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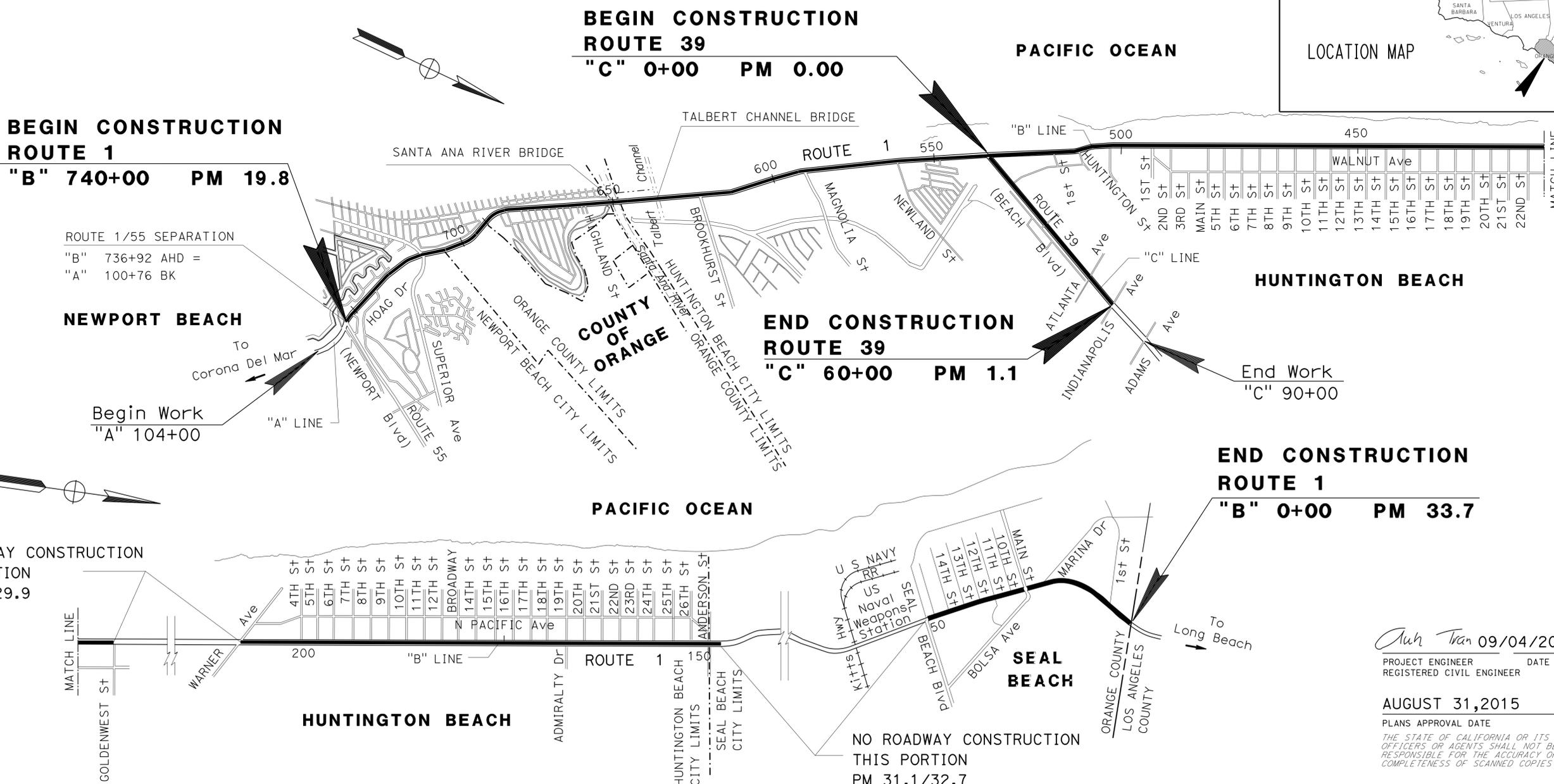
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ORANGE COUNTY
IN NEWPORT BEACH, HUNTINGTON BEACH AND SEAL BEACH
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	1	21

LOCATION MAP



PROJECT MANAGER
MASSOUD TAJIK
 DESIGN MANAGER
ANH TRAN

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

NO SCALE

Anh Tran 09/04/2015
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
AUGUST 31, 2015
 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.

ANH P. TRAN
No. C 56206
Exp. 12-31-16
CIVIL
STATE OF CALIFORNIA

CONTRACT No.	12-0P4704
PROJECT ID	1215000112

DATE PLOTTED => 31-AUG-2015
 TIME PLOTTED => 08:37
 08-25-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE

ANH TRAN 06-01-15

PHAT TRAN ANH TRAN

MASSOUD TAJIK

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY MAPS AT DISTRICT OFFICE.
2. EXACT LOCATIONS OF CONCRETE TO BE REMOVED WILL BE DETERMINED BY THE ENGINEER.
3. FOR DIMENSIONS OF REMOVAL AND PLACEMENT OF CONCRETE SIDEWALK, DRIVEWAY, AND CURB, SEE QUANTITIES SHEETS.
4. EXISTING TRAFFIC SIGNAL POLES, PULL BOXES, VALVE BOXES, STREET LIGHTING BOXES, ELECTRICAL BOXES, PARKING METERS, AND UTILITY MANHOLE SHALL BE PROTECTED IN PLACE.
5. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
6. MATCH EXISTING CURB DIMENSIONS AND FLOW LINE GRADE IN THE FIELD.

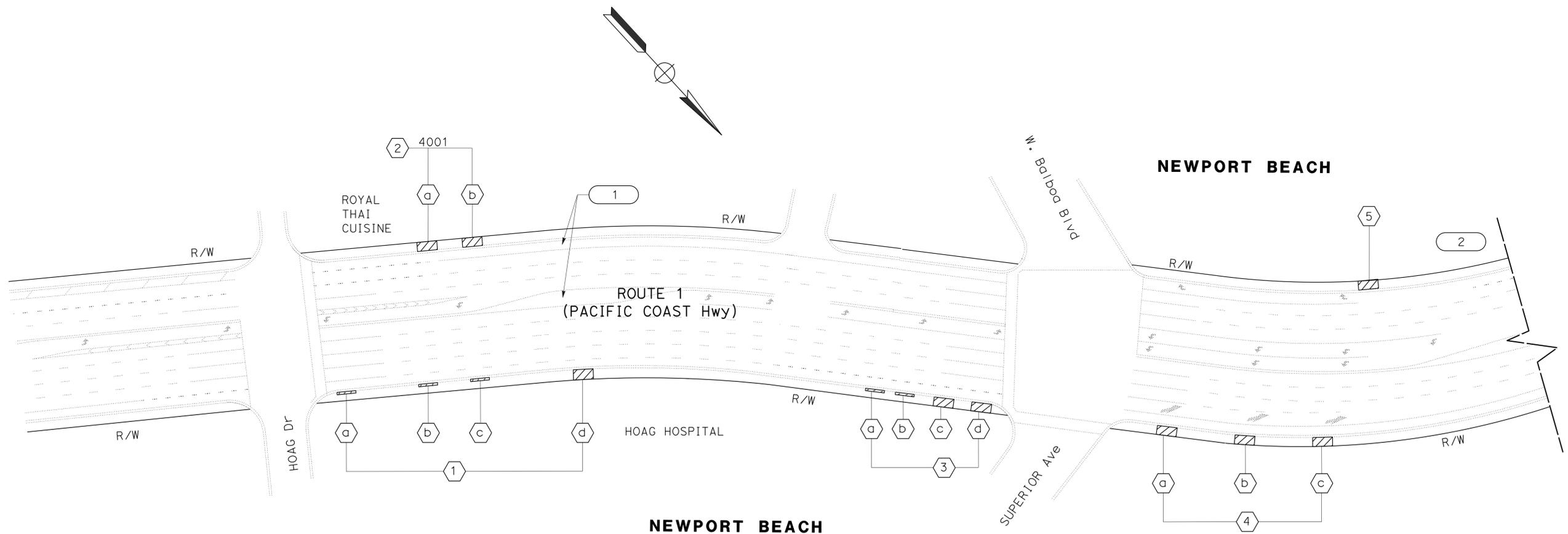
LEGEND:

- REMOVE CONCRETE CURB
- MINOR CONCRETE CURB
- 6" - 10" & Var, REMOVE Conc SIDEWALK OR DRIVEWAY
- 6" - 10" & Var, Conc SIDEWALK OR DRIVEWAY
- LOCATION NUMBER, SEE SUMMARY OF QUANTITIES FOR APPROXIMATE DIMENSIONS
- 1101 ADDRESS ON CITY STREET
- ROADSIDE SIGN NUMBER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	2	21

ANH P. TRAN
 REGISTERED CIVIL ENGINEER No. C56206 Exp. 12-31-16
 09-04-15
 08-31-15
 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.



