POLE SCHEDULE

NO.	STANDARD TYPE	HEIGHT	SIG. M.A.	LUM. M.A.	LUMINAIRE	I.S.N.S. LEGEND	SIGNAL MTG. VEHICLE	SIGNAL MTG. PED		REMARKS	POLE LOCATION A	POLE LOCATION B
(1)	24-4-70	30'	35'	12'	200 HPSV	KNOTT (R)	2 MAS	SV-1-T	SP-1-T		13.5'	2.5'
(2)	1-A	10'						TV-1-T	SP-1-T	INSTALL ON EX. FOUNDATION	10'	2.5'
(3)	26-4-70	30'	45'	15'	200 HPSV(R)	LAMPSON (R)	2 MAS	SV-1-T	SP-1-T		15'	6'
(4)	1-A	10'						TV-1-T	SP-1-T		14'	2.5'
(5)	24-4-70	30'	35'	12'	200 HPSV	KNOTT (R)	2 MAS	SV-1-T	SP-1-T		9'	2.5'
(6)	1-A	10'						TV-1-T	SP-1-T		14'	5'
(7)	26-4-70	30'	45'	15'	200 HPSV(R)	LAMPSON (R)	2 MAS	SV-1-T	SP-1-T		12.5'	2.5'
(8)	1-A	10'						TV-1-T	SP-1-T	INSTALL ON EX. FOUNDATION	9'	2.5'

ALL EQUIPMENT IS NEW EXCEPT AS NOTED (R) = RELOCATE

SENSOR TABLE

SENSOR	CHANNEL	DETECTOR	OPTION
1	1	I-52-C	EXTENSION
	2	I-52-C	●
2	1	I-56-C	EXTENSION
	2	I-56-C	●
3	1	I-56-P	
4	1	I-61-P	
5	1	I-52-P	
6	1	I-55-P	
7	1	I-54-P	
8	1	I-57-P	
9	1	I-58-P	
10	1	I-53-P	
11	1	I-64-C	EXTENSION
	2	I-64-C	●
12	1	I-66-C	EXTENSION
	2	I-66-C	●

● OUTPUT TO COMPUTER

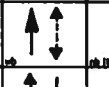
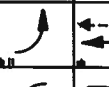
NOTE: DETECTOR CABLE SHALL BE IN 1-CHANNEL CONFIGURATION FOR SENSORS 3,4,5,6,7,8,9,10 AND IN 2-CHANNEL CONFIGURATION FOR SENSORS 1,2,11,12

CONDUCTOR SCHEDULE

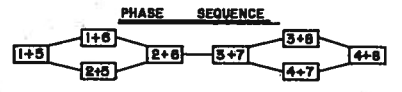
AWG	CIRCUIT	RUNS 1	2	3	4	5	6	7
#14	Ø1			3	3	3	3	3
	Ø2	3	(3)					(6)
	Ø3	3		3	3	3	3	6
	Ø4					(3)	3	3
	Ø5	3	3					6
	Ø6			(3)	3	3	3	3
	Ø7						3	3
	Ø8	(3)		3	3	3	3	(6)
	Ø2P	2		2	2	2	2	4
	Ø4P	2					2	4
	Ø6P		2		2	2	2	4
	Ø8P			2	2	2	2	2
	Ø2PPB	1		1	1	1	1	2
	Ø4PPB	1	1					2
	Ø6PPB					1	1	1
	Ø8PPB			1	1	1	1	1
	PPB COM	1	1	1	1	1	1	3
	SPARES	3	3	3	3	3	3	9
	TOTAL	22	15	28	24	31	33	68
#12	LEAD	1		1	1	1	1	2
#10	SIG COM	1		1	1	1	1	3
	LUMINAIRE	2		2	2	2	2	4
	TOTAL	3	1	3	3	3	3	7
D.L.C. 4#8 CABLE	I-Ø1-P		1					1
	I-Ø6-P		1					1
	I-Ø5-P			1	1	1	1	1
	I-Ø2-P							1
	I-Ø7-P	1						1
	I-Ø4-P	1						1
	I-Ø4-C							1
	I-Ø3-P					1	1	1
	I-Ø8-P					1	1	1
	I-Ø6-C					1	1	1
	I-Ø8-C	1						1
	I-Ø2-C			1	1	1	1	1
	TOTAL	3	3	3	3	6	6	12
CONDUIT SIZE		2"	2"	2"	2"	2"	2"	(2-1")

