

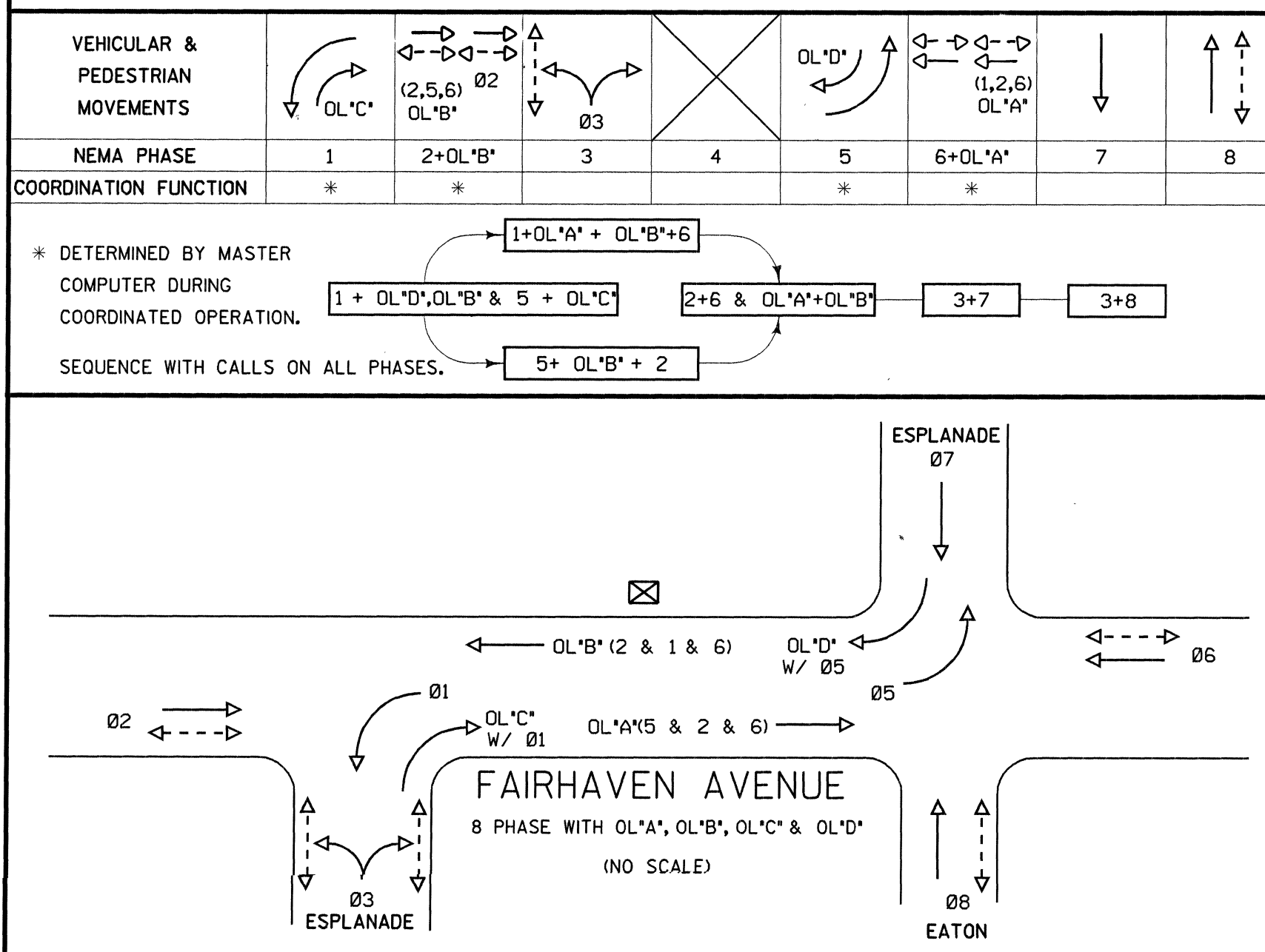
POLE SCHEDULE

NO.	POLE DATA		SIGNAL	H.P.S. LIGHTS		SIGNAL MOUNTING		P.P.B.		FOUNDATION		REFLECTORIZED
	TYPE	HEIGHT		M.A.	WATTS	VEH.	M.A.	PHASE	QUAD	TYPE	SIZE	
1	19-4-129	30'	35'	15'	200 *	SV-1-T	2MAS	SP-1-CS	8	W	C 3'0" x 8'10"	Eton →
2	1-A	10'	--	--	--	TV-1-T	--	SP-1-CS	6	N	S 2'0" x 3'0"	
3	17-3-129	30'	15'	8'	200 *	SV-1-T	MAS	--	6	N	C 3'0" x 8'10"	Fairhaven
4	1-A	10'	--	--	--	TV-1-T	--	SP-1-CS	--	--	S 2'0" x 3'0"	
5	18-4-129	17'	25'	--	--	SV-1-T	2MAS	--	--	--	C 3'0" x 8'10"	Esplanade →
6	1-A	10'	--	--	--	TV-2-T (5 SECTION)	--	--	6	S	S 2'0" x 3'0"	
7	19-3-129	30'	30'	15'	200 *	SV-1-T	MAS	SP-1-CS	2	S	C 3'0" x 8'10"	Fairhaven
8	1-A	10'	--	--	--	TV-1-T	--	SP-1-CS	8	W	S 2'0" x 3'0"	
9	17-3-129	30'	20'	15'	200	SV-1-T	MAS	SP-1-CS	3	W	C 3'0" x 8'10"	Esplanade →
10	1-A	10'	--	--	--	TV-1-T (5 SECTION)	--	SP-1-CS	2	N	S 2'0" x 3'0"	
11	15	30'	--	15'	200	--	--	SP-1-CS	2	N	C 2'6" x 5'0"	
12	15	30'	--	15'	200	SV-1-T	--	SP-1-CS	3	E	C 2'6" x 5'0"	
13	23-4-129	17'	35'	--	--	SV-2-TD	2MAS	SP-1-CS	3	E	C 3'0" x 8'10"	Fairhaven Esplanade
14	1A	10'	--	--	--	TV-1-T	--	--	--	--	S 2'0" x 3'0"	
15	1A	10'	--	--	--	TV-1-T	--	SP-1-CS	3	E	S 2'0" x 3'0"	

* CONTRACTOR TO PROVIDE AND INSTALL EXTERIOR MOUNTED GLARE SHIELD.

