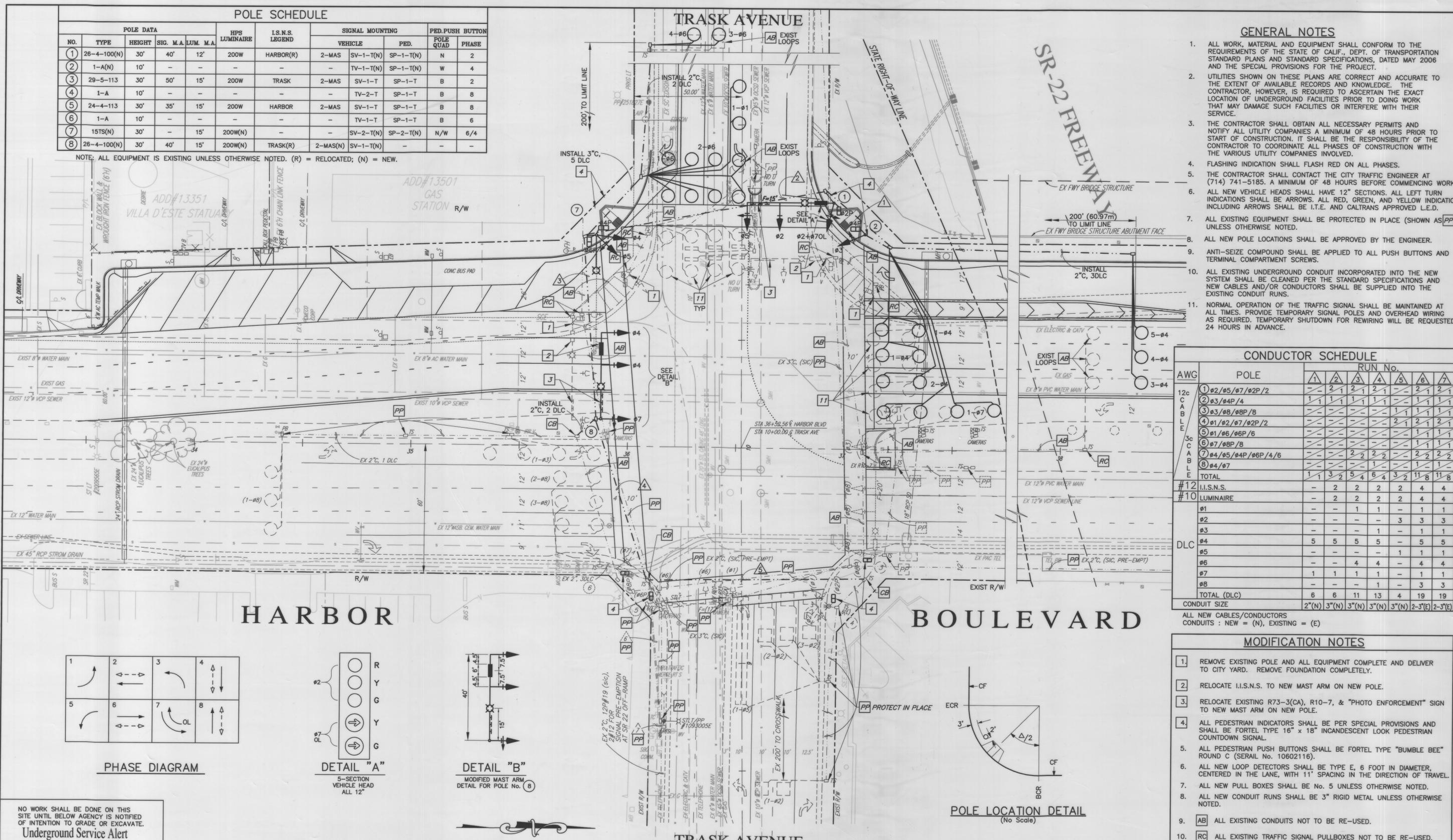


POLE SCHEDULE											
NO.	POLE DATA			HPS LUMINAIRE	I.S.N.S. LEGEND	SIGNAL MOUNTING			PED. PUSH BUTTON		
	TYPE	HEIGHT	SHG. M.A.			LUM. M.A.	VEHICLE	PED.	POLE QUAD	PHASE	
1	26-4-100(N)	30'	40'	12'	200W	HARBOR(R)	2-MAS	SV-1-T(N)	SP-1-T(N)	N	2
2	1-A(N)	10'	-	-	-	-	-	TV-1-T(N)	SP-1-T(N)	W	4
3	29-5-113	30'	50'	15'	200W	TRASK	2-MAS	SV-1-T	SP-1-T	B	2
4	1-A	10'	-	-	-	-	-	TV-2-T	SP-1-T	B	8
5	24-4-113	30'	35'	15'	200W	HARBOR	2-MAS	SV-1-T	SP-1-T	B	8
6	1-A	10'	-	-	-	-	-	TV-1-T	SP-1-T	B	6
7	15TS(N)	30'	-	15'	200W(N)	-	-	SV-2-T(N)	SP-2-T(N)	N/W	6/4
8	26-4-100(N)	30'	40'	15'	200W(N)	TRASK(R)	2-MAS(N)	SV-1-T(N)	-	-	-

NOTE: ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED. (R) = RELOCATED; (N) = NEW.

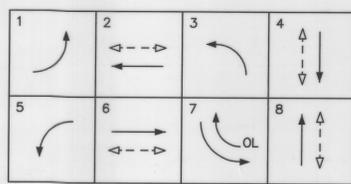


- ### GENERAL NOTES
- ALL WORK, MATERIAL AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIF., DEPT. OF TRANSPORTATION STANDARD PLANS AND STANDARD SPECIFICATIONS, DATED MAY 2006 AND THE SPECIAL PROVISIONS FOR THE PROJECT.
  - UTILITIES SHOWN ON THESE PLANS ARE CORRECT AND ACCURATE TO 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.
  - 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.
  - FLASHING INDICATION SHALL FLASH RED ON ALL PHASES.
  - THE CONTRACTOR SHALL CONTACT THE CITY TRAFFIC ENGINEER AT (714) 741-5185. A MINIMUM OF 48 HOURS BEFORE COMMENCING WORK.
  - ALL NEW VEHICLE HEADS SHALL HAVE 12" SECTIONS. ALL LEFT TURN INDICATIONS SHALL BE ARROWS. ALL RED, GREEN, AND YELLOW INDICATIONS INCLUDING ARROWS SHALL BE I.T.E. AND CALTRANS APPROVED L.E.D.
