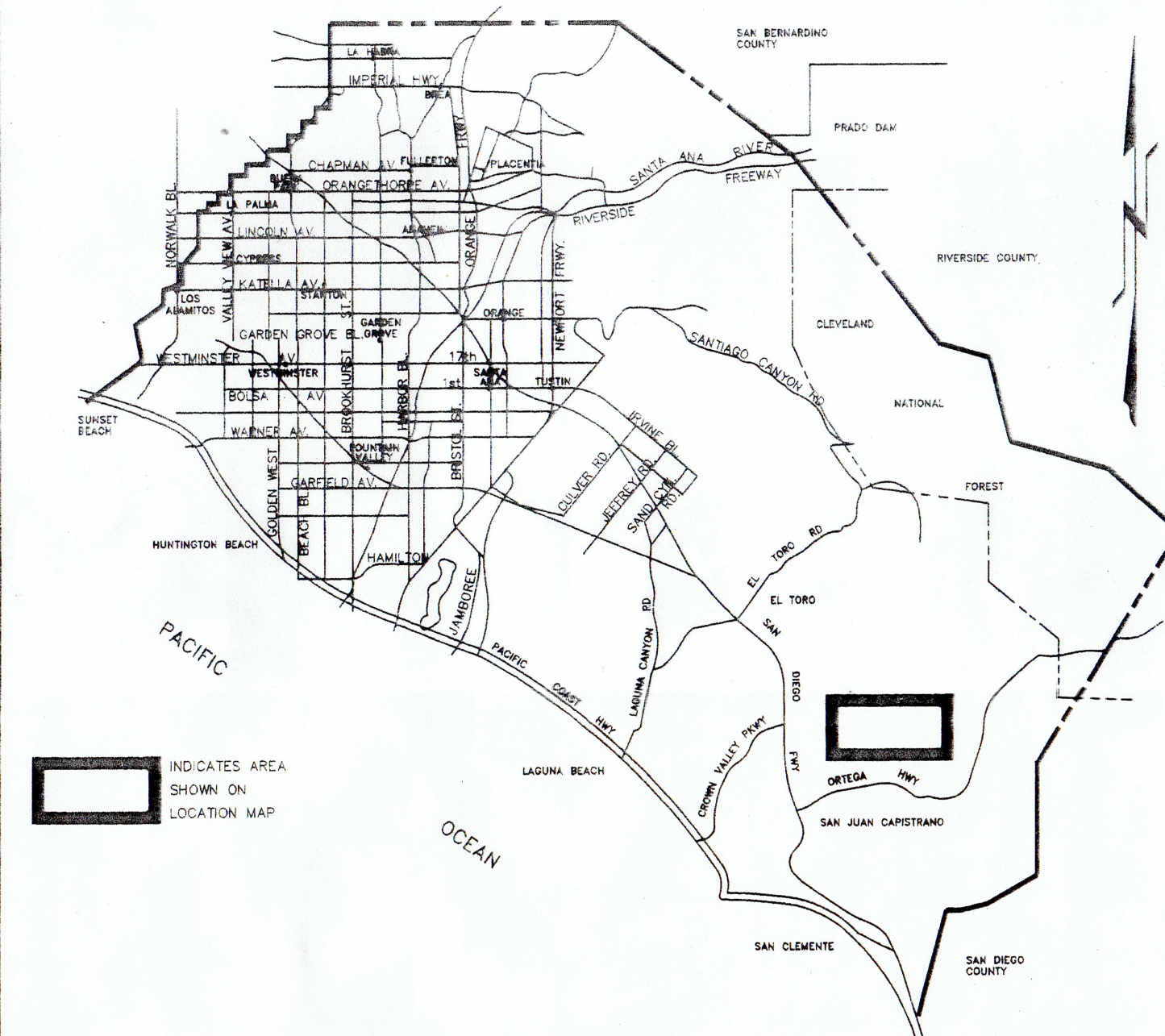
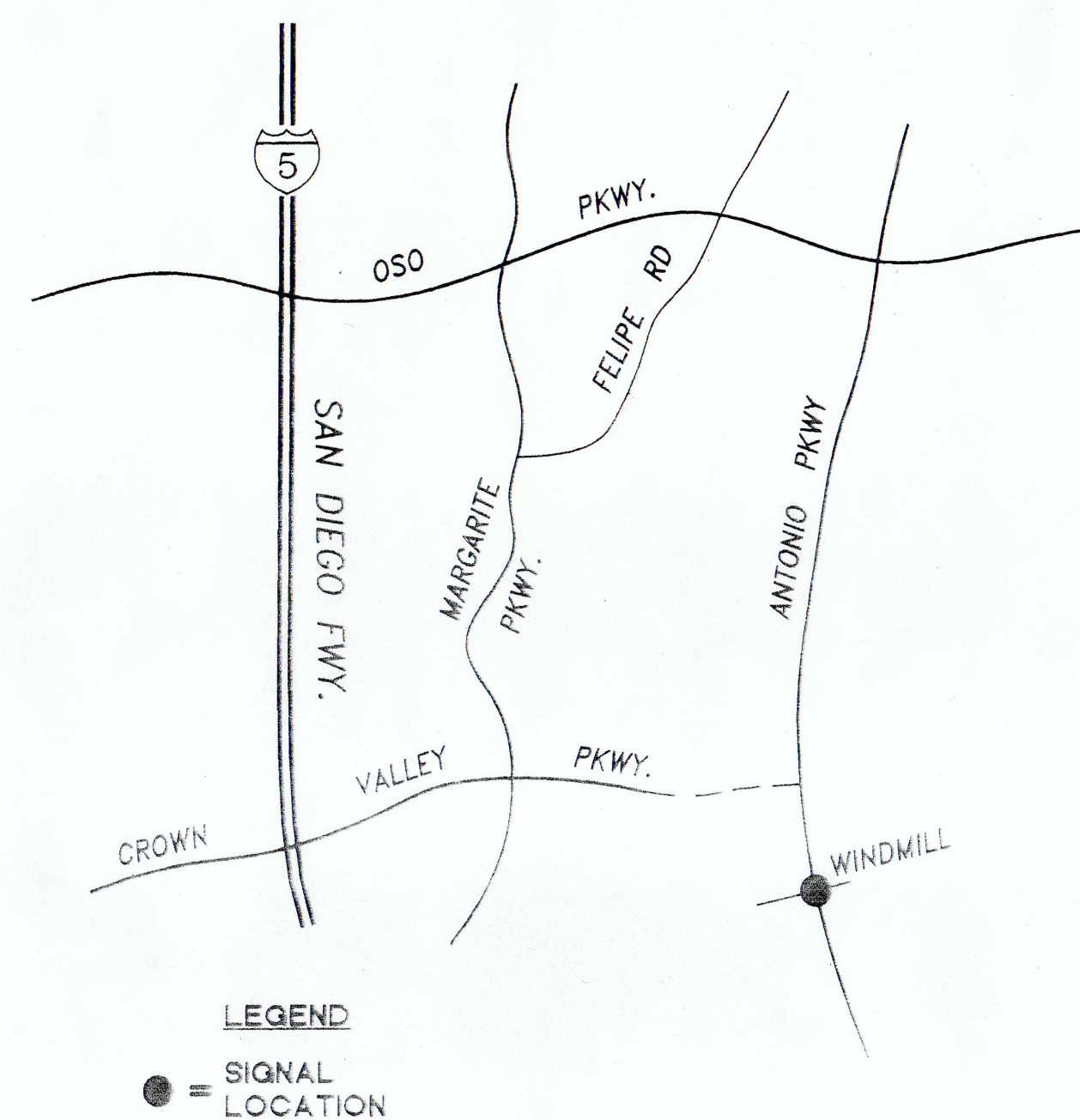
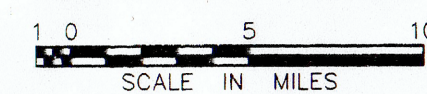


