

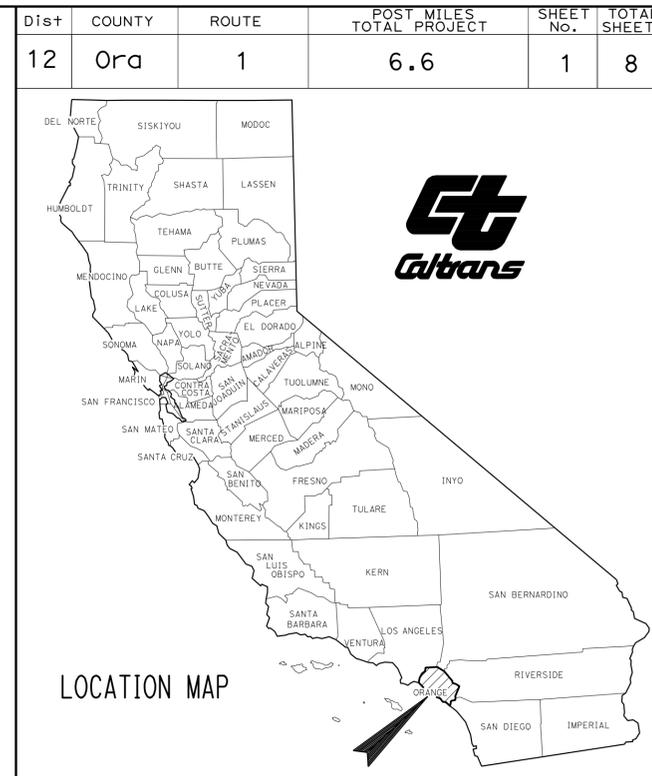
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3-5	REVISED STANDARD PLANS
STRUCTURE PLANS	
6-8	ALISO POC Br No. 55-0027

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

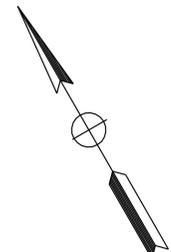
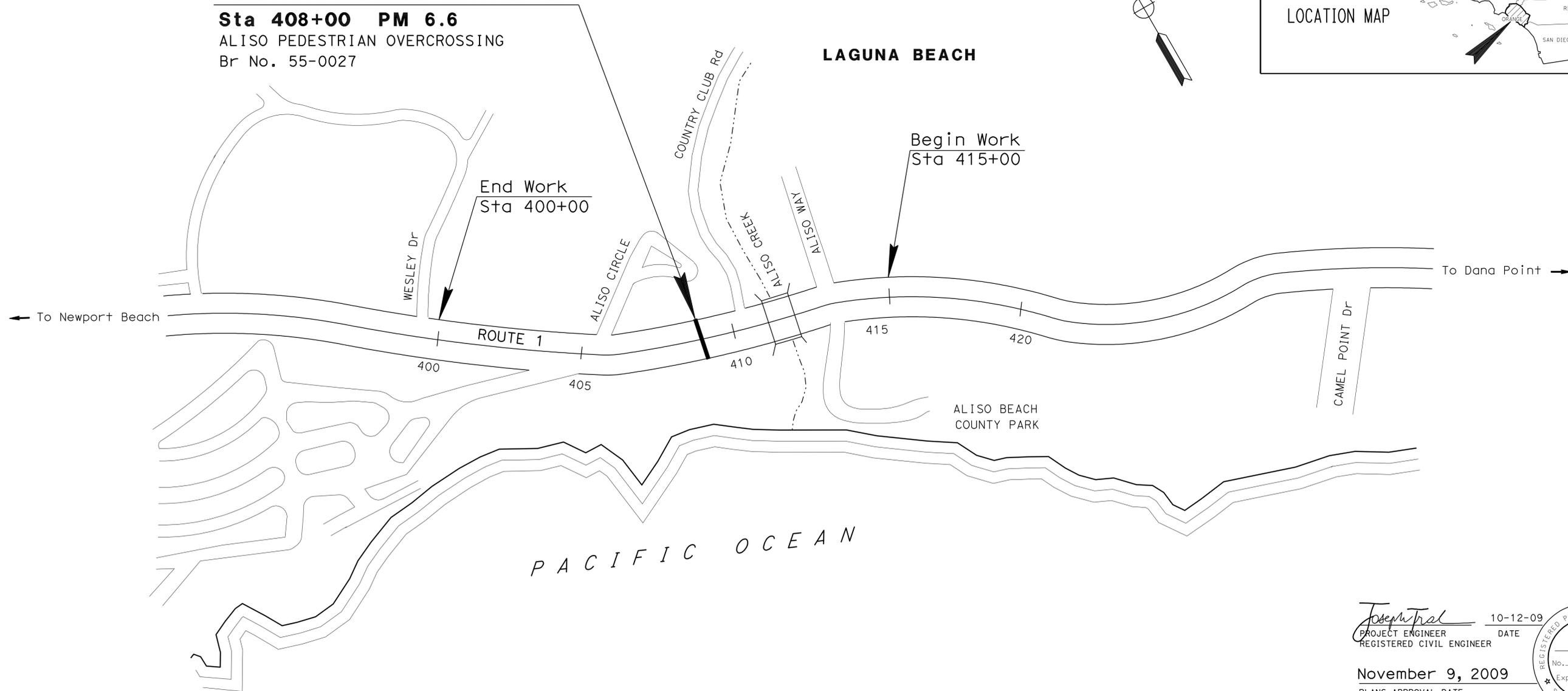
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ORANGE COUNTY
IN LAGUNA BEACH
AT ALISO PEDESTRIAN OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATION OF CONSTRUCTION

