

EAS FILE COMP. REV. INCH. CA
C220.4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER

DATE 9-00

REVISOR BY

DATE

CHECKED BY

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CONDUCTOR AND CONDUIT SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	1	2	3	4	5	6	7
12-CSC	VEHICLE	2	3	4	5	1	2	7
3-CSC	PPB	—	—	—	—	—	—	—
#10	LUMINAIRES	2	2	2	2	2	2	—
#6	SIGNAL SERVICE	—	—	—	—	—	—	2
DLC	01 DETECTOR	—	—	—	1	—	—	1
	02 DETECTOR	3	3	3	3	—	—	3
	03 DETECTOR	—	—	—	—	—	—	—
	04 DETECTOR	—	—	—	—	3	—	3
	05 DETECTOR	1	1	1	1	—	—	1
	06 DETECTOR	—	—	—	3	—	—	3
	07 DETECTOR	—	—	—	—	—	—	—
	08 DETECTOR	—	5	5	5	—	—	5
TOTAL DLC		4	9	9	13	0	3	16
CONDUIT SIZE		3" (78mm)	3" (78mm)	3" (78mm)	2" Exst. (53mm) 1-3" New (78mm)	2" Exst. (53mm)	3" (78mm)	2-3" Exst. (78mm)

BOLD = NEW

CONSTRUCTION NOTES

1

INSTALL TYPE 1 PED. BARRICADE PER CALTRANS STD. ES-7P.

2

PROVIDE AND INSTALL ALUMINUM SPICE CABINET AND FOUNDATION PER DETAIL F. PULL EXISTING SIC FROM CONTROLLER INTO NEW SPICE CABINET.

3

PROVIDE AND INSTALL #5 P.B. FOR FUTURE POLE.

4

PROVIDE AND INSTALL CONDUIT AS INDICATED.

5

REMOVE EXISTING PULLBOX AND PROVIDE AND INSTALL #6 P.B.

6

CONSTRUCT NEW TRAFFIC SIGNAL FOUNDATION.

7

SPICE DETECTOR LOOPS TO EXISTING DLC'S.

8

REMOVE EXISTING POLE, MASTARMS, INDICATIONS AND FOUNDATION.

9

REMOVE EXISTING SIGN.

10

PROVIDE AND INSTALL SIGN AND MOUNTING HARDWARE AS INDICATED.

11

PROVIDE AND INSTALL NEW CONDUCTORS PER SCHEDULE.

12

PROVIDE AND INSTALL DETECTOR LOOPS.

13

MODIFY TRAFFIC SIGNAL CABINET ASSEMBLY FOR DETECTION AND OPERATION AS INDICATED.

14

PROVIDE AND INSTALL POLE, MASTARMS, INDICATIONS, SIGNS AND LUMINAIRE PER SCHEDULE.

PROPOSED PHASE DIAGRAM

POLE AND EQUIPMENT SCHEDULE

No.	TYPE	SIG. M.A.	LUM. M.A.	VEH. SIG. M.T.G.	MAST ARM	POLE	PED. SIGNAL		PPB	HPS LUMINAIRE	SPECIAL REQUIREMENTS
							MTG	Ø			
1	I-A (N)	—	—	—	—	TV-T (N)	—	—	—	—	—
2	I-4-70	25' (7.6m)	12' (3.6m)	2 MAS	SV-T	—	—	—	200 W	—	—
3	I-A (N)	—	—	—	—	TV-T (N)	—	—	—	—	—
4	I-4-70	25' (7.6m)	12' (3.6m)	2 MAS	SV-T	—	—	—	200 W	—	—
5	I-A	—	—	—	—	TV-T (N)	—	—	—	—	—
6	I-4-70	25' (7.6m)	12' (3.6m)	2 MAS	SV-T	—	—	—	200 W	—	—
7	I-A	—	—	—	—	TV-T (N)	—	—	—	—	—
8	I-4-70	25' (7.6m)	12' (3.6m)	2 MAS	SV-T	—	—	—	200 W	—	—
9	I-A	—	—	—	—	TV-T (N)	—	—	—	—	—

ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED.
(N) = NEW (NOTE: COUNTY MAY PROVIDE THIS EQUIPMENT TO CONTRACTOR FOR INSTALLATION)

GENERAL NOTES

1

NEW TRAFFIC SIGNALS AND LIGHTING SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS, SECTION 86, AND STANDARD PLANS DATED JULY, 1999.