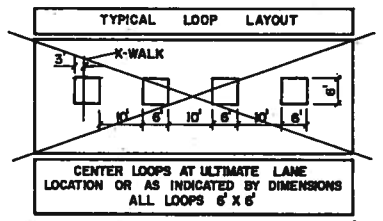
ALL MAIN CONDUIT RUNS ARE EXISTING EXCEPT RUN 7
ALL CONDUCTORS SHALL BE NEW.

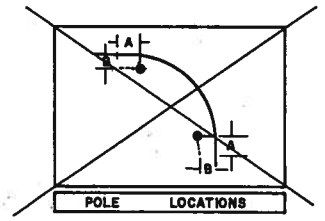
PHASE DIAGRAM

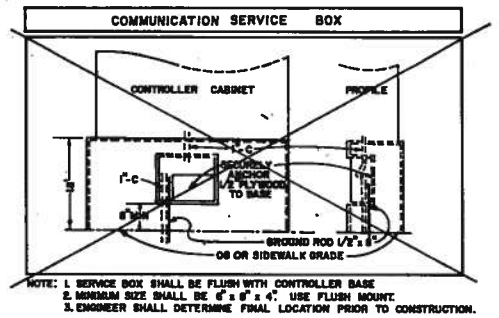
Ø1	Ø2	Ø3	Ø4
			
Ø5	Ø6	Ø7	Ø8

PHASE SEQUENCE

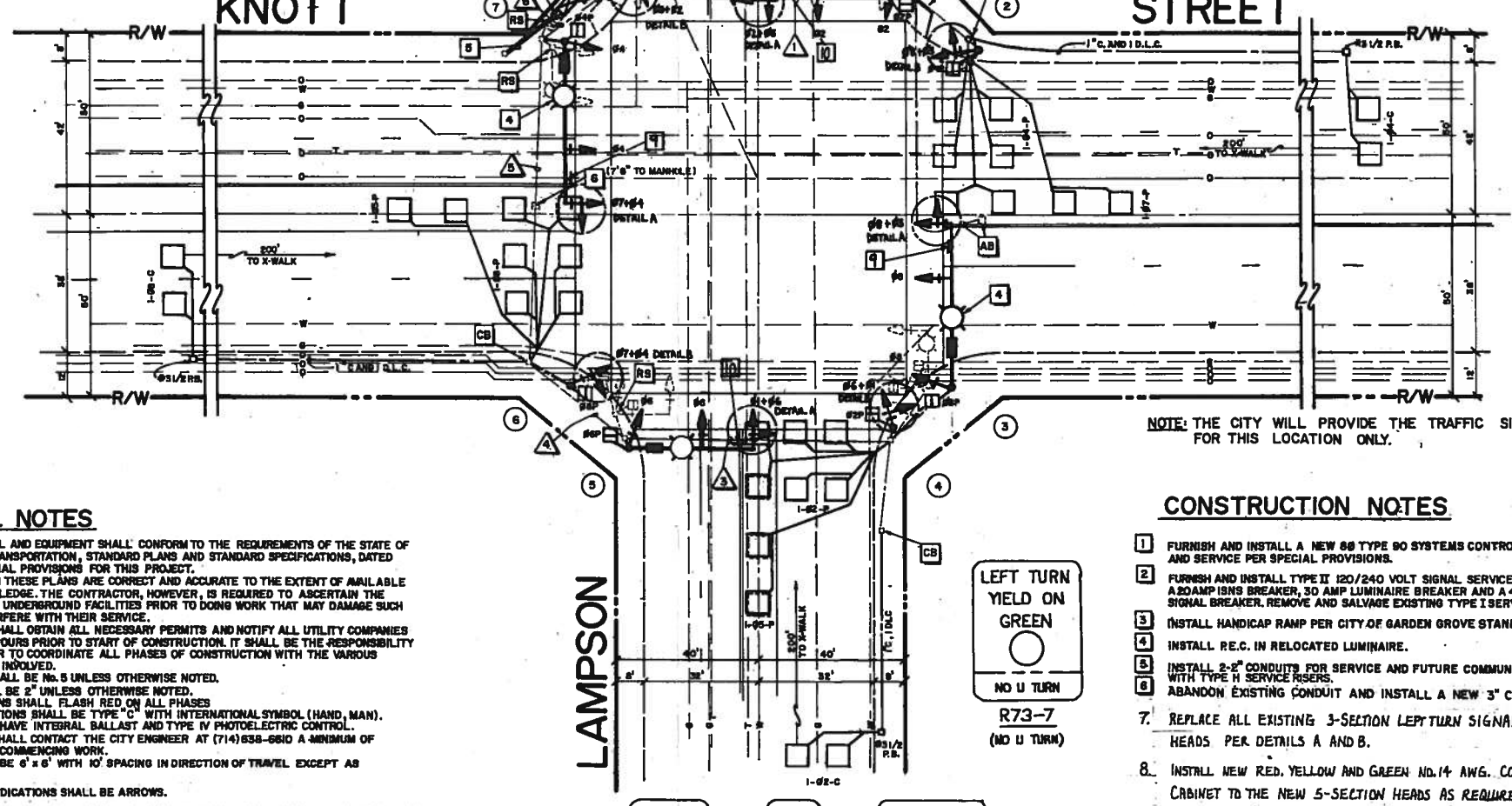








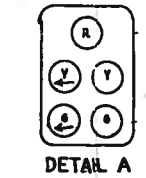
NOTE: 1. SERVICE BOX SHALL BE FLUSH WITH CONTROLLER BASE
2. MINIMUM SIZE SHALL BE 6" x 8" x 4". USE FLUSH MOUNT.
3. ENGINEER SHALL DETERMINE FINAL LOCATION PRIOR TO CONSTRUCTION.

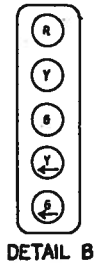


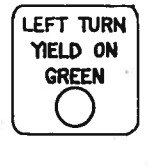
NOTE: THE CITY WILL PROVIDE THE TRAFFIC SIGNAL HEADS REQUIRED FOR THIS LOCATION ONLY.

