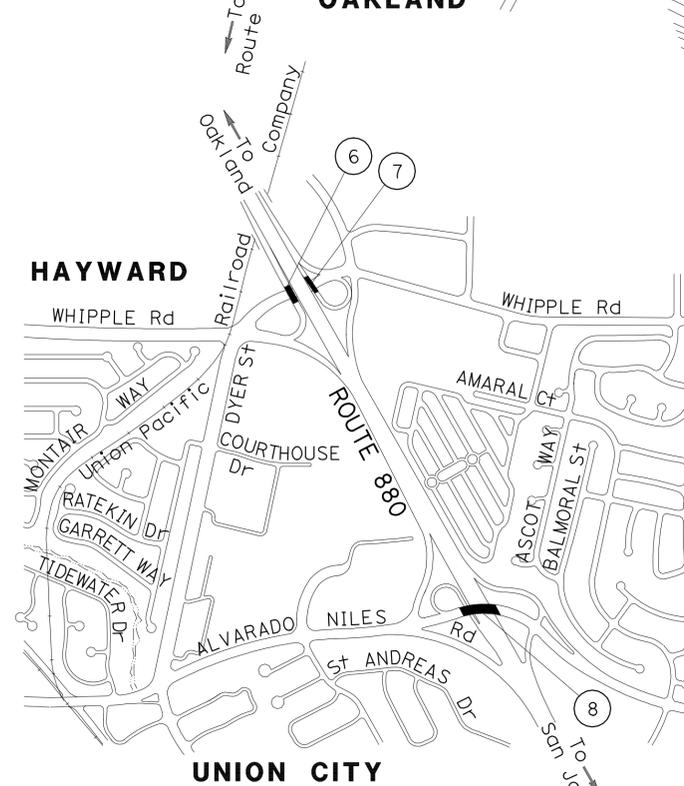
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ALAMEDA COUNTY
AT
VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATIONS OF CONSTRUCTION

LOCATION	ROUTE	PM	BRIDGE No.	BRIDGE NAME
1	980	1.68	33-0350R	30th STREET UC
2	980	1.68	33-0350G	30th STREET UC
3	980	0.86	33-0476	17th STREET OC
4	980	0.62	33-0479S	12th STREET RAMP SEPARATION
5	880	R32.20	33-0616L	5th & 6th STREET VIADUCT
6	880	13.67	33-0245K	WHIPPLE ROAD UC
7	880	13.67	33-0245S	WHIPPLE ROAD UC
8	880	13.00	33-0631	ALVARADO-NILES ROAD OC
9	880	11.50	33-0618	FREMONT BOULEVARD OC
10	880	6.24	33-0591	STEVENSON BOULEVARD OC
11	880	4.71	33-0268	AUTO MALL PARKWAY OC



PROJECT MANAGER
RAMSES SARGISS

DESIGN ENGINEER
FUK NYAN KURNIAWAN

1/4/11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER
Fuk Nyan Kurniawan
No. 64659
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

February 7, 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.

CONTRACT No. **04-1E7504**
PROJECT ID **040000574**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: LOURDES DAVID
 DEPARTMENT OF TRANSPORTATION: TRAFFIC
 CALCULATED/DESIGNED BY: CLAUDIA FANG
 CHECKED BY: FLORANTE PEREZ
 REVISED BY: FPP
 DATE REVISED: 1/4/11

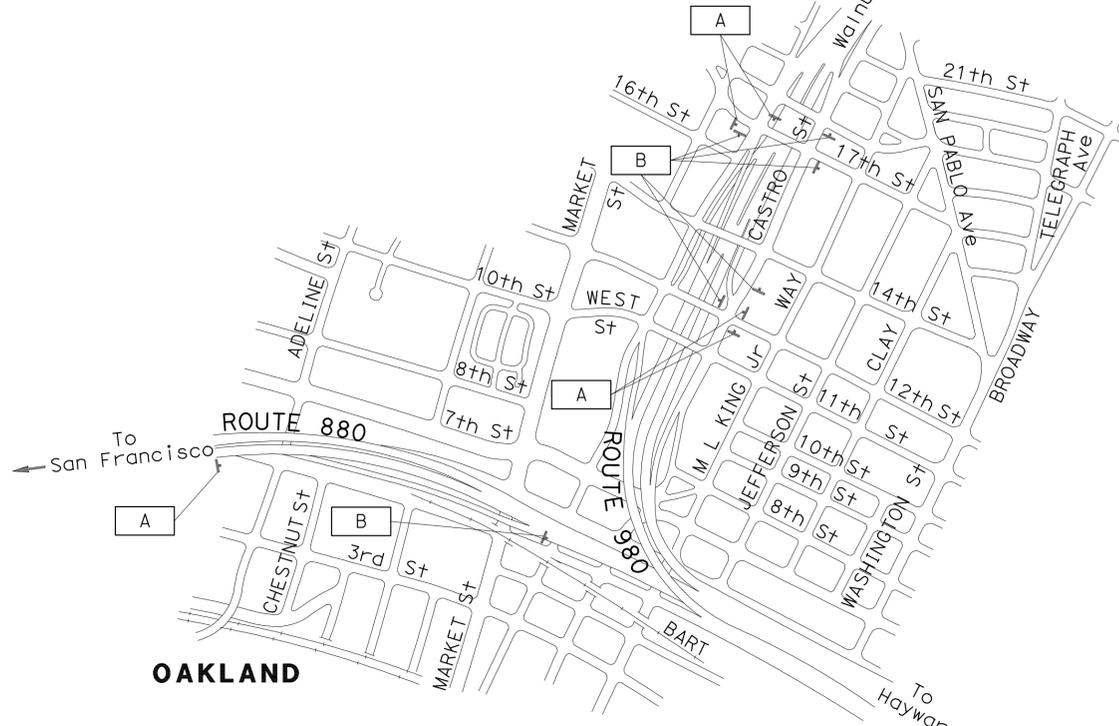
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880,980	Var	2	20

REGISTERED CIVIL ENGINEER: Florante P. Perez
 No. 41030
 Exp. 3-31-11
 CIVIL
 DATE: 1/4/11
 PLANS APPROVAL DATE: 2-7-11

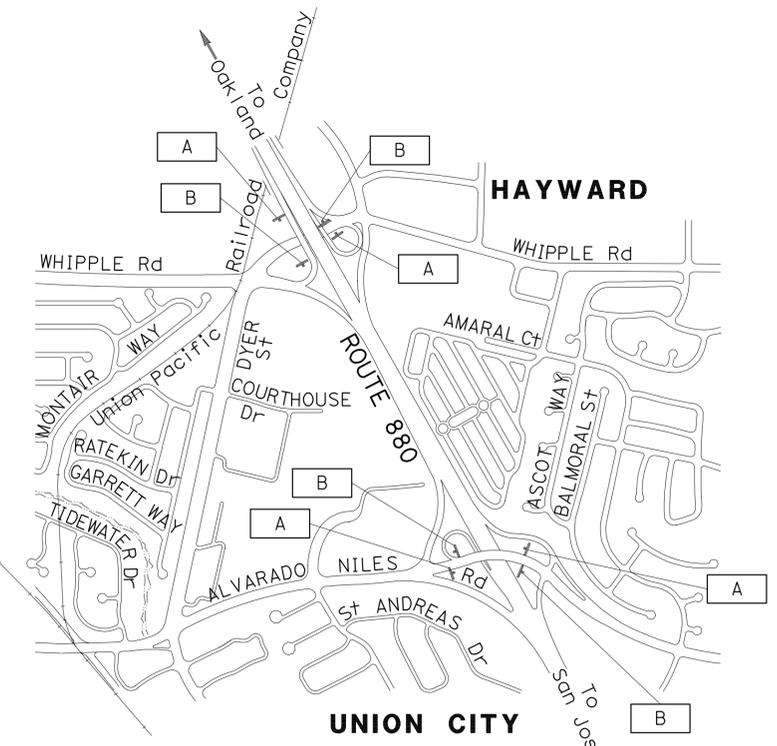
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



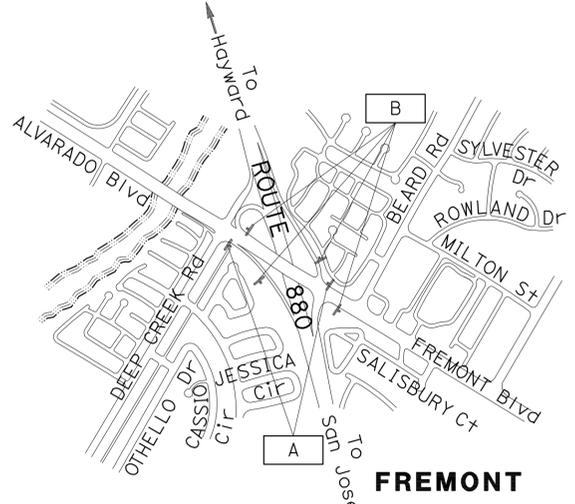
LOCATION ① AND ②



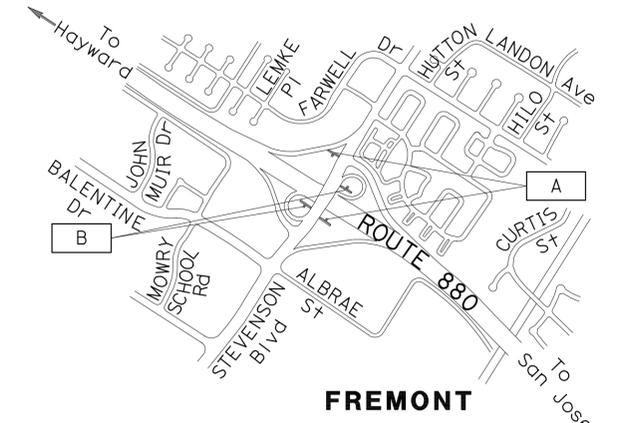
LOCATION ③, ④ AND ⑤



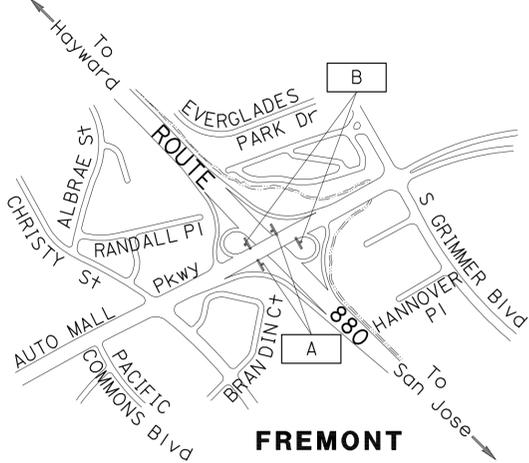
LOCATION ⑥, ⑦ AND ⑧



LOCATION ⑨



LOCATION ⑩



LOCATION ⑪

- LEGEND**
- A CONSTRUCTION AREA SIGN LETTER
 - ↑ DIRECTION OF TRAFFIC
 - X RAMP OR CONNECTOR TO BE CLOSED

- NOTES**
1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
 2. THESE PLANS ARE TO BE USED IN ADDITION TO DETAILS FOR RAMP CLOSURE MISCELLANEOUS T14 OF STANDARD PLANS DATED MAY 2006.



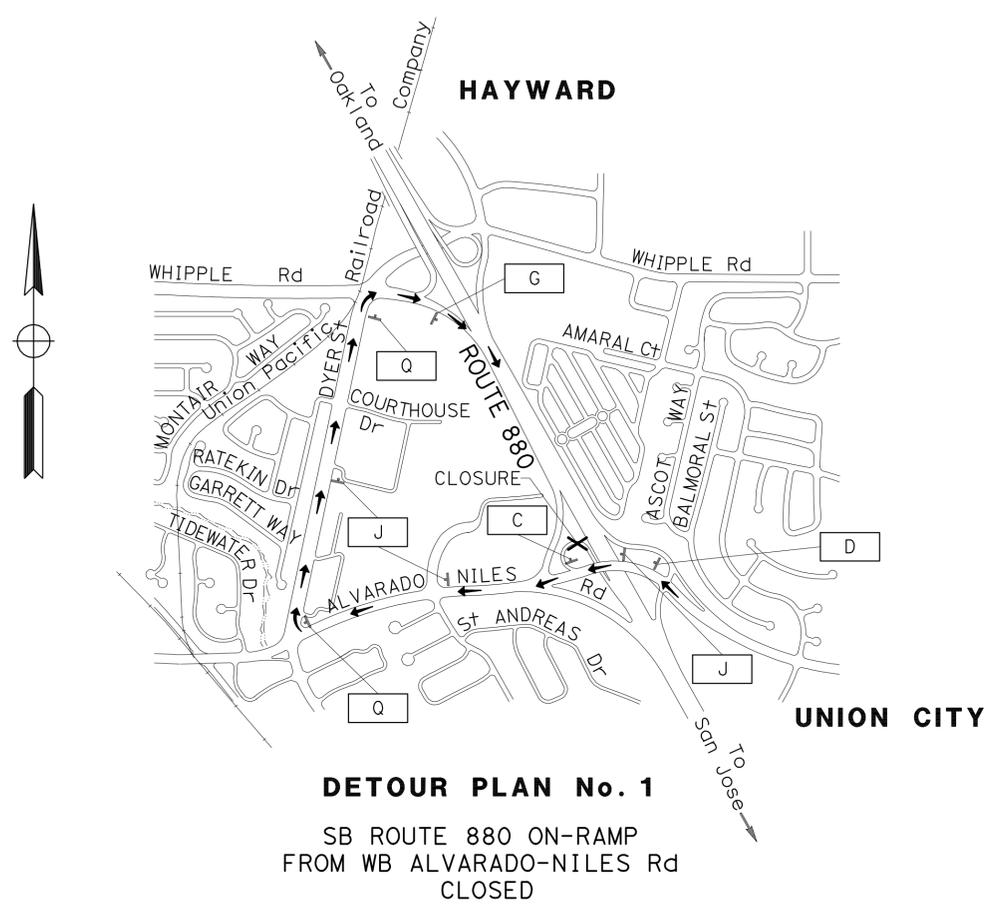
CONSTRUCTION AREA SIGNS
 NO SCALE
CS-1

LAST REVISION: DATE PLOTTED => 10-FEB-2011 TIME PLOTTED => 09:17

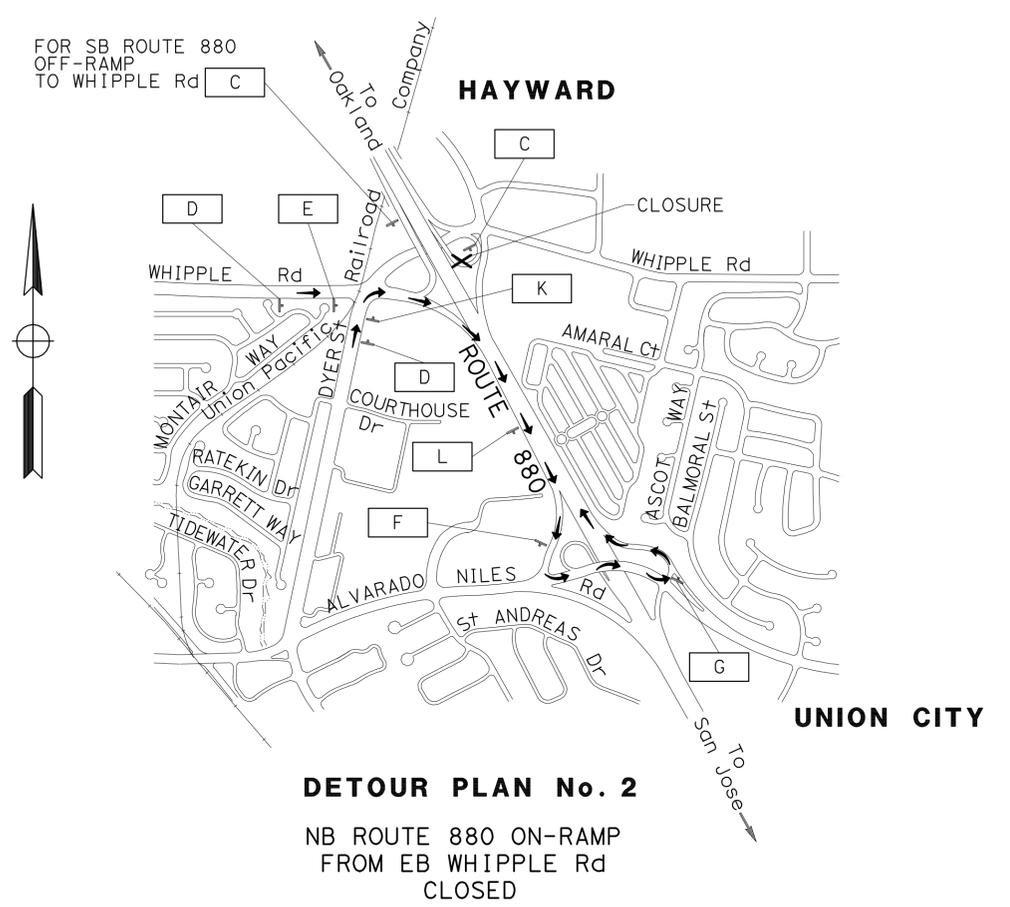
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: LOURDES DAVID
 CALCULATED/DESIGNED BY: CLAUDIA FANG
 CHECKED BY: FLORANTE PEREZ
 REVISED BY: FPP
 DATE REVISED: 1/14/11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880,980	Var	3	20

REGISTERED CIVIL ENGINEER: *Florante P. Perez* DATE: 1/4/11
 PLANS APPROVAL DATE: 2-7-11
 REGISTERED PROFESSIONAL ENGINEER: Florante P. Perez
 No. 41030
 Exp. 3-31-11
 CIVIL
 STATE OF CALIFORNIA
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



DETOUR PLAN No. 1
 SB ROUTE 880 ON-RAMP
 FROM WB ALVARADO-NILES Rd
 CLOSED
 VIA:
 WB ALVARADO-NILES Rd;
 NB DYER St;
 ON-RAMP TO SB ROUTE 880.