ROUTE 1 (PACIFIC COAST Hwy)

CONSTRUCTION DETAILS

NO SCALE

C-1

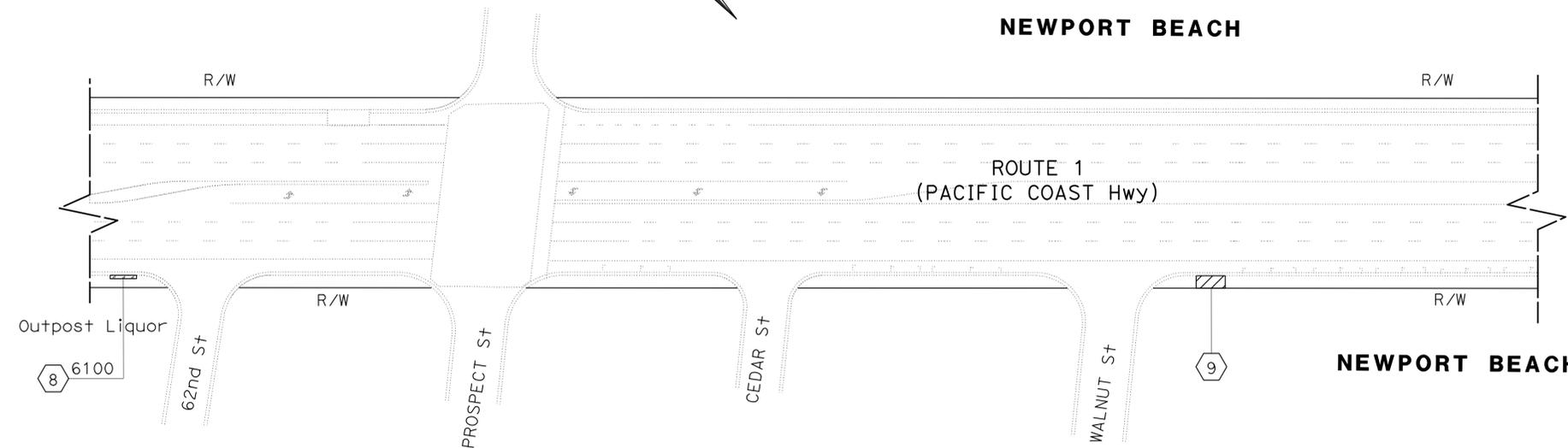
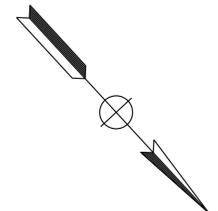
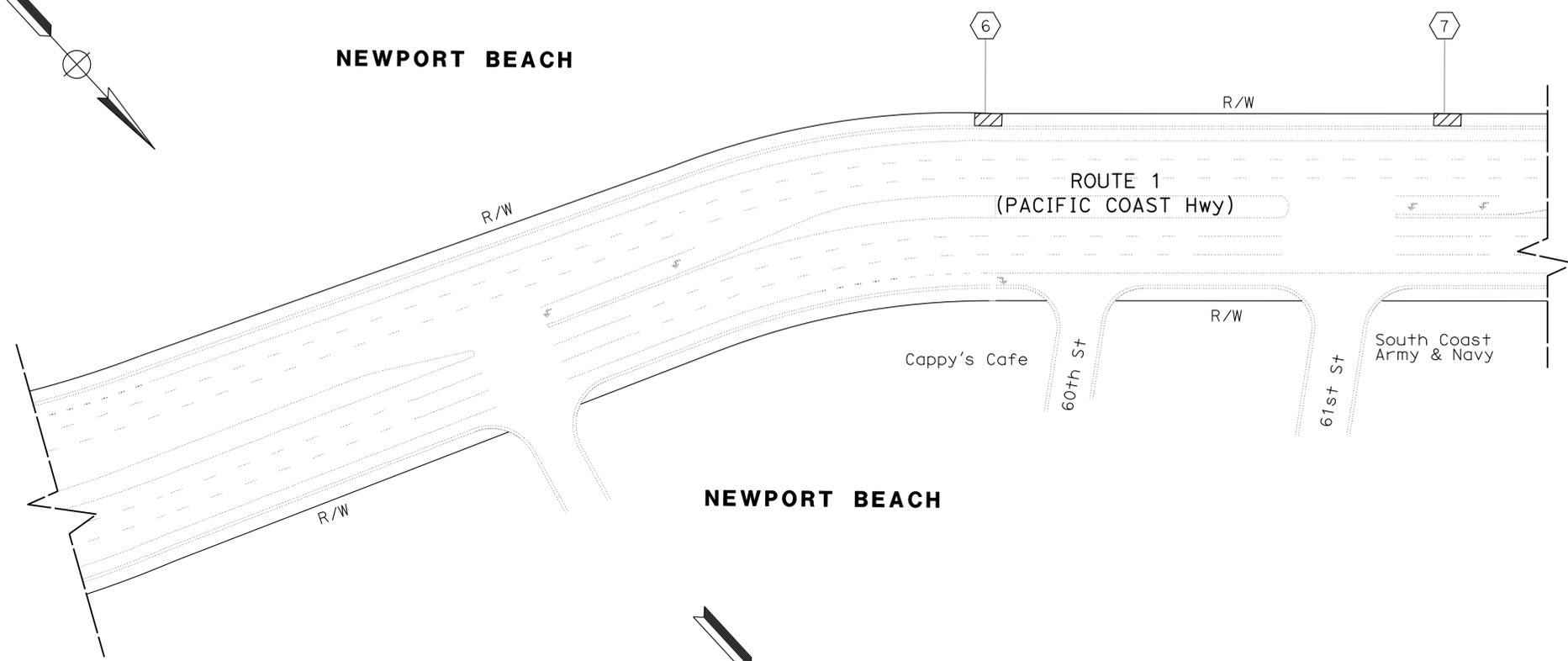
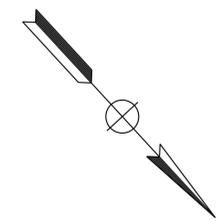
LAST REVISION DATE PLOTTED => 31-AUG-2015 08-25-15 TIME PLOTTED => 08:37

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
Caltrans
 FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
 CALCULATED/DESIGNED BY: [blank] CHECKED BY: [blank]
 PHAT TRAN ANH TRAN
 REVISED BY: ANH TRAN
 DATE: 06-01-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	3	21

Anh Tran 09-04-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE

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CONSTRUCTION DETAILS

NO SCALE

ROUTE 1 (PACIFIC COAST Hwy)