SANTA ANA, CALIFORNIA

PLANS FOR CONSTRUCTION OF

INDEX OF SHEETS

SHEET	DESCRIPTION
1.	TITLE SHEET
2.	TRAFFIC SIGNAL PLAN ANTONIO PKWY. & WINDMILL
3.	DETAIL SHEET

VICINITY MAP

LOCATION MAP

THIS TRAFFIC SIGNAL SHALL NOT BE CONSTRUCTED UNTIL WARRANTED.
APPLICANT SHALL SUBMIT TRAFFIC SIGNAL WARRANTS/ANALYSIS TO PFRD/TRAFFIC
ENGINEERING FOR REVIEW AND APPROVAL. IF APPROVED A MEMO FROM THE COUNTY
TRAFFIC ENGINEER TO PFRD/PUBLIC PROPERTY PERMITS WILL BE PROVIDED
AUTHORIZING THE CONSTRUCTION OF THE SIGNAL SYSTEM.

ENCROACHMENT PERMIT No.

COUNTY APPROVED PLANS DO NOT RELIEVE CONTRACTOR/DEVELOPER FROM RESPONSIBILITY TO OBTAIN COUNTY PROPERTY PERMIT WHICH SHALL BE AVAILABLE ON THE JOB AT ALL TIMES WORK IS BEING ACCOMPLISHED IN PUBLIC RIGHT OF WAY.

FUNDING BY: DEVELOPER

COUNTY OF ORANGE
PLANNING AND DEVELOPMENT SERVICES

THIS PLAN IS SIGNED BY PLANNING AND DEVELOPMENT SERVICES FOR CONCEPT AND ADHERENCE TO COUNTY STANDARDS AND REQUIREMENTS ONLY. PLANNING AND DEVELOPMENT SERVICES IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS AND ACCURACY.

RCE DATE

COUNTY OF ORANGE

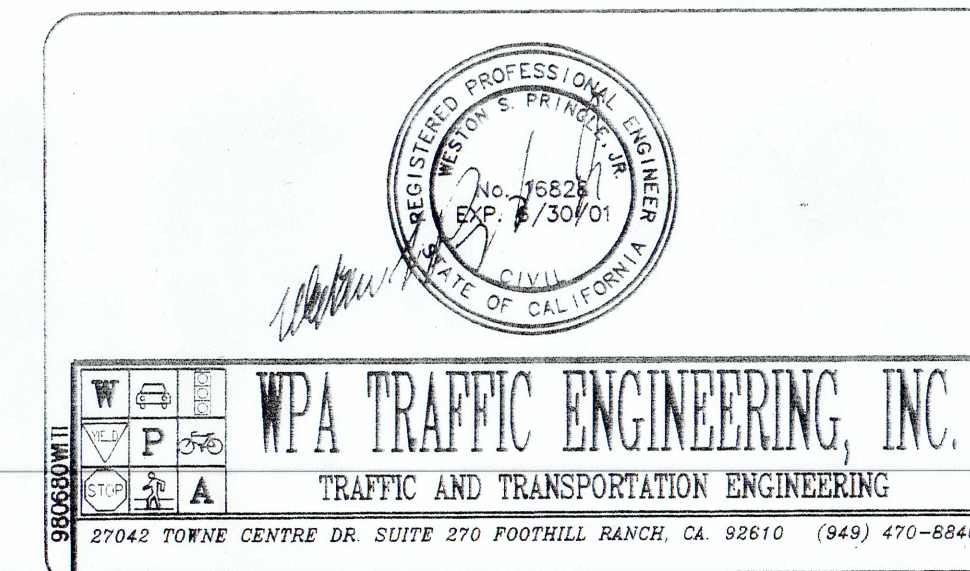
PFRD/PROGRAM DEVELOPMENT DIVISION-TRAFFIC ENGINEERING

APPROVED BY: _____ DATE: _____

10/23/00

I.G. OCHOA, COUNTY TRAFFIC ENGINEER

THIS PLAN IS SIGNED BY PFRD/T.E. FOR CONCEPT AND ADHERENCE TO COUNTY TRAFFIC SIGNAL, SIGNING AND STRIPING STANDARDS AND REQUIREMENTS ONLY. PFRD/T.E. IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS OR ACCURACY.