DETOUR PLAN No. 2
 NB ROUTE 880 ON-RAMP
 FROM EB WHIPPLE Rd
 CLOSED
 VIA:
 EB DYER St/WHIPPLE Rd;
 ON-RAMP TO SB ROUTE 880;
 SB ROUTE 880;
 OFF-RAMP TO ALVARADO-NILES Rd;
 EB ALVARADO-NILES Rd;
 ON-RAMP TO NB ROUTE 880.

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

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880,980	Var	4	20
REGISTERED CIVIL ENGINEER No. 41030 Exp. 3-31-11 CIVIL			DATE: 1/4/11 PLANS APPROVAL DATE: 2-7-11		

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.

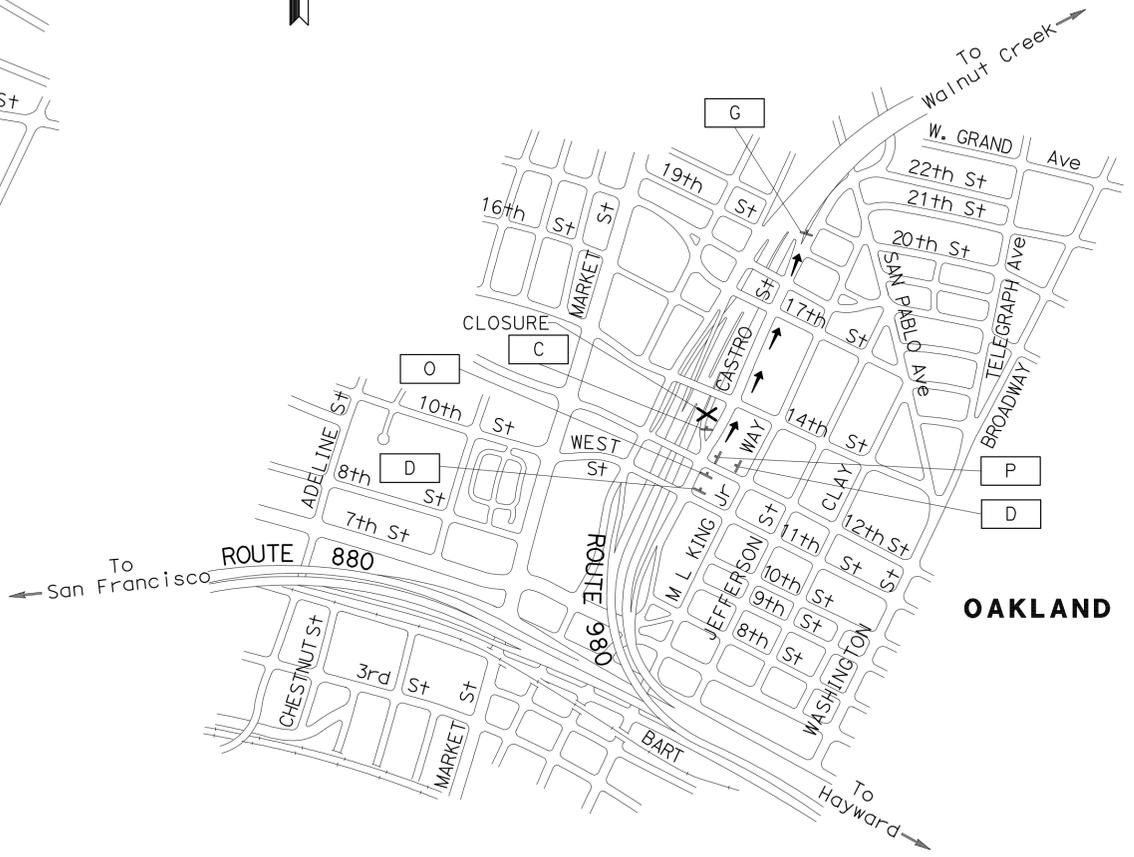
DETOUR PLAN No. 3
 ROUTE 580 ON-RAMP CLOSED

VIA:
 NB ON EB ROUTE 24 ON-RAMP;
 EXIT ON 51st St OFF-RAMP;
 NB ON 51st St;
 SB ON SHATTUCK Ave;
 WB ON 45th St;
 NB ON MARTIN LUTHER KING Jr WAY AND;
 ON TO ROUTE 580 ON-RAMP.



DETOUR PLAN No. 4
 12th STREET ON-RAMP CLOSED

VIA:
 NB ON CASTRO STREET;
 ON TO 18th STREET ON-RAMP.



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880,980	Var	5	20

Florante P. Perez 1/4/11
 REGISTERED CIVIL ENGINEER DATE
 2-7-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Florante P. Perez
 No. 41030
 Exp. 3-31-11
 CIVIL
 STATE OF CALIFORNIA

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	SIGN MESSAGE	PANEL SIZE (in x in)	No. OF POSTS & SIZES (EA-in x in)	NUMBER OF SIGNS
A	W20-1	ROAD WORK AHEAD	48 x 48	1-4 x 6	17
B	G20-2	END ROAD WORK	36 x 18	1-4 x 4	20
C	SC6-4(CA)	RAMP CLOSED	48 x 60	1-6 x 6	5
D	W20-2	DETOUR AHEAD	36 x 36	1-4 x 6	6
E	M4-8	DETOUR	30 x 15	1-6 x 6	1
	G27-2(880)(CA)	ROUTE SHIELD	30 x 25		
	M3-1	NORTH	30 x 15		
	M6-3(↑)	STRAIGHT AHEAD ARROW	21 x 15		
F	M4-8	DETOUR	30 x 15	1-6 x 6	1
	G27-2(880)(CA)	ROUTE SHIELD	30 x 25		
	M3-1	NORTH	30 x 15		
	M6-1(←)	LEFT ARROW	21 x 15		
G	M4-8A	END DETOUR	24 x 18	1-4 x 4	4
J	M4-8	DETOUR	30 x 15	1-6 x 6	3
	G27-2(880)(CA)	ROUTE SHIELD	30 x 25		
	M3-3	SOUTH	30 x 15		
	M6-3(↑)	STRAIGHT AHEAD ARROW	21 x 15		
K	M4-8	DETOUR	30 x 15	1-6 x 6	1
	G27-2(880)(CA)	ROUTE SHIELD	30 x 25		
	M3-1	NORTH	30 x 15		
	M6-1(→)	RIGHT ARROW	21 x 15		
L	M4-8	DETOUR	30 x 15	1-6 x 6	1
	G27-2(880)(CA)	ROUTE SHIELD	30 x 25		
	M3-1	NORTH	30 x 15		
	M6-2(↗)	UP RIGHT ARROW	21 x 15		
M	SC3(CA)(↗)	DETOUR UP RIGHT ARROW	48 x 18	1-4 x 6	3
	G27-2(580)(CA)	ROUTE SHIELD	30 x 25		
N	M4-10R	DETOUR (INSIDE RIGHT ARROW)	48 x 18	1-4 x 6	4
	G27-2(580)(CA)	ROUTE SHIELD	30 x 25		
O	M4-8	DETOUR	30 x 15	1-6 x 6	1
	G27-2(980)(CA)	ROUTE SHIELD	30 x 25		
	M3-1	NORTH	30 x 15		
	M6-3(↑)	STRAIGHT AHEAD ARROW	21 x 15		
P	M4-8	DETOUR	30 x 15	1-6 x 6	1
	G27-2(980)(CA)	ROUTE SHIELD	30 x 25		
	M3-1	NORTH	30 x 15		
	M6-1(→)	RIGHT ARROW	21 x 15		
Q	M4-8	DETOUR	30 x 15	1-6 x 6	2
	G27-2(880)(CA)	ROUTE SHIELD	30 x 25		
	M3-3	SOUTH	30 x 15		
	M6-1(→)	RIGHT ARROW	21 x 15		

CONSTRUCTION AREA SIGNS

CS-4

NOTES

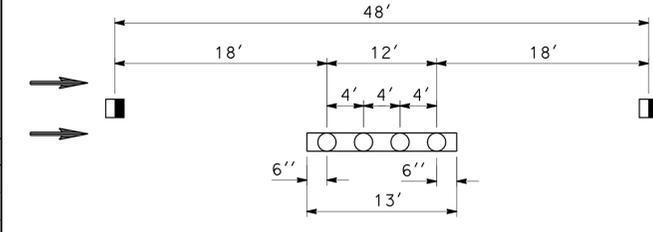
- FOR DETAIL 13M INSTALL 4" WHITE STRIPE AFTER INSTALLATION OF PAVEMENT MARKER.
- ALL EXISTING PAVEMENT DELINEATION SHALL BE REMOVED AND REPLACED AT THE SAME LOCATION AS EXISTING.

LEGEND

- TYPE A WHITE NON-REFLECTIVE MARKER
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER
- ▬ 4" WHITE
- ➔ DIRECTION OF TRAFFIC

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOC	BRIDGE NAME	BRIDGE No.	DETAIL No. OR MARKING	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)					REMOVE THERMO-PLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE					PAVEMENT MARKER				THERMO-PLASTIC PAVEMENT MARKING			
				4" YELLOW	12" YELLOW	4" WHITE	6" WHITE	8" WHITE		4" WHITE (BROKEN 17.0-7.0)	4" WHITE (BROKEN 36.0-12.0)	8" WHITE (BROKEN 12.0-3.0)	4" YELLOW	4" WHITE	6" WHITE	8" WHITE	NON-REFLECTIVE			RETRO REFLECTIVE		
				LF						EA	SQFT	LF					EA			SQFT		
1	30th St UC Ala 980-1.68	33-0350R	13M		66			28		244						20	8					
			25	122				9											9			
			27B			122																
2	30th St UC Ala 980-1.68	33-0350G	12		66			28		244						20	8					
			25	122				9											9			
			27B			122																
3	17th St OC Ala 980-0.86	33-0476	9		148			35		504								35				
			24	258																		
			25	516				36											36			
			38				100	14														
			12" YELLOW		103															103		
			TYPE I (10'-0") ARROW					14														
4	12th St RAMP SEPARATION Ala 980-0.62	33-0479S	8		43			16		140												
			25	230		220						230							16			
			27B											220								
6	WHIPPLE Rd UC Ala 880-13.67	33-0245K	25	147				11											11			
			27B			147																
			38A				85															
7	WHIPPLE Rd UC Ala 880-13.67	33-0245S	25	146				10											10			
			27B			146																
			38																			
8	ALVARADO NILES Rd OC Ala 880-13.0	33-0631	10					345								295	50					
			25	720				50											50			
			27B			713																
			37B				28	34												34		
			38			548	75													75		
9	FREMONT Blvd OC Ala 880-11.5	33-0618	10					652								2664	444					
			25	810															56			
			38				782	107												107		
			39			816																
			TYPE III (L) ARROW					168														
10	STEVENSON Blvd OC Ala 880-6.24	33-0591	10					670								574	96					
			25	700				48											48			
			37				140	156										8	148			
			39			700																
			TYPE III (R) ARROW					84														
			BIKE LINE					5														
			BIKE LANE ARROW					6														
11	AUTO MALL PARKWAY OC Ala 880-4.71	33-0268	10					666								570	96					
			25	690				48											48			
			27B			690																
			37				35	41										8	33			
			38B				460	127												127		
SUBTOTAL				4461	103	2483	1516	2178	3215	447	644	488	1010	4461	2160	1516	1975	4143	16	1275	293	550
TOTAL				4770		9113			3215	447	644	488	1010	6621		1516	1975	4143	1584		550	



DETAIL 13M PAVEMENT DELINEATION DETAIL
NO SCALE

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: FUK NYAN KURNIAWAN
 CHECKED BY: FUK NYAN KURNIAWAN
 DUKE LE: FUK NYAN KURNIAWAN
 REVISIONS: (None)
 REVISOR: (None)
 DATE: 12/22/10
 DL: 12/22/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880,980	Var	6	20

REGISTERED CIVIL ENGINEER: Fuk Nyan Kurniawan
 No. 64659
 Exp. 6-30-11
 CIVIL
 DATE: 1/4/11
 PLANS APPROVAL DATE: 2-7-11

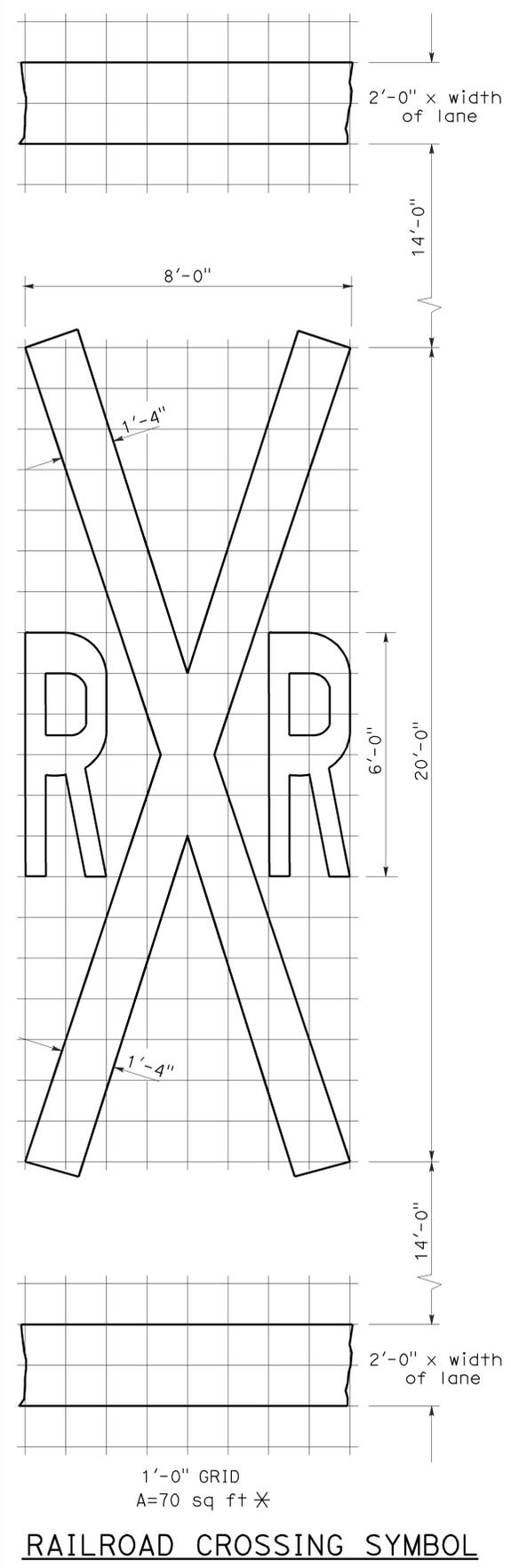
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,980	Var	7	20