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

ANH TRAN
 06-01-15

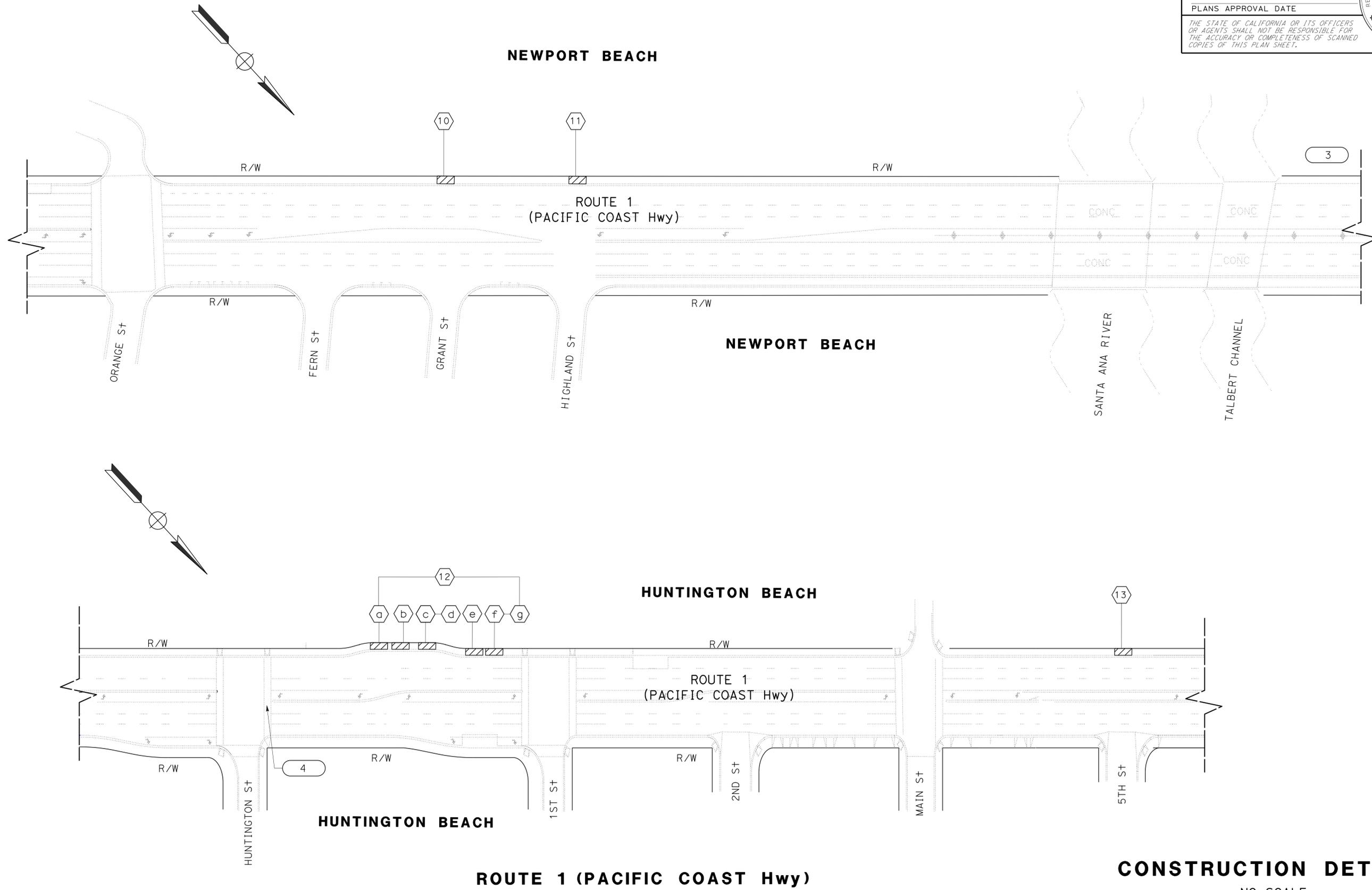
REVISOR BY
 DATE REVISED

ANH TRAN
 PHAT TRAN

CALCULATED-DESIGNED BY
 CHECKED BY

FUNCTIONAL SUPERVISOR
 MASSOUD TAJIK

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	4	21
ANH TRAN		09-04-15		REGISTERED CIVIL ENGINEER DATE	
08-31-15		PLANS APPROVAL DATE			
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ROUTE 1 (PACIFIC COAST Hwy)

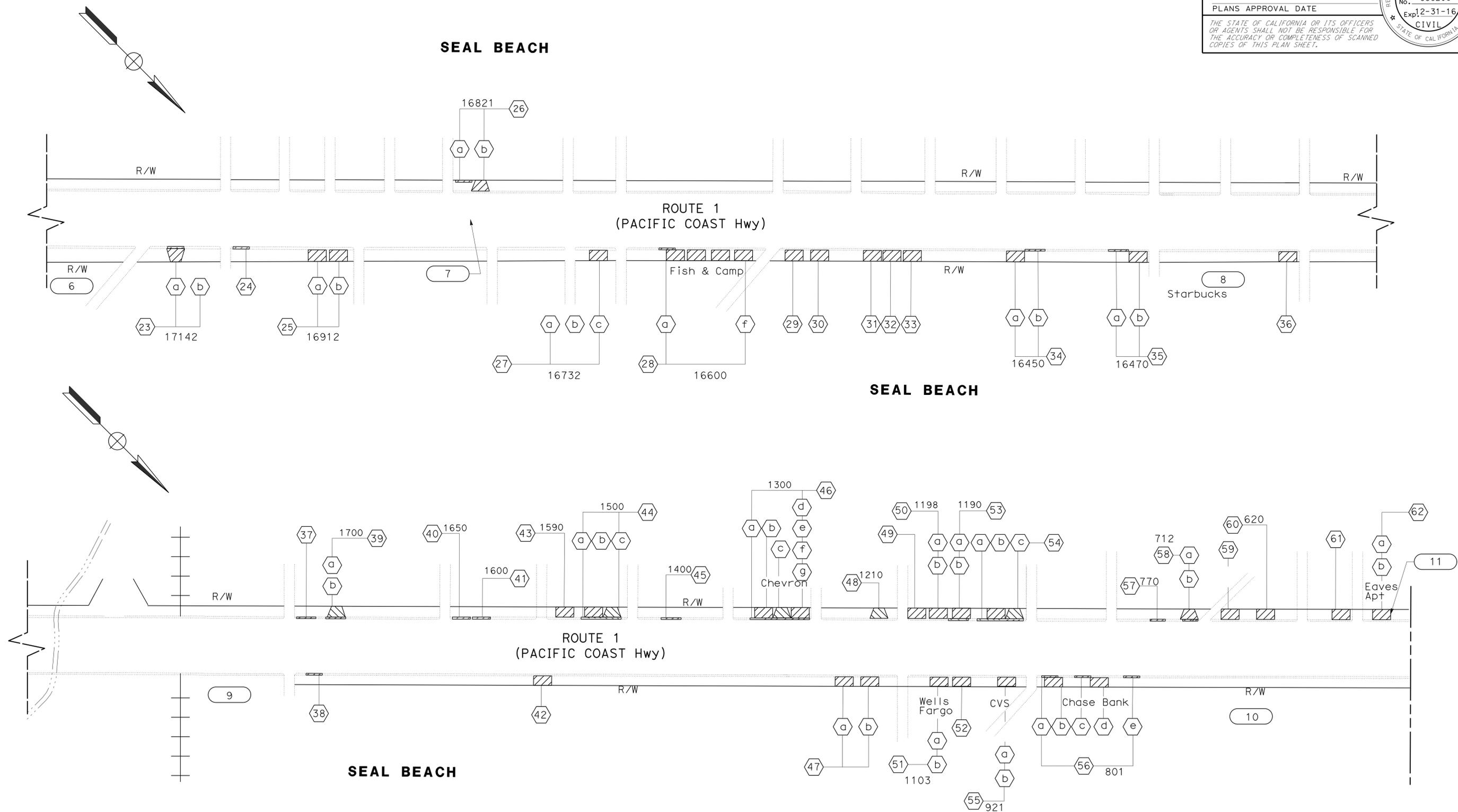
CONSTRUCTION DETAILS

NO SCALE

C-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	6	21
		<i>Anh Tran</i> 09-04-15 REGISTERED CIVIL ENGINEER DATE			
		08-31-15 PLANS APPROVAL DATE			
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 Caltrans®
 FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
 PHAT TRAN, ANH TRAN
 REVISOR: ANH TRAN
 DATE: 06-01-15
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]



ROUTE 1 (PACIFIC COAST Hwy)