  - ALL EXISTING EQUIPMENT SHALL BE PROTECTED IN PLACE (SHOWN AS PP) UNLESS OTHERWISE NOTED.
  - ALL NEW POLE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
  - ANTI-SEIZE COMPOUND SHALL BE APPLIED TO ALL PUSH BUTTONS AND TERMINAL COMPARTMENT SCREWS.
  - ALL EXISTING UNDERGROUND CONDUIT INCORPORATED INTO THE NEW SYSTEM SHALL BE CLEANED PER THE STANDARD SPECIFICATIONS AND NEW CABLES AND/OR CONDUCTORS SHALL BE SUPPLIED INTO THE EXISTING CONDUIT RUNS.
  - NORMAL OPERATION OF THE TRAFFIC SIGNAL SHALL BE MAINTAINED AT ALL TIMES. PROVIDE TEMPORARY SIGNAL POLES AND OVERHEAD WIRING AS REQUIRED. TEMPORARY SHUTDOWN FOR REWIRING WILL BE REQUESTED 24 HOURS IN ADVANCE.

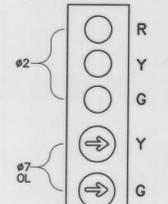
CONDUCTOR SCHEDULE											
AWG	POLE	RUN No.									
		1	2	3	4	5	6	7			
12c	1 #2/05/07/02P/2	-	2	1	2	1	-	2	1	2	
C	2 #3/04P/4	1	1	1	1	1	-	1	1	1	
A	3 #3/08/08P/8	-	-	-	-	-	1	1	1	1	
B	4 #1/02/07/02P/2	-	-	-	-	-	2	1	2	1	
L	5 #1/06/06P/6	-	-	-	-	-	-	1	1	1	
3c	6 #7/08P/8	-	-	-	-	-	-	1	1	1	
A	7 #4/05/04P/06P/4/6	-	-	-	2	2	-	2	2	2	
B	8 #4/07	-	-	-	1	-	-	1	-	1	
L	TOTAL	1	1	3	5	4	6	4	3	11	8
#12	I.I.S.N.S.	-	2	2	2	2	2	4	4	4	
#10	LUMINAIRE	-	2	2	2	2	4	4	4	4	
DLC	#1	-	-	1	1	-	-	1	1	1	
	#2	-	-	-	-	3	3	3	3	3	
	#3	-	-	-	-	1	-	1	1	1	
	#4	-	-	-	-	5	5	-	5	5	
	#5	-	-	-	-	-	-	1	1	1	
	#6	-	-	-	-	4	4	-	4	4	
	#7	-	-	1	1	1	1	-	1	1	
	#8	-	-	-	-	1	-	-	3	3	
	TOTAL (DLC)	6	6	11	13	4	19	19	19		
CONDUIT SIZE		2"(N) 3"(N) 3"(N) 3"(N) 3"(N) 2-3"(E) 2-3"(E)									