Sta 408+00 PM 6.6
 ALISO PEDESTRIAN OVERCROSSING
 Br No. 55-0027



PROJECT MANAGER
MASSOUD TAJIK
 DESIGN ENGINEER
JOSEPH TRAN

10-12-09
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER



November 9, 2009
 PLANS APPROVAL DATE

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

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

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE
 FUNCTIONAL SUPERVISOR MASSOUD TAJIK
 CALCULATED-DESIGNED BY CHECKED BY
 KHALEDA AKANS AHMED ABBAS
 REVISED BY DATE REVISED
 5/4/09
 x

NOTE:

1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

LEGEND:

- (X) CONSTRUCTION AREA SIGN
- CONSTRUCTION AREA
- † CONSTRUCTION AREA SIGN, 2-POST
- PCMS-X PORTABLE CHANGEABLE MESSAGE SIGN

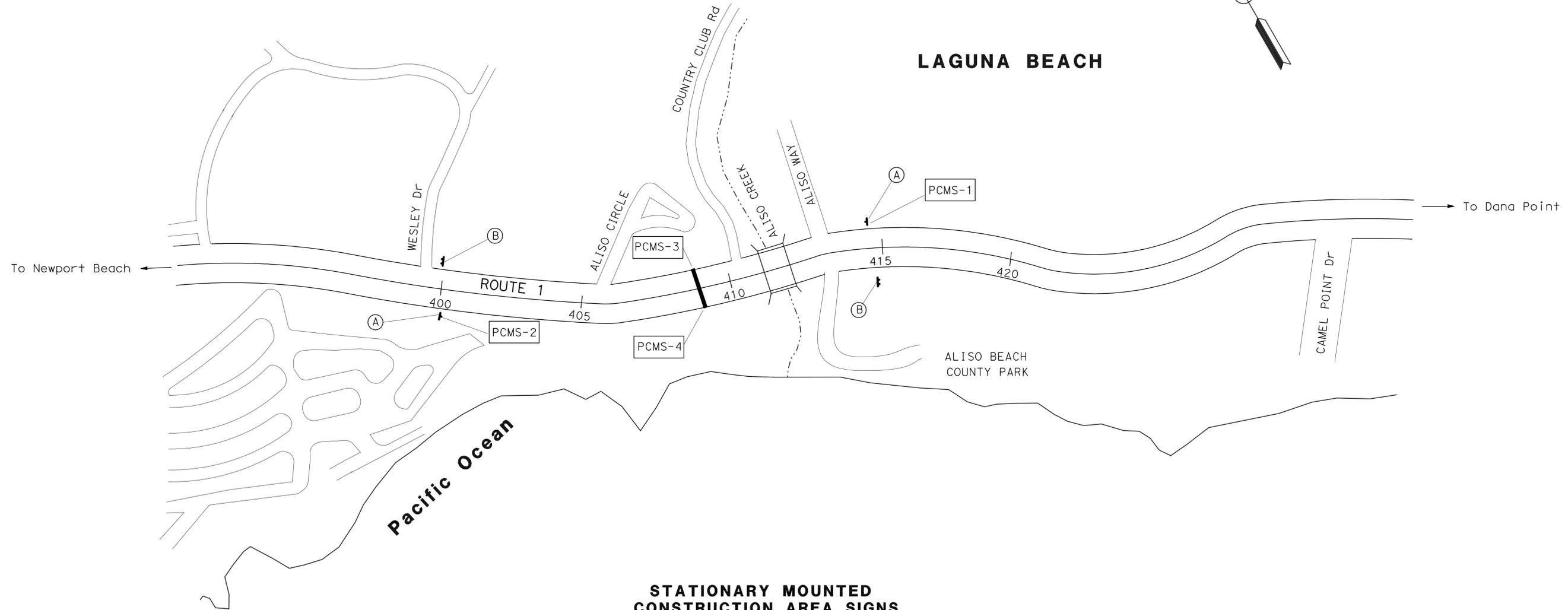
PORTABLE CHANGEABLE MESSAGE SIGN

PCMS No.	FRAME	SIGN MESSAGE
PCMS-1	1st FRAME	OVERHEAD WORK AHEAD
PCMS-2	1st FRAME	OVERHEAD WORK AHEAD
PCMS-3 & PCMS-4	1st FRAME	PED OC CLOSED FOR CONSTRUCTION
	2nd FRAME	FROM " _ " TO " _ "

EXACT SIGN MESSAGES TO BE DETERMINED BY THE ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1	6.6	2	8

Joseph Tran 10-12-09
 REGISTERED CIVIL ENGINEER DATE
 11-9-09
 PLANS APPROVAL DATE
 No. C 59283
 Exp. 6.30.11
 CIVIL
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	TYPE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGN (EA)
(A)	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	2
(B)	G20-2	60" x 24"	END ROAD WORK	2 - 4" x 4"	2