CONSTRUCTION DETAILS

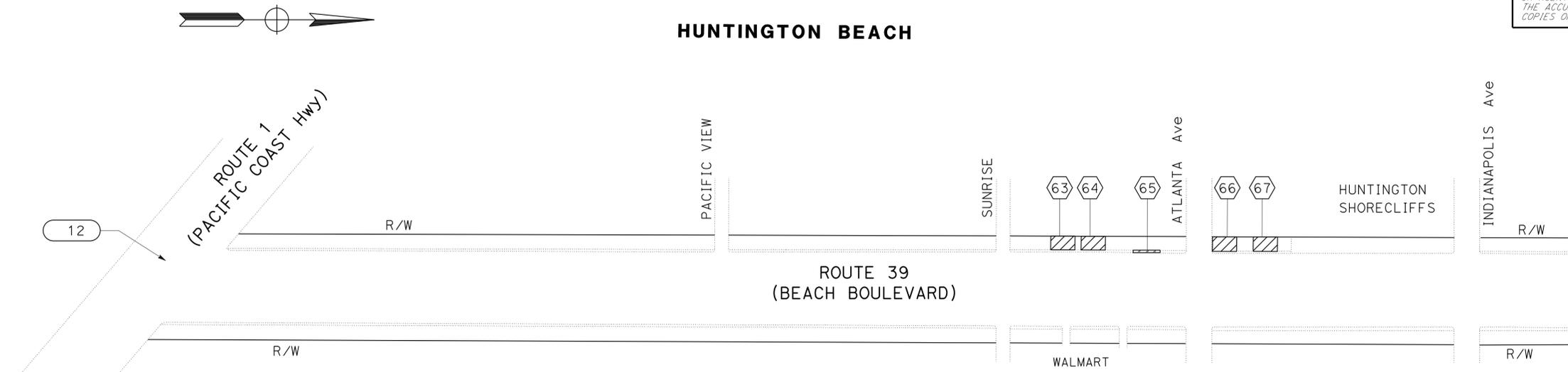
NO SCALE

C-5

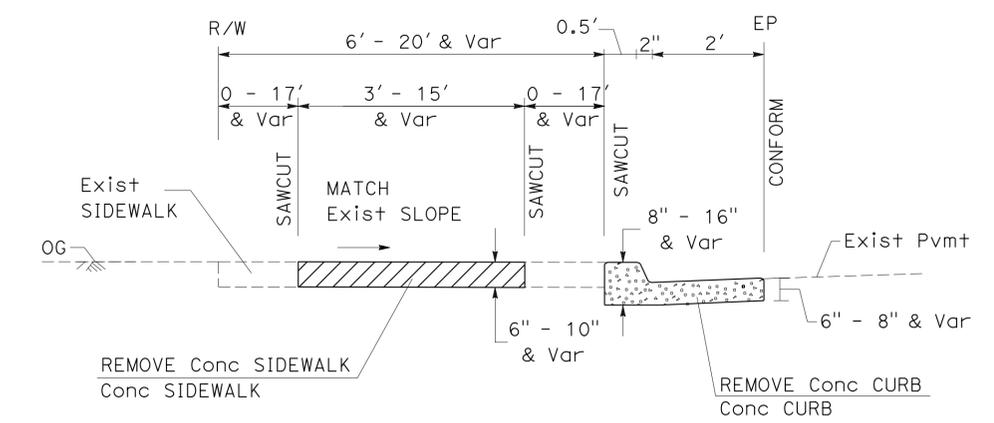
LAST REVISION | DATE PLOTTED => 31-AUG-2015 06-01-15 | TIME PLOTTED => 08:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	7	21
<i>Anh Tran</i> 09-04-15 REGISTERED CIVIL ENGINEER DATE					
08-31-15			PLANS APPROVAL DATE		
<small>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.</small>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans MAINTENANCE	MASSOUD TAJIK	PHAT TRAN	06-01-15
		REVISOR	DATE
		ANH TRAN	06-01-15
		CALCULATED/DESIGNED BY	CHECKED BY

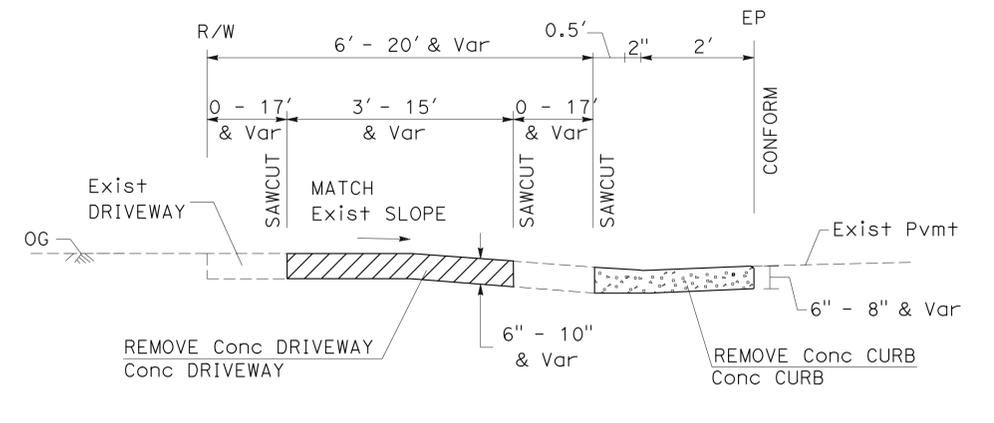


ROUTE 39 (BEACH BOULEVARD)



DETAIL A

TYPICAL DETAIL FOR CURB & GUTTER AND SIDEWALK
(SEE NOTES 2 & 3)



DETAIL B

TYPICAL DETAIL FOR DRIVEWAY
(SEE NOTES 2 & 3)

CONSTRUCTION DETAILS

NO SCALE

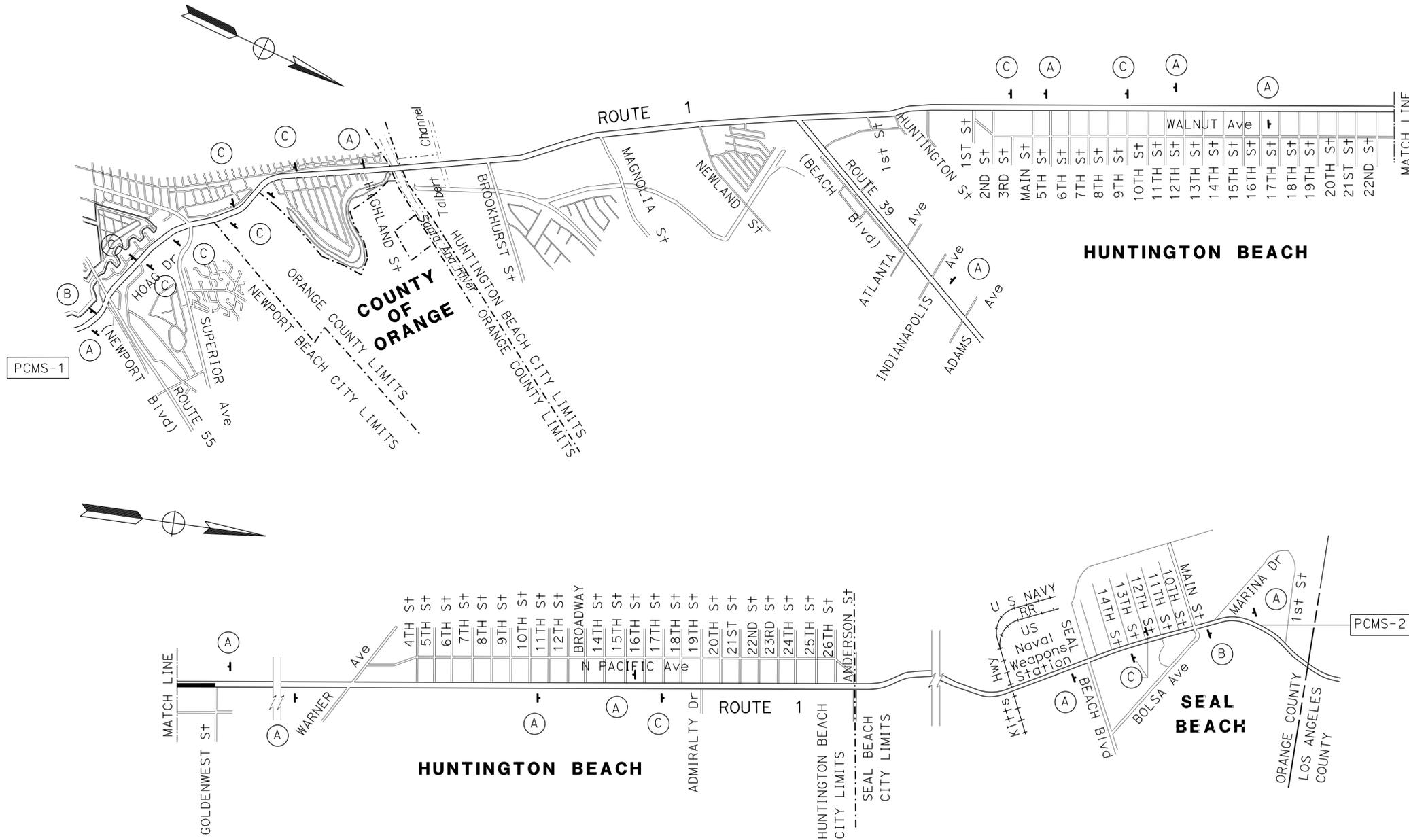
NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS AND PCMS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
2. EXACT MESSAGE TO BE DISPLAYED ON THE PCMS WILL BE DETERMINED BY THE ENGINEER.
3. PORTABLE DELINEATORS SHALL BE PLACED 5' TO 10' SPACING AT EACH SIDEWALK LOCATION.
4. PORTABLE DELINEATORS SHALL BE PLACED 25' SPACING AT CURB LOCATIONS.

LEGEND:

- CONSTRUCTION AREA SIGN
- ┆ CONSTRUCTION AREA SIGN, 1 POST
- ▭ CONSTRUCTION AREA SIGN MOUNTED ON TYPE II BARRICADE
- ▨ CONSTRUCTION AREA
- PORTABLE DELINEATOR
- PCMS-1 PORTABLE CHANGEABLE MESSAGE SIGN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	8	21
ANH Tran		09-04-15		REGISTERED CIVIL ENGINEER DATE	
08-31-15		PLANS APPROVAL DATE		REGISTERED PROFESSIONAL ENGINEER ANH P. TRAN No. C56206 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA	
<small>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.</small>					



CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	10	21

Anh Tran 09-04-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE

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NOTE:

- NEW ROADSIDE SIGN PANELS SHALL REPLACE EXISTING ROADSIDE SIGN PANELS AT THE SAME LOCATIONS.

