

## SIGNING AND STRIPING NOTES

- 1 INSTALL DOUBLE YELLOW CENTERLINE (DETAIL 22)
- 2 INSTALL 8" SOLID WHITE CHANNELIZING LINE (DETAIL 38).
- 3 INSTALL 12" WHITE CROSSWALK OR LIMIT LINE
- 4 INSTALL PAVEMENT MARKINGS AS SHOWN
- 5 INSTALL MEDIAN ISLAND (DETAIL 29)
- 6 INSTALL 12" SOLID WHITE DIAGONAL LINE AS SHOWN. 40' CENTER TO CENTER.
- R REMOVE SIGN OR STRIPING AS SHOWN. REMOVE STRIPING BY WET SANDBLASTING.
- S FURNISH AND INSTALL SIGN PER DESIGNATION PER 2006 CA MUTCD

SCALE 1" = 20'

CONDUCTOR		SCHEDULE							
AWG SIZE, WIRE OR CABLE TYPE	STD	PHASES	CONDUIT SIZE AND RUN		NUMBER				
			1	2	3	4	5	6	
12 WIRE CONDUCTOR CABLE 11-#12 1-#12	1	Ø4P /Ø2PPB	-	-	1/1	-	-	-	-
	2	Ø2, Ø2P /Ø4PPB	-	-	1/1	1/1	-	-	-
	3	Ø1, Ø4, Ø6, Ø4P /Ø4PPB	-	-	2/1	-	2/1	-	-
	4	Ø4, OLA	-	-	1/0	-	1/0	1/0	-
	5	Ø2, Ø6, Ø2P	-	-	1/0	1/0	-	-	-
	6	Ø4, OLA	1/1	1/1	1/1	-	-	-	-
3 WIRE CONDUCTOR CABLE (3-#14, PPB)			TOTAL CABLES						
#10 LUMINAIRE			1/1	2/1	7/4	1/1	3/1	1/0	
#10 WARNING DEVICE			-	-	4	2	2	2	
TYPE C DLC	Ø1		-	-	1	-	1	1	
	Ø2		-	-	3	3	-	-	
	Ø4		2	2	2	-	-	-	
	Ø5		-	-	-	-	-	-	
	Ø6		-	-	3	-	3	3	
	Ø8		-	-	-	-	-	-	
TOTAL			2	2	9	3	4	4	
PERCENT FILL			9	20	26	23	23	11	
CONDUIT SIZES (INCHES)			3"(N)	3"(N)	2-3"	2"	3"	3"	

ALL CONDUCTORS ARE NEW. CONDUIT IS EXISTING EXCEPT (N)=NEW

## POLE SCHEDULE

POLE DATA			SIGNAL		H.P. SOD. VAP.	SIGNAL HEADS AND MOUNTINGS			PPB		POLE LOCATION			REFLECTIVE STREET NAME SIGN (dbl. face)
NO.	TYPE	HEIGHT	M.A.	M.A.	WATTS	VEHICULAR	M.A.	PEDESTRIAN	PHASE	QUAD.	"B"	"E"	"C"	
1	15	30'	-	12'	200	-	-	SP-1-T	2	S	AS SHOWN	-	-	-
2	1-A	10'	-	-	-	TV-2-T	-	SP-1-T	4	W	AS SHOWN	-	-	-
3	26-4-70	30'	45'	15'	250	SV-2-TC	2MAS	SP-1-T	4	W	AS SHOWN	-	-	Crawford Cyn
4	17-3-70	30'	20'	15'	250	SV-1-T	MAS	-	-	-	AS SHOWN	-	-	Newport Blvd
5	19-4-70(RL)	30'	25'(RL)	15'(RL)	250	SV-2-TC(RL)	MAS(RL)	SP-1-T(RL)	-	-	0	3'	-	Crawford Cyn
6	1-A(N)	10'	-	-	-	TV-1-T(N)	-	-	2(N)	S	14'	-	3'	-

ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED.