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	1	6.6	3	8

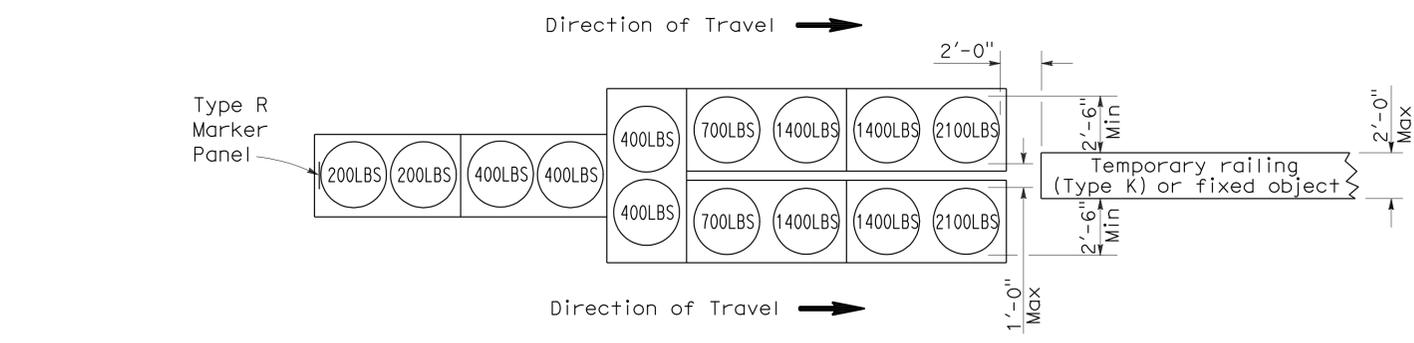
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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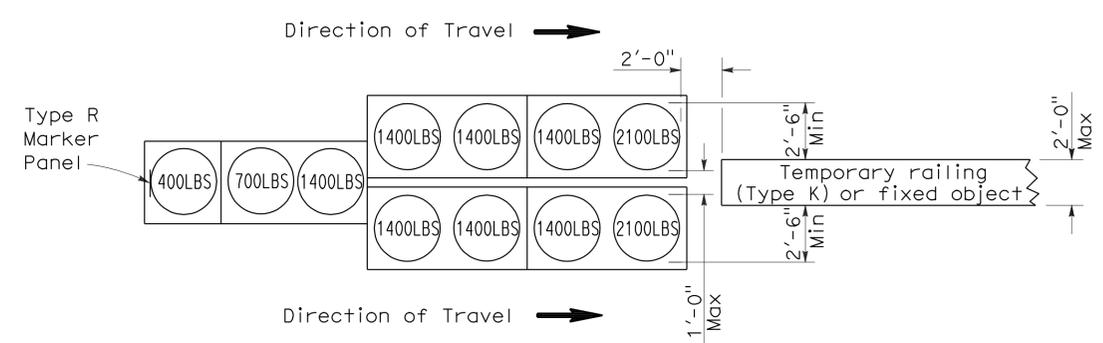
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 11-9-09



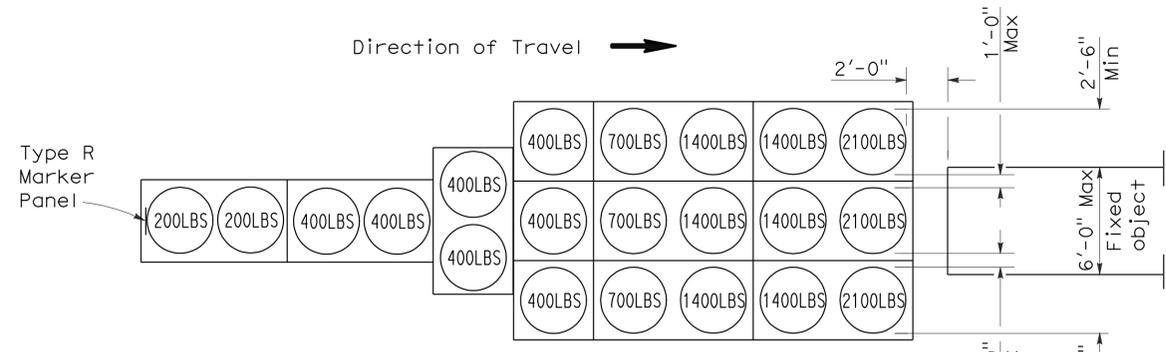
ARRAY 'TU14'

Approach speed 45 mph or more



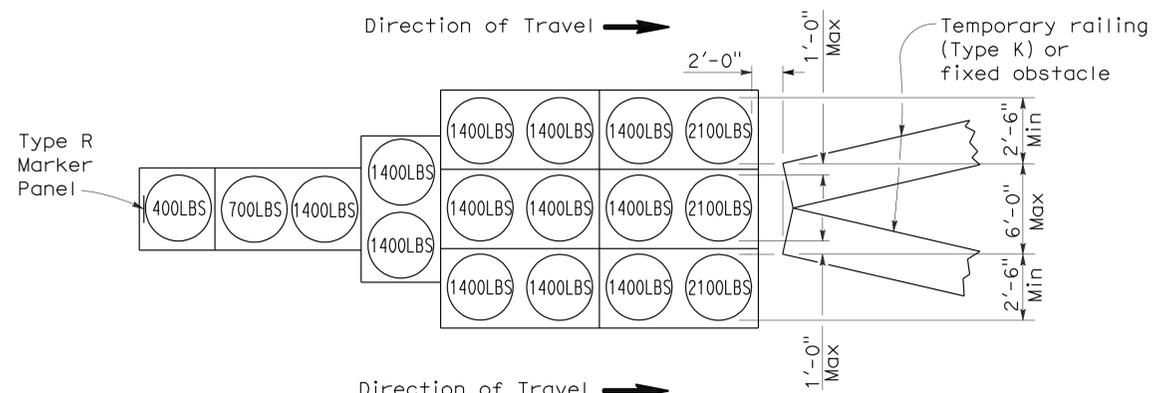
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more

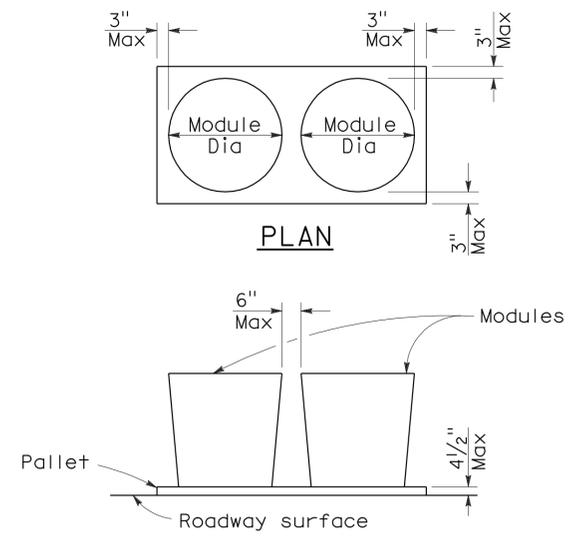


ARRAY 'TU17'

Approach speed less than 45 mph

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.