ABBREVIATIONS:

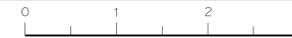
- B - BLACK
- G - GREEN
- R - RED
- W - WHITE
- Y - YELLOW

SHEET No.	SIGN No. 	SIGN CODE	PANEL SIZE		SIGN AREA	REMOVE ROADSIDE SIGN PANEL (N)	REMOVE ROADSIDE SIGN MOUNTED ON MAST-ARM	INSTALL ROADSIDE SIGN ON EXISTING POST	INSTALL SIGN (MAST-ARM HANGER METHOD)	SINGLE FACED	BACKGROUND		LEGEND		GRAFFITI FILM		FURNISH SINGLE SHEET ALUMINUM SIGN		SIGN LOCATION				
			W x D	SQFT							EA	EA	EA	EA	SHEETING COLOR	RETRO-REFLECTIVE	SHEETING COLOR	RETRO-REFLECTIVE		STANDARD	PREMIUM	0.063"	
																						UNFRAMED	FRAMED
																						SQFT	SQFT
C-1	1	W3-3	36 x 36	9.00	2		2		X	Y	IX	R/G/B		X	18.00		SB ROUTE 1 AT NORTH OF BALBOA COVE/HOAG Dr						
	2	W1-2	36 x 36	9.00	1		1		X	Y	III	B		X	9.00		SB ROUTE 1 AT NORTH OF BALBOA Blvd						
C-3	3	R2-1	36 x 48	12.00	1		1		X	W	IX	B		X	12.00		SB ROUTE 1 AT NORTH OF SANTA ANA RIVER (50 mph)						
	4	R73-2	36 x 36	9.00		1	1		X	W	III	B		X	9.00		NB ROUTE 1 AT HUNTINTON St (ON MAST-ARM)						
C-4	5	W11-2	36 x 36	9.00	1		1		X	Y	III	B		X	9.00		NB ROUTE 1 AT SOUTH OF SEAPOINT						
		W3-3	36 x 36	9.00	1		1		X	Y	IX	R/G/B		X	9.00								
C-5	6	R18A (CA)	66 x 48	22.00	2		2		X	W	III	B		X		44.00	NB ROUTE 1 AT SOUTH OF WARNER Ave						
	7	R4-7	36 x 48	12.00	1		1		X	W	III	B		X	12.00		NB ROUTE 1 AT BROADWAY						
	8	R18A (CA)	66 x 48	22.00	2		2		X	W	III	B		X		44.00	NB ROUTE 1 AT SOUTH OF ANDERSON St						
	9	R18A (CA)	66 x 48	22.00	2		2		X	W	III	B		X		44.00	NB ROUTE 1 AT SOUTH OF SEAL BEACH Blvd						
	10	W3-3	36 x 36	9.00	1		1		X	Y	IX	R/G/B		X	9.00		NB ROUTE 1 AT SOUTH OF 1st /HAYNES						
	11	W3-3	36 x 36	9.00	1		1		X	Y	IX	R/G/B		X	9.00		SB ROUTE 1 AT NORTH OF MARINA Dr						
C-6	12	R73-6	36 x 36	9.00		1	1		X	W	III	B		X	9.00		SB ROUTE 1 AT BEACH Blvd (ON MAST-ARM)						
SUBTOTAL						15	2	15	2						105.00	132.00							

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: MASSOUD TAJIK
 CALCULATED/DESIGNED BY: PHAT TRAN
 CHECKED BY: ANH TRAN
 REVISED BY: ANH TRAN
 DATE REVISED: 06-01-15

SIGN QUANTITIES

SQ-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1,39	19.8/33.7 0.0/1.1	11	21

Anh Tran 09-04-15
 REGISTERED CIVIL ENGINEER DATE

08-31-15
 PLANS APPROVAL DATE

ANH P. TRAN
 No. C56206
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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ROUTE	LOCATION No.	NEAREST STREET ADDRESS OR STREET NAME	CURB & GUTTER 8" TO 16" DEPTH (N)		DRIVEWAY 6" TO 10" DEPTH (N)		SIDEWALK 6" TO 8" DEPTH (N)		MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)			REMOVE CONCRETE			PAINT CURB (2-COAT) SQFT	DRAINAGE INLET MARKER EA	DESCRIPTION	
			LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	CURB	DRIVEWAY	SIDEWALK	CURB	DRIVEWAY	SIDEWALK				
			FT	FT	FT	FT	FT	FT	CY	CY	CY	CY	CY	CY				
1	①	Between Hoag Dr and Superior Ave	45							3.0				3.0			At Bus Stop	
			10						0.7				0.7				South of Light Pole #5357 (No Stopping Anytime Sign)	
			211								14.1				14.1			Between Light Poles #5362 & #5363
							6	99								11.6		
	②	4001 Pacific Coast Highway					7	30						4.1			South of Light Pole # 5375 (North of Royal Thai Cuisine)	
							6	100							11.7			Next to Light Pole # 5375
	③	SE Corner of Pacific Coast Highway & Superior Ave	20							1.3				1.3				Light Pole #5365
			74							5.0				5.0				
							6	10								1.2		
	④	NE Corner of Pacific Coast Highway & Superior Sunset Ridge Park					13	21							5.3			
						6	22							2.6			South of Light Pole #5388	
						6	62							7.2			South of Bus Stop #4964	
⑤	North of Pacific Coast Highway & Superior Ave/ W Balboa Blvd					6	35							4.1			Bus Stop #4964	
						6	7							0.8			South Light Pole #5378	
⑥	Across 5390 Pacific Coast Highway					12	5							1.2			Across Cappy's Cafe	
⑦	Across 6100 Pacific Coast Highway					12	11							2.6			Across South Coast Army/ Navy Store	
⑧	6100 Pacific Coast Highway	61							4.1				4.1				The Outpost Liquor Driveway	
⑨	NE Corner of Pacific Coast Highway & Walnut St					8	22							3.4			South Driveway to Arco Gas Station	
⑩	Across Grant St					4	36							2.8			Front of Starbucks/ Bus Stop	
SUBTOTAL									28.2		58.6	28.2		58.6				
SHEET TOTAL Q-1									86.8			86.8						

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE

FUNCTIONAL SUPERVISOR
 MASSOUD TAJIK

CALCULATED-DESIGNED BY
 CHECKED BY

PHAT TRAN
 ANH TRAN

REVISED BY
 DATE REVISED

A TRAN
 06-01-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1,39	19.8/33.7 0.0/1.1	12	21

Anh Tran 09-04-15
 REGISTERED CIVIL ENGINEER DATE

08-31-15
 PLANS APPROVAL DATE

ANH P. TRAN
 No. C56206
 Exp. 12-31-16
 CIVIL

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ROUTE	LOCATION No.	NEAREST STREET ADDRESS OR STREET NAME	CURB & GUTTER 8" TO 16" DEPTH (N)		DRIVEWAY 6" TO 10" DEPTH (N)		SIDEWALK 6" TO 8" DEPTH (N)		MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)			REMOVE CONCRETE			PAINT CURB (2-COAT) SQFT	DRAINAGE INLET MARKER EA	DESCRIPTION			
			LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	CURB	DRIVEWAY	SIDEWALK	CURB	DRIVEWAY	SIDEWALK						
			FT	FT	FT	FT	FT	FT	CY	CY	CY	CY	CY	CY						
1	11	Across Grant St					12	56						13.1			13.1	Utility Box (protect in place)		
	12	21073 Pacific Coast Highway					4	6							0.5			0.5	Between 1st St and Huntington St	
							4	12							0.9			0.9		
							8	5								0.8				0.8
							4	6								0.5				0.5
							8	12								1.9				1.9
					8	5									0.8			0.8		
					8	22									3.4			3.4		
	13	Across 5th St					4	7							0.5			0.5		
	14	Across 7th St					10	19							3.7			3.7		
							5	8							0.8			0.8	Next to fire hydrant	
							10	12							2.3			2.3	Manhole (Protect in Place)	
	15	Across 8th St					10	72							14.0	103		14.0	(Painted 80' of Red Curb)	
16	NW corner of Pacific Coast Highway & 8th St					10	35							6.8			6.8	Across from Best Western Hotel		
						2	20							0.8			0.8			
						8	9							1.4			1.4	Manhole (Protect in Place)		
18	Across 1100 Pacific Coast Highway					6	55							6.4			6.4	SB Pacific Coast Highway Between 10th & 11th (Parking Meters - Protect in Place)		
19	Across 1010 Pacific Coast Highway					6	132							15.4			15.4			
20	SE Corner of Pacific Coast Highway & 19th St					3	8							0.5		39	0.5	1 Storm Drain (Protect in Place)		
SUBTOTAL											74.5			74.5	142	1				
SHEET TOTAL Q-2											74.5			74.5	142	1				