2

LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND SHALL VERIFY ALL CONDITIONS ON THE JOB SITE. FOUNDATIONS SHALL BE HAND DUG UNTIL CLEAR OF ALL OBSTRUCTIONS. CONTRACTOR SHALL TELEPHONE UNDERGROUND SERVICE ALERT (USA) AT 800-422-4133 FOR MARKING OF UTILITIES PRIOR TO ANY WORK. POT HOLE REQUIRED FOR UTILITIES SHOWN OR NOT SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE COSTS FOR SAME SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR TRAFFIC SIGNALS AND LIGHTING.

3

ALL VEHICLE INDICATIONS SHALL BE 12" (300mm) WITH GLASS LENSES & REFLECTORS. NEW PULLBOXES SHALL BE #5, AND NEW CONDUIT SHALL BE RIGID METAL UNLESS INDICATED OTHERWISE ON PLANS.

4

ALL NEW LOOPS SHALL BE 6" CIRCULAR (TYPE E) (18mm) WITH 9" (227mm) SPACING IN THE DIRECTION OF TRAVEL AND CENTERED IN THE TRAVEL LANE, EXCEPT AS SHOWN. NEW LIMIT LINE LOOPS SHALL EXTEND 2' (0.61m) PAST THE LIMIT LINE. LOOPS SHALL BE SPICED IN SERIES.

5

CONTRACTOR SHALL OBTAIN APPROVAL FOR ALL EQUIPMENT LOCATIONS PRIOR TO PLACEMENT. CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL TRAFFIC STRIPING PRIOR TO DETERMINING LOOP DETECTOR LOCATIONS.

6

EXISTING TRAFFIC SIGNAL AND STREET LIGHTING SHALL REMAIN IN PLACE AND IN OPERATION UNTIL NEW TRAFFIC SIGNAL SYSTEM IS OPERATIONAL. CONTRACTOR SHALL INSTALL TEMPORARY CONDUCTORS.

7

ALL NEW TRAFFIC SIGNAL EQUIPMENT, LOOPS, AND CONDUCTORS SHALL BE INSTALLED PER THIS PLAN, AND THE SPECIAL PROVISIONS.

8

THE INTERSECTION SHALL BE RESTRIPTED PER THE STRIPING PLAN PRIOR TO OPERATION OF THE TRAFFIC SIGNALS. ANY EXISTING TRAFFIC CONTROLS OR MARKINGS IN CONFLICT WITH THE STRIPING PLAN OR THE TRAFFIC SIGNAL PLAN, INCLUDING STOP BARS, STOP SIGNS, AND LEGENDS, SHALL BE REMOVED BY THE CONTRACTOR BY WET SANDBLASTING.

DETAIL F

INTERCONNECT SPICE CABINET

NOTES - DETAIL F

1

FOUNDATION TO BE 560 mm X 560 mm. ANCHOR BOLT PLACEMENT PER CABINET MFG. TEMPLATE.

2

ENCLOSURE SHALL BE ALUMINUM AND FURNISHED WITH A DETACHABLE MOUNTING BASE.

3

ALL FACTORY INSTALLED COMPONENTS SHALL BE U.L. LISTED OR PER PUBLISHED N.E.C. STANDARDS.

4

19 mm CONSTRUCTION GRADE PLYWOOD PANEL SHALL BE FASTENED TO THE REAR WALL PANEL SHALL BE 300 mm X 400 mm AND SHALL HAVE A NO. 25 AND #1-841 STAPLER FASTENED IN THE CENTER OF THE PANEL.

5

ENCLOSURE FINISH SHALL CONFORM TO A.S.T.M. B-111 PAINT TO BE APPLIED TO EXTERNAL AND INTERNAL SURFACES SHALL BE WHITE. ANTI-GRITTY ORIGINALS SAND 5 SERIES 20. APPROVED EQUAL ANTI-GRITTY PAINTS SHALL BE APPLIED TO CABINET AT THE TIME OF MANUFACTURE.

6

PROVIDE 40 mm CONDUIT FOR FUTURE 115 VAC SERVICE.

7

PROVIDE GROUND BUS INSIDE SPICE CABINET.

TRAFFIC SIGNAL PLAN

CARBON CANYON ROAD / LAMBERT ROAD AT VALENCIA AVE.

SCALE: 1" = 20'

PERMIT # 1200-NRW-0692

CALTRANS - TRAFFIC

SUBMITTED BY

REVIEWED BY

APPROVAL RECOMMENDED BY

DATE

11/30/00

FORM DC-08-92-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

0 2 3

CU 00000

EA 000000

ECW 5002

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