C = C.I.D.H.
S = SQUARE

PHASE DIAGRAM



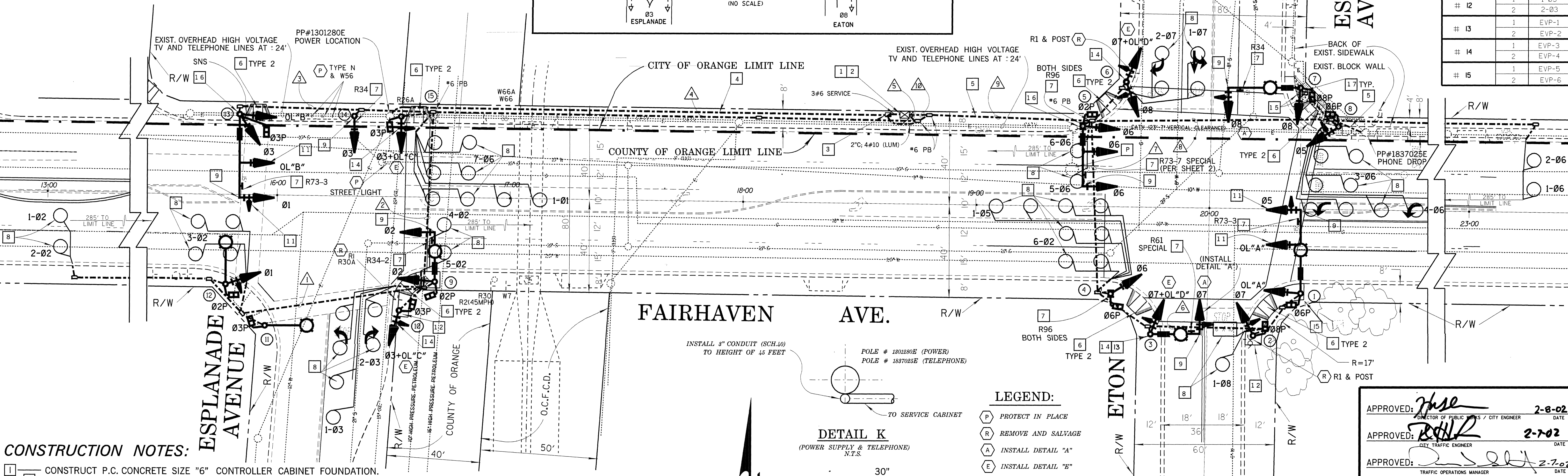
CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN									
		1	2	3	4	5	6	7	8	9	10
3#20	EVP	1	1	1	3	3	1	2	1	4	4
# 10	SIGNAL COMMON LUMINAIRE	1	1	1	2	2	1	1	1	4	2
	TOTAL	3	3	1	6	2	3	3	3	6	2
	01	—	—	—	1	1	—	—	—	—	—
	02	3	5	—	5	5	—	2	—	2	2
	03	—	—	—	2	2	—	—	—	—	—
	05	—	—	—	—	—	1	—	—	1	1
	06	—	—	—	1	1	—	1	4	6	6
	07	—	—	—	—	—	—	—	2	2	2
	08	—	—	—	—	—	1	1	—	1	1
	TOTAL	3	7	—	9	9	1	5	4	12	12
CSC-3		2	4	1	5	5	2	3	2	7	7
CSC-5		2	2	—	2	2	1	1	—	1	1
CSC-12		—	2	1	4	4	1	2	2	6	6
CONDUIT SIZE		3"	3"	3"	4"	4"	3"	3"	3"	4"	4"