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 PHAT TRAN
 ANH TRAN
 A TRAN
 06-01-15
 REVISOR BY
 DATE REVISED
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 MASSOUD TAJIK
 BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 31-AUG-2015
 08-24-15 TIME PLOTTED => 08:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1,39	19.8/33.7 0.0/1.1	13	21

Anh Tran 09-04-15
 REGISTERED CIVIL ENGINEER DATE
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 STATE OF CALIFORNIA

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ROUTE	LOCATION No.	NEAREST STREET ADDRESS OR STREET NAME	CURB & GUTTER	DRIVEWAY		SIDEWALK		MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)			REMOVE CONCRETE			PAINT CURB (2-COAT)	DRAINAGE INLET MARKER	DESCRIPTION		
			8" TO 16" DEPTH (N)	6" TO 10" DEPTH (N)		6" TO 8" DEPTH (N)		CURB	DRIVEWAY	SIDEWALK	CURB	DRIVEWAY	SIDEWALK					
			LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	LENGTH (L)										WIDTH (W)	LENGTH (L)
FT	FT	FT	FT	FT	FT	FT	FT	CY	CY	CY	CY	CY	CY	CY	SQFT	EA		
1	21	SE Corner of Pacific Coast Highway & 20th St				2	15					0.6			0.6	26	1	Storm Drain (Protect in Place)
	22	SE Corner of Pacific Coast Highway & 22th St				2	8					0.3			0.3	39		Storm Drain (Protect in Place)
	23	17142 Pacific Coast Highway		8	20					5.2			5.2					Driveway to Harbor Pacific (Inlet - Protect in Place)
	24	NE Corner of Pacific Coast Highway & Coral Cay Lane	36						2.4			2.4						At Bus Stop
	25	16912 Pacific Coast Highway	91						6.1			6.1			117			Best Western Hotel (SE Corner of Pacific Coast Highway & Park Ave)
	26	16821 Pacific Coast Highway													90			(Painted 70' of Red Curb)
	27	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)	42						2.8			2.8						
	28	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)				8	13											
	28	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)				6	4											
	28	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)				6	7											
	28	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)				6	32											
	28	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)	41						2.7			2.7						
	28	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)				9	15											
	28	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)				9	3											
28	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)				9	16												
28	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)				6	6												
28	16732 Pacific Coast Highway (SE Corner of Pacific Coast Highway & 16th St)				6	6												
29	NE Corner of Pacific Coast Highway & Admiralty Dr				7	9												
30	North of 19th St				7	20												
SUBTOTAL									14.0	5.2	22.6	14.0	5.2	22.6	272	1		
SHEET TOTAL Q-3									41.8			41.8			272	1		

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE
 PHAT TRAN ANH TRAN
 REVISOR BY A TRAN 06-01-15
 REVISION DATE 06-01-15
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR MASSOUD TAJIK
 BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 31-AUG-2015
 08-04-15 TIME PLOTTED => 08:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1,39	19.8/33.7 0.0/1.1	14	21

Anh Tran 09-04-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 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.

ROUTE	LOCATION No.	NEAREST STREET ADDRESS OR STREET NAME	CURB & GUTTER 8" TO 16" DEPTH (N)		DRIVEWAY 6" TO 10" DEPTH (N)		SIDEWALK 6" TO 8" DEPTH (N)		MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)			REMOVE CONCRETE			PAINT CURB (2-COAT) SQFT	DRAINAGE INLET MARKER EA	DESCRIPTION		
			LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	CURB CY	DRIVEWAY CY	SIDEWALK CY	CURB CY	DRIVEWAY CY	SIDEWALK CY					
			FT	FT	FT	FT	FT	FT											
1	31	Across 16585 Pacific Coast Highway					7	8						1.1			1.1	Light Pole w/ 45 Speed Limit Sign	
	32	Across 16575 Pacific Coast Highway					7	5						0.7			0.7	Between 20th & 21st St	
	33	Across 16571 Pacific Coast Highway					5	17						1.7			1.7		
	34	16450 Pacific Coast Highway (Pete's Landing Marina)					8	9							1.4			1.4	Across from DermFx
			44							2.9				2.9					Across from 23rd St
	35	16470 Pacific Coast Highway	18							1.2				1.2			257		Starbucks (Painted 200' of red curb)
							5	5										0.5	
	36	SE Corner of Pacific Coast Highway & Anderson St					8	51							7.9			7.9	1
							3	6							0.4			0.4	
	37	NW Corner of Pacific Coast Highway & Seal Beach Blvd	60							4.0				4.0			77		Front of Bay Liquor
	38	North of Pacific Coast Highway & Seal Beach Blvd	20							1.3				1.3			212		Front of Bus Stop #6753 (Painted 165' of red curb)
	39	1700 Pacific Coast Highway	103							6.9				6.9					Front of Family Law
					8	4					1.0								1.0
	40	1650 Pacific Coast Highway	12							0.8				0.8					NW corner of Pacific Coast Highway & 17th St
28									1.9				1.9					Front of State Farm Sign	
41	1600 Pacific Coast Highway	62							4.2				4.2					Front of Family Medicine	
42	Across 1590 Pacific Coast Highway					5	3							0.3			0.3	Across from 16th St Garage	
43	1590 Pacific Coast Highway					3	4							0.2			0.2	Front of 16th St Garage	
44	1500 Pacific Coast Highway	95							6.4				6.4					Front of Dave's Other Place & Total Illusion	
				3	3					0.3				0.3				Front of Dave's Other Place	
SUBTOTAL									29.6	1.3	17.1	29.6	1.3	17.1	546	1			
SHEET TOTAL Q-4									48.0			48.0			546	1			

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 MASSOUD TAJIK
 PHAT TRAN
 ANH TRAN
 A TRAN
 06-01-15
 REVISOR BY DATE REVISOR
 CALCULATED-DESIGNED BY CHECKED BY
 FUNCTIONAL SUPERVISOR
 BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 31-AUG-2015
 08-24-15 TIME PLOTTED => 08:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1,39	19.8/33.7 0.0/1.1	15	21

Anh Tran 09-04-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 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.

ROUTE	LOCATION No.	NEAREST STREET ADDRESS OR STREET NAME	CURB & GUTTER 8" TO 16" DEPTH (N)		DRIVEWAY 6" TO 10" DEPTH (N)		SIDEWALK 6" TO 8" DEPTH (N)		MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)			REMOVE CONCRETE			PAINT CURB (2-COAT) SQFT	DRAINAGE INLET MARKER EA	DESCRIPTION	
			LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	CURB	DRIVEWAY	SIDEWALK	CURB	DRIVEWAY	SIDEWALK				
			FT	FT	FT	FT	FT	FT	CY	CY	CY	CY	CY	CY				
1	45	1400 Pacific Coast Highway	196						13.1			13.1					Between 14th St & 15th St	
			144						9.6			9.6					Front of Chevron Gas Station	
						8	5				0.8			0.8				
					4	28						3.6			3.6			
		46	1300 Pacific Coast Highway									0.8			0.8			
												0.6			0.6			
												0.3			0.3			
												0.6			0.6			
		47	SE Corner of Pacific Coast Highway & Balboa Dr									0.4			0.4			Across from Donut City
												0.4			0.4			
		48	1210 Pacific Coast Highway			8	20					5.2			5.2			Next to Donut City (Exist Valves - Protect in Place)
		49	NW corner of Pacific Coast Highway & 12th St									0.5			0.5	135		Front of Blackboard Bistro (Painted 105' of Red Curb)
		50	1198 Pacific Coast Highway									0.2			0.2			Front of Merle Norman and Family Medical Group
											0.2			0.2				
	51	1103 Pacific Coast Highway									0.5			0.5			South of Bus Stop	
											0.3			0.3			Next to Driveway to Wells Fargo	
	52	Across 1190 Pacific Coast Highway									0.5			0.5			Across from Seal Beach Optometry	
	53	1190 Pacific Coast Highway	70								4.7			4.7	39		Front of Seal Beach Eyes Optometry (Painted 30' of red curb)	
											3.3			3.3				
SUBTOTAL									27.4	8.8	9.4	27.4	8.8	9.4	174			
SHEET TOTAL Q-5									45.6			45.6			174			

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR MASSOUD TAJIK
 CHECKED BY ANH TRAN
 PHAT TRAN
 REVISED BY A TRAN
 DATE REVISED 06-01-15

LAST REVISION DATE PLOTTED => 31-AUG-2015
 08-24-15 TIME PLOTTED => 08:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1,39	19.8/33.7 0.0/1.1	16	21

Anh Tran 09-04-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE

ANH P. TRAN
 No. C56206
 Exp. 12-31-16
 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.