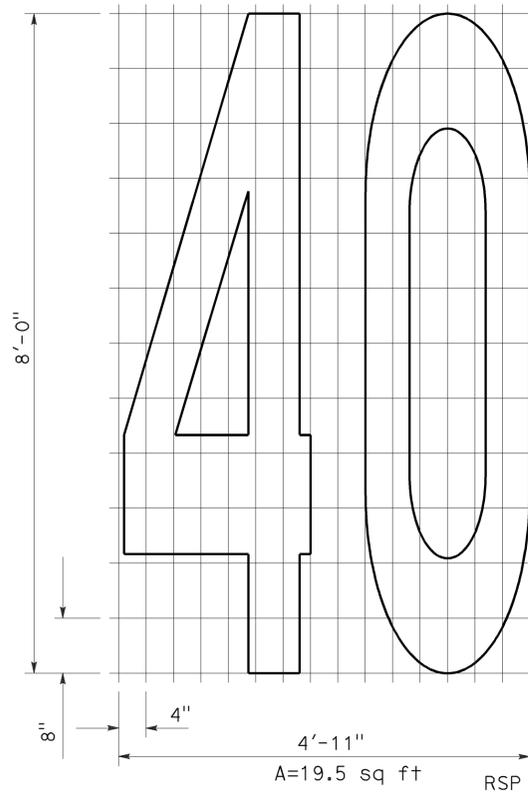
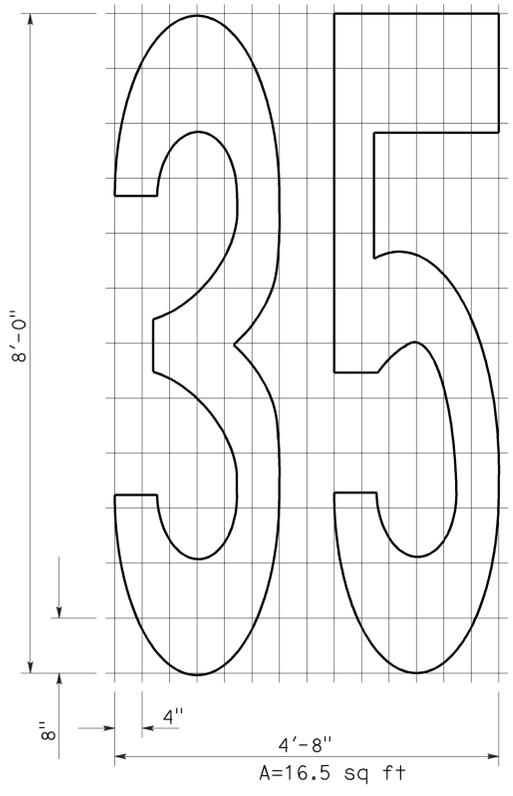
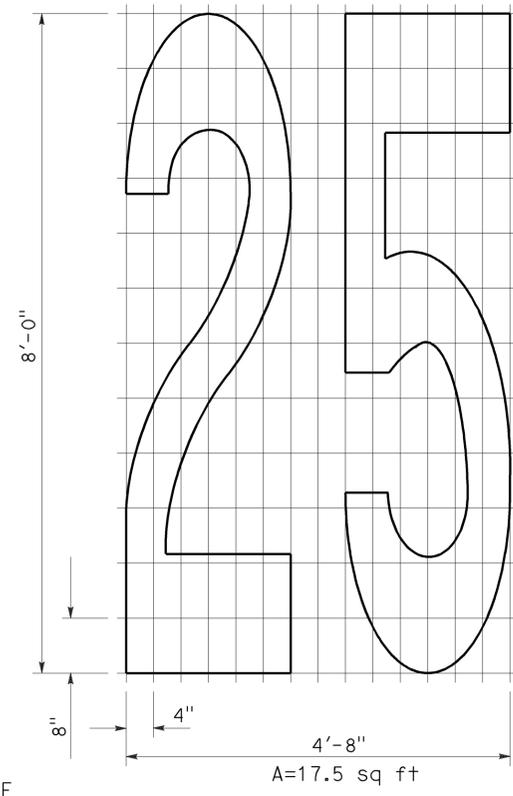
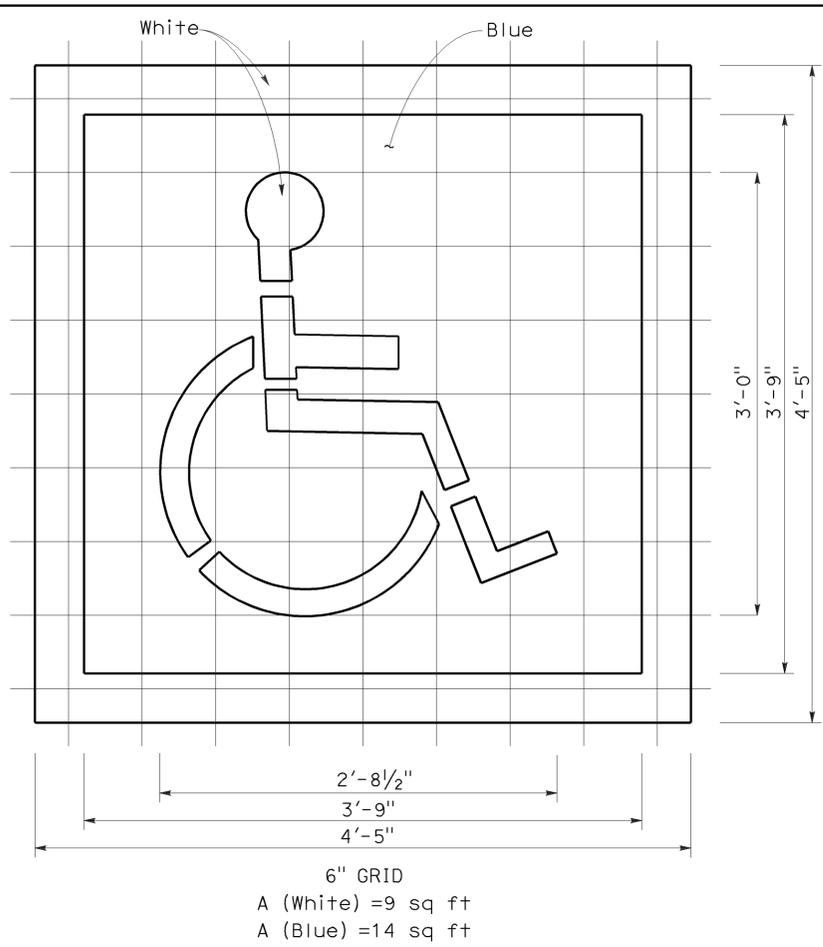
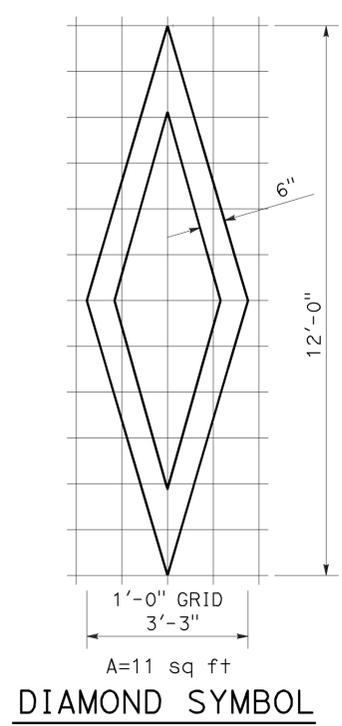
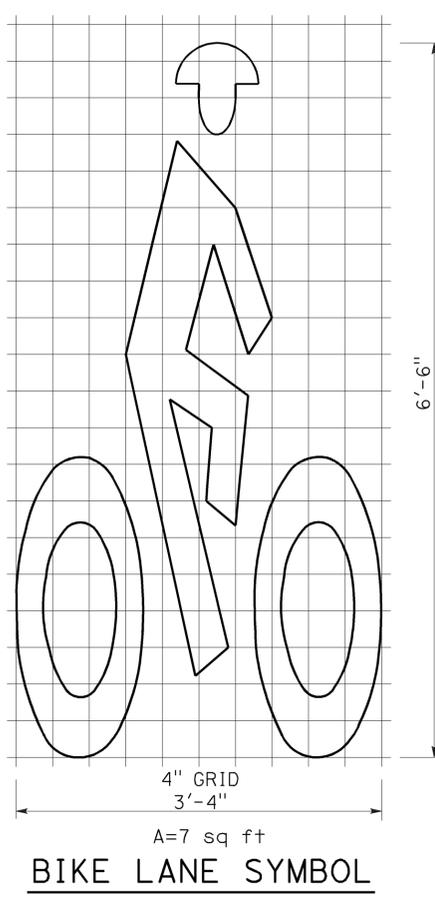
Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Donald E. Howe
 No. C46402
 Exp. 3-31-09
 CIVIL
 STATE OF CALIFORNIA

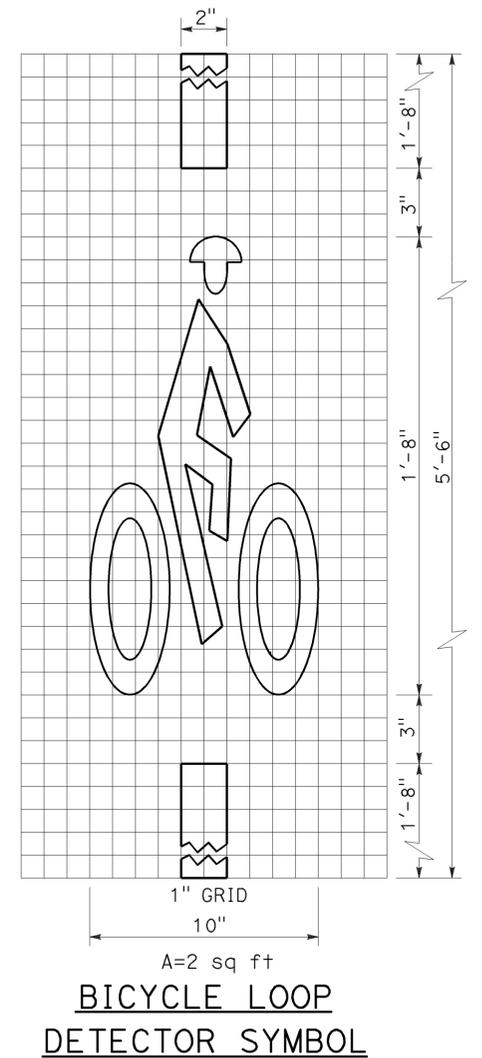
To accompany plans dated 2-7-11



*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



NUMERALS



NOTE:
1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,980	Var	8	20

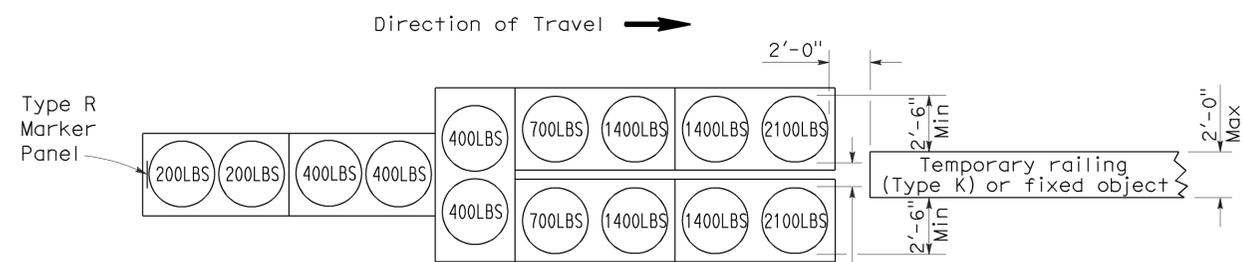
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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.

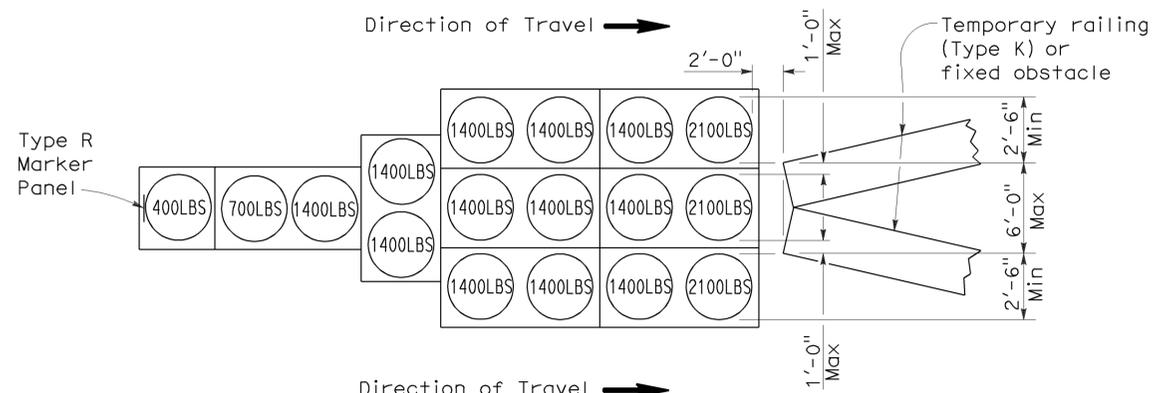
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 2-7-11



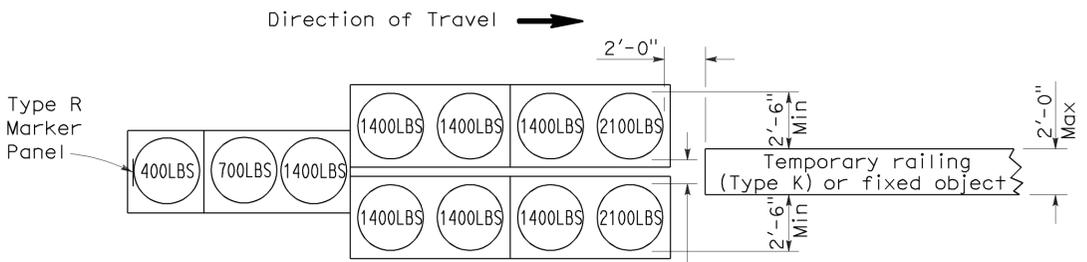
ARRAY 'TU14'

Approach speed 45 mph or more



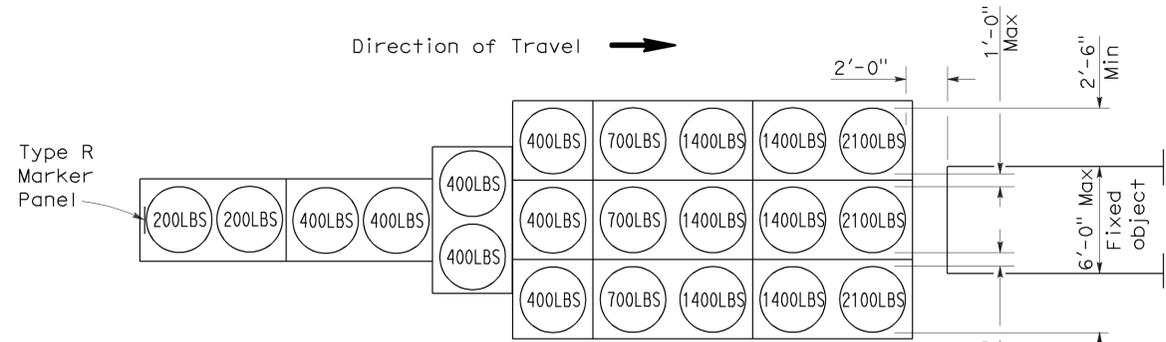
ARRAY 'TU17'

Approach speed less than 45 mph



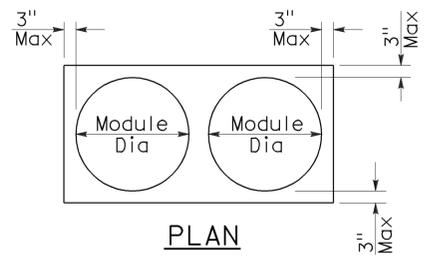
ARRAY 'TU11'

Approach speed less than 45 mph

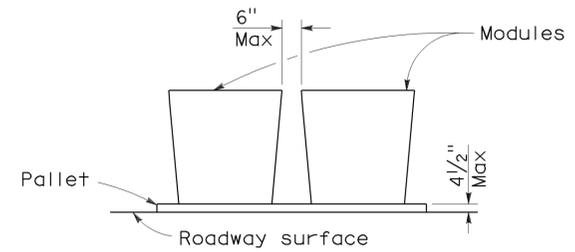


ARRAY 'TU21'