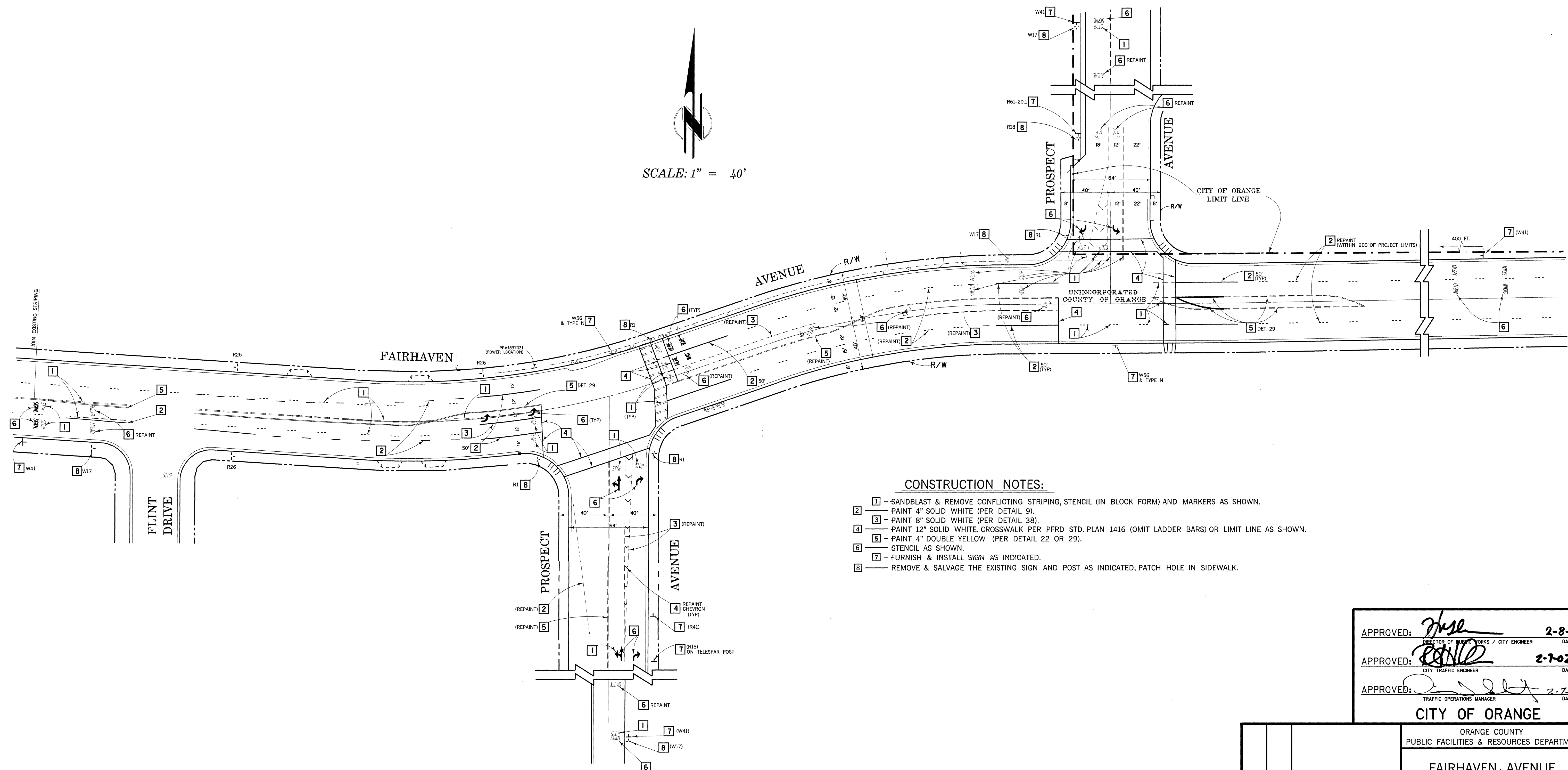
* DETECTOR LOOP LOCATIONS SHALL BE APPROVED BY ENGINEER IN FIELD PRIOR TO INSTALLATION. ALL DETECTOR UNITS SHALL BE BACK MOUNTED. DUAL CHANNEL, DUAL OUTPUT PER CHANNEL WITH INTEGRAL COLLOCATED EXTENSION AND DELAY CAPABILITY. OUTPUT 'A' SHALL BE TIMED. OUTPUT 'B' SHALL BE PRESENCE MODE FOR SYSTEM SAMPLING ONLY.

INDUCTIVE LOOP DETECTOR SCHEDULE

SENSOR UNIT	CHANNEL	DETECTOR
# 1	1	1-05
	2 (1)	SPARE
# 2	1	1-02
	2 (2)	2-02
# 3	1	3-02
	2	4-02
# 4	1 (3)	5-02
	2	6-02
# 5	1 (4)	1-01
	2	SPARE
# 6	1	1-06
	2	2-06
# 7	1	3-06
	2	4-06
# 8	1	5-06
	2	6-06
# 9	1	7-06
	2	SPARE
# 10	1	1-07
	2	2-07
# 11	1	1-08
	2	SPARE
# 12	1	1-03
	2	2-03
# 13	1	EVP-1
	2	EVP-2
# 14	1	EVP-3
	2	EVP-4
# 15	1	EVP-5
	2	EVP-6



F30.4



CONSTRUCTION NOTES:

- 1 - SANDBLAST & REMOVE CONFLICTING STRIPING, STENCIL (IN BLOCK FORM) AND MARKERS AS SHOWN.
- 2 - PAINT 4" SOLID WHITE (PER DETAIL 9).
- 3 - PAINT 8" SOLID WHITE (PER DETAIL 38).
- 4 - PAINT 12" SOLID WHITE, CROSSWALK PER PFRD STD. PLAN 1416 (OMIT LADDER BARS) OR LIMIT LINE AS SHOWN.
- 5 - PAINT 4" DOUBLE YELLOW (PER DETAIL 22 OR 29).
- 6 - STENCIL AS SHOWN.
- 7 - FURNISH & INSTALL SIGN AS INDICATED.
- 8 - REMOVE & SALVAGE THE EXISTING SIGN AND POST AS INDICATED, PATCH HOLE IN SIDEWALK.

APPROVED: [Signature] 2-8-02
DIRECTOR OF PUBLIC WORKS / CITY ENGINEER DATE

APPROVED: [Signature] 2-7-02
CITY TRAFFIC ENGINEER DATE

APPROVED: [Signature] 2-7-02
TRAFFIC OPERATIONS MANAGER DATE

CITY OF ORANGE

ORANGE COUNTY
PUBLIC FACILITIES & RESOURCES DEPARTMENT

FAIRHAVEN · AVENUE
AT

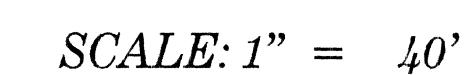
PROSPECT AVENUE

SIGNING AND STRIPING PLAN

REGISTERED ENGINEER No. 15374

MARK	DATE	DESCRIPTION	PREPARED UNDER	SCALE	DATE	AS SHOWN	NO. 00004	DATE	SHEET
REVISIONS			SUPERVISION OF	RCR 00004	02.03.2003		02.03.2003	02.03.2003	4
DESIGNED	T. PHAM/T. LE								
BY	T. PHAM/KY N. L. ABAD								