ROUTE	LOCATION No.	NEAREST STREET ADDRESS OR STREET NAME	CURB & GUTTER 8" TO 16" DEPTH (N)		DRIVEWAY 6" TO 10" DEPTH (N)		SIDEWALK 6" TO 8" DEPTH (N)		MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)			REMOVE CONCRETE			PAINT CURB (2-COAT) SQFT	DRAINAGE INLET MARKER EA	DESCRIPTION	
			LENGTH (L)	LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	CURB	DRIVEWAY	SIDEWALK	CURB	DRIVEWAY	SIDEWALK					
			FT	FT	FT	FT	FT	CY	CY	CY	CY	CY	CY					
1	54	SW corner of Pacific Coast Highway & Main St	133				3	3						0.2				From Subway Sandwich to Intersection
					9	16								4.7				
	55	921 Pacific Coast Highway					5	10						1.0				Front of CVS
							8	16						2.5				Next to "Historic" Street Sign, in front of CVS
							5	10						1.0				By Fire Hydrant front of Chase Bank
	56	Across 16575 Pacific Coast Highway	110											7.4				By Bus Stop
				42										2.8				North of 1st Driveway to Chase Bank
							7	3						0.4				
				21										1.4				North of 2nd Driveway to Chase Bank
	57	770 Pacific Coast Highway	106											7.1				Across from 23rd St
	58	712 Pacific Coast Highway			8	51								7.9				Devynns Garden
				30										2.0				
	59	NW corner of Pacific Coast Highway & Marina Dr					10	8						1.6				Next to Street Light with Signal Sign (Traffic Light - Protect in Place)
	60	620 Pacific Coast Highway					4	5						0.4				Near Glory Days Sign
61	SW corner of Pacific Coast Highway & 1st St					4	11						0.9				Near Traffic Signal	
62	Pacific Coast Highway between 1st St and LA/Orange County Line					8	6						0.9				Front of Eaves Apartment	
						8	6						0.9					
SUBTOTAL									27.6	12.6	9.8	27.6	12.6	9.8				
SHEET TOTAL Q-6									50.0			50.0						

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 PHAT TRAN
 ANH TRAN
 A TRAN
 06-01-15
 REVISOR BY DATE REVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 MASSOUD TAJIK
 BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 31-AUG-2015
 08-24-15 TIME PLOTTED => 08:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1,39	19.8/33.7 0.0/1.1	17	21

Anh Tran 09-04-15
 REGISTERED CIVIL ENGINEER DATE
 08-31-15
 PLANS APPROVAL DATE

ANH P. TRAN
 No. C56206
 Exp. 12-31-16
 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.

LOCATION No.	TEMPORARY DRAINAGE INLET PROTECTION
	EA
Loc 1 to Loc 67	8
TOTAL	8

ROUTE	LOCATION No.	NEAREST STREET ADDRESS OR STREET NAME	CURB & GUTTER 8" TO 16" DEPTH (N)		DRIVEWAY 6" TO 10" DEPTH (N)		SIDEWALK 6" TO 8" DEPTH (N)		MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)			REMOVE CONCRETE			PAINT CURB (2-COAT) SQFT	DRAINAGE INLET MARKER EA	DESCRIPTION
			LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	LENGTH (L)	WIDTH (W)	CURB	DRIVEWAY	SIDEWALK	CURB	DRIVEWAY	SIDEWALK			
			FT	FT	FT	FT	FT	FT	CY	CY	CY	CY	CY	CY			
39	63	South of Atlanta Ave					5	21						2.0			Across from Domino Pizza
	64	South of Atlanta Ave					7	21						2.9			Across from Walmart
	65	SW corner of Atlanta Ave and Beach Blvd	41								2.7			2.7		212	Near Bus Stop
	66	NE corner of Atlanta Ave and Beach Blvd					5	6						0.6		0.6	
	67	Between Atlanta Ave and Mobile Home Park					5	10						1.0		1.0	
SUBTOTAL										2.7		6.5	2.7		6.5	212	
SHEET TOTAL Q-7									9.2			9.2			212		
SHEET TOTAL Q-6									50.0			50.0					
SHEET TOTAL Q-5									45.6			45.6			174		
SHEET TOTAL Q-4									48.0			48.0			546	1	
SHEET TOTAL Q-3									41.8			41.8			272	1	
SHEET TOTAL Q-2									74.5			74.5			142	1	
SHEET TOTAL Q-1									86.8			86.8					
TOTAL									355.9			355.9			1,346	3	

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR MASSOUD TAJIK
 CALCULATED/DESIGNED BY PHAT TRAN
 CHECKED BY ANH TRAN
 REVISED BY A TRAN
 DATE REVISED 06-01-15



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	18	21

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Grace M. Tsushima
No. C49814
Exp. 9-30-14
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.

TO ACCOMPANY PLANS DATED 08-31-15

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

	M	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	O	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	P	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	Q	
Qty	QUANTITY	
	R	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
ℒ	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

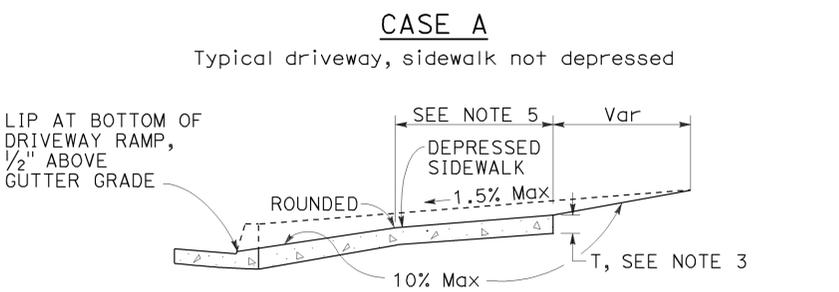
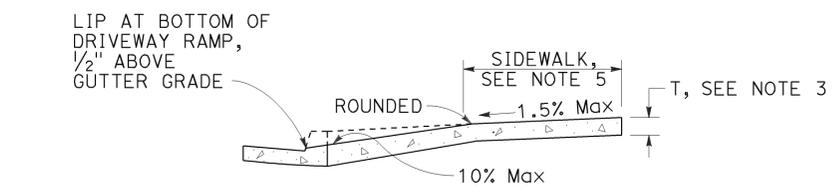
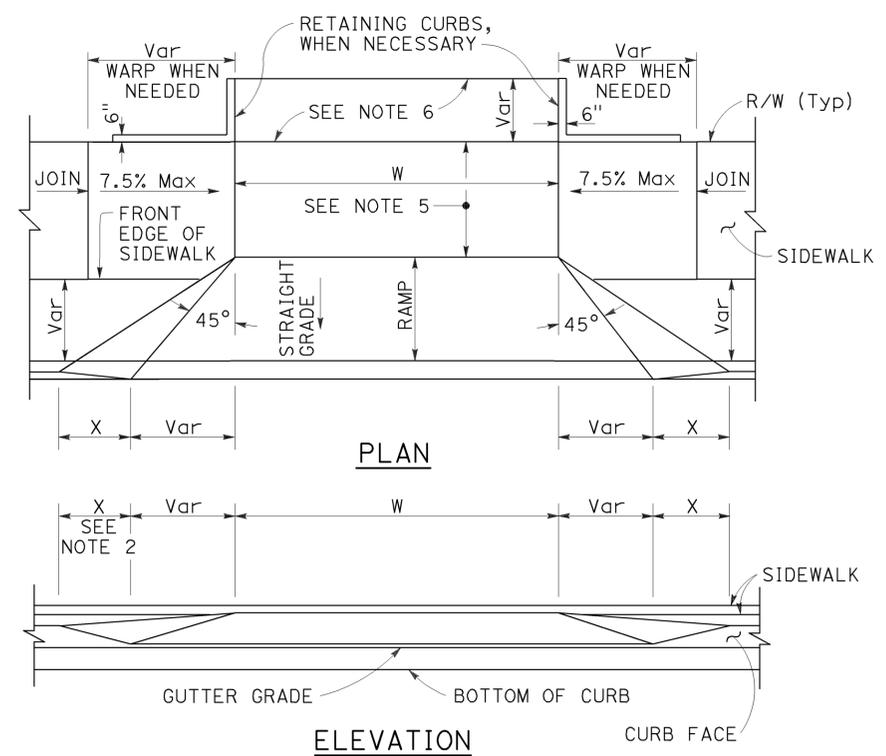
	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	
	U	
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	
	V	
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	
	W	
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWLOL	WINGWALL LAYOUT LINE	
	X	
X Sec	CROSS SECTION	
Xing	CROSSING	
	Y	
Yr	YEAR	
Yrs	YEARS	

