CONDUCTOR TABLE

AWG	CIRCUIT	RUNS 1	2	3	4	5	6
#14	ø1	–	–	3	3	6	6
	ø2	–	–	3	3	3	3
	ø4	–	3	–	–	3	6
	ø5	3	3	3	3	6	6
	ø6	–	–	–	–	3	3
	ø8	–	–	3	3	6	6
	ø2 PED	–	–	2	2	2	2
	ø4 PED	–	2	2	2	4	4
	ø6 PED	2	2	–	–	4	4
	ø8 PED	–	–	–	2	2	4
	• ø2 PPB/BPB	–	–	1/–	1/1	1/1	1/1
	ø4 PPB/BPB	1/–	1/–	1/1	1/1	2/1	2/1
	ø6 PPB/BPB	–/1	1/1	–	–	1/1	2/1
	ø8 PPB/BPB	–	–	–	1/–	1/–	1/1
	PPB COMMON	1	1	1	1	2	2
	SPARES	3	3	3	3	6	6
	TOTAL	11	17	20	27	55	62
TYPE C DLC	ø1 DETECTOR	2	2	–	–	2	2
	ø2 DETECTOR	–	–	–	2	2	2
	ø4 DETECTOR	–	–	2	2	2	2
	ø5 DETECTOR	–	–	–	–	2	2
	ø6 DETECTOR	2	2	–	–	2	2
	ø8 DETECTOR	–	–	–	–	–	3
	TOTAL	4	4	2	4	10	13
#10	LUMINAIRE	–	2	2	2	2	–
	SIGNAL COMMON	1	1	1	1	2	2
	TOTAL	1	3	3	3	4	2
#12	I.S.N.S.	–	2	2	2	2	–
#8	SIGNAL SERVICE	–	–	–	–	–	–
CONDUIT SIZE		2"	2 1/2"	3"	2-2 1/2"	2–3"	2–3"

• = INSTALL CONDUCTORS FOR FUTURE
BPB = BIKE PUSH BUTTON

EXISTING DETECTOR SCHEDULE

SENSOR	CHANNEL	LOOP DETECTOR
1	1 ▲	1–ø6
	2 ●	1–ø6
2	1 ▲	1–ø2
	2 ●	1–ø2
3	1 ▲	1–ø8
	2 ●	1–ø8
4	1	1–ø1
	2	2–ø1 (F)
	3	2–ø6
	4	SPARE
5	1	1–ø5
	2	2–ø5 (F)
	3	2–ø2
	4	SPARE
6	1	2–ø8 (EX. 1–ø3)
	2	3–ø8 (EX. 2–ø8)
	3	1–ø4
	4	2–ø4 (EX. 1–ø7)