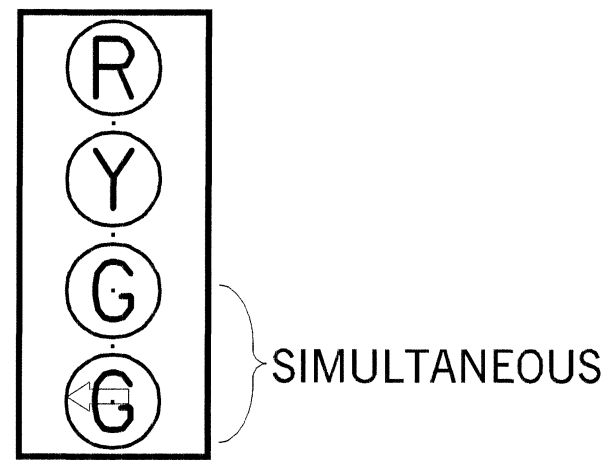
- 1 - SANDBLAST & REMOVE CONFLICTING STRIPING, STENCIL (IN BLOCK FORM) AND MARKERS AS SHOWN.
- 2 - PAINT 4" SOLID WHITE (PER DETAIL 9 OR 24 AS INDICATED).
- 3 - PAINT 8" SOLID WHITE (PER DETAIL 38).
- 4 - PAINT 12" SOLID WHITE.
- 5 - PAINT 4" DOUBLE YELLOW (PER DETAIL 22 OR 29).
- 6 - STENCIL AS SHOWN.
- 7 - FURNISH & INSTALL SIGN AS INDICATED.
- 8 - REMOVE & SALVAGE THE EXISTING SIGN AND POST AS INDICATED, PATCH HOLE IN SIDEWALK.
- 9 - PAINT 12" SOLID YELLOW CROSSWALK PER PFRD STD. PLAN 1416 (OMIT LADDER BARS) OR LIMIT LINE AS SHOWN.



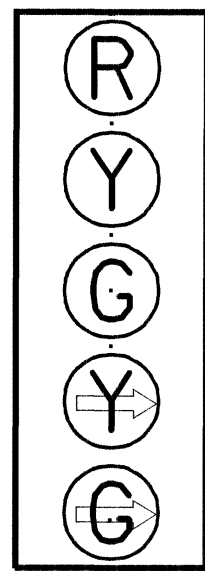
		ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT	
		FAIRHAVEN AVENUE AT ESPLANADE AV. AND ETON PL. SIGNING AND STRIPING PLAN	
MARK	DATE	PREPARED UNDER SUPERVISOR'S OFFICE PROJECT NO. 02-103 DATE 11/11/02 BY J. L. W. (11/11/02)	
REVISIONS DISIGNED T. PHAM AS SHOWN T. PHAM CHECKED L. ABAD SCALE NOV 01 DATE 11/11/02 SHEET 5 OF 5			

3 inches on original drawing

DETAIL A
4-SECTION SIGNAL HEAD
12" LENSES

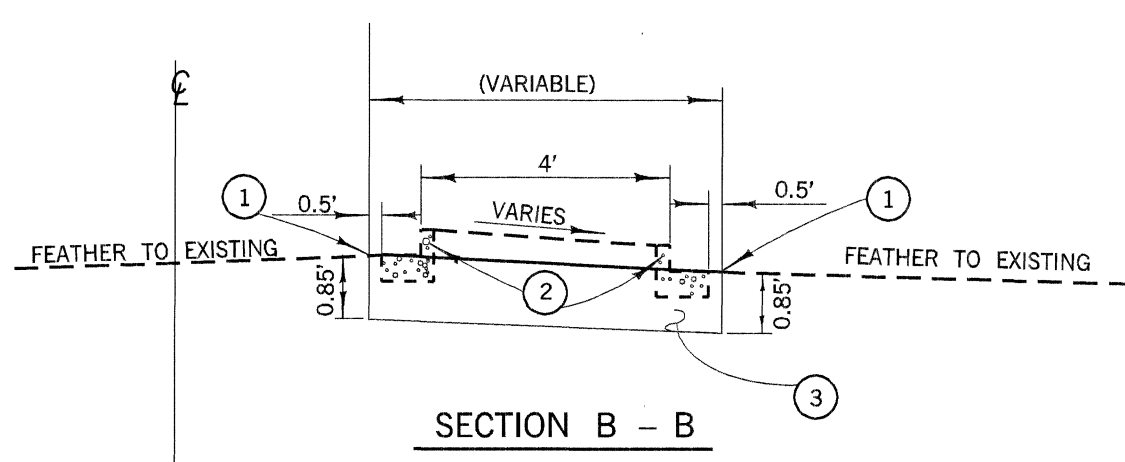
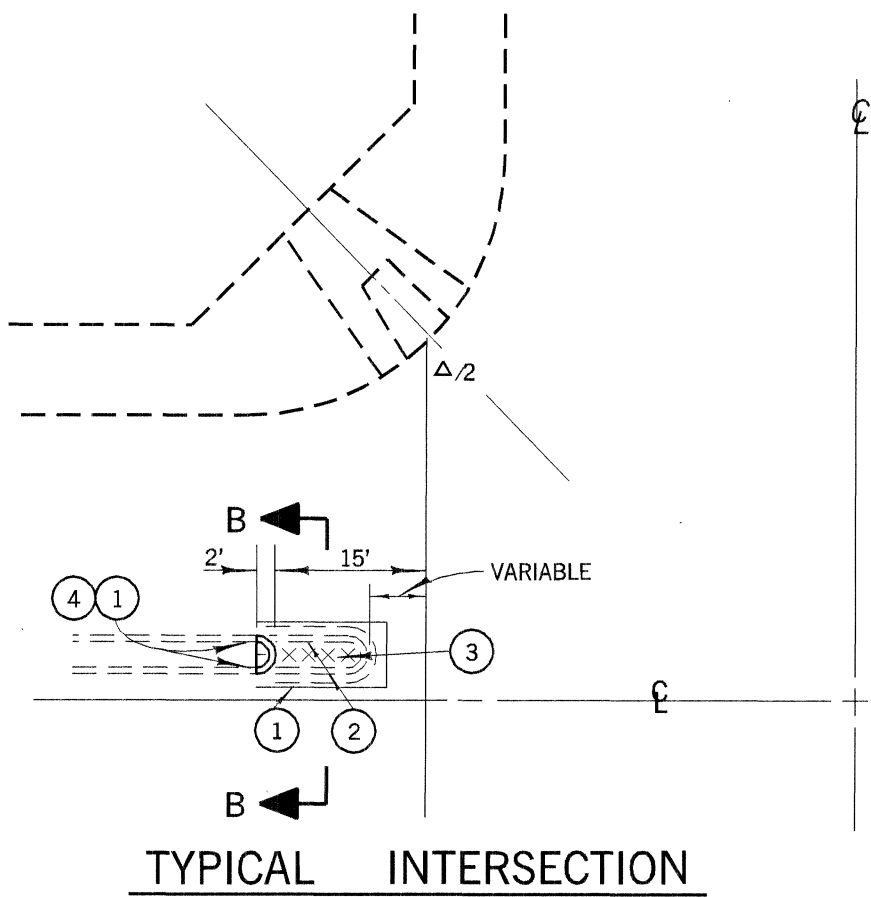