CRASH CUSHION PALLET DETAIL

See Note 7

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
12	Ora	1	6.6	4	8

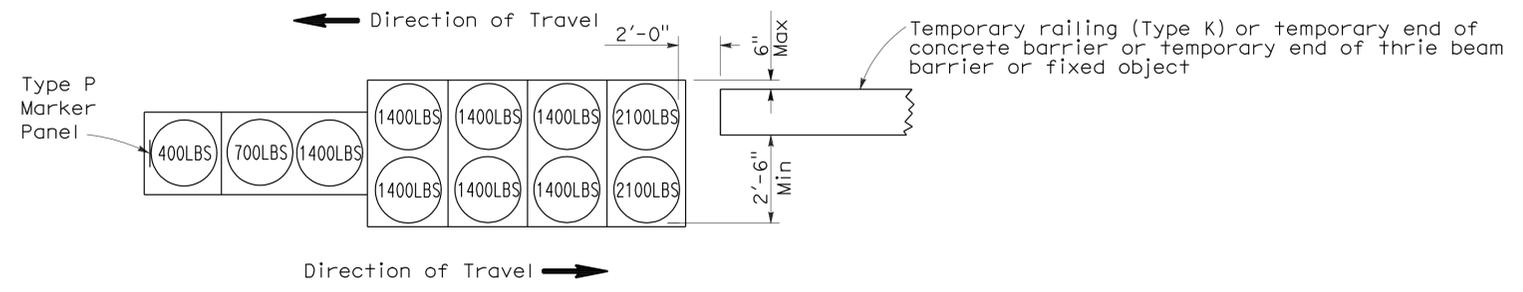
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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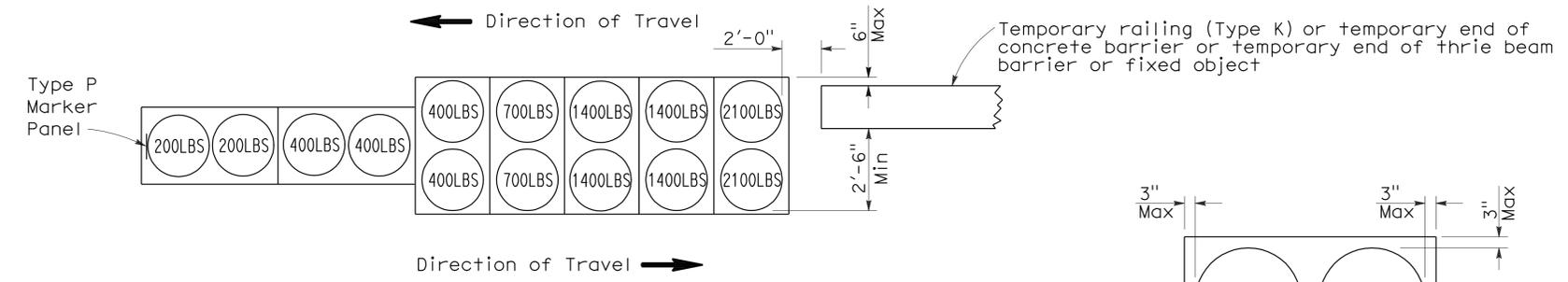
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 11-9-09



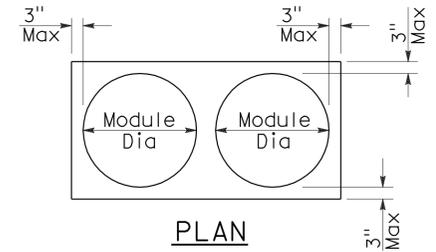
ARRAY 'TB11'

Approach speed less than 45 mph

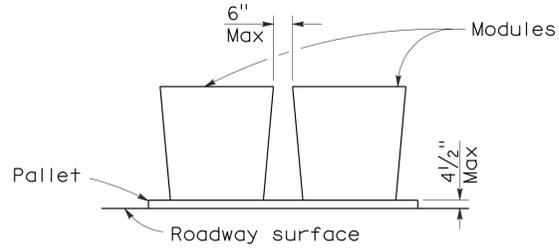


ARRAY 'TB14'

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
12	Ora	1	6.6	5	8

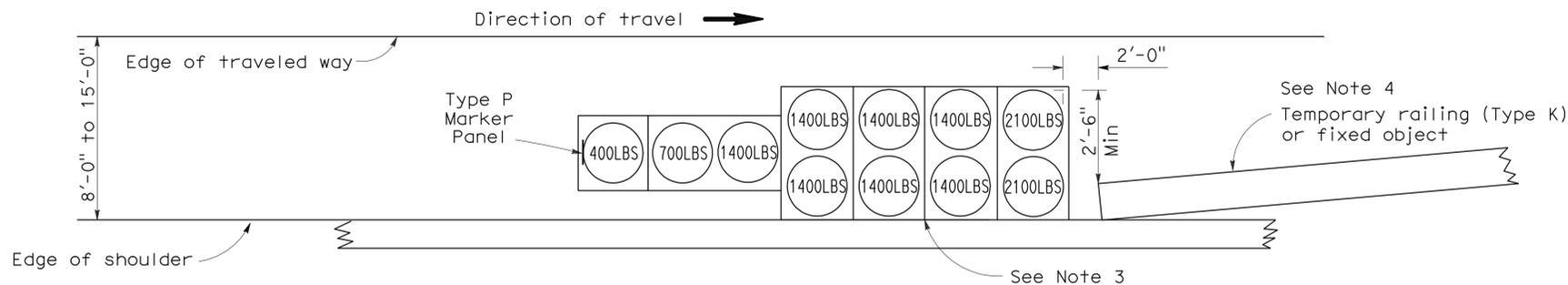
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