GENERAL NOTES

1. ALL WORK, MATERIAL AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIF., DEPT. OF TRANSPORTATION, STANDARD PLANS AND STANDARD SPECIFICATIONS, DATED 1984 AND 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.
4. ALL PULLBOXES SHALL BE No. 5 UNLESS OTHERWISE NOTED.
5. ALL CONDUIT SHALL BE 2" UNLESS OTHERWISE NOTED.
6. FLASHING INDICATIONS SHALL FLASH RED ON ALL PHASES
7. PEDESTRIAN INDICATIONS SHALL BE TYPE "C" WITH INTERNATIONAL SYMBOL (HAND, MAN).
8. LUMINAIRES SHALL HAVE INTEGRAL BALLAST AND TYPE IV PHOTOELECTRIC CONTROL.
9. THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER AT (714) 538-6810 A MINIMUM OF 48 HOURS BEFORE COMMENCING WORK.
10. ALL LOOPS SHALL BE 6' x 6' WITH 10' SPACING IN DIRECTION OF TRAVEL EXCEPT AS NOTED ON PLAN.
11. ALL LEFT TURN INDICATIONS SHALL BE ARROWS.
12. THE EXACT LOCATION OF ALL POLES, STANDARDS AND DETECTOR LOOPS SHALL BE DETERMINED BY THE TRAFFIC ENGINEER.
13. EXISTING ILLUMINATED STREET NAME SIGNS SHALL BE INSTALLED ON THE MAST-ARM OF THE NEW POLES.
14. ALL BROKEN, CRACKED OR CHIPPED PULLBOX LIDS SHALL BE REPLACED PER THE SPECIAL PROVISIONS.
15. EACH CONDUCTOR IN EACH PULLBOX SHALL BE IDENTIFIED AS DETAILED IN THE CONDUCTOR TABLE WITH A PERMANENT IDENTIFICATION BAND IN PULLBOXES AND NEAR THE END OF EACH CONDUCTOR WHERE CONDUCTORS ARE TERMINATED.
16. ALL SPARES SHALL TERMINATE AT THE SIGNAL PULL BOXES AND IN THE CONTROLLER CABINET. SPARES SHALL BE TAPED ON THE END AND BE CONTINUOUS.
17. ALL EXISTING UNDERGROUND CONDUIT TO BE INCORPORATED INTO THE NEW SYSTEM SHALL BE CLEANED PER THE STANDARD SPECIFICATIONS AND NEW CONDUCTORS SHALL BE SUPPLIED INTO THE EXISTING CONDUIT RUNS.







CONSTRUCTION NOTES

1. FURNISH AND INSTALL A NEW 68 TYPE 90 SYSTEMS CONTROLLER, CABINET AND SERVICE PER SPECIAL PROVISIONS.
2. FURNISH AND INSTALL TYPE II 120/240 VOLT SIGNAL SERVICE WITH A 20 AMP ISNS BREAKER, 30 AMP LUMINAIRE BREAKER AND A 40 AMP SIGNAL BREAKER. REMOVE AND SALVAGE EXISTING TYPE I SERVICE.
3. INSTALL HANDICAP RAMP PER CITY OF GARDEN GROVE STANDARD PLAN B-127.
4. INSTALL R.E.C. IN RELOCATED LUMINAIRE.
5. INSTALL 2-2" CONDUITS FOR SERVICE AND FUTURE COMMUNICATION INTERCONNECT WITH TYPE H SERVICE RISERS.
6. ABANDON EXISTING CONDUIT AND INSTALL A NEW 3" CONDUIT AND CONDUCTORS.
7. REPLACE ALL EXISTING 3-SECTION LEFT TURN SIGNAL HEADS WITH NEW 5-SECTION HEADS PER DETAILS A AND B.
8. INSTALL NEW RED, YELLOW AND GREEN NO.14 AWG. CONDUCTORS FROM THE CONTROLLER CABINET TO THE NEW 5-SECTION HEADS AS REQUIRED FOR PROPER OPERATION. SEE CONDUCTOR SCHEDULE RUNS MARKED THUSLY ☐.
9. INSTALL R73-7 "LEFT TURN YIELD ON GREEN BALL" SIGN (36"x 36"). (REMOVE EXISTING SIGN)
10. INSTALL R73-7 "LEFT TURN YIELD ON GREEN BALL – NO U TURN" SIGN. (REMOVE EXISTING SIGN.)

*REVISED: P.P.L.T. 5-99

Eric D. Darnell, DESIGN ENGINEER R.C.E. No. 22338, 7-24-25 DATE	CITY OF GARDEN GROVE	SCALE 1" = 20'
BASMACIYAN-DARNELL, INC. 4262 CAMPUS DR. SUITE B-1 NEWPORT BEACH, CALIF. (714) 852-1006	TRAFFIC SIGNAL MODIFICATION KNOTT STREET AT LAMPSON AVENUE	DRAWING NUMBER T-667 SHEET 2 OF 3