Approach speed 45 mph or more



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

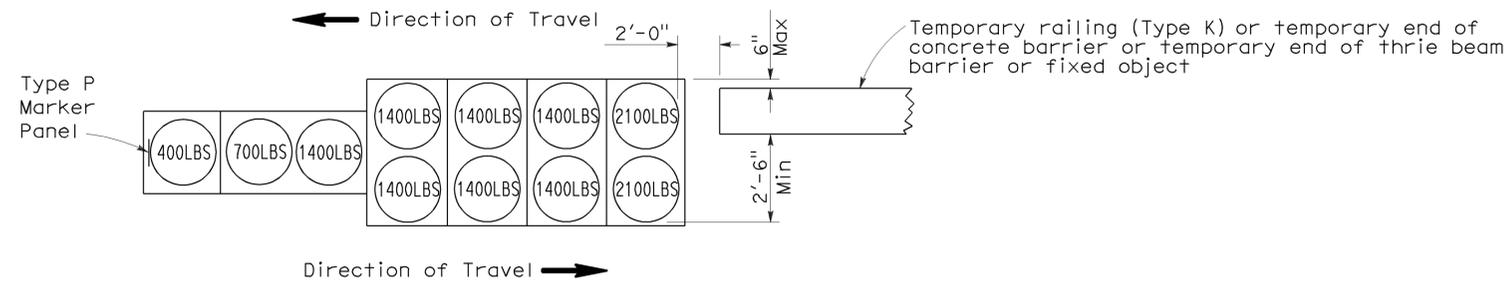
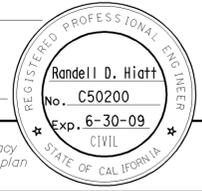
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,980	Var	9	20

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

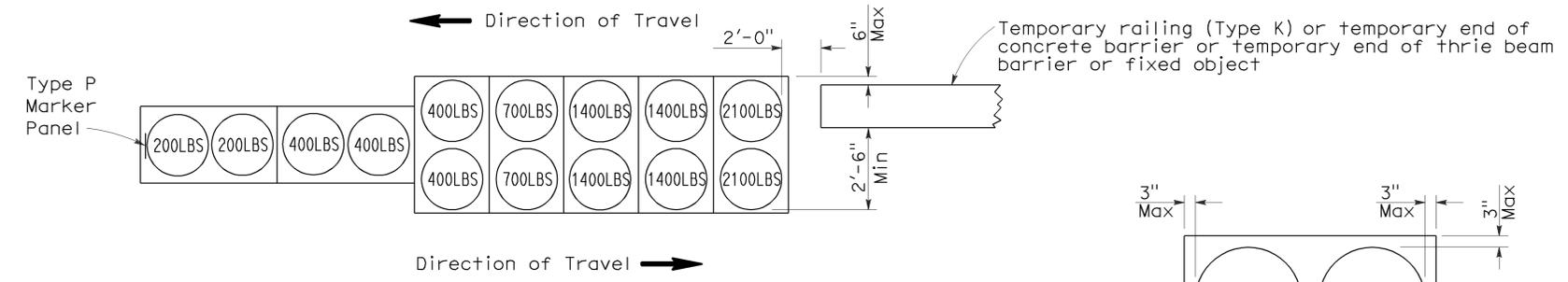
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-7-11



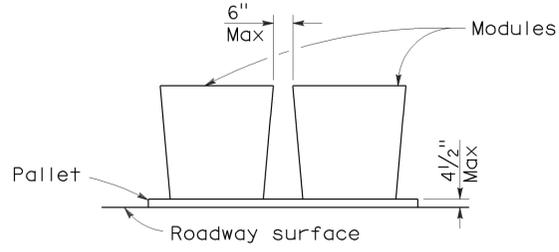
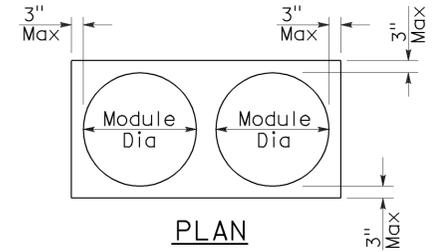
ARRAY 'TB11'

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

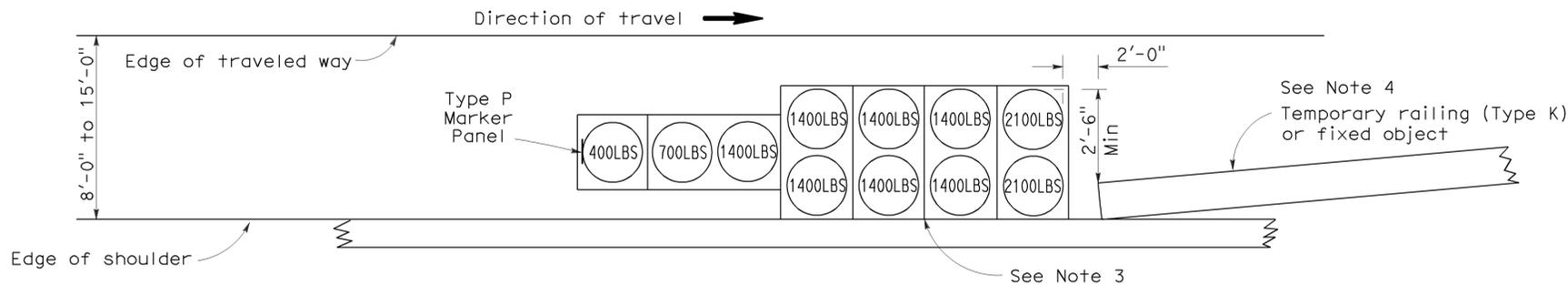
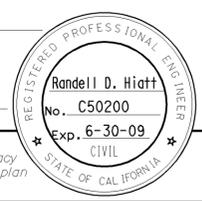
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,980	Var	10	20

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

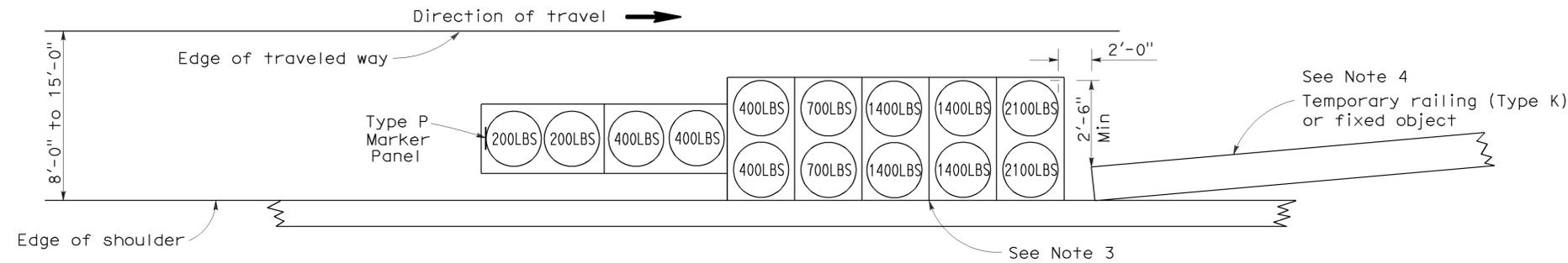
June 6, 2008
PLANS APPROVAL DATE

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To accompany plans dated 2-7-11



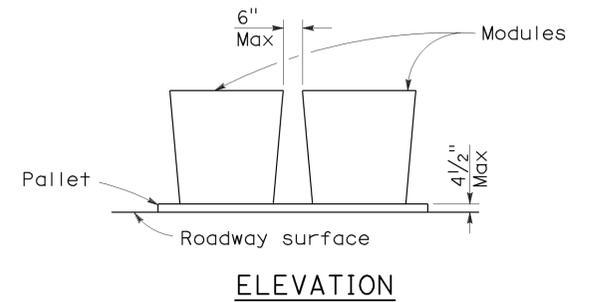
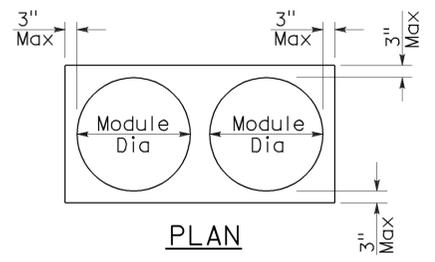
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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.



CRASH CUSHION PALLET DETAIL
See Note 11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

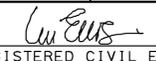
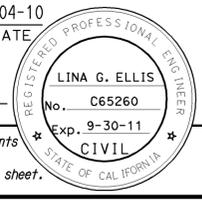
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

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.

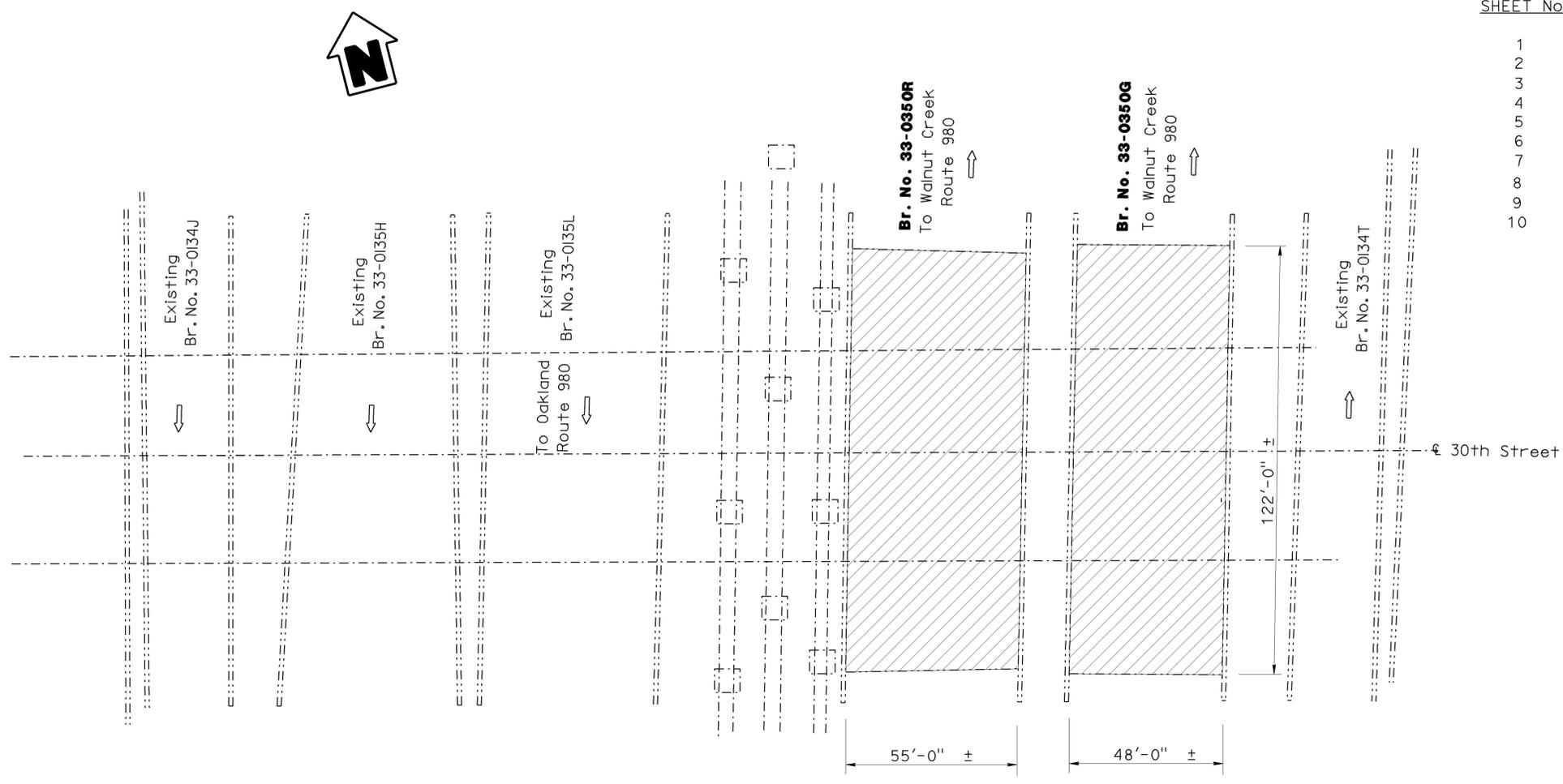
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	880,980	Var	11	20
 REGISTERED CIVIL ENGINEER			10-04-10	DATE	
			2-7-11	PLANS APPROVAL DATE	
					
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INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN 1
2	GENERAL PLAN 2
3	GENERAL PLAN 3
4	GENERAL PLAN 4
5	GENERAL PLAN 5
6	GENERAL PLAN 6
7	GENERAL PLAN 7
8	DECK REPAIR TABLE & DETAILS
9	JOINT SEAL ASSEMBLY DETAILS
10	JOINT SEAL ASSEMBLY



STANDARD PLANS DATED MAY 2006

SHEET No.	TITLE
A10A TO A10B	ACRONYMS AND ABBREVIATIONS

LEGEND:

-  INDICATES EXISTING STRUCTURE
-  INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE (PATCH), CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. SEE "DECK REPAIR DETAIL" ON "DECK REPAIR TABLE & DETAILS" SHEET.
-  INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

① 30th STREET UNDERCROSSING
BR. No. 33-0350R, Rte 980, PM 1.68
NO SCALE

② 30th STREET UNDERCROSSING
BR. No. 33-0350G, Rte 980, PM 1.68
NO SCALE

GENERAL NOTES:

Reinforced concrete: $f_y = 60,000$ psi
 $f'_c = 4,000$ psi

Structural Steel: $f_y = 36,000$ psi

① 30TH STREET UNDERCROSSING BRIDGE NO. 33-0350R
QUANTITIES

REMOVE UNSOUND CONCRETE	22	CF
CLEAN BRIDGE DECK	6,710	SQFT
RAPID SETTING CONCRETE (PATCH)	22	CF
TREAT BRIDGE DECK	6,710	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	75	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

② 30TH STREET UNDERCROSSING BRIDGE NO. 33-0350G
QUANTITIES

REMOVE UNSOUND CONCRETE	20	CF
CLEAN BRIDGE DECK	5,856	SQFT
RAPID SETTING CONCRETE (PATCH)	20	CF
TREAT BRIDGE DECK	5,856	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	65	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

REPLACE JOINT SEAL AND TREAT BRIDGE DECK

30TH STREET UC
GENERAL PLAN 1


DESIGN ENGINEER 10-04-10

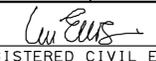
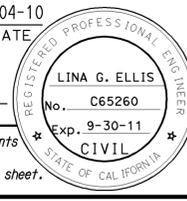
DESIGN	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DESIGN	L. Ellis	C. Lee		
DETAILS	M. Yu	L. Ellis	LAYOUT	M. Yu
QUANTITIES	L. Ellis	C. Lee	SPECIFICATIONS	
				PLANS AND SPECS COMPARED
				L. Ellis

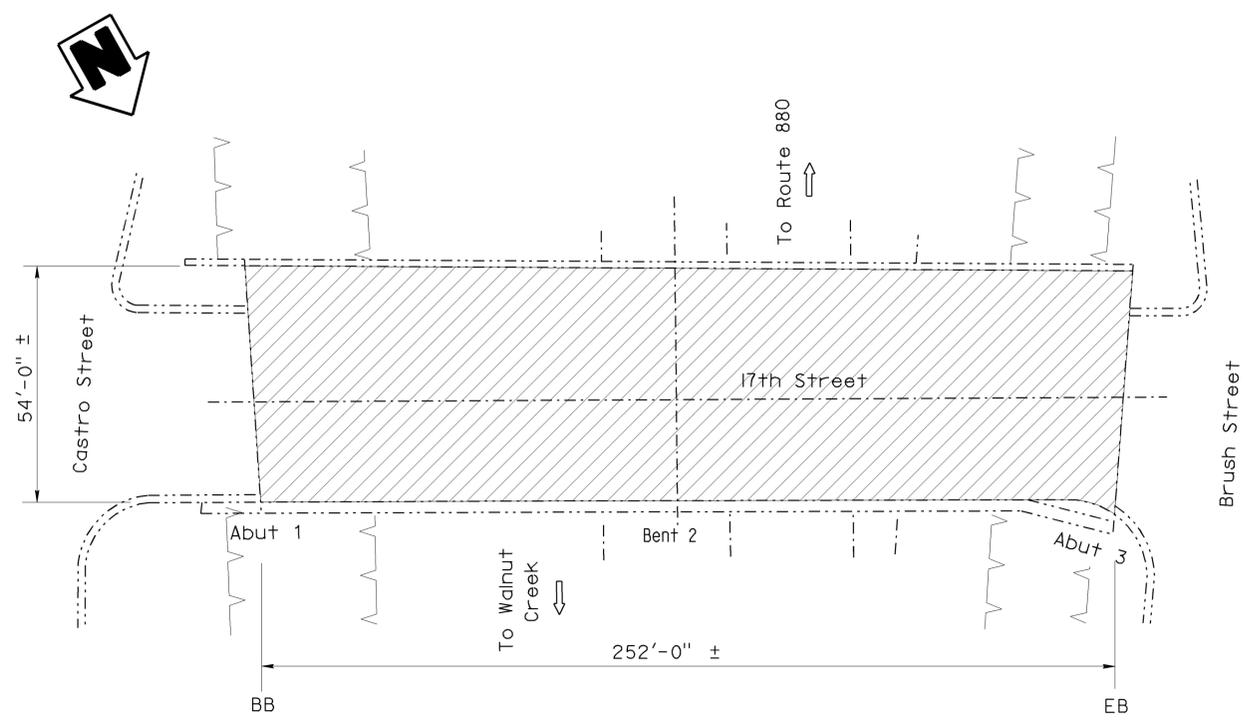
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.
33-0350R
33-0350G
POST MILE
1.68

TIME PLOTTED => 09:18 USERNAME => s130817 DATE PLOTTED => 16-DEC-2010

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	880,980	Var	12	20
 REGISTERED CIVIL ENGINEER			10-04-10	DATE	
PLANS APPROVAL DATE			2-7-11		
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LEGEND:

----- INDICATES EXISTING STRUCTURE

 INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE (PATCH), CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. SEE "DECK REPAIR DETAIL" ON "DECK REPAIR TABLE & DETAILS" SHEET.

 INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

③ 17TH STREET OVERCROSSING
 BR. No. 33-0476, Rte 980, PM 0.86
 NO SCALE

③ 17TH STREET OVERCROSSING BRIDGE NO. 33-0476

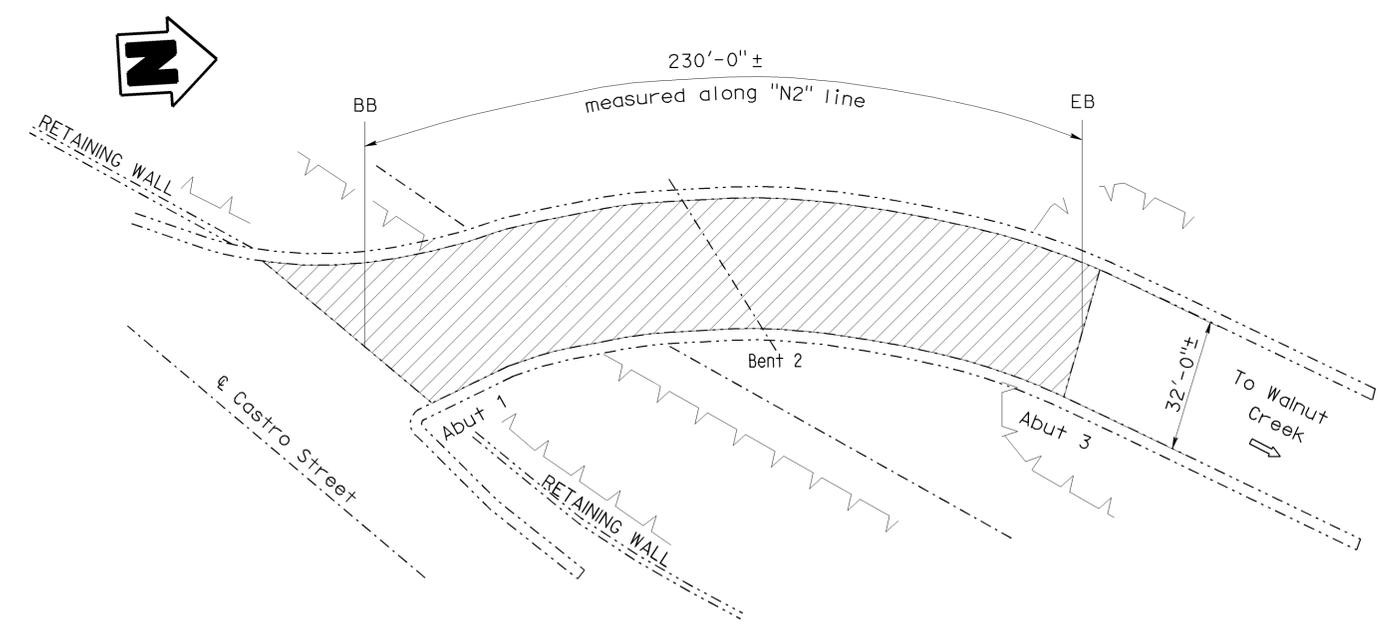
QUANTITIES

REMOVE UNSOUND CONCRETE	45	CF
CLEAN BRIDGE DECK	13,608	SQFT
RAPID SETTING CONCRETE (PATCH)	45	CF
TREAT BRIDGE DECK	13,608	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	151	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

④ 12TH STREET RAMP SEPARATION BRIDGE NO. 33-0479S

QUANTITIES

REMOVE UNSOUND CONCRETE	25	CF
CLEAN BRIDGE DECK	7,360	SQFT
RAPID SETTING CONCRETE (PATCH)	25	CF
TREAT BRIDGE DECK	7,360	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	82	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



④ 12TH STREET RAMP SEPARATION
 BR. No. 33-0479S, Rte 980, PM 0.62
 NO SCALE

REPLACE JOINT SEAL AND TREAT BRIDGE DECK
17TH STREET OC, 12TH RAMP SEPARATION
GENERAL PLAN 2


 DESIGN ENGINEER 10-04-10

DESIGN	BY L. Ellis	CHECKED C. Lee	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu
QUANTITIES	BY L. Ellis	CHECKED C. Lee	SPECIFICATIONS	BY
				CHECKED L. Ellis
				PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.
 33-0476
 33-0479S
 POST MILE
 0.86, 0.62

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

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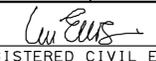
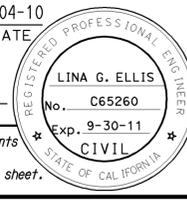
CU 04609
 EA 1E7501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	09-21-10	09-27-10				
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SHEET 2 OF 10

USERNAME => s130817 DATE PLOTTED => 16-DEC-2010 TIME PLOTTED => 09:18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	880,980	Var	13	20
			10-04-10		
REGISTERED CIVIL ENGINEER			DATE		
			2-7-11		
			PLANS APPROVAL DATE		
					
<small>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.</small>					
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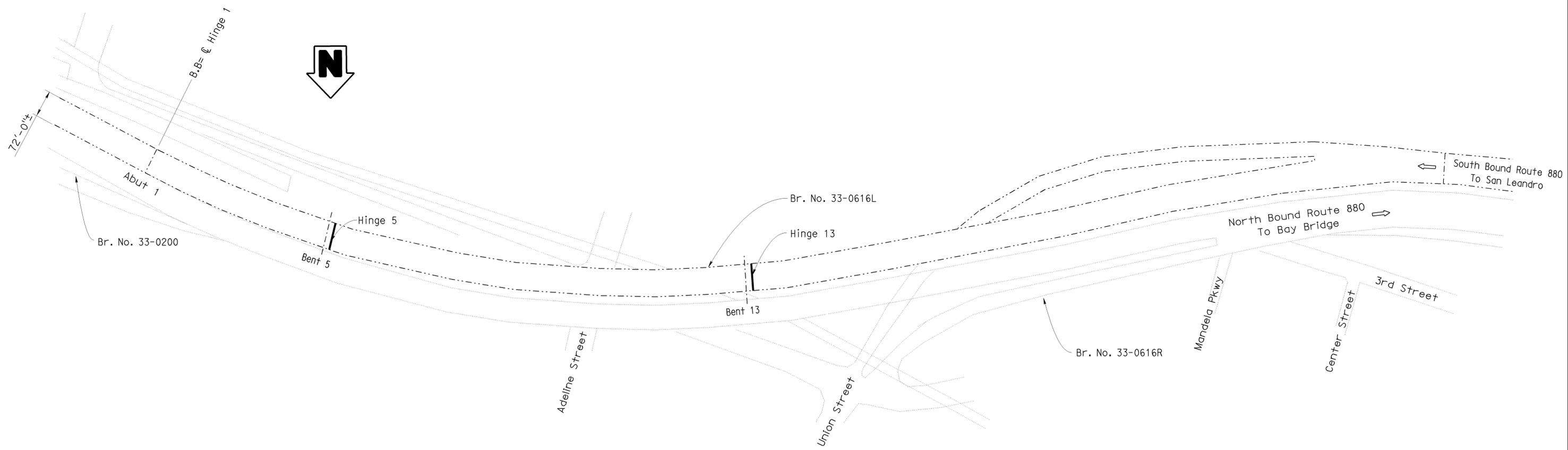
⑤ 5TH AND 6TH STREET VIADUCT BRIDGE NO. 33-0616L

QUANTITIES

	LUMP	SUM
BRIDGE REMOVAL (PORTION)	10	CY
STRUCTURAL CONCRETE, BRIDGE	144	LF
CLEAN EXPANSION JOINT	72	LF
JOINT SEAL ASSEMBLY (MR 2 1/2")	72	LF
JOINT SEAL ASSEMBLY (MR 4")	72	LF
BAR REINFORCING STEEL (BRIDGE)	1,715	LB

LEGEND:

- INDICATES EXISTING STRUCTURE
- ⊖ INDICATES BRIDGE LOCATION, SEE TITLE SHEET.
- Indicates location of remove existing joint seal and place new joint seal assembly. For details see "JOINT SEAL ASSEMBLY DETAILS" sheet.



⑤ 5TH AND 6TH STREET VIADUCT
BR. No. 33-0616L, Rte 880, PM R32.2
NO SCALE

REPLACE JOINT SEALS AND TREAT BRIDGE DECK

5TH AND 6TH STREET VIADUCT
GENERAL PLAN 3

 DESIGN ENGINEER 10-04-10	DESIGN	BY L. Ellis	CHECKED C. Lee	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	33-0616L	
	DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu			CHECKED L. Ellis	POST MILE	R32.2
	QUANTITIES	BY L. Ellis	CHECKED C. Lee	SPECIFICATIONS	BY			PLANS AND SPECS COMPARED		

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

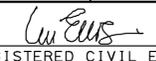
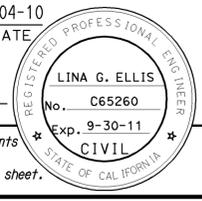
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

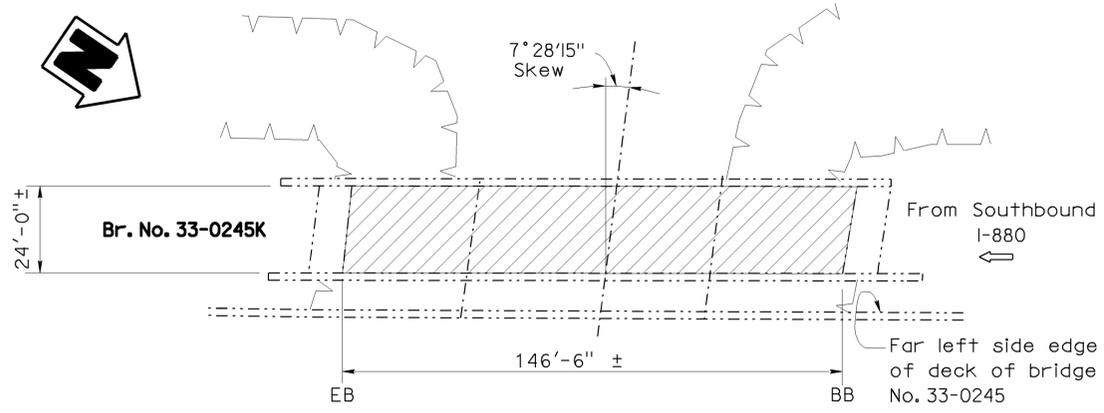


CU 04609
EA 1E7501

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 3 OF 10
	08-23-10 09-21-10 09-27-10	

USERNAME => s130817 DATE PLOTTED => 16-DEC-2010 TIME PLOTTED => 09:18

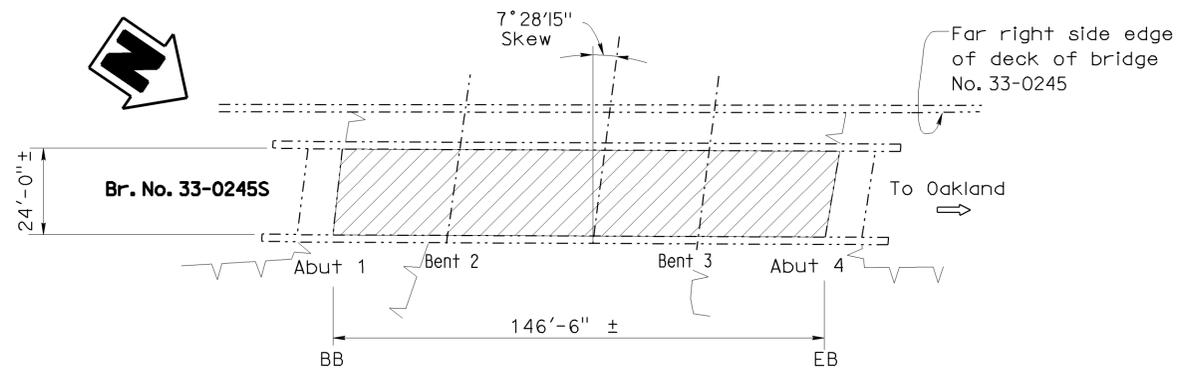
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	880,980	Var	14	20
			10-04-10		
REGISTERED CIVIL ENGINEER			DATE		
			2-7-11		
			PLANS APPROVAL DATE		
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					
To get to the Caltrans web site, go to: http://www.dot.ca.gov					



⑥ WHIPPLE ROAD UNDERCROSSING
BR. No. 33-0245K, Rte 880, PM 13.67
NO SCALE

LEGEND:

- INDICATES EXISTING STRUCTURE
-  INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE (PATCH), CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. SEE "DECK REPAIR DETAIL" ON "DECK REPAIR TABLE & DETAILS" SHEET.
- INDICATES BRIDGE LOCATION, SEE TITLE SHEET.



⑦ WHIPPLE ROAD UNDERCROSSING
BR. No. 33-0245S, Rte 880, PM 13.67
NO SCALE

⑥ WHIPPLE ROAD UNDERCROSSING BRIDGE NO. 33-0245K

QUANTITIES		
REMOVE UNSOUND CONCRETE	12	CF
CLEAN BRIDGE DECK	3,516	SQFT
RAPID SETTING CONCRETE (PATCH)	12	CF
TREAT BRIDGE DECK	3,516	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	39	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

⑦ WHIPPLE ROAD UNDERCROSSING BRIDGE NO. 33-0245S

QUANTITIES		
REMOVE UNSOUND CONCRETE	12	CF
CLEAN BRIDGE DECK	3,516	SQFT
RAPID SETTING CONCRETE (PATCH)	12	CF
TREAT BRIDGE DECK	3,516	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	39	GAL
PUBLIC SAFETY PLAN	LUMP	SUM


DESIGN ENGINEER 10-04-10

DESIGN	BY L. Ellis	CHECKED C. Lee	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu
QUANTITIES	BY L. Ellis	CHECKED C. Lee	SPECIFICATIONS	BY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.
33-0245K
33-0245S
POST MILE
13.67