REVISED STANDARD PLAN RSP A10B

TO ACCOMPANY PLANS DATED 08-31-15

CURB QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661



CASE A

Typical driveway, sidewalk not depressed

CASE B

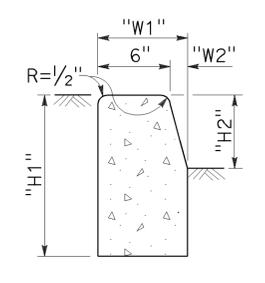
Driveway with depressed sidewalk

SECTIONS

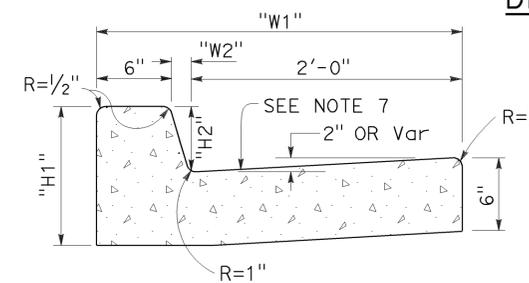
TABLE A

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7 1/2"	1 1/2"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7 1/2"	1 1/2"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7 1/4"	1 1/4"
A3-8	8"	7"	7 3/4"	1 3/4"
B1-4	1'-0"	4"	7 1/2"	2 1/2"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7 1/2"	2 1/2"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8 1/2"	3 1/2"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

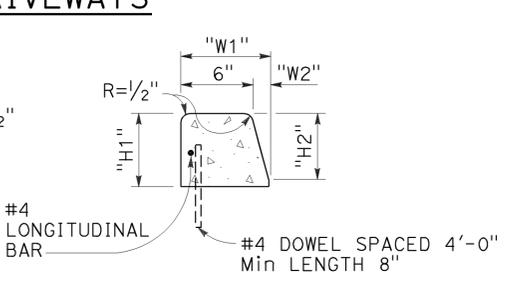
DRIVEWAYS



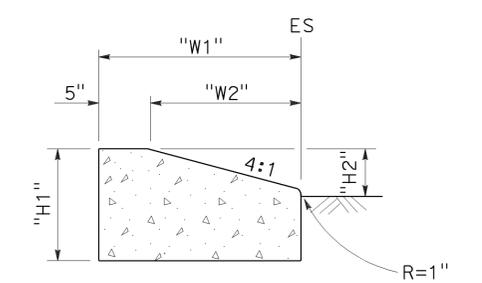
TYPE A1 CURBS
See Table A



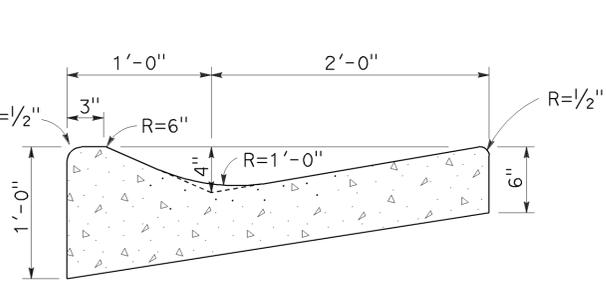
TYPE A2 CURBS
See Table A



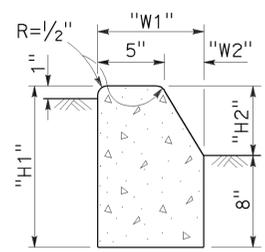
TYPE A3 CURBS
Superimposed on existing pavement
See Table A



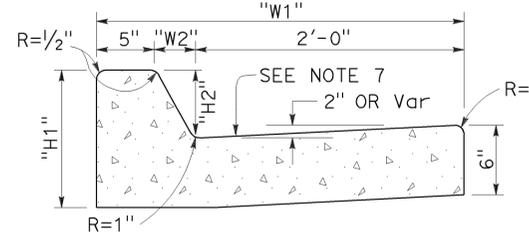
TYPE D CURBS
See Table A



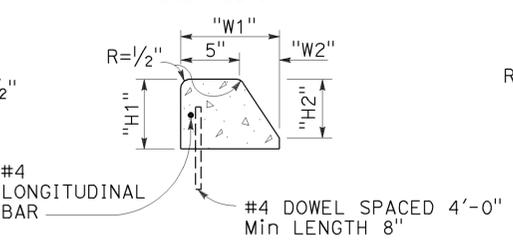
TYPE E CURB



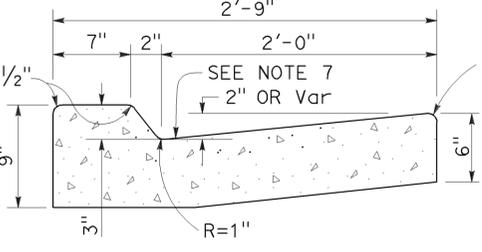
TYPE B1 CURBS
See Table A



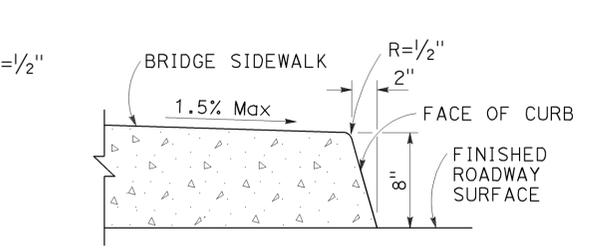
TYPE B2 CURBS
See Table A



TYPE B3 CURBS
Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB
On Bridges

CURBS

- NOTES:**
- Case A driveway section typically applies.
 - X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
 - Sidewalk and ramp thickness "T" at driveway shall be 4" for residential and 6" for commercial.
 - Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
 - Minimum width of clear passageway for sidewalk shall be 4'-2".
 - Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
 - Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

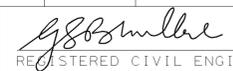
NO SCALE

RSP A87A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87A
DATED MAY 20, 2011 - PAGE 119 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87A

2010 REVISED STANDARD PLAN RSP A87A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	20	21


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 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.

TO ACCOMPANY PLANS DATED **08-31-15**

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

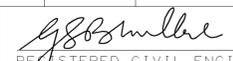
NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

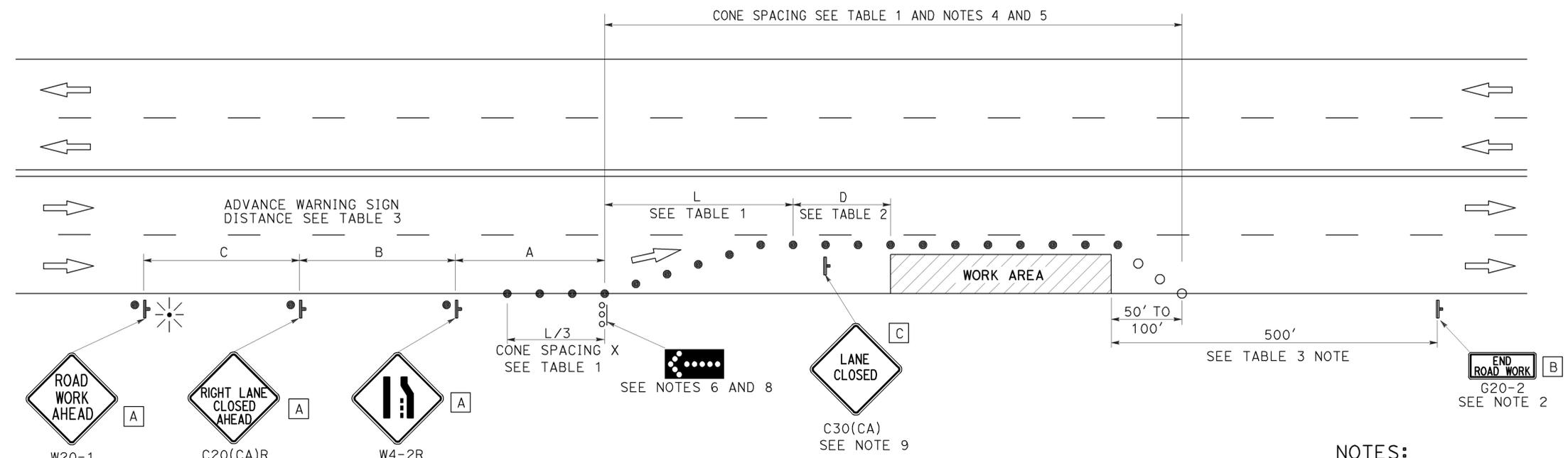
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	1, 39	19.8/33.7 0.0/1.1	21	21


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 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.

TO ACCOMPANY PLANS DATED **08-31-15**



TYPICAL LANE CLOSURE

NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
- California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

NOTES:

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
-  FLASHING ARROW SIGN (FAS)
-  FAS SUPPORT OR TRAILER
-  PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11