DETAIL E
5-SECTION SIGNAL HEAD
12" LENSES



- △ - BAND STRAP OR BOLT FRAME WORK AT TOP, TO SIGNAL POLE, AS DIRECTED BY ENGINEER.
- NO CAST ALUMINUM TERMINAL BLOCKS ALLOWED.

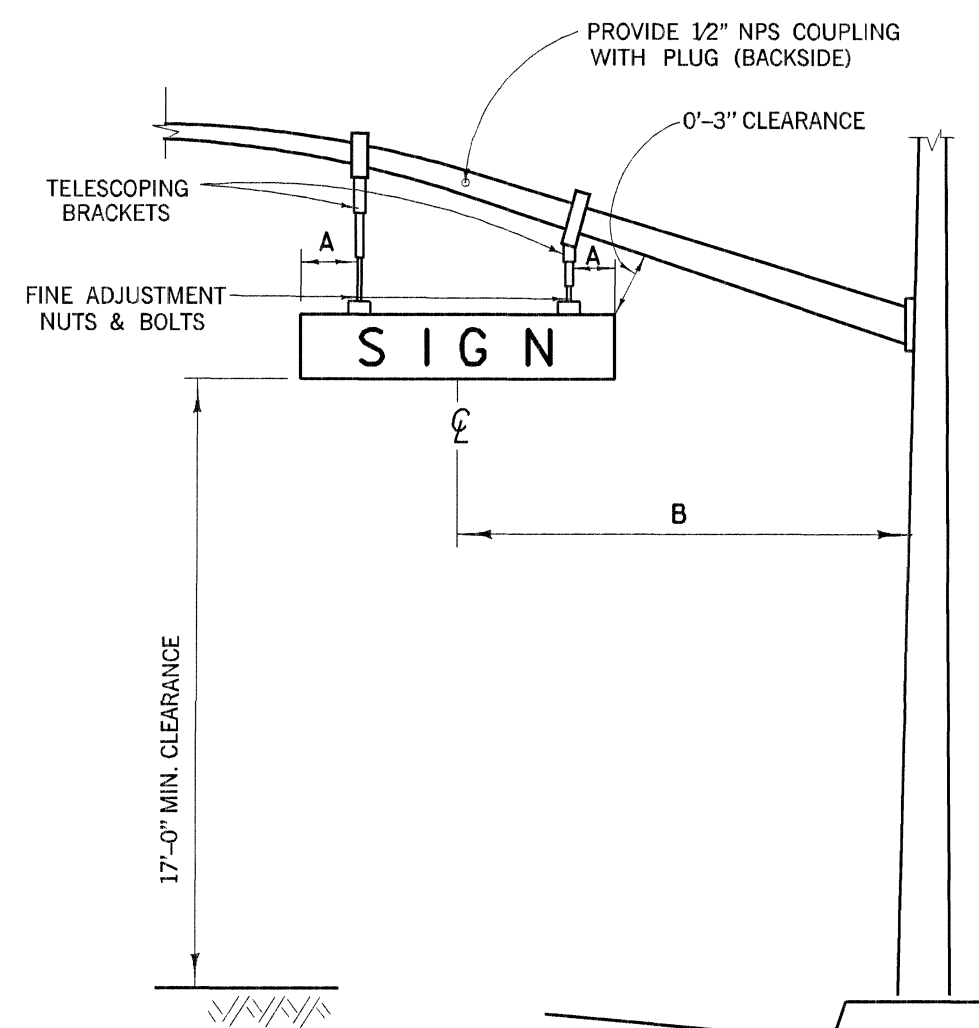
DETAIL B
INTERSECTIONS RAISED MEDIAN



NOTES - DETAILS B

1. SAWCUT AND JOIN EXISTING
2. REMOVE CONCRETE
3. CONSTRUCT 0.85' AC OVER NATIVE SOIL
4. CONSTRUCT TYPE A1-B CONCRETE CURB PER APWA STD. PLAN 120-0.