REPLACE JOINT SEAL AND TREAT BRIDGE DECK

WHIPPLE ROAD UC
GENERAL PLAN 4

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

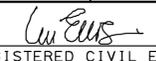
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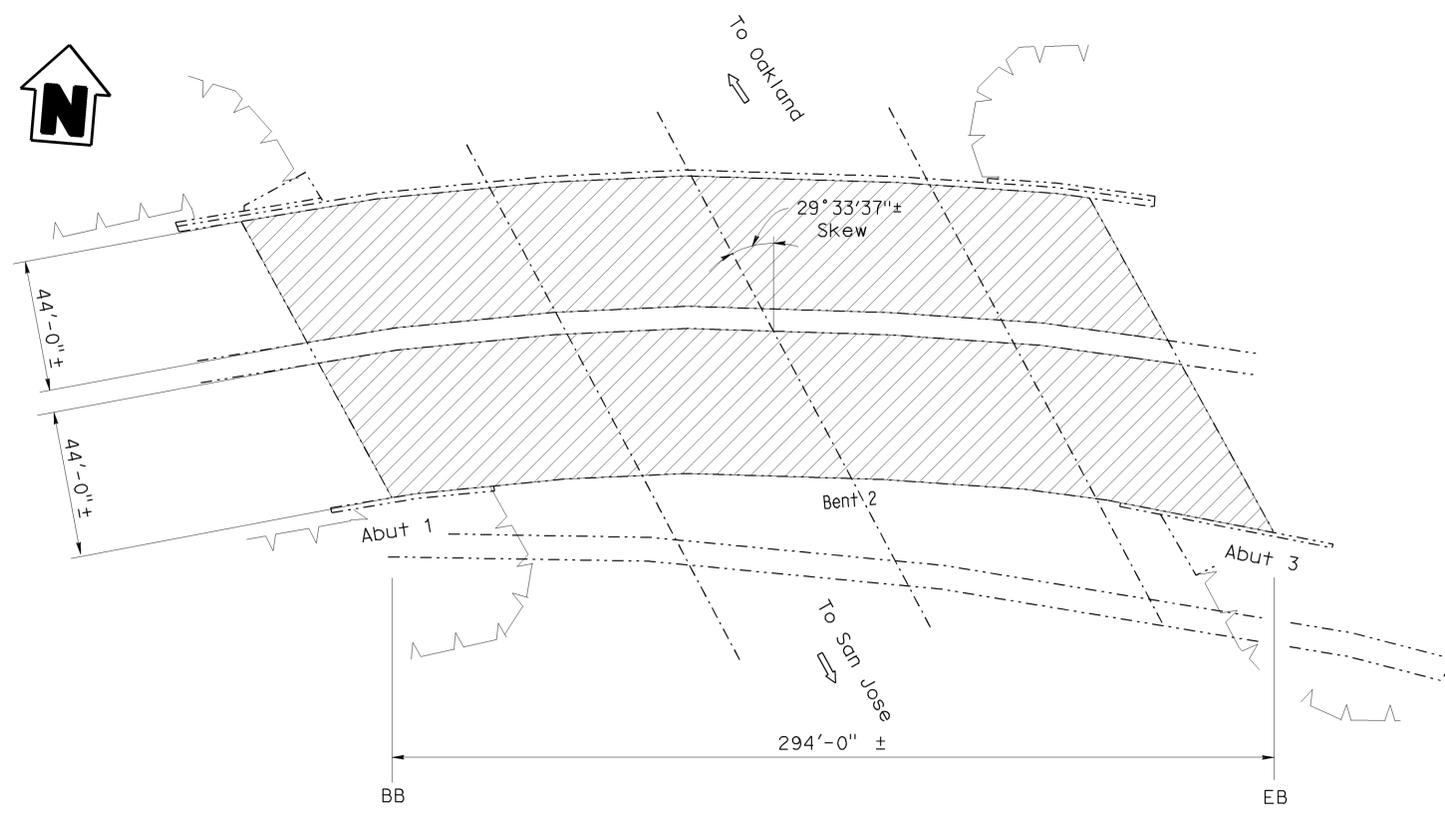
CU 04609
EA 1E7501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	09-21-10	09-27-10	10-11-10	12-15-10					
SHEET									4
OF									10

TIME PLOTTED => 09:18 USERNAME => s130817 DATE PLOTTED => 16-DEC-2010

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	880,980	Var	15	20
 REGISTERED CIVIL ENGINEER			10-04-10	DATE	
PLANS APPROVAL DATE 2-7-11					
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8 ALVARADO - NILES ROAD OVERCROSSING
 BR. No. 33-0631, Rte 880, PM 13.00
 NO SCALE

LEGEND:

- INDICATES EXISTING STRUCTURE
-  INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE (PATCH), CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. SEE "DECK REPAIR DETAIL" ON "DECK REPAIR TABLE & DETAILS" SHEET.
- INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

8 ALVARADO - NILES OVERCROSSING BRIDGE NO. 33-0631

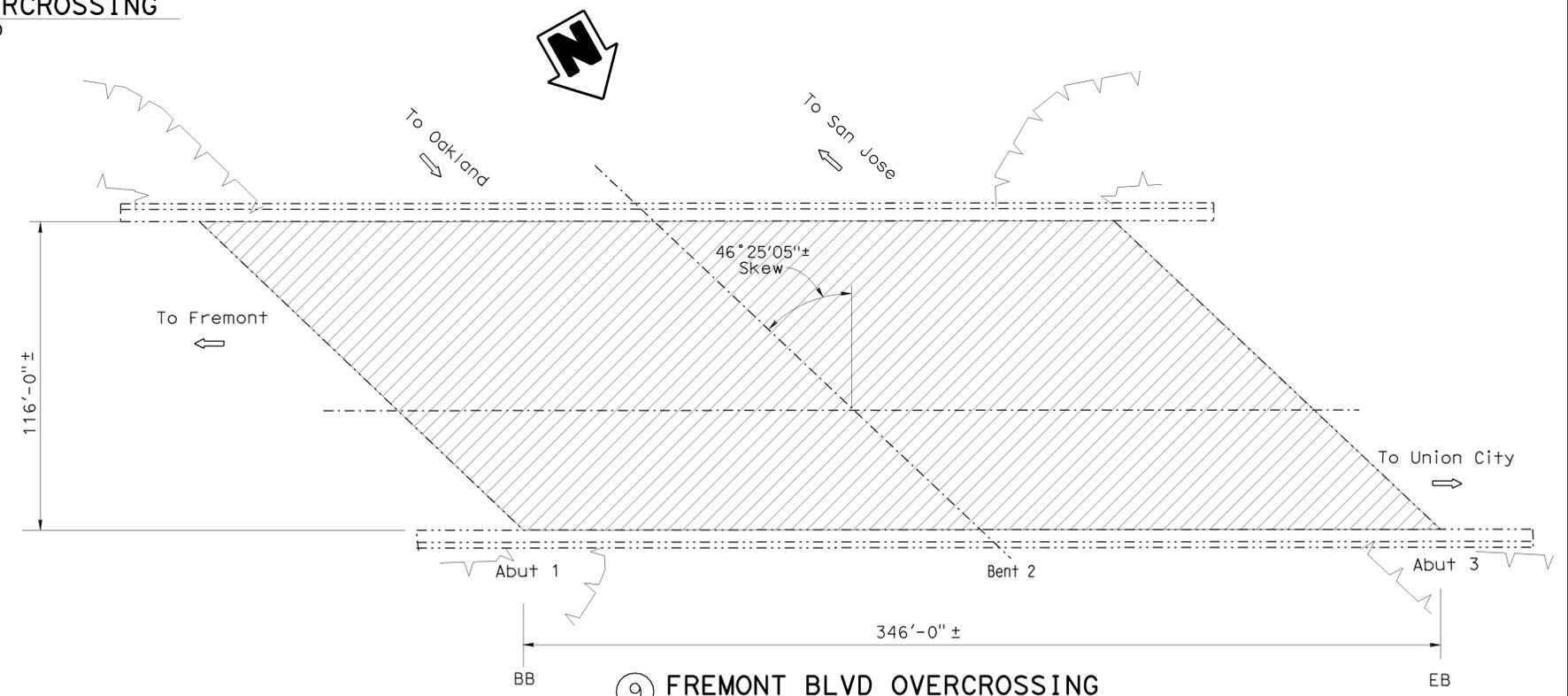
QUANTITIES

REMOVE UNSOUND CONCRETE	86	CF
CLEAN BRIDGE DECK	25,872	SQFT
RAPID SETTING CONCRETE (PATCH)	86	CF
TREAT BRIDGE DECK	25,872	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	287	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

9 FREMONT BLVD. OVERCROSSING BRIDGE NO. 33-0618

QUANTITIES

REMOVE UNSOUND CONCRETE	134	CF
CLEAN BRIDGE DECK	40,100	SQFT
RAPID SETTING CONCRETE (PATCH)	134	CF
TREAT BRIDGE DECK	40,100	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	445	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



9 FREMONT BLVD OVERCROSSING
 BR. No. 33-0618, Rte 880, PM 11.50
 NO SCALE

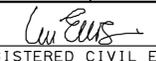
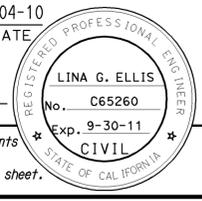
REPLACE JOINT SEAL AND TREAT BRIDGE DECK
 ALVARADO-NILES RD OC, FREMONT BLVD OC
 GENERAL PLAN 5

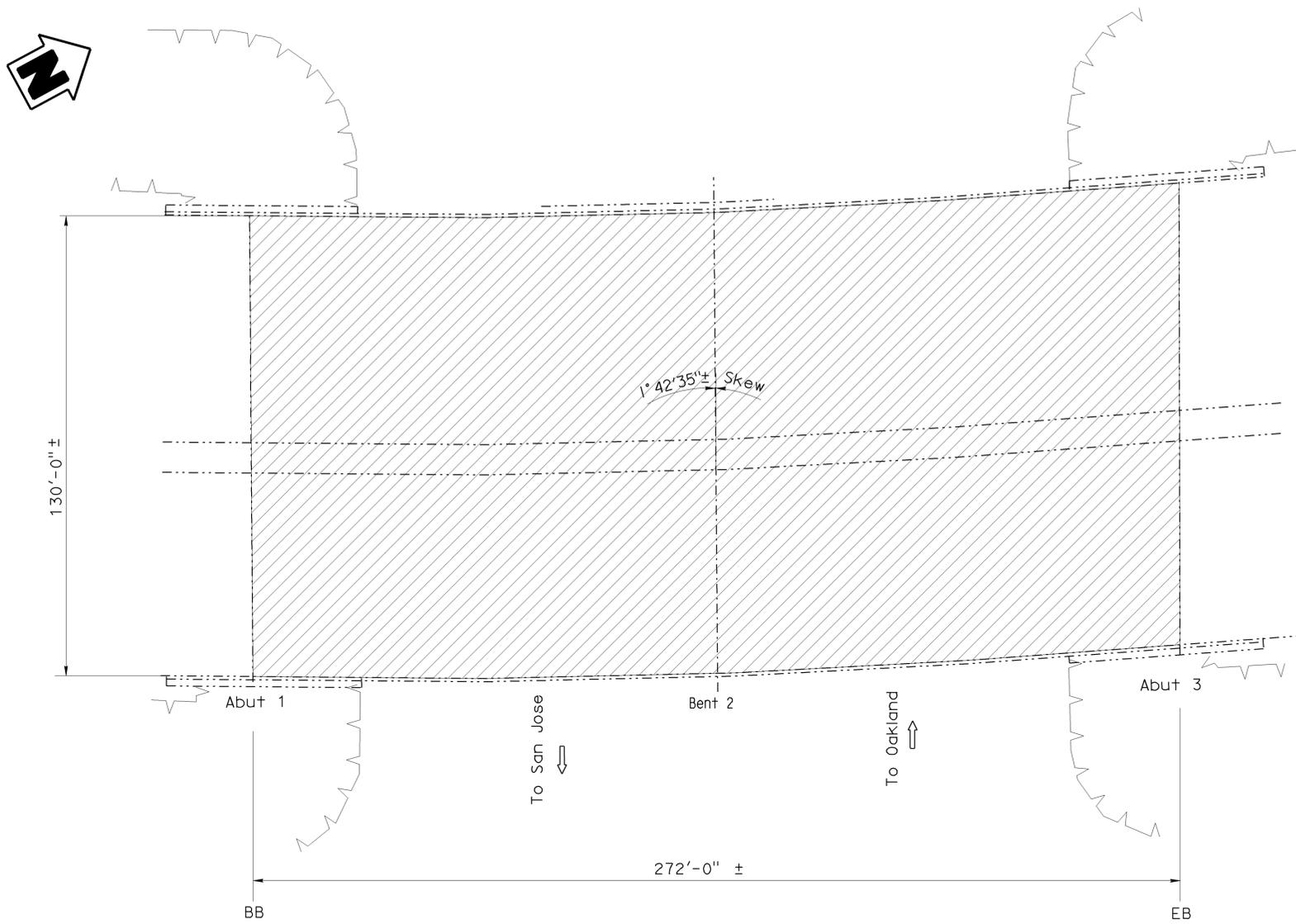
 DESIGN ENGINEER 10-04-10	DESIGN	BY L. Ellis	CHECKED C. Lee	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu
	QUANTITIES	BY L. Ellis	CHECKED C. Lee	SPECIFICATIONS	BY

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 33-0631
 33-0618
 POST MILE 13.00, 11.50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	880,980	Var	16	20
			10-04-10	DATE	
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			2-7-11		
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To get to the Caltrans web site, go to: http://www.dot.ca.gov					



LEGEND:

- INDICATES EXISTING STRUCTURE
-  INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE (PATCH), CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. SEE "DECK REPAIR DETAIL" ON "DECK REPAIR TABLE & DETAILS" SHEET.
-  INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

10 STEVENSON BLVD OVERCROSSING
BR. No. 33-0591, Rte 880, PM 6.24
NO SCALE

10 STEVENSON BLVD. OVERCROSSING BRIDGE NO. 33-0591
QUANTITIES

REMOVE UNSOUND CONCRETE	115	CF
CLEAN BRIDGE DECK	35,300	SQFT
RAPID SETTING CONCRETE (PATCH)	115	CF
TREAT BRIDGE DECK	35,300	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	390	GAL
PUBLIC SAFETY PLAN	LUMP	SUM


DESIGN ENGINEER 10-04-10

DESIGN	BY L. Ellis	CHECKED C. Lee	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu
QUANTITIES	BY L. Ellis	CHECKED C. Lee	SPECIFICATIONS	BY
				CHECKED L. Ellis
				PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	33-0591
POST MILE	6.24

REPLACE JOINT SEAL AND TREAT BRIDGE DECK
STEVENSON BLVD OC
GENERAL PLAN 6

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

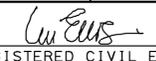


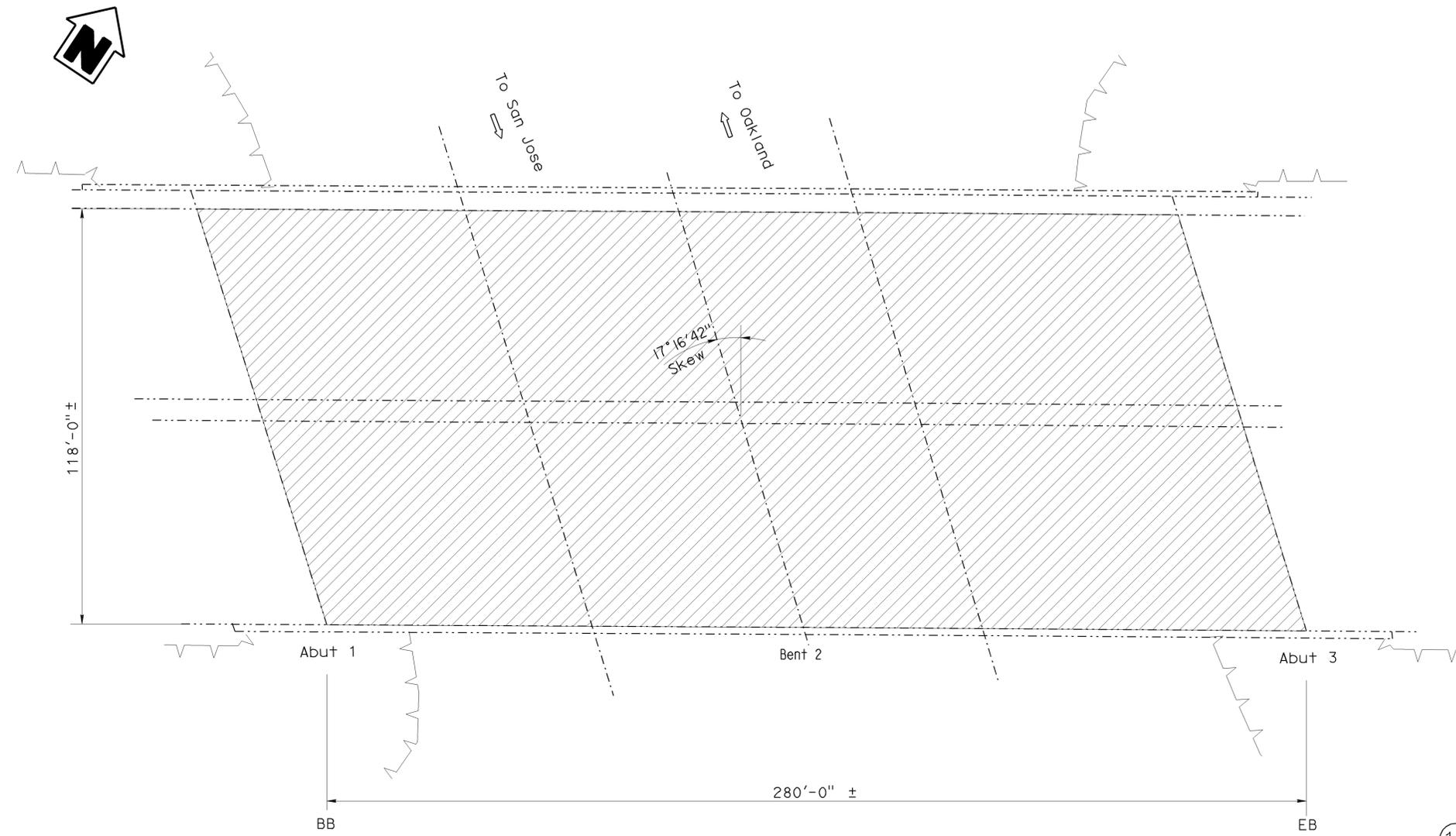
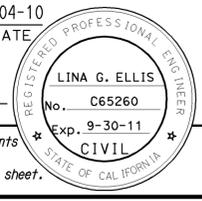
CU 04609
EA 1E7501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	09-21-10	09-27-10							
SHEET	6								
OF	10								

