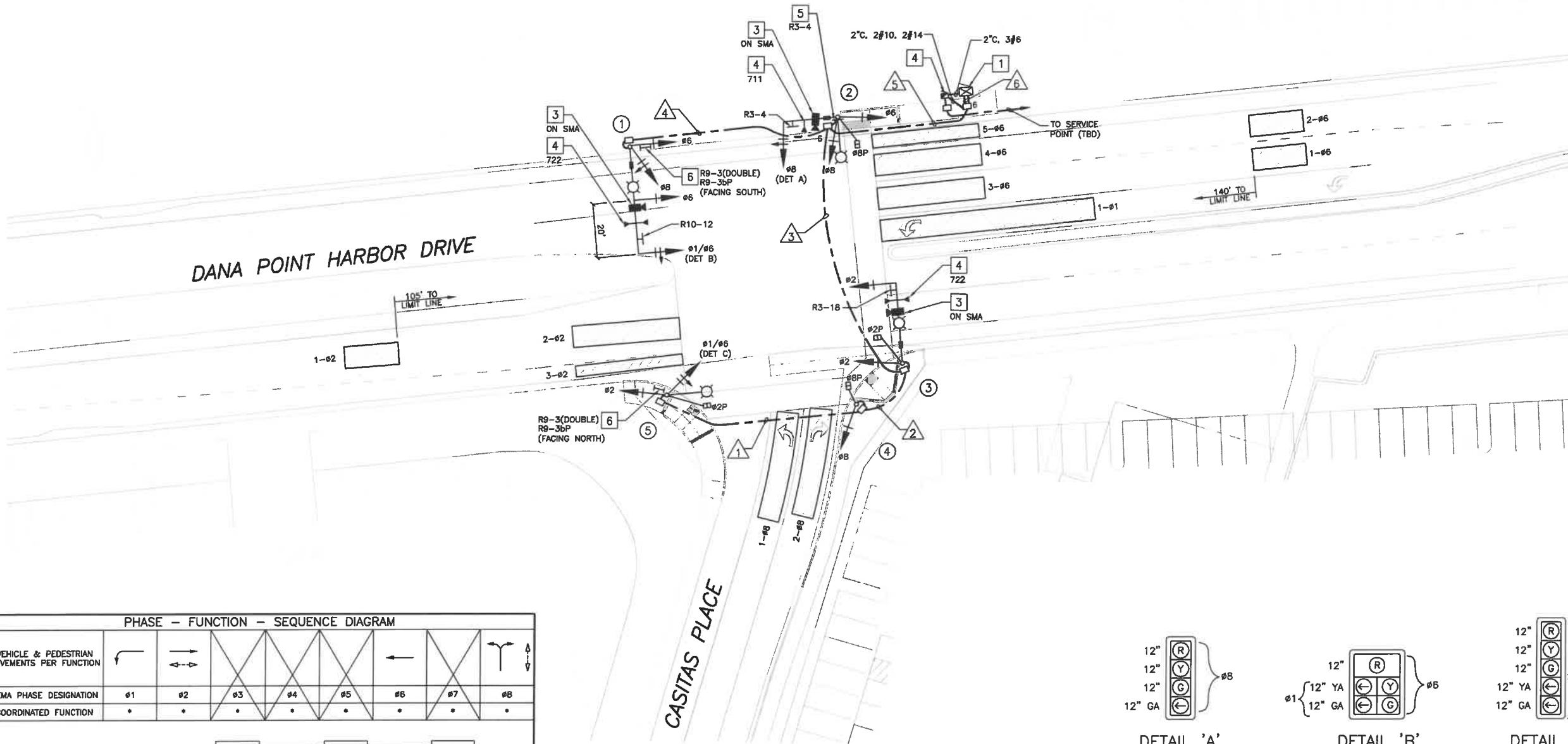










\\ROSEVILLE_N_DRIVE\2012PROJECTS\OC_PROJECTS\OC12_0209_DANNA_POINT HARBOR\90_SUBMITTAL\0209 COUNTY OF OC -- PHASE\0209-COUNTY-PH1_

7. ALL CONDUITS SHALL BE INSTALLED AT MINIMUM DEPTH OF 30".
8. TRENCHING IN STREET PAVEMENT SHALL NOT BE ALLOWED FOR THIS PROJECT. HOWEVER, IN SIDEWALK AREAS, CONTRACTOR MAY TRENCH OR BORE SUCH THAT SIDEWALK IS REPLACED IN KIND, SCORE MARK TO SCORE MARK.
9. PROTECT-IN-PLACE EXISTING SIGNS UNLESS NOTED OTHERWISE.
10. CONTRACTOR SHALL FURNISH ALL MATERIAL AND EQUIPMENT REQUIRED.
11. CONTRACTOR SHALL POT-HOLE TO IDENTIFY EXACT UTILITY LOCATION AND DEPTH PRIOR TO BORING/JACKING CONDUIT.
12. ADDITIONAL REMOVAL AND REPLACEMENT OF ASPHALT CONCRETE MAY BE NEEDED. REMOVAL AND REPLACEMENT LIMITS WILL BE TO THE DISCRETION OF THE ENGINEER.
13. VIDEO DETECTION SYSTEM SHALL BE ECONOLITE AUTOSCOPE TERRA OR ENGINEER APPROVED EQUIVALENT.
14. UNIVERSAL POWER SYSTEM (UPS) SHALL BE CLARY CORPORATION SP1250PD "PLUS" TRAFFIC UPS OR APPROVED EQUAL HOUSED IN A CLARY CBS 126 NEMA 3R CABINET ENCLOSURE OR APPROVED EQUAL MOUNTED TO SIDE OF CONTROLLER CABINET.
15. INDICATES VIDEO DETECTION ZONE.