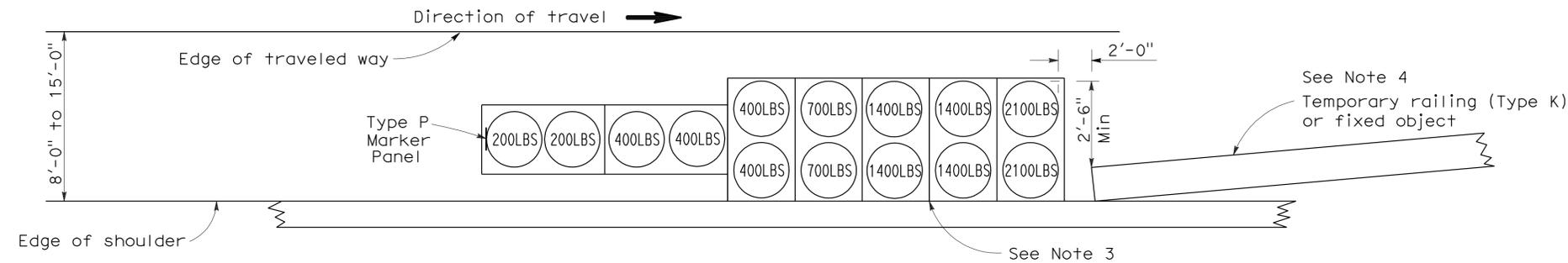
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 11-9-09



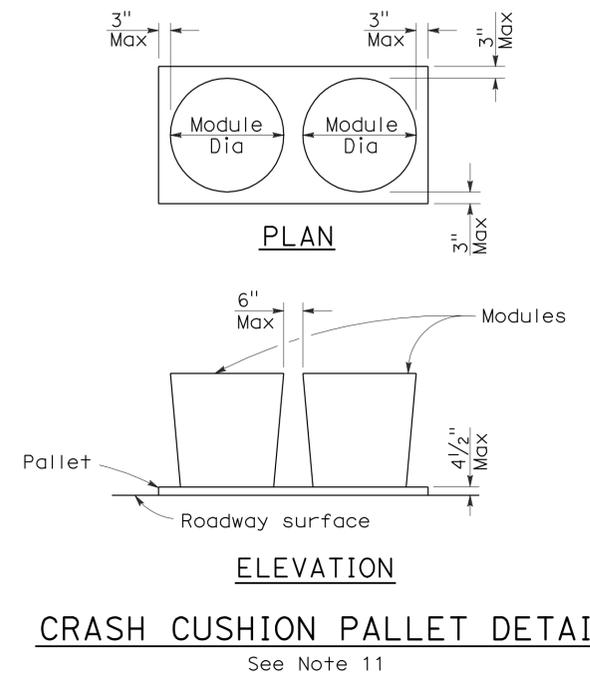
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

LEGEND:

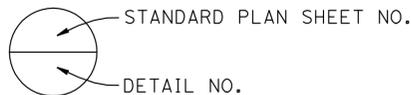
- Indicates existing.
- ← Indicates direction of traffic

NOTE:

1. 100 percent blast clean, apply undercoats and finish coats on all surfaces of steel members.

STANDARD PLANS DATED MAY 2006

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)



INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	ELEVATION
3	SPLICE PLATE DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	1	6.6	6	8