TIME PLOTTED => 09:18 USERNAME => s130817 DATE PLOTTED => 16-DEC-2010

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	880,980	Var	17	20
 REGISTERED CIVIL ENGINEER			10-04-10	DATE	
PLANS APPROVAL DATE			2-7-11		
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LEGEND:

- INDICATES EXISTING STRUCTURE
-  INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE (PATCH), CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE. SEE "DECK REPAIR DETAIL" ON "DECK REPAIR TABLE & DETAILS" SHEET.
-  INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

11 AUTO MALL PARKWAY OVERCROSSING
 BR. No. 33-0268, Rte 880, PM 4.71
 NO SCALE

11 AUTO MALL PARKWAY OVERCROSSING BRIDGE NO. 33-0268
 QUANTITIES

REMOVE UNSOUND CONCRETE	110	CF
CLEAN BRIDGE DECK	33,000	SQFT
RAPID SETTING CONCRETE (PATCH)	110	CF
TREAT BRIDGE DECK	33,000	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	367	GAL
PUBLIC SAFETY PLAN	LUMP	SUM


 DESIGN ENGINEER 10-04-10

DESIGN	BY L. Ellis	CHECKED C. Lee	LOAD FACTOR DESIGN	LIVE LOADING: AND PERMIT DESIGN LOAD	HS20-44 AND ALTERNATIVE
DETAILS	BY M. Yu	CHECKED L. Ellis	LAYOUT	BY M. Yu	CHECKED L. Ellis
QUANTITIES	BY L. Ellis	CHECKED C. Lee	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 33-0268
 POST MILE 4.71

REPLACE JOINT SEAL AND TREAT BRIDGE DECK
AUTO MALL PARKWAY OC
GENERAL PLAN 7

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 04609
 EA 1E7501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

09-21-10	09-27-10	12-15-10							
REVISION DATES									SHEET 7 OF 10

TIME PLOTTED => 09:19 USERNAME => s130817 DATE PLOTTED => 16-DEC-2010

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	880,980	Var	18	20

10-04-10
DATE

2-7-11
PLANS APPROVAL DATE

REGISTERED CIVIL ENGINEER

LINA G. ELLIS
No. C65260
Exp. 9-30-11
CIVIL
STATE OF CALIFORNIA

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DECK REPAIR TABLE

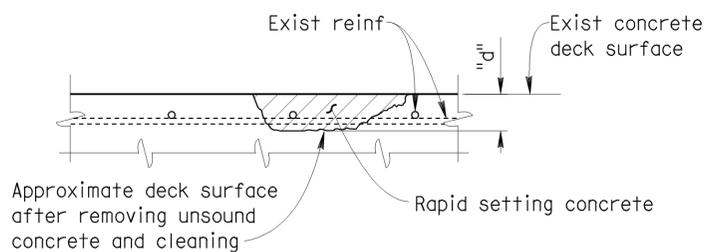
BRIDGE LOCATION NO.	BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (percent)	APPROXIMATE DEPTH DAMAGED (inches)
①	30th Street Undercrossing	33 0350R	2	2
②	30th Street Undercrossing	33 0350G	2	2
③	17th Street Overcrossing	33 0476	2	2
④	12th Street Ramp Separation	33 0479S	2	2
⑥	Whipple Road Undercrossing	33 0245K	2	2
⑦	Whipple Road Undercrossing	33 0245S	2	2
⑧	Alvarado - Niles Road Overcrossing	33 0631	2	2
⑨	Fremont Blvd. Overcrossing	33 0618	2	2
⑩	Stevenson Blvd. Overcrossing	33 0591	2	2
⑪	Auto Mall Parkway Overcrossing	33 0268	2	2

DECK REPAIR NOTES:

1. For bridge locations, see Title Sheet.
2. Locations of deck repair will be determined by the Engineer.
3. Reinforcement may be encountered during deck unsound concrete removal
4. Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
5. It is the responsibility of the contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
6. When existing transverse reinforcement is exposed in the deck surface, saw cutting shall be waived with the approval of the Engineer.
7. The saw cut depth shall not exceed 1 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
8. Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.

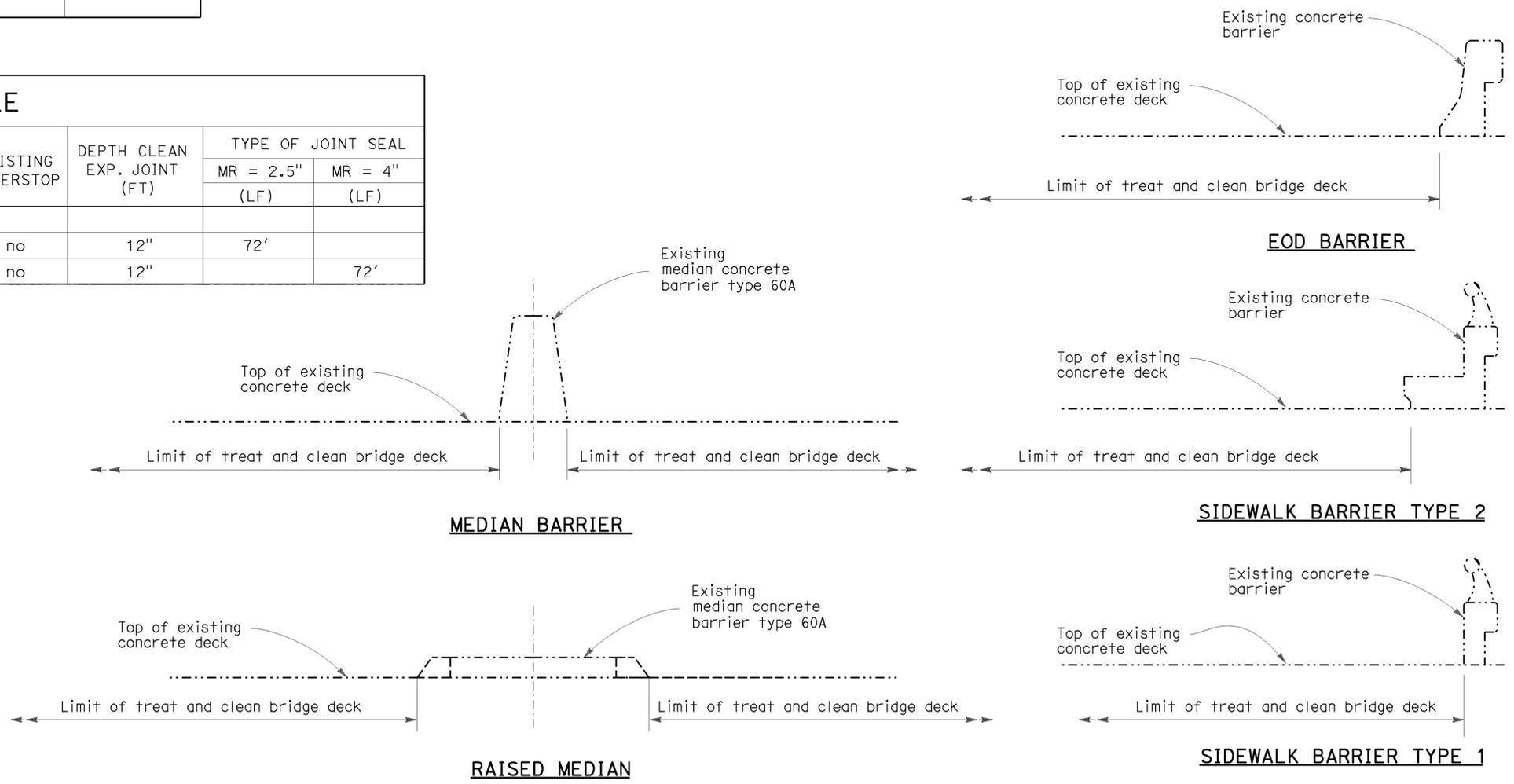
JOINT SEAL TABLE

BRIDGE LOCATION NO.	BRIDGE NAME	BRIDGE NUMBER	JOINT LOCATION	EXISTING WATERSTOP	DEPTH CLEAN EXP. JOINT (FT)	TYPE OF JOINT SEAL	
						MR = 2.5" (LF)	MR = 4" (LF)
⑤	5th & 6th Street Viaduct	33 0616L	Hinge 5	no	12"	72'	
			Hinge 13	no	12"		72'



DECK DAMAGE REPAIR DETAIL

Note: Reinforcement may be encountered during deck concrete removal



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

DESIGN	BY L. Ellis	CHECKED C. Lee
DETAILS	BY M. Yu	CHECKED L. Ellis
QUANTITIES	BY L. Ellis	CHECKED C. Lee

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.	Various
POST MILE	Various

REPLACE JOINT SEAL AND TREAT BRIDGE DECK
VARIOUS BRIDGE
DECK REPAIR TABLE & DETAILS

TIME PLOTTED => 09:19
USERNAME => s130817 DATE PLOTTED => 16-DEC-2010

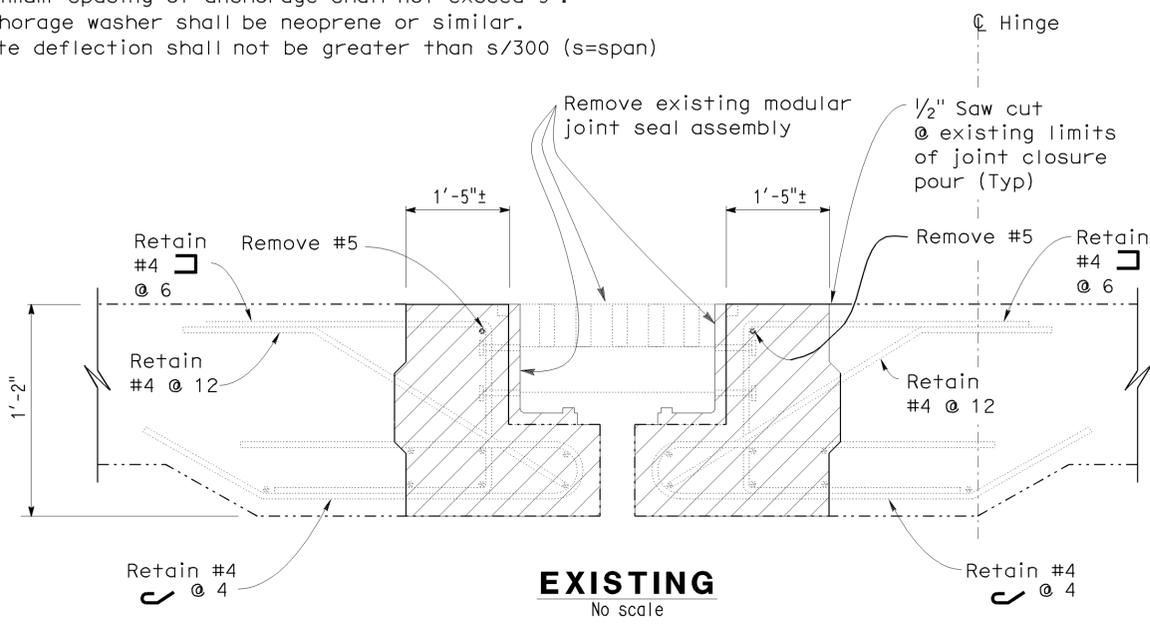
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,980	Var	19	20

REGISTERED ENGINEER - CIVIL	10-04-10
PLANS APPROVAL DATE	
2-7-11	
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<small>To get to the Caltrans web site, go to: http://www.dot.ca.gov</small>	

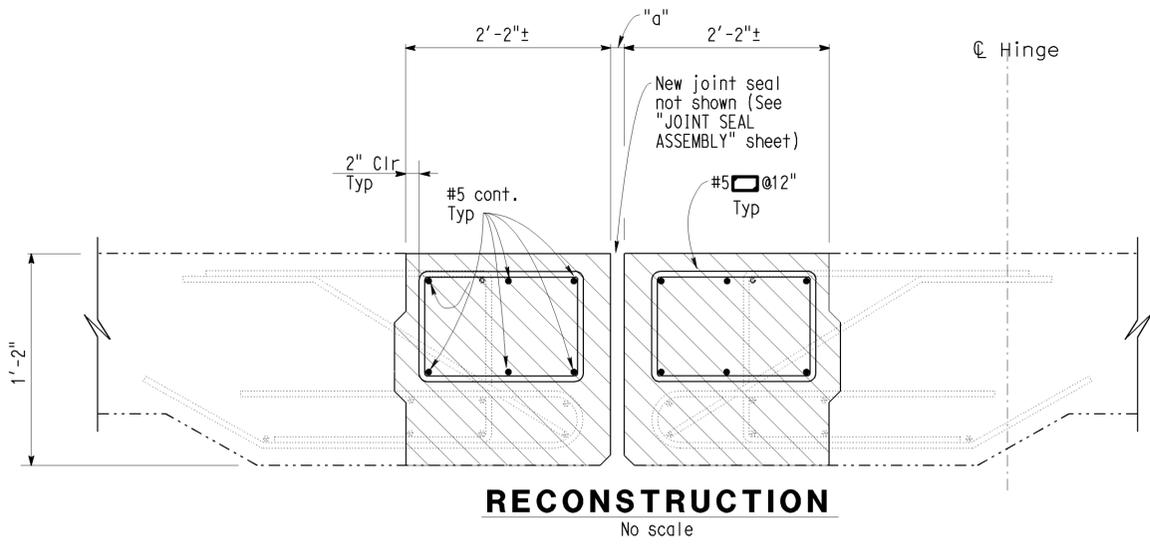
TEMPORARY DECKING DESIGN LOAD		
MOMENT DEMAND / FOOT ($\frac{\text{Kip-ft}}{\text{ft}}$)	BOLT SHEAR / FOOT ($\frac{\text{Kip}}{\text{ft}}$)	BOLT TENSION (Kip)
9.6	4.5	5.6

Note:
 Plate thickness shall be $> \frac{7}{8}$ ".
 Maximum spacing of anchorage shall not exceed 9".
 Anchorage washer shall be neoprene or similar.
 Plate deflection shall not be greater than $s/300$ (s=span)

- LEGEND:
- Indicates existing structure
 - Indicates limits of remove existing concrete and joint seal assembly
 - Indicates limits of place new concrete, reinforcing steel and joint seal assembly
 - ⊖ Indicates bridge location, see TITLE sheet.