- 1 FURNISH AND INSTALL NEW NEMA TS2 TYPE 2 ECONOLITE ASC/3-2100 CONTROLLER WITH ETHERNET PORT, DATA KEY, 9-PIN FSK MODULE, VIDEO DETECTION SYSTEM (ECONOLITE AUTOSCOPE TERRA OR APPROVED EQUAL), EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM AND ALL NECESSARY EQUIPMENT FOR INTENDED OPERATION IN A NEW NEMA TS2 TYPE 2 PLUG-AND-GO TYPE P-44 CABINET AND UNIVERSAL POWER SYSTEM (UPS).
- 2 FURNISH AND INSTALL NEW TYPE II-BF SERVICE CABINET. FURNISH AND INSTALL 2", SERVICE CONDUCTORS FROM SERVICE POINT TO NEW SERVICE CABINET.
- 3 FURNISH AND INSTALL VIDEO CAMERA ON LUMINAIRE OR SIGNAL MAST ARM PER ENGINEER APPROVAL AND NECESSARY VIDEO AND POWER CABLES TO CONTROLLER CABINET.
- 4 FURNISH AND INSTALL MODEL 711 OR 722 EVP OPTICAL DETECTOR UNITS ON MAST ARM.
- 5 INSTALL SIGN ON POLE SHAFT ABOVE MAST ARM.
- 6 INSTALL TYPE 1 PEDESTRIAN BARRICADE PER CALTRANS STANDARD PLAN ES-7Q.



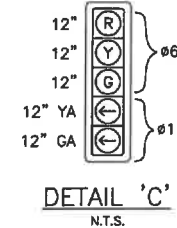
PHASE — FUNCTION — SEQUENCE DIAGRAM

VEHICLE & PEDESTRIAN MOVEMENTS PER FUNCTION								
NEMA PHASE DESIGNATION	ϕ1	ϕ2	ϕ3	ϕ4	ϕ5	ϕ6	ϕ7	ϕ8
COORDINATED FUNCTION	•	•	•	•	•	•	•	•

• DETERMINED BY MASTER COMPUTER DURING COORDINATION OPERATION

1 + 6 ————— 2 + 6 ————— 8

SEQUENCE WITH CALLS ON ALL PHASES

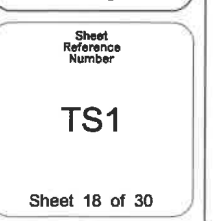


DETAIL 'C'

N.T.S.



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY



AWG SIZE, WIRE OR CABLE TYPE	STD	PHASES	CONDUIT SIZE & RUN NUMBER					
			1	2	3	4	5	6
12 CSC	①	#1,#6/#8/-	-	-	-	1/0	1/0	1/0
	②	#8,#8P/#6/#8PPB	-	-	-	-	1/1	1/1
	③	#2,#2P/-/#8PPB	-	-	1/0	1	1/0	1/0
5 CSC	④	#8,#8P/-/#2PPB	-	1/0	1/0	1/0	1/0	1/0
	⑤	#1,#6,#2P/#2/#2PPB	1/1	1/1	1/1	1	1/1	1/1
3 CSC			-	-	-	-	-	-
		TOTAL	1/1	2/2	3/3	1/0	5/3	4/3
#14	I.I.S.N.S.		-	-	2	2	2	-
	SPARES		3	6	9	3	12	12
	TOTAL		3	6	11	5	14	12
#10	SIGNAL & SIGN COM.		1	1	1	1	2	2
	LUMINAIRES		2	2	2	2	2	-
	TOTAL		3	3	3	3	4	2
VIDEO DETECTION POWER/VIDEO			-	-	1	1	3	3
EVP CABLE (M-138)			-	-	1	1	3	3
CONDUIT SIZE (NEW)			3"	3"	4"	3"	2-4"	2-4"

INSTALL NEW CONDUCTORS THROUGHOUT

1	1-01	9	3-02
2	2-02	10	1-02
3		11	
4		12	5-06
5	4-06	13	3-06
6	2-06	14	1-06
7		15	
8	2-08	16	1-08

[illegible]

NOTES:

ALL EQUIPMENT IS NEW.

■ - ROTATE LUMINAIRE ARM 90°

* = PHILIPS LUMEC ROADVIEW SERIES: RVS-135W8DLED4K-R-LE4 OR APPROVED EQUAL.

C = C.I.D.H.



PHASE 1A & 1B

OC DANA POINT HARBOR
STREET IMPROVEMENT PLAN

01/16/2015

PREPARED UNDER THE RESPONSIBLE CHARGE OF:



DATE 01/16/2012
Signed: *Jeffery D. Smith*

DESIGNED BY:

COUNTY OF ORANGE
OC PUBLIC WORKS

OC PUBLIC WORKS

PREPARED BY: **CEHR / PFER**

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- Walnut Creek, CA
- Roseville, CA
- San Jose, CA
- San Francisco, CA
- San Diego, CA
- Salt Lake City, UT
- Reno, NV
- Denver, CO

Los Angeles County, CA
Los Angeles County, CA

**DANA POINT HARBOR
DANA POINT, CA**

CASITAS PL & DANA POINT HARBOR CONDUCTOR & EQUIPMENT SCHEDULES

Sheet
Reference
Number

TS2

Sheet 19 of 30