ALL NEW CABLES/CONDUCTORS  
CONDUITS : NEW = (N), EXISTING = (E)

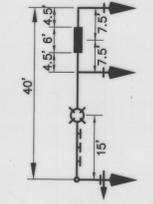
- ### MODIFICATION NOTES
- REMOVE EXISTING POLE AND ALL EQUIPMENT COMPLETE AND DELIVER TO CITY YARD. REMOVE FOUNDATION COMPLETELY.
  - RELOCATE I.I.S.N.S. TO NEW MAST ARM ON NEW POLE.
  - RELOCATE EXISTING R73-3(CA), R10-7, & "PHOTO ENFORCEMENT" SIGN TO NEW MAST ARM ON NEW POLE.
  - ALL PEDESTRIAN INDICATORS SHALL BE PER SPECIAL PROVISIONS AND SHALL BE FORTEL TYPE 16" x 18" INCANDESCENT LOOK PEDESTRIAN COUNTDOWN SIGNAL.
  - ALL PEDESTRIAN PUSH BUTTONS SHALL BE FORTEL TYPE "BUMBLE BEE" ROUND C (SERIAL No. 10602116).
  - ALL NEW LOOP DETECTORS SHALL BE TYPE E, 6 FOOT IN DIAMETER, CENTERED IN THE LANE, WITH 11' SPACING IN THE DIRECTION OF TRAVEL.
  - ALL NEW PULL BOXES SHALL BE No. 5 UNLESS OTHERWISE NOTED.
  - ALL NEW CONDUIT RUNS SHALL BE 3" RIGID METAL UNLESS OTHERWISE NOTED.
  - AB ALL EXISTING CONDUITS NOT TO BE RE-USED.
  - RC ALL EXISTING TRAFFIC SIGNAL PULLBOXES NOT TO BE RE-USED.
  - AB EXISTING TRAFFIC AND REDLIGHT CAMERA ENFORCEMENT LOOPS.



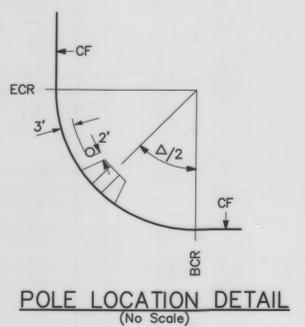
PHASE DIAGRAM



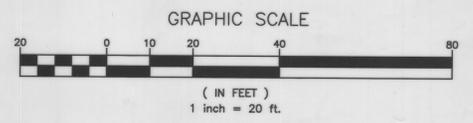
DETAIL "A"  
5-SECTION VEHICLE HEAD ALL 12"



DETAIL "B"  
MODIFIED MAST ARM  
DETAIL FOR POLE No. 8



POLE LOCATION DETAIL  
(No Scale)



NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.  
**Underground Service Alert**  
Call: TOLL FREE  
**1-800-422-4133**  
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK:	DESIGNED BY: TA	DRAWN BY: MCB	CHECKED BY: TA	TRAFFIC ENGR. RTE 1851	SUBMITTED	APPROVED	INTERSECTION IMPROVEMENT PLAN FOR	REV. 00 00/00/00
	PLANS PREPARED UNDER SUPERVISION OF: DAN J. CANDELARIA			STREET SERV. MGR.	BY: R.C.E. 50353 CITY ENGINEER	BY: PUBLIC WORKS DIRECTOR	HARBOR BLVD & TRASK AVE	DRAWING NUMBER A-1797
	DATE	RCE NO. 52125	REFERENCE PLANS FOR THESE IMPROVEMENTS	WATER SERV. MGR.			TRAFFIC SIGNAL PLAN	DRAWING NUMBER T-882
			DATE BY DESCRIPTION REVISIONS	R/W AGENT				SHEET 6 OF 7

**G** City Of Garden Grove  
Department Of Public Works

INTERSECTION IMPROVEMENT PLAN FOR  
**HARBOR BLVD & TRASK AVE**  
TRAFFIC SIGNAL PLAN

REV. 00 00/00/00  
DRAWING NUMBER A-1797  
DRAWING NUMBER T-882  
SHEET 6 OF 7