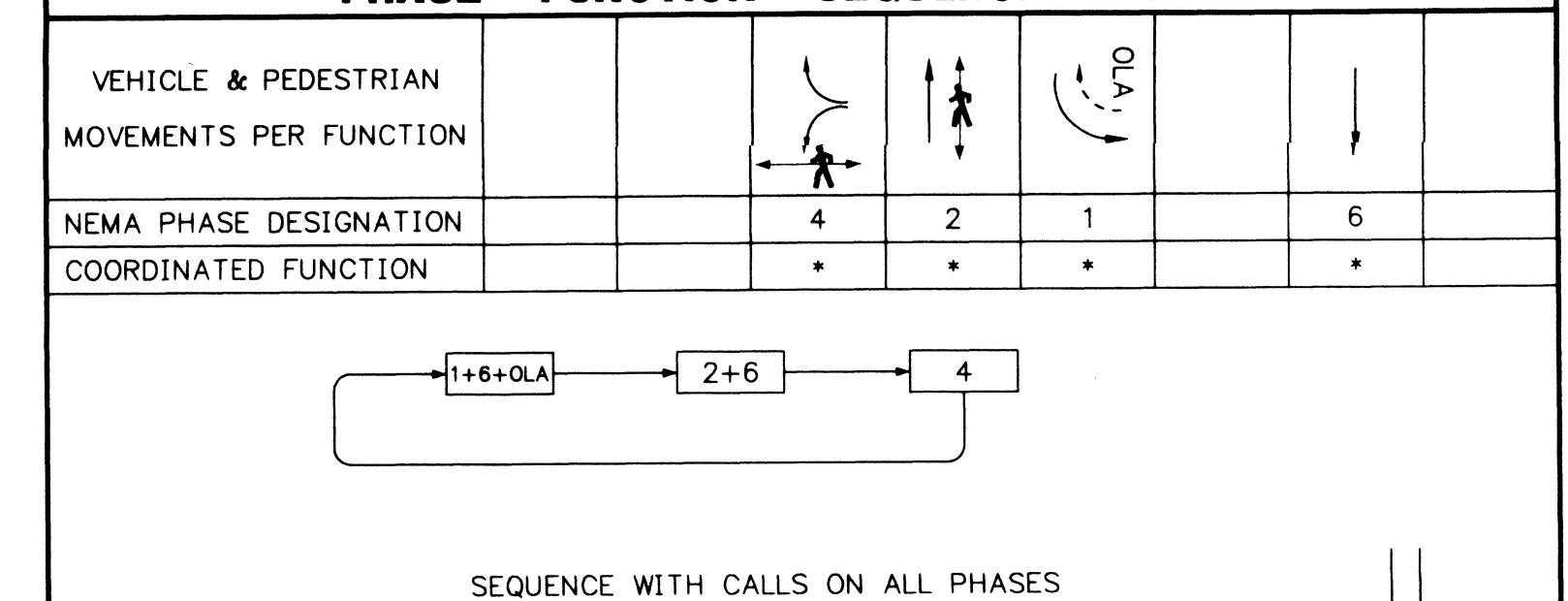
(N)= NEW (RL)=RELOCATE

■ - REPLACE WITH ADA COMPLIANT PPB SEE GENERAL NOTE 18.

## CONSTRUCTION NOTES

- 1 RELOCATE POLE 5 COMPLETE WITH ALL EQUIPMENT TO NEW LOCATION PER POLE SCHEDULE.
- 2 REMOVE PPB POST COMPLETE WITH ALL EQUIPMENT, REMOVE FOUNDATION. FURNISH AND INSTALL POLE 6 PER POLE SCHEDULE AND AS SHOWN.
- 3 RELOCATE PEDESTRIAN BARRICADE AND R9-3a TO NEW LOCATION AS SHOWN. INSTALL NEW R9-3a ON BACKSIDE OF BARRICADE FACING THE SIDEWALK.
- 4 EXISTING TYPE "P" CABINET, INSTALL NECESSARY EQUIPMENT FOR PROPOSED OPERATION.