09/25/09
REGISTERED CIVIL ENGINEER DATE

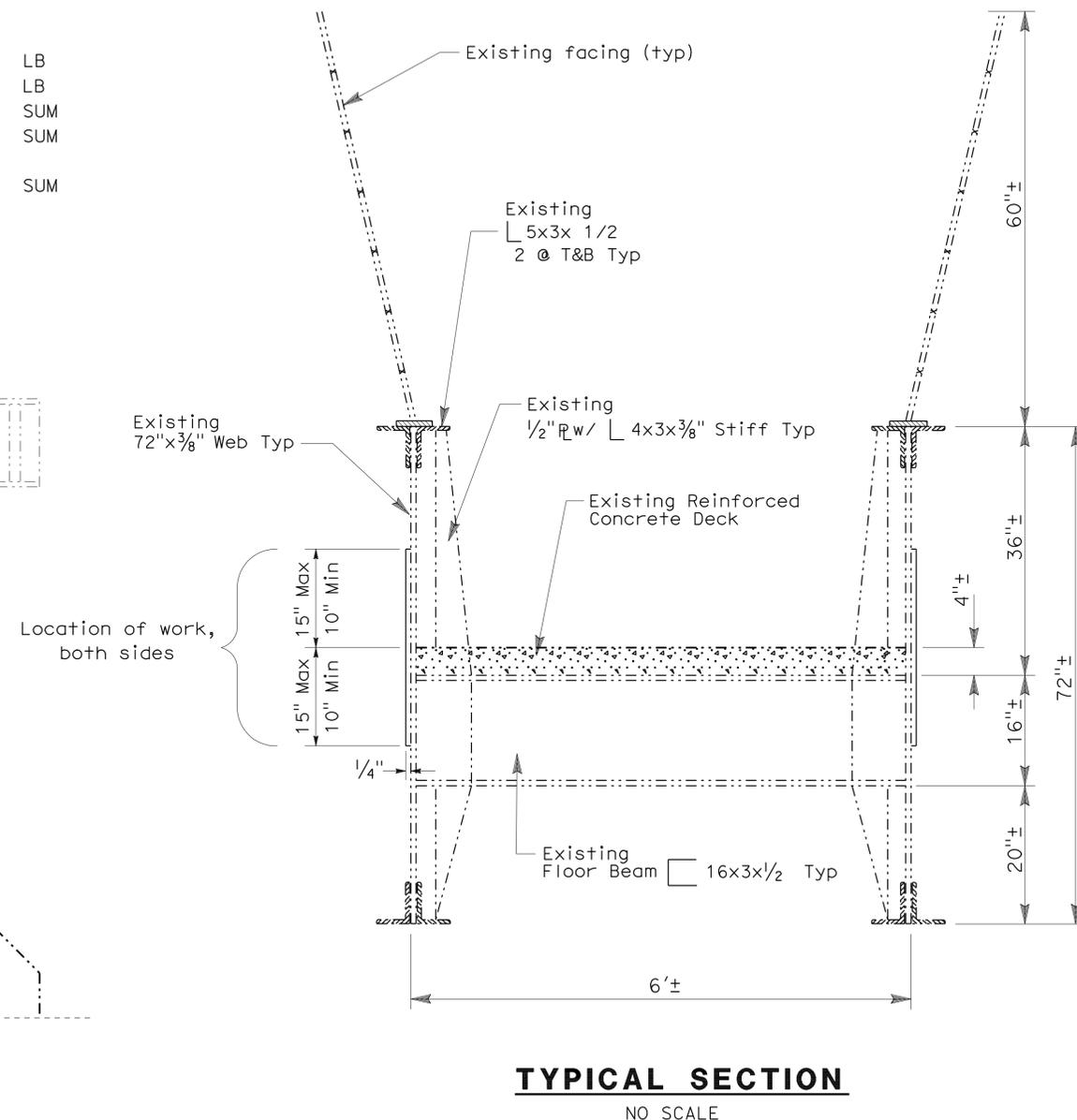
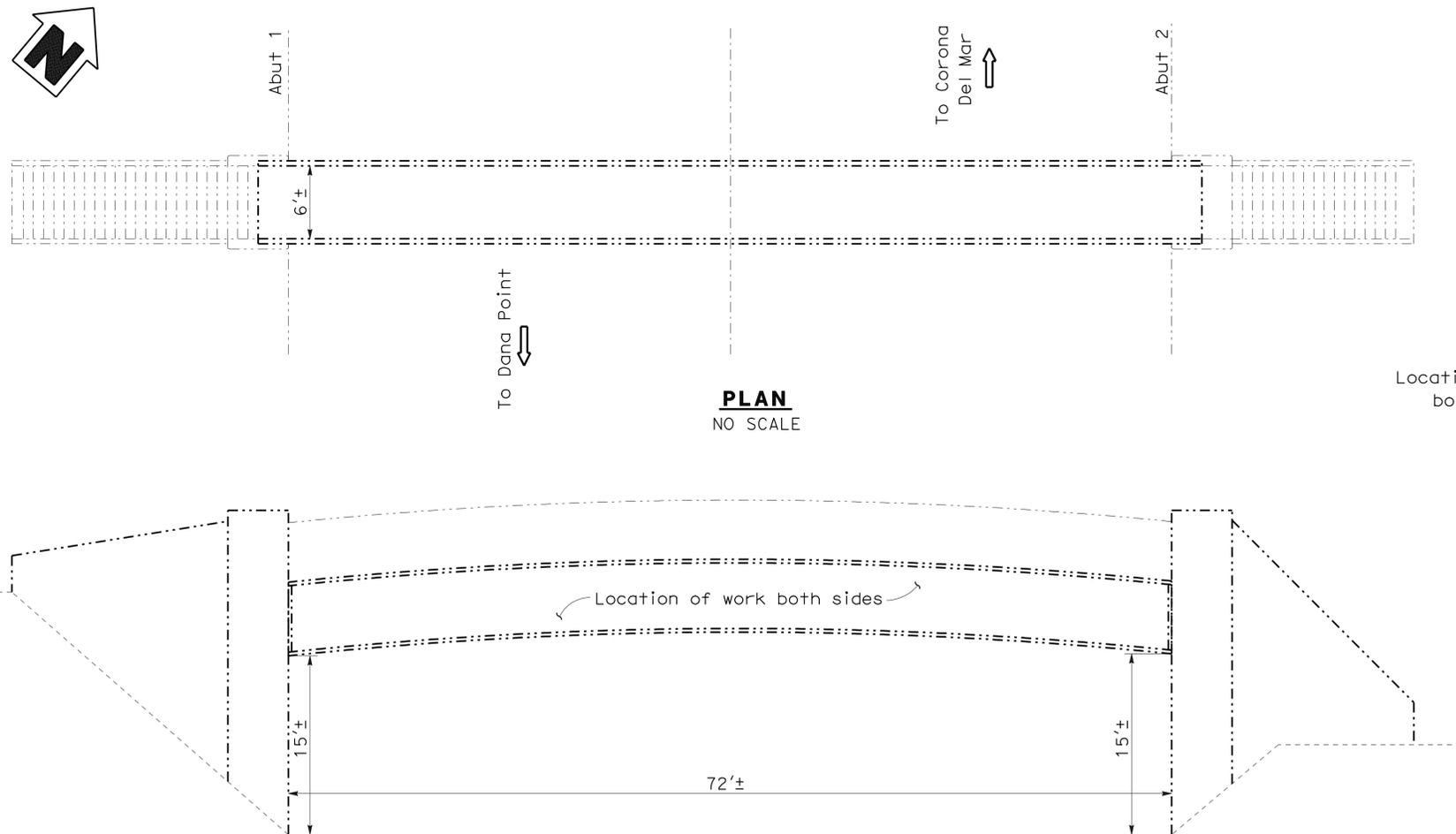
11-9-09
PLANS APPROVAL DATE

No. C69896
Exp. 09/30/10
CIVIL
STATE OF CALIFORNIA

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ALISO POC #55-0027
QUANTITIES

FURNISH STRUCTURAL STEEL (BRIDGE)	2,785	LB
ERECT STRUCTURAL STEEL (BRIDGE)	2,785	LB
CLEAN AND PAINT STRUCTURAL STEEL	LUMP	SUM
CLEAN AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP	SUM
WORK AREA MONITORING	LUMP	SUM



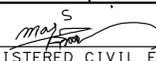
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