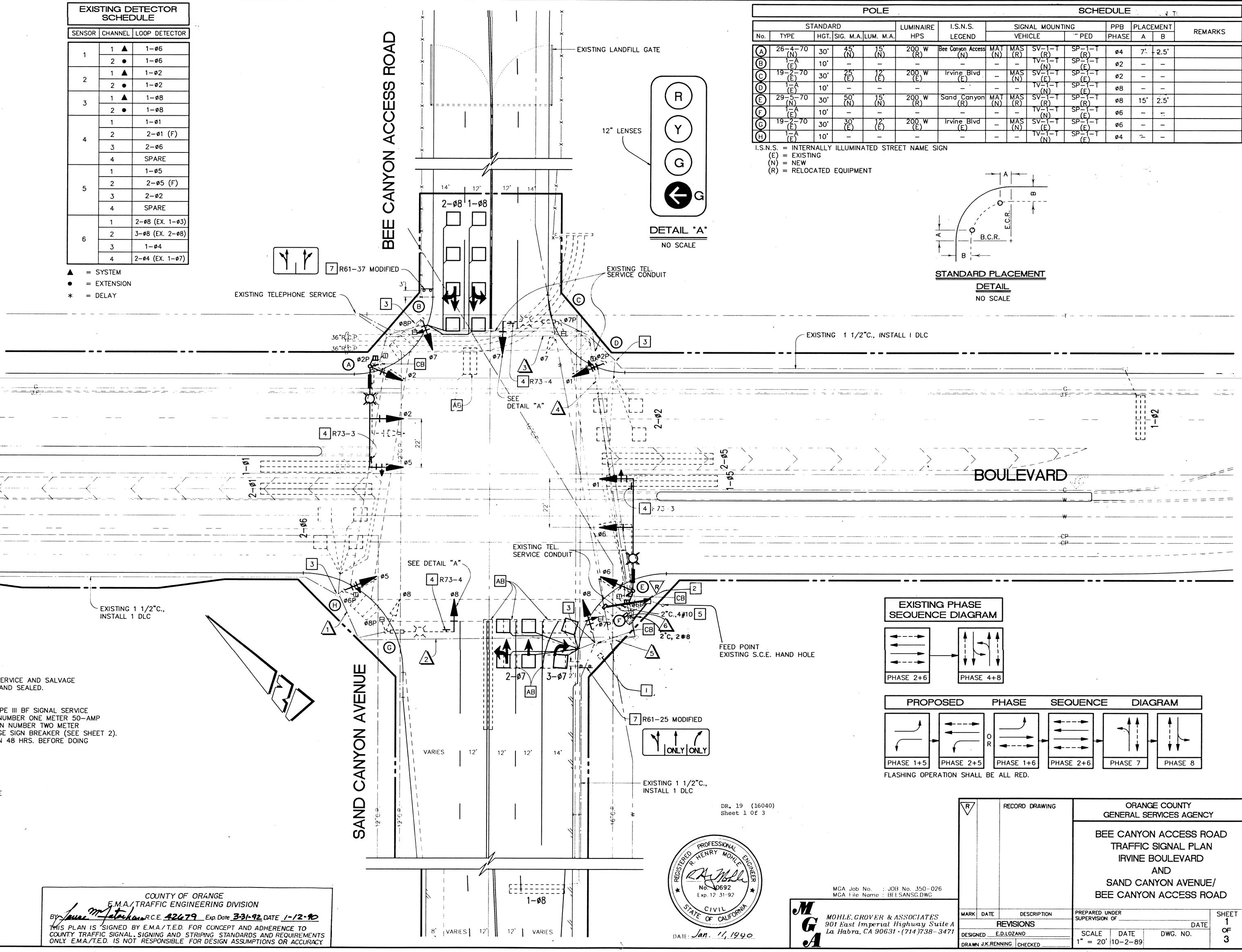
▲ = SYSTEM
● = EXTENSION
* = DELAY

POLE SCHEDULE

No.	STANDARD TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUMINAIRE HPS	I.S.N.S. LEGEND	SIGNAL MOUNTING VEHICLE			PED	PPB PHASE	PLACEMENT A	B	REMARKS
A	26–4–70 (N)	30'	45' (N)	15' (N)	200 W (R)	Bee Canyon Access (N)	MAT (N)	MAS (R)	SV–1–T (R)	SP–1–T (R)	ø4	7'	2.5'	
B	1–A (E)	10'	–	–	–	–	–	–	TV–1–T (N)	SP–1–T (E)	ø2	–	–	
C	19–2–70 (E)	30'	25' (E)	12' (E)	200 W (E)	Irvine Blvd (E)	–	MAS (N)	SV–1–T (E)	SP–1–T (E)	ø2	–	–	
D	1–A (E)	10'	–	–	–	–	–	–	TV–1–T (N)	SP–1–T (E)	ø8	–	–	
E	29–5–70 (N)	30'	50' (N)	15' (N)	200 W (R)	Sand Canyon (R)	MAT (N)	MAS (R)	SV–1–T (R)	SP–1–T (R)	ø8	15'	2.5'	
F	1–A (E)	10'	–	–	–	–	–	–	TV–1–T (N)	SP–1–T (E)	ø6	–	–	
G	19–2–70 (E)	30'	30' (E)	12' (E)	200 W (E)	Irvine Blvd (E)	–	MAS (N)	SV–1–T (E)	SP–1–T (E)	ø6	–	–	
H	1–A (E)	10'	–	–	–	–	–	–	TV–1–T (N)	SP–1–T (E)	ø4	–	–	