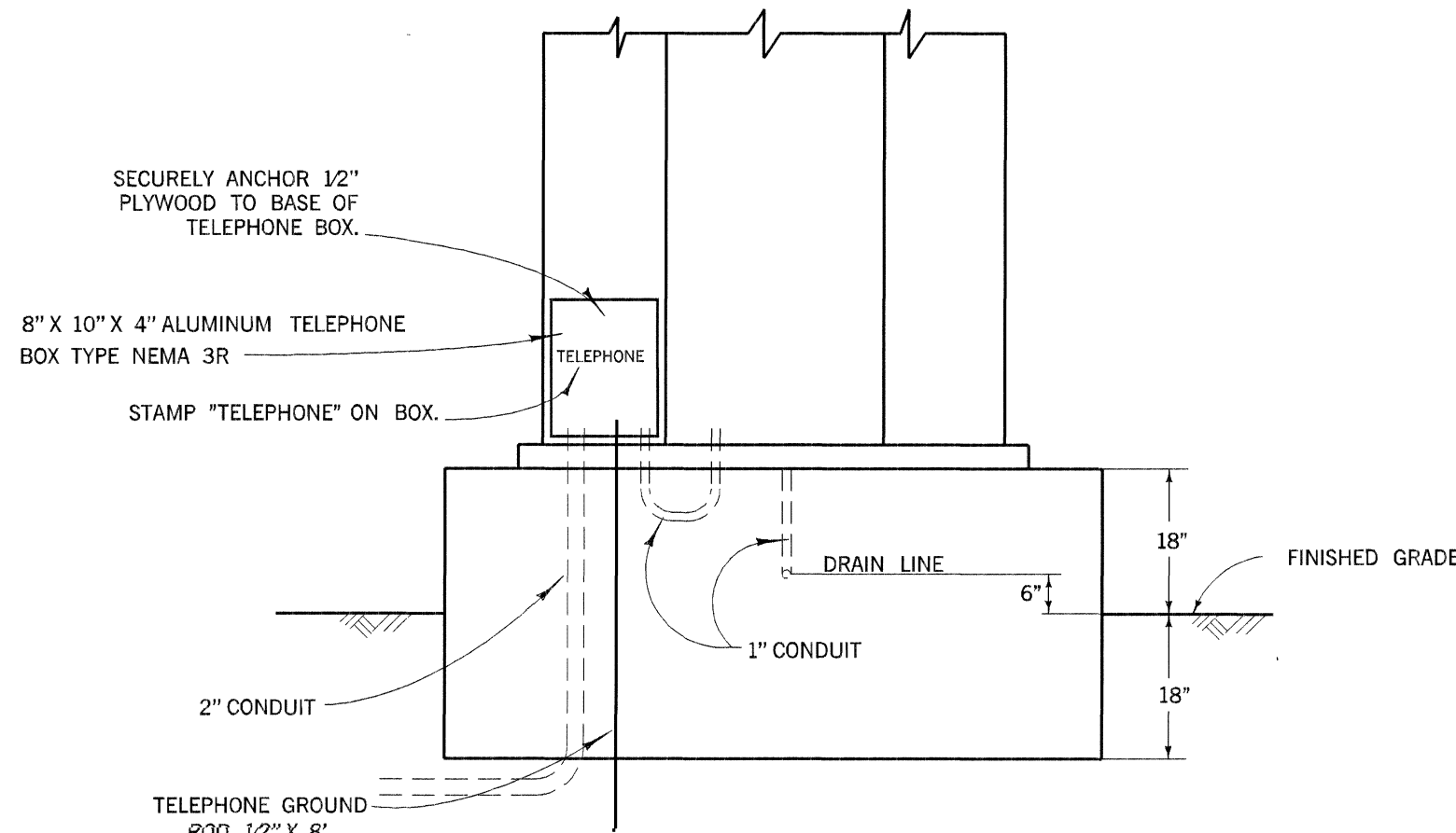
DETAIL C
REFLECTORIZED STREET NAME SIGN COMPONENTS



NOTES - DETAIL C

- A 1'-6" (18"x72" SIGN), 2'-0" (18"x96" SIGN)
B 10'-6" CENTERLINE OF SIGN TO FACE OF POLE

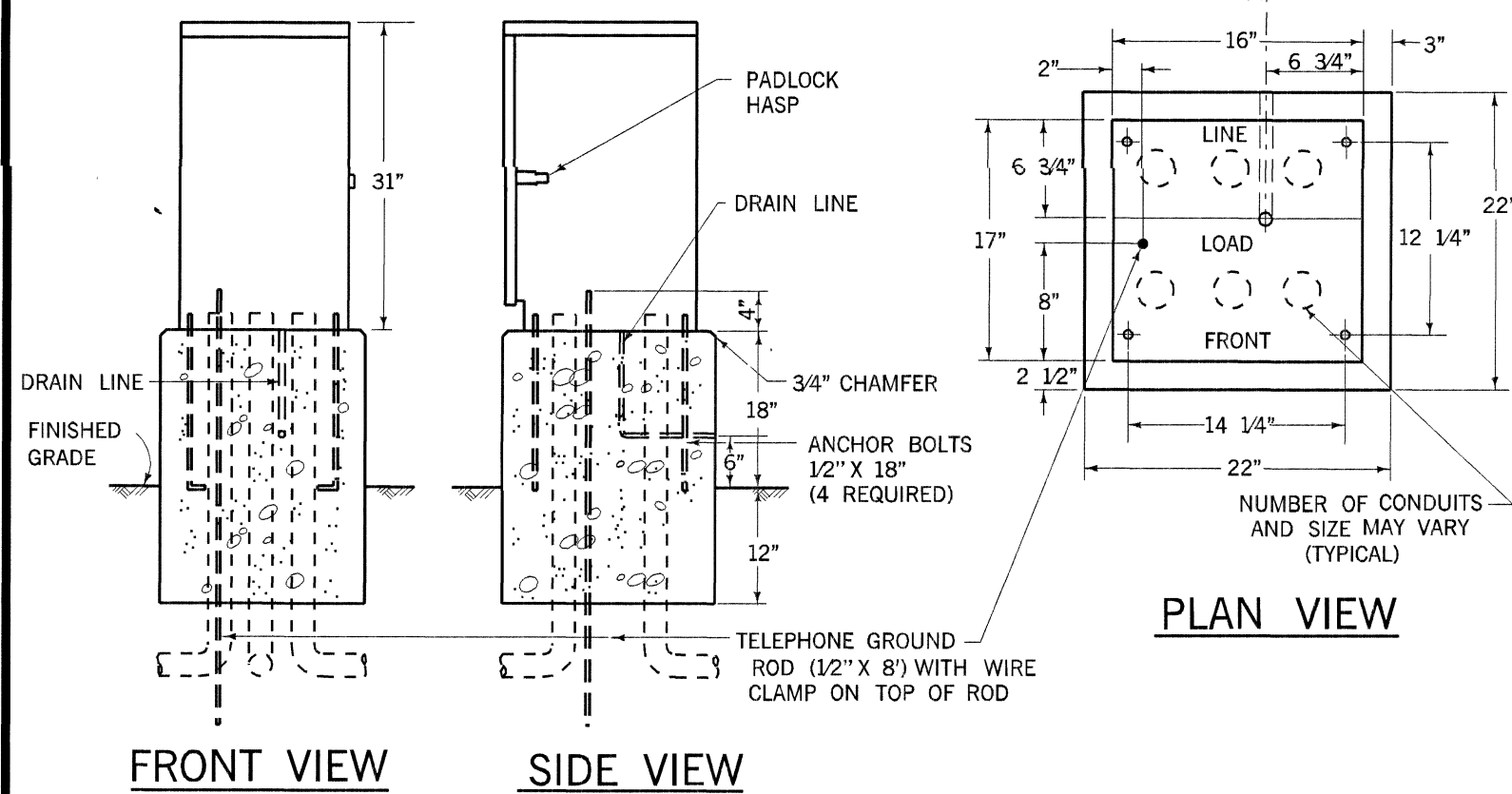
DETAIL D
TELEPHONE SERVICE BOX



GENERAL NOTES :

1. ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS AND STANDARD SPECIFICATIONS DATED JULY 1999 AND JULY 1999 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. 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT FOR INSPECTION AT 567-7800.
4. THE ENGINEER SHALL APPROVE POLE AND LOOP DETECTION PLACEMENT IN THE FIELD PRIOR TO INSTALLATION.
5. ALL CONDUITS SHALL BE 2" UNLESS OTHERWISE NOTED.
6. ALL PULL BOXES SHALL BE #5 UNLESS OTHERWISE NOTED.
7. ALL SALVAGED EQUIPMENT SHALL BE DELIVERED UNDAMAGED, BY CONTRACTOR, TO THE ORANGE COUNTY YARD AT 1152 EAST FRUIT ST., SANTA ANA, CA. CONTRACTOR SHALL GIVE A 48-HOUR NOTICE TO THE COUNTY PRIOR TO THE DELIVERY DATE.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TELEPHONE AND ELECTRICAL SERVICE LINES AND INTERCONNECT HOOK-UPS BETWEEN THE LOCAL CONTROLLER AND THE SYSTEM MASTER.
9. PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOL.
10. PEDESTRIAN PUSH BUTTONS SHALL BE TYPE B WITH INTERNATIONAL SYMBOL PLATE.
11. ALL VEHICLE INDICATIONS SHALL BE 12" DIAMETER WITH BACKPLATES, GLASS REFLECTORS, AND GLASS LENSES, UNLESS SHOWN OTHERWISE.
12. CONTRACTOR SHALL POTHOLE CONFLICTING UTILITIES AS DIRECTED BY ENGINEER.
13. CONTRACTOR SHALL AVOID DAMAGING EXISTING UTILITIES. (SEE SPECIAL PROVISIONS).
- △ 14. DETECTOR LOOPS SHALL BE CIRCULAR 6" DIAMETER WITH 9" SPACING IN THE DIRECTION OF TRAVEL UNLESS OTHERWISE NOTED.
15. ALL DETECTOR CABLE HOMERUNS SHALL BE IN THE CROSSWALK AREA.
- △ 16. ALL DETECTOR LOOPS SHALL HAVE FOUR (4) TURNS.
17. ALL QUADRUPOLE DETECTOR LOOPS SHALL BE TWO (2-4-2) TURNS.
18. TRAFFIC CONTROLLER CABINET FOUNDATION SHALL BE 18" ABOVE AND BELOW FINISHED GRADE (SEE DETAIL D).
19. INSTALL "CABINET DOOR OPEN" CIRCUIT IN CONTROLLER CABINET PER MANUFACTURE'S SPECIFICATIONS.
20. CONCRETE REPLACEMENT TO MATCH EXISTING.