<p>TONY D. BRAKE DESIGN ENGINEER</p>	DESIGN	By Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: AND HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	<p>STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION</p>	<p>DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN</p>	BRIDGE NO.	55-0027	<p>ALISO POC GENERAL PLAN</p>							
	DETAILS	By Clayton Tom	CHECKED Ramesh Patel	LAYOUT	By Clayton Tom			CHECKED Ramesh Patel	POST MILE		6.56						
	QUANTITIES	By Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	By Kevin Ellingson			PLANS AND SPECS COMPARED Kevin Ellingson	REVISION DATES		<table border="1"> <tr> <td>3-04-09</td> <td>3-17-09</td> <td>3-23-09</td> <td>4-08-09</td> <td>7-14-09</td> <td>8-08-09</td> <td>9-03-09</td> <td>9-18-09</td> <td>9-22-09</td> <td>9-25-09</td> </tr> </table>	3-04-09	3-17-09	3-23-09	4-08-09	7-14-09	8-08-09
3-04-09	3-17-09	3-23-09	4-08-09	7-14-09	8-08-09	9-03-09	9-18-09	9-22-09	9-25-09								

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 12 EA OK2501 DISREGARD PRINTS BEARING EARLIER REVISION DATES

USERNAME => fhmikes DATE PLOTTED => 16-NOV-2009 TIME PLOTTED => 11:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	1	6.6	7	8

		09/25/09
REGISTERED CIVIL ENGINEER		DATE
11-9-09		PLANS APPROVAL DATE
No. C69896		Exp. 09/30/10
CIVIL		STATE OF CALIFORNIA

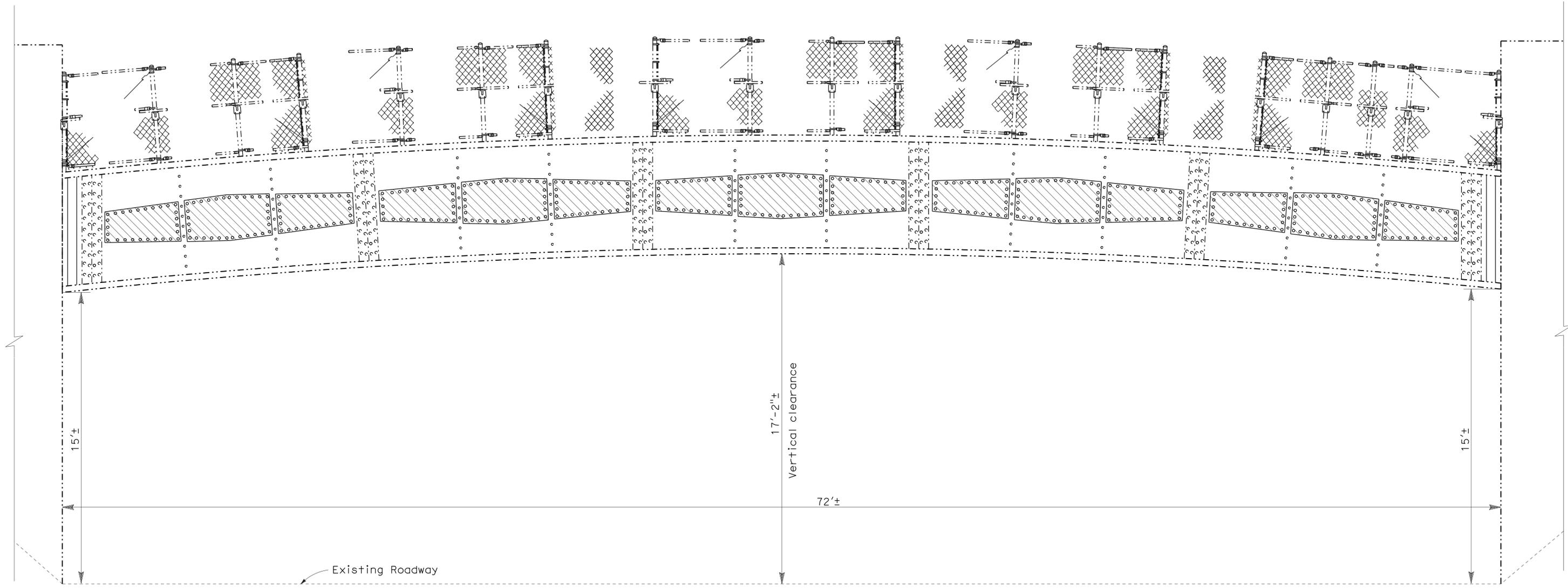
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:



Indicates the new web splice plates to be bolted to the bridge webs on both east and west sides.

For details not shown see "DETAILS No. 2 SHEET"



EAST AND WEST ELEVATION

No Scale

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

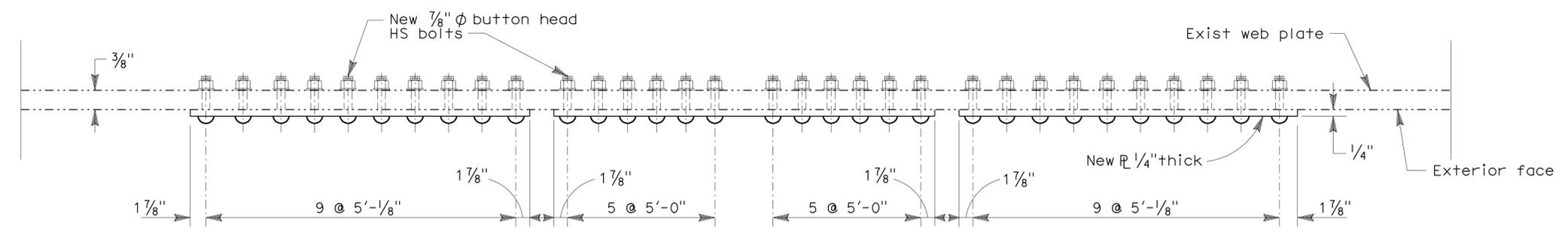
TONY D. BRAKE DESIGN ENGINEER	DESIGN	By Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	55-0027	ALISO POC ELEVATION	
	DETAILS	By Clayton Tom	CHECKED Ramesh Patel	LAYOUT	By Clayton Tom			CHECKED Ramesh Patel	POST MILE		6.56
	QUANTITIES	By Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	By Kevin Ellingson			PLANS AND SPECS COMPARED Kevin Ellingson	REVISION DATES 3-04-09 3-17-09 5-23-09 4-08-09 7-14-09 8-08-09 8-18-09 9-22-09 9-25-09		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 12 EA OK2501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF 2 3		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
12	Ora	1	6.6	8	8