I.S.N.S. = INTERNALLY ILLUMINATED STREET NAME SIGN
(E) = EXISTING
(N) = NEW
(R) = RELOCATED EQUIPMENT

STANDARD PLACEMENT DETAIL
NO SCALE



EXISTING PHASE SEQUENCE DIAGRAM

PROPOSED PHASE SEQUENCE DIAGRAM

FLASHING OPERATION SHALL BE ALL RED.

CONSTRUCTION NOTES (THIS SHEET):

1. REMOVE EXISTING TYPE II MODIFIED 120/240 VOLT SIGNAL SERVICE AND SALVAGE TO COUNTY. EXTERIOR CABINET WALLS SHALL BE PLUGGED AND SEALED. REPAINT ENTIRE EXTERIOR SURFACE IN "PORCELAIN" WHITE.
2. INTERCEPT EXISTING SERVICE CONDUIT AND INSTALL NEW TYPE III BF SIGNAL SERVICE WITH PROVISIONS FOR TWO 100–AMP METERS. INSTALL ON NUMBER ONE METER 50–AMP SIGNAL BREAKER AND 15–AMP I.S.N.S. BREAKER. INSTALL ON NUMBER TWO METER 30–AMP LIGHTING BREAKER AND 20–AMP VARIABLE MESSAGE SIGN BREAKER (SEE SHEET 2). CONTRACTOR SHALL CONTACT SOUTHERN CALIFORNIA EDISON 48 HRS. BEFORE DOING ANY WORK ON SERVICE CABINETS.
3. COIL 10' OF CONDUCTOR IN PULL BOX FOR FUTURE BPB.
4. INSTALL SIGN (4 EA.).
5. INSTALL CONDUIT AND CONDUCTORS FOR VARIABLE MESSAGE SIGNS (SEE SHEET 2).
6. FOR STRIPING MODIFICATIONS ON SAND CANYON AVENUE / BEE CANYON ACCESS ROAD (SHEET 3).
7. INSTALL SIGN AND POSTS.
8. MODIFY CONTROLLER AND DETECTOR WIRING FOR SPLIT PHASE OPERATION.

Underground Service Alert
Call TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

COUNTY OF ORANGE
E.M.A./TRAFFIC ENGINEERING DIVISION
BY James M. Fitzhugh R.C.E. 42679 Exp. Date 3-31-92 DATE 1-12-90
THIS PLAN IS SIGNED BY E.M.A./T.E.D. FOR CONCEPT AND ADHERENCE TO COUNTY TRAFFIC SIGNAL, SIGNING AND STRIPING STANDARDS AND REQUIREMENTS ONLY. E.M.A./T.E.D. IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS OR ACCURACY

DR. 19 (16040)
Sheet 1 Of 3

REGISTERED PROFESSIONAL ENGINEER
R. HENRY MOHLE
No. 10692
Exp. 12-31-92
CIVIL
STATE OF CALIFORNIA
DATE: Jan. 11, 1990

MGA Job No. : JOB No. 350–026
MGA File Name : BEESANSC.DWG

MOHLE, GROVER & ASSOCIATES
901 East Imperial Highway Suite A
La Habra, CA 90631 · (714)738–3471

MARK	DATE	DESCRIPTION
		REVISIONS

DESIGNED E.D.LOZANO
DRAWN J.K.RENNING CHECKED

R — RECORD DRAWING

ORANGE COUNTY
GENERAL SERVICES AGENCY

BEE CANYON ACCESS ROAD
TRAFFIC SIGNAL PLAN
IRVINE BOULEVARD
AND
SAND CANYON AVENUE/
BEE CANYON ACCESS ROAD

PREPARED UNDER SUPERVISION OF _____ DATE _____

SCALE	DATE	DWG. NO.	SHEET
1" = 20'	10–2–89		1 OF 3

DR 19 / 16040