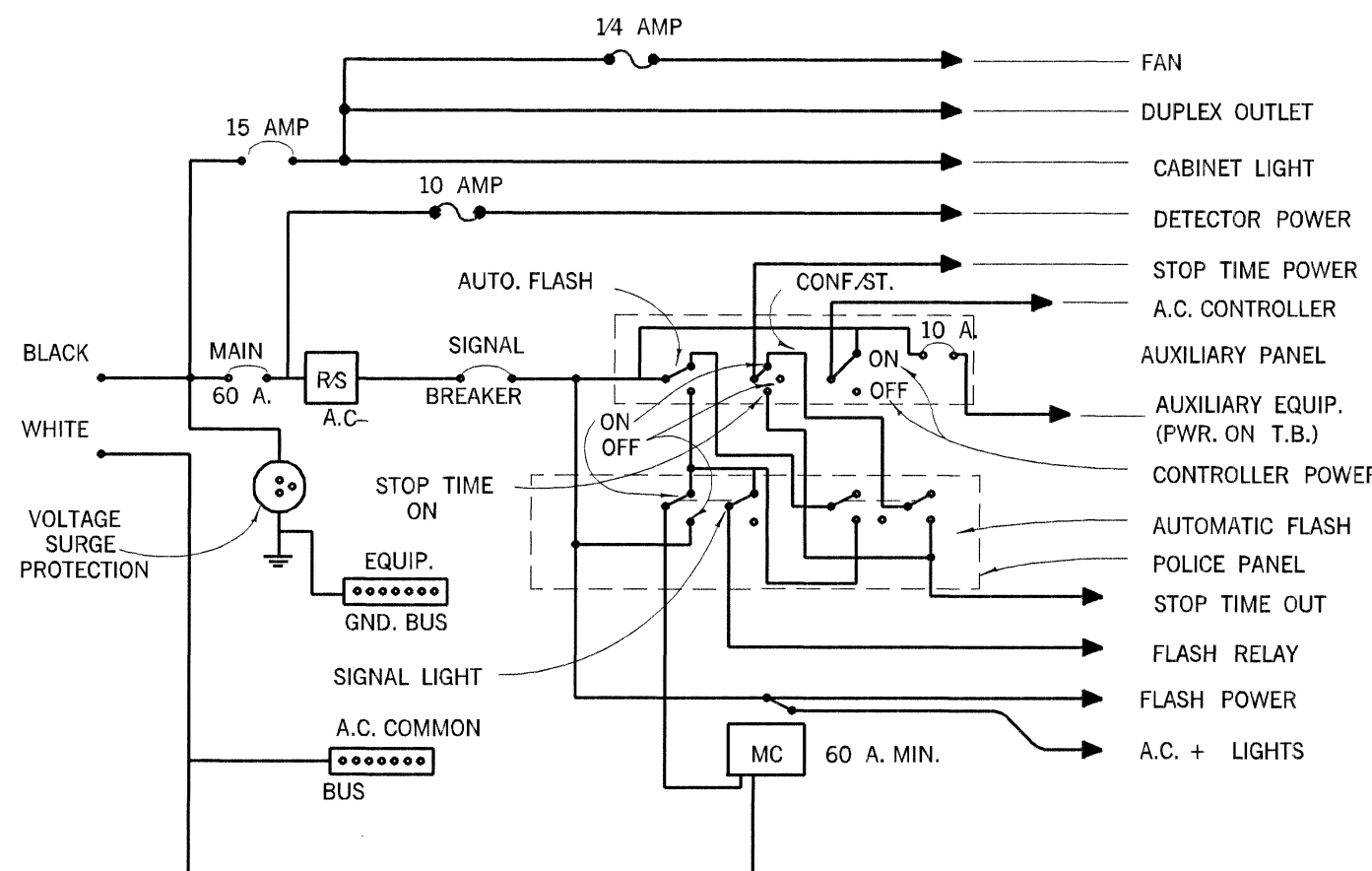
DETAIL F
INTERCONNECT SPLICE CABINET



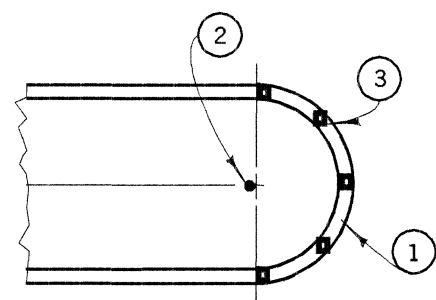
NOTES - DETAIL F

1. FOUNDATION TO BE 22" X 22". 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. A 3/4" CONSTRUCTION GRADE PLYWOOD PANEL SHALL BE FASTENED TO THE REAR WALL. PANEL SHALL BE 12" X 24" AND SHALL HAVE A No. M1-25 AND R-841 STANDOFF FASTENED IN THE CENTER OF THE PANEL.
5. ENCLOSURE FINISH SHALL CONFORM TO A.S.T.M. B-117. PAINT TO BE APPLIED TO EXTERNAL AND INTERNAL CABINET SURFACE SHALL BE WHITE ANTI-GRAFFITI CARDINAL'S 6409 G SERIES OR APPROVED EQUAL ANTI-GRAFFITI PAINT SHALL BE APPLIED TO CABINET AT THE TIME OF MANUFACTURE.
6. PROVIDE 1 1/2" CONDUIT FOR FUTURE 115 VAC SERVICE.
7. PROVIDE GROUND BUS INSIDE SPLICE CABINET.

DETAIL G
CONTROLLER CABINET WIRING



DETAIL H
RAISED MEDIAN MARKING



NOTES - DETAIL H

- ① PAINT MEDIAN NOSE WITH HIGHLY REFLECTIVE PREMIXED WHITE TRAFFIC PAINT WITH GLASS BEADS.
- ② INSTALL FLEXIBLE VERTICAL TYPE K MARKER, R7, R10 OR TYPE N-1 ON TELESAR POST AS INDICATED ON PLAN.
- ③ INSTALL YELLOW REFLECTIVE PAVEMENT MARKERS ON TOP SURFACE OF MEDIAN CURB NOSE AT 2' C.C. SPACING (MINIMUM 5 MARKERS). PLACE REFLECTIVE SURFACE OF MARKERS PERPENDICULAR TO C OF ROADWAY.

		ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT	
		SIGNAL DETAIL SHEET	
△ 3-29-88	ADDED NOTE 16.	PREPARED UNDER SUPERVISION OF DATE SCALE DATE NOT TO SCALE	
△ 4-4-88	DELETED TYPE 11 SERVICE.		
△ 12-8-88	ADDED INTERCONNECT SPLICE CABINET.		
△ 11-18-91	MODIFIED INTERCONNECT SPLICE CABINET.		
△ 6-7-93	MODIFIED CONTROLLER CABINET WIRING.		
△ 1-1-97	MODIFIED INTERCONNECT SPLICE CABINET.	W. O. NO. ER10159 & ER10163	
△ 3-4-97	MODIFIED OVERHEAD STREET NAME SIGN.		
△ 8-31-98	MODIFIED DETECTOR LOOP NOTES.	NOV. 01	
△	ADDED NOTES IN DETAIL E		
MARK	DATE	DESCRIPTION	SHEET
REVISIONS			6
DESIGNED	L. ABAD	CHECKED	
DRAWN	T. PHAM	CHECKED	OF 6