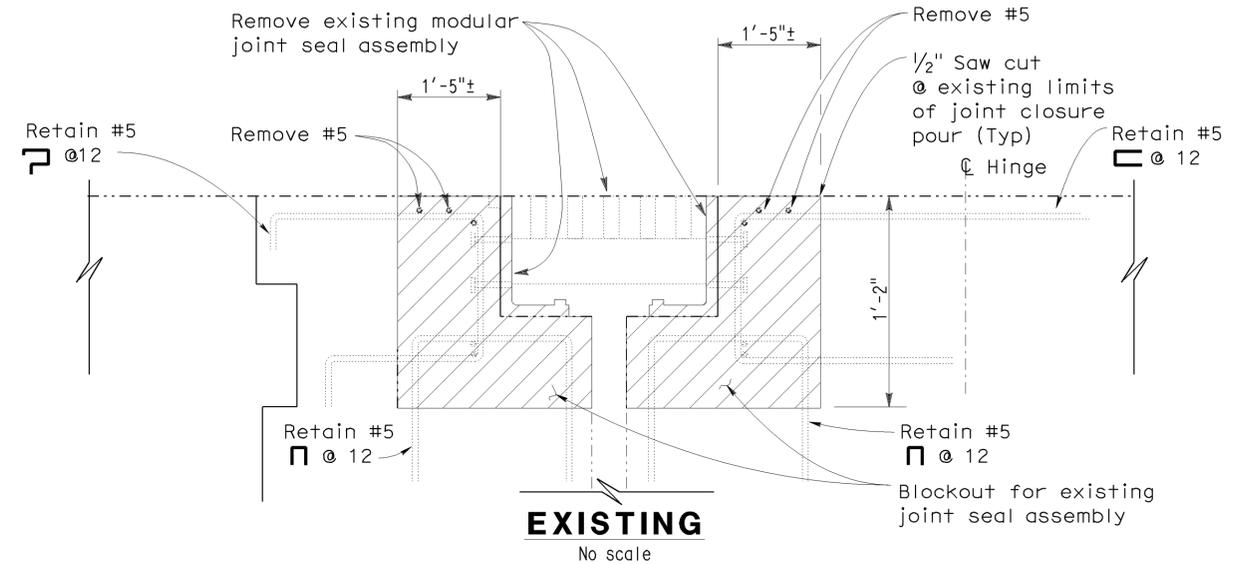


EXISTING
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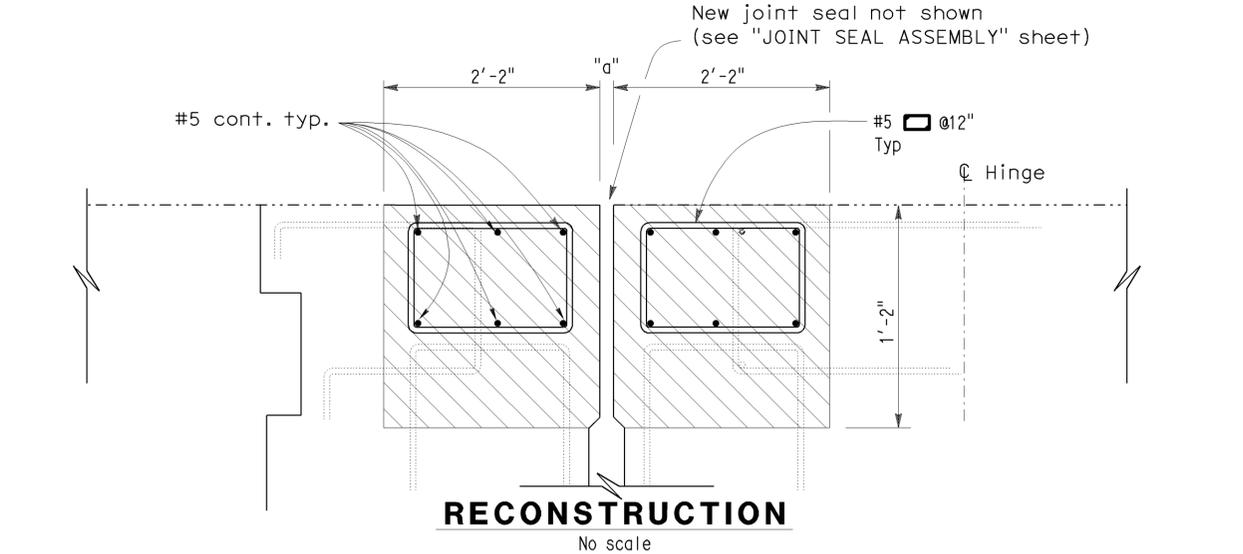


RECONSTRUCTION
No scale

JOINT SEAL ASSEMBLY @ BRIDGE OVERHANG
@ HINGE 5 (MR=2.5"), @ HINGE 13 (MR=4")
LOCATION ⑤ BR. NO. 33-0616L, RTE. , PM 32.2



EXISTING
No scale



RECONSTRUCTION
No scale

JOINT SEAL ASSEMBLY (TYPICAL SECTION)
@ HINGE 5 (MR=2.5"), @ HINGE 13 (MR=4")
LOCATION ⑤ BR. NO. 33-0616L, RTE. , PM 32.2

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

DESIGN BY L. Ellis CHECKED C. Lee DETAILS BY M. Yu CHECKED L. Ellis QUANTITIES BY L. Ellis CHECKED C. Lee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS	BRIDGE NO.	REPLACE JOINT SEAL & TREAT BRIDGE DECKS JOINT SEAL ASSEMBLY DETAILS
			Various	
			POST MILE	
			Varies	

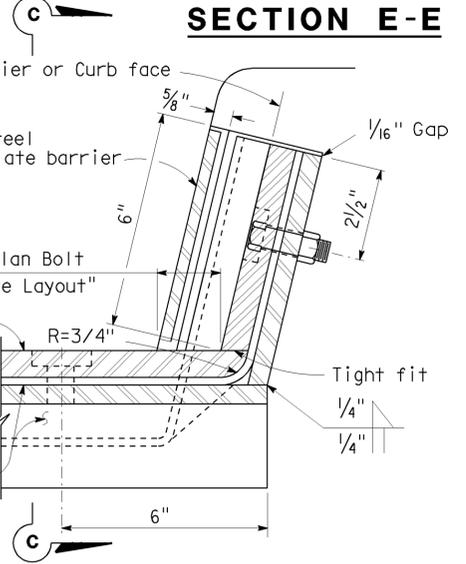
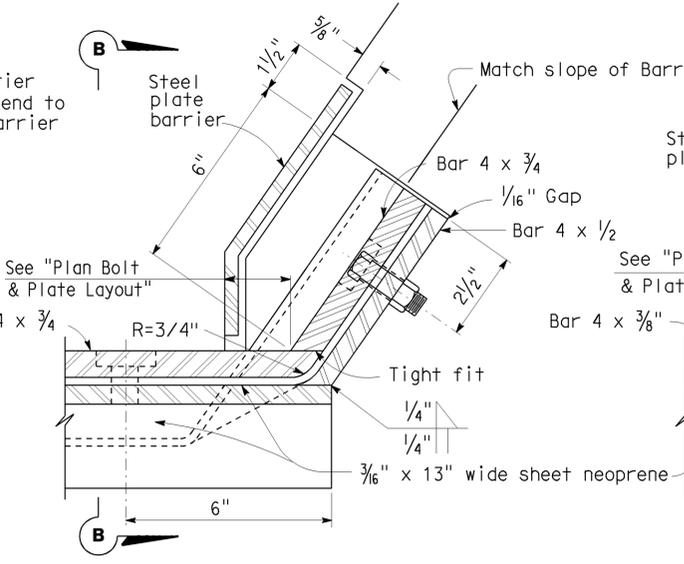
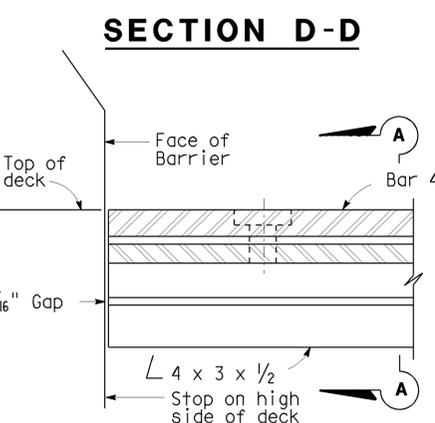
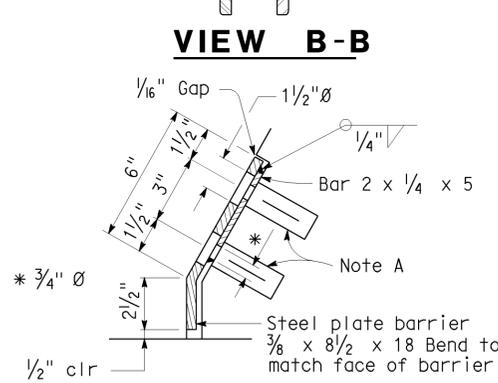
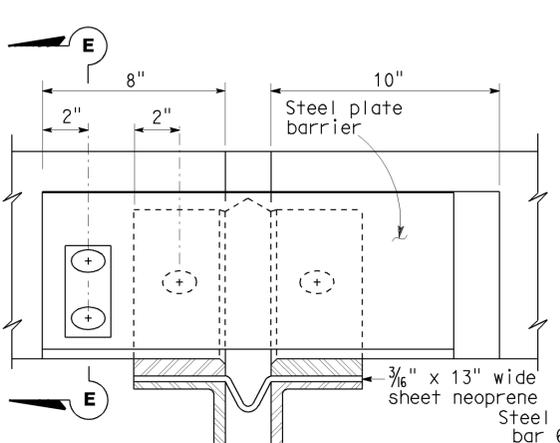
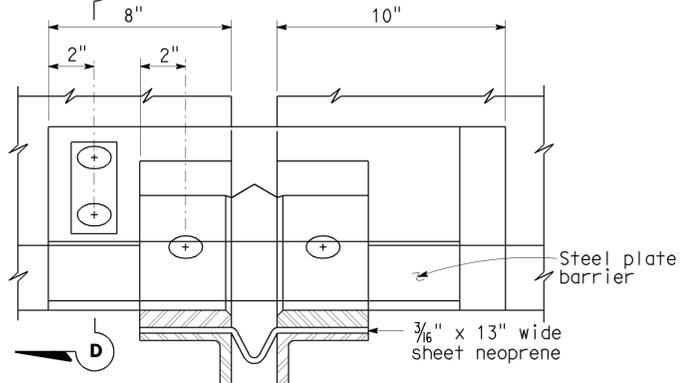
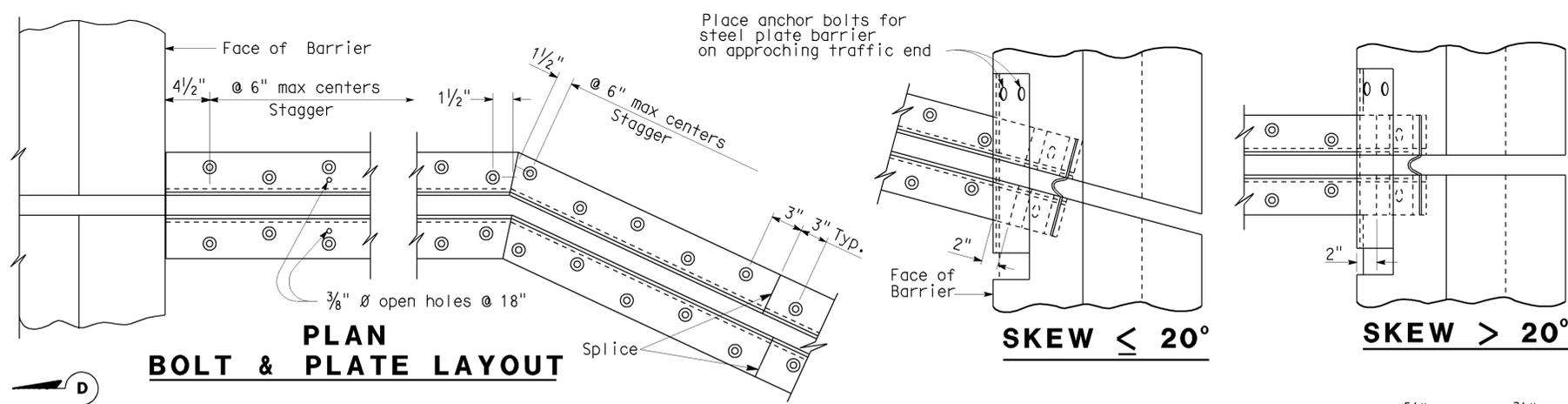
CU 04609	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
EA 1E7501		08-13-10 08-17-10 08-23-10 09-21-10 12-15-10	9	10

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 1/21/98) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 FILE => 04-1E7501jst02.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880,980	Var	20	20

10-04-10
 REGISTERED ENGINEER - CIVIL
 LINA G. ELLIS
 No. C65260
 Exp. 9-30-11
 CIVIL
 STATE OF CALIFORNIA

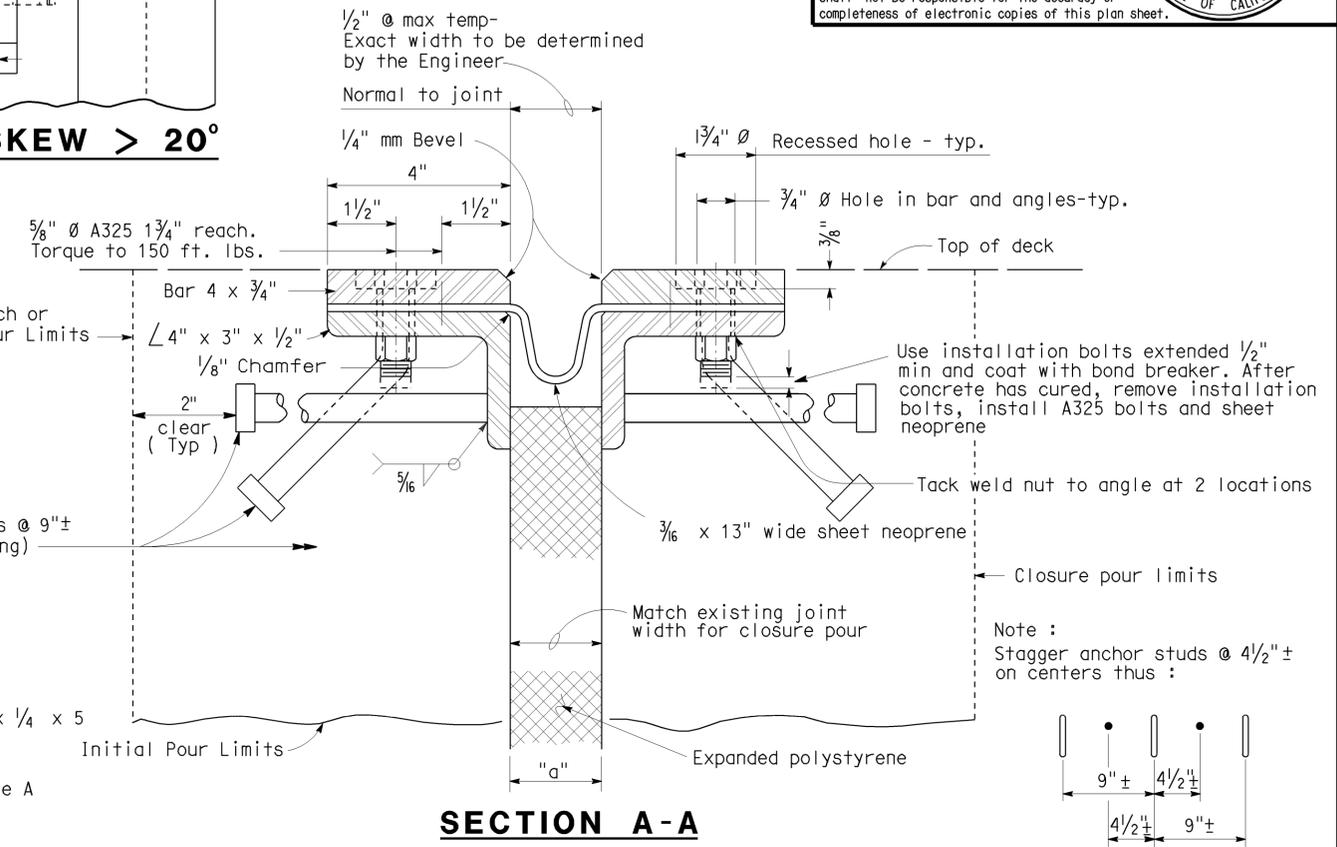
PLANS APPROVAL DATE
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LOW SIDE BARRIER DETAIL
(See Note B)

SIDEWALK DETAIL
(See Note B)

SECTION E-E



Joint Information		"a" Dimensions				
Location	Movement Rating (MR)	Skew	Winter	Spring & Fall	Summer	
⑤	Hinge 5	2 1/2"	0	2 1/2"	1 3/8"	1 1/4"
	Hinge 13	4"	0	4"	3"	2"

NOTES:

Full penetration butt welds may be substituted for fillet welds on all anchor studs. Alternate types of anchor studs may be permitted subject to the approval by the Engineer.

Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerances specified.

Use joint at crown of roadway, at any change in traverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication.

Sheet neoprene shall be fabricated in one continuous piece or joints shall be vulcanized. Neoprene shall be fabricated to bend around corners. 1" holes in neoprene sheets shall be drilled or punched so that the neoprene is not distorted at the time of installation.

NOTE A
Insert assembly or expansion anchorage for 5/8" x 1 3/4" A325 bolt.

NOTE B
Use the Sidewalk Detail at all sidewalk joints. Use the Barrier Detail at both sides if the roadway is crowned or if the difference in elevation between the ends of the seal is 0.5' or less.

STANDARD DRAWING			
RELEASE DATE 1/08/07	DESIGN BY H. HERR	CHECKED T. DELIS	RELEASED BY Roberto Truells
FILE NO. xs8-010e	DETAILS BY R. YEE	CHECKED T. DELIS	
	SUBMITTED BY C.W. PURKISS	DRAWING DATE 9/93	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.
Various

POST MILE
Various

REPLACE JOINT SEAL & TREAT BRIDGE DECKS
JOINT SEAL ASSEMBLY
(MAXIMUM MOVEMENT RATING = 4")

CU 04609	EA 1E7501	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 10 OF 10
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