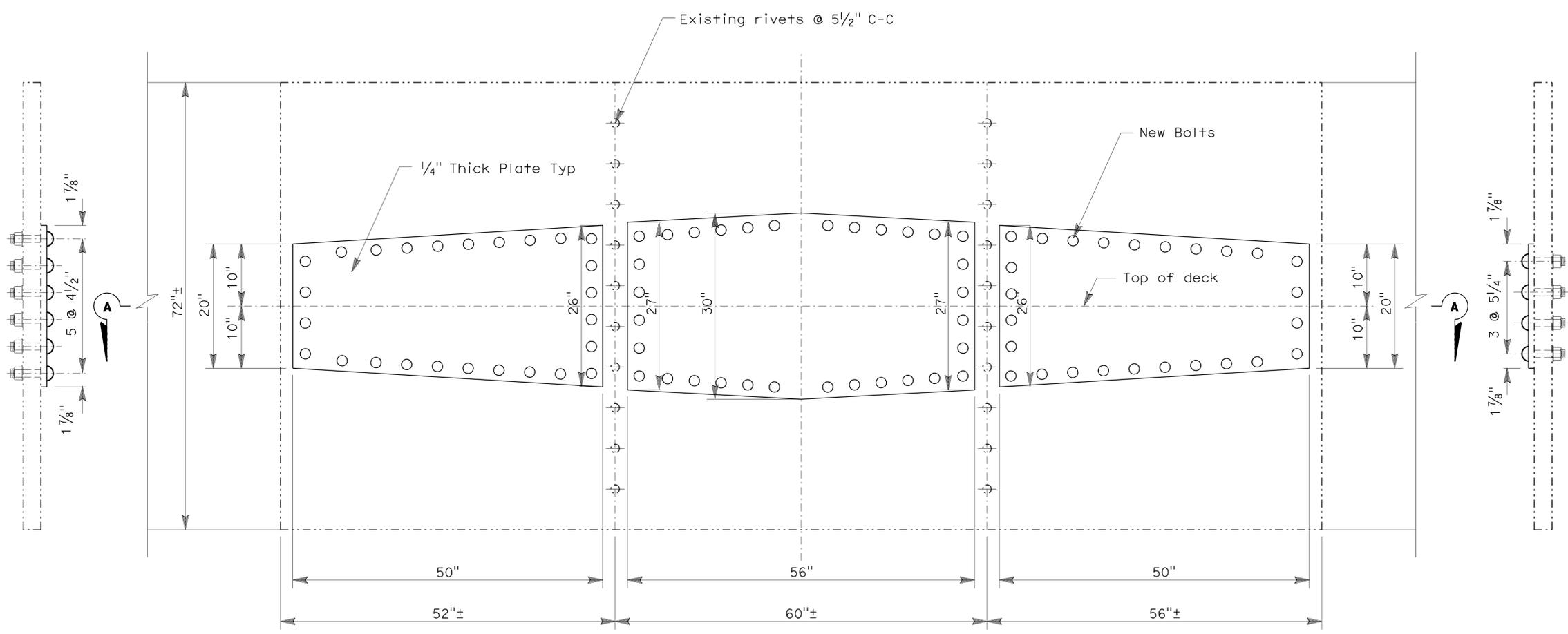
09/25/09
 REGISTERED CIVIL ENGINEER DATE
 11-9-09
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM
 No. C69896
 Exp. 09/30/10
 CIVIL
 STATE OF CALIFORNIA

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SECTION A-A



ELEVATION-WEB SPLICE PLATE

No Scale

- GENERAL NOTES**
LOAD FACTOR DESIGN
- DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO With Interims and Revisions by CALTRANS)
- DEAD LOAD: Includes 35 psf for future wearing surface.
- LIVE LOADING: 85 psf Pedestrian
- REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f'_c = 3,600$ psi
 $n = 9$
- STRUCTURAL STEEL: $f_y =$ ASTM A709 Grade 36

- NOTES:**
1. Install new web splice plates. All plates will be ASTM A709 Grade 36 steel.
 2. Bolts will be $7/8"$ ϕ A325 TC button head with hex nut and washer. Threads will be excluded from plate shear plane. Connection is bearing Type.
 3. Clean existing painted surface prior to installing splice plates.
 4. Center web splice plates on the existing top of deck.

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	By Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	55-0027	ALISO POC SPLICE PLATE DETAILS								
	DETAILS	By Clayton Tom	CHECKED Ramesh Patel	LAYOUT	By Clayton Tom			CHECKED Ramesh Patel	POST MILE		6.56							
	QUANTITIES	By Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	By Kevin Ellingson			PLANS AND SPECS COMPARED Kevin Ellingson	REVISION DATES		<table border="1" style="font-size: x-small;"> <tr> <td>3-04-09</td> <td>3-18-09</td> <td>3-23-09</td> <td>4-08-09</td> <td>7-14-09</td> <td>8-08-09</td> <td>8-18-09</td> <td>9-22-09</td> <td>9-25-09</td> </tr> </table>	3-04-09	3-18-09	3-23-09	4-08-09	7-14-09	8-08-09	8-18-09
3-04-09	3-18-09	3-23-09	4-08-09	7-14-09	8-08-09	8-18-09	9-22-09	9-25-09										

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 12 EA OK2501 DISREGARD PRINTS BEARING EARLIER REVISION DATES

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USERNAME => fhmikes DATE PLOTTED => 16-NOV-2009 TIME PLOTTED => 11:48