## PHASE - FUNCTION - SEQUENCE DIAGRAM



## CRAWFORD CANYON RD

## GENERAL NOTES

1. ALL WORK, MATERIAL AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA, DEPT. OF TRANSPORTATION, STANDARD PLANS AND STANDARD SPECIFICATIONS DATED MAY, 2006, THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. UTILITIES SHOWN ON THESE PLANS ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. THE CONTRACTOR, HOWEVER IS REQUIRED TO ASCERTAIN THE EXACT LOCATION OF UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL PHASES OF CONSTRUCTION WITH THE VARIOUS UTILITY COMPANIES INVOLVED. VERIFY SERVICE LOCATION PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS AT (714)834-4502 48 HOURS PRIOR TO START OF CONSTRUCTION.
5. ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.
6. THE ENGINEER SHALL APPROVE THE EXACT LOCATION OF ALL PULLBOXES, CONDUITS, LOOP DETECTORS, CONTROLLER AND POLES IN THE FIELD.
7. ALL CONDUIT SHALL BE 2" UNLESS OTHERWISE SPECIFIED. SCHEDULE 80 PVC WITH #12 BARE BOND WIRE.
8. ALL SALVAGED EQUIPMENT AND CONDUCTORS SHALL BE RETURNED TO THE COUNTY OF ORANGE.
8. ALL PULLBOXES SHALL BE NO. 5 UNLESS OTHERWISE SPECIFIED.
9. THE CONTRACTOR MAY PLACE CONDUIT BY JACKING OR DRILLING.
10. ALL NEW VEHICLE INDICATIONS SHALL BE 12" AND L.E.D. ALL NEW PEDESTRIAN INDICATIONS SHALL BE "FULL-FILL" TYPE L.E.D.
11. ALL NEW LOOPS SHALL HAVE 4-TURNS, BE 6" CIRCULAR, WITH 9" SPACING IN THE DIRECTION OF TRAVEL, CENTERED IN LANES UNLESS OTHERWISE SPECIFIED. INSTALL LOOPS WITH HOT-MELT RUBBERIZED ASPHALT SEALANT.
12. ALL TRAFFIC LOOPS, SIGNING, PAVEMENT MARKERS AND STRIPING SHALL BE INSTALLED PRIOR TO TURN ON.
13. THE CONDUCTOR SCHEDULE IS FURNISHED AS AN INSTALLATION GUIDELINE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE CORRECT CONDUCTORS REQUIRED FOR THE INTENDED OPERATION.
14. ALL WIRING AND EQUIPMENT SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET FOR PHASE IDENTIFICATION AND DESIGNATION OF POLE.
15. UNGROUNDED SIGNAL LIGHT CONDUCTORS SHALL NOT BE SPLICED.
16. CONTRACTOR SHALL POT-HOLE POLE LOCATIONS AND VERIFY FOUNDATION LOCATIONS.
17. ALL PULL BOX LIDS SHALL BE OF A NON-PCC MATERIAL PER CALTRANS SPECIFICATIONS AND STANDARD PLANS.
18. ALL PED PUSHBUTTONS SHALL BE ADA COMPLIANT, PIEZO ELECTRIC (SOLID STATE) VANDAL RESISTANT NON-MOVING STAINLESS STEEL BUTTON ASSEMBLIES WITH MOMENTARY L.E.D. INDICATION & AUDIBLE BEEP VERIFICATION (POLARA BULLDOG OR APPROVED EQUIVALENT)

1 1/2 0 1 2  
3 inches on original drawing

County of Orange

RDMD/ROAD DIVISION - TRAFFIC ENGINEERING

Approved By:

GRANT ANDERSON, MGR., Traffic Engineering 4/26/08

THIS PLAN IS SIGNED BY RDMD/T.E. FOR CONCEPT AND ADHERENCE TO COUNTY TRAFFIC SIGNALS, SIGNING AND STRIPING STANDARDS AND REQUIREMENTS ONLY. RDMD/T.E. IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS OR ACCURACY.

DESIGNED BY: AA  
DRAWN BY: AA  
CHECKED BY: RS  
JOB NO.: 1030.001

**AUSTIN-FOUST ASSOCIATES, INC.**  
TRAFFIC ENGINEERING AND TRANSPORTATION PLANNING  
2223 WELLINGTON AVENUE, SUITE 300 SANTA ANA, CALIFORNIA 92701-3161  
TELEPHONE (714) 667-0496 FAX (714) 667-7952  
JOE E. FOUST, RCE 20258 EXPIRE 9-30-09 DATE: 4-28-08

REGISTERED PROFESSIONAL ENGINEER  
JOE E. FOUST  
No. 20258  
Exp. 9-30-09  
CIVIL  
STATE OF CALIFORNIA

## POLE LOCATION DETAIL

NO SCALE

## Underground Service Alert



Call: TOLL FREE  
1-800-227-2600

TWO WORKING DAYS BEFORE YOU DIG

INC. PERMIT 2007-00962

ORANGE COUNTY  
RESOURCE AND DEVELOPMENT MANAGEMENT DEPARTMENTTRAFFIC SIGNAL  
MODIFICATION PLAN  
NEWPORT  
AND  
CRAWFORD CANYON

MARK DATE DESCRIPTION PREPARED UNDER SUPERVISION OF DATE:  
REVISIONS  
SCALE: 1"=20'

W.O. No.  
DWG. # XX-XXXX-XX

SHEETTS 1 OF 1

TR. IMP. PM. 2005-241