UTILITY	PHONE	CONTACT
1. SO. CAL. EDISON	458-4671	SANDY MARTIN
2. PACIFIC BELL	666-5443	LARRY TODD
3. T.C. WATER DIST.	858-0277	J. FRED SIMS
4. U.S.ALERT	1-800-422-4133	
5. SO. CAL. GAS CO.	634-3120	RON REEDS
6. DIMENSION CABLE	240-8828	MICKEY MILLER

DEVELOPER:
RANCHO MISSION VIEJO CO.
P.O. BOX 9
SAN JUAN CAPISTRANO,
CALIFORNIA 92693
(949) 240-3363

BLOCK: 5157

MODULE: 26

[illegible]

W.O. NO. _____
DWG. NO. _____

SHEET 1 OF 3

CONDUCTOR SCHEDULE									
AWG CIRCUITS		RUNS							
		1	2	3	4	5	6	7	8
12 CSC	3 CSC	1	2	3	1	2	3	4	8
LOOP LEAD-IN TYPE B	#1 DETECTOR				5	5	5	5	2
	#2 DETECTOR								2
	#3 DETECTOR							1	1
	#4 DETECTOR		3	3				1	1
	#5 DETECTOR				1	1	1	1	1
	#6 DETECTOR								5
	#7 DETECTOR		1	1					1
	#8 DETECTOR				3	3			3
TOTAL D.C.'S		4	4	6	6	11	11	22	22
#10	LUMINAIRE	2	2	2	2	2	2	2	4
	SIGNAL COMMON	1	1	1	1	1	1	1	2
TOTAL		3	3	3	3	3	3	6	2
3 #20 EVP CABLE		1	1	2		1	1	2	4
#12 FLASHING BEACON									2
12PR #22 I.C. (2" C)		1	1	1					1
CONDUIT SIZE		1-2"	1-2"	1-2"	1-3"	1-3"	1-3"	2-4"	2-4"
		1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	2-4"	2-4"

(E) = EXISTING CONDUIT

(E)

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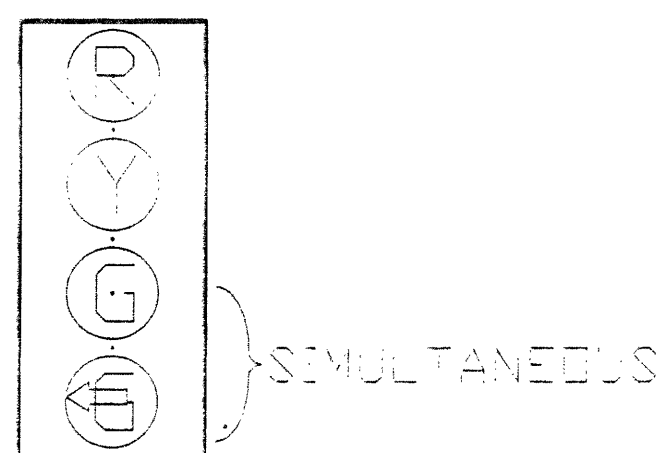
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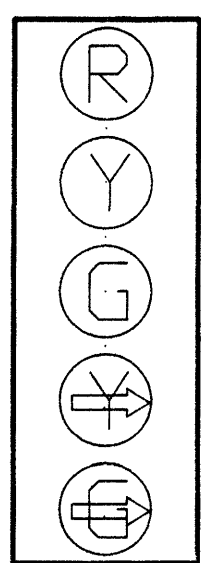
(E)

DETECTOR SCHEDULE		
SENSOR #	UNIT	LOOP DETECTORS
1	1	1-Ø5
2	2	1-Ø2
3	1	2-Ø2
4	2	3-Ø2
5	1	4-Ø2
6	2	5-Ø2
7	1	1-Ø1
8	2	2-Ø1
9	1	1-Ø6
10	2	2-Ø6
11	1	3-Ø6
12	2	4-Ø6
13	1	5-Ø6
14	2	6-Ø6
15	1	7-Ø6
16	2	8-Ø6
17	1	9-Ø6
18	2	10-Ø6
19	1	11-Ø6
20	2	12-Ø6
21	1	13-Ø6
22	2	14-Ø6
23	1	15-Ø6
24	2	16-Ø6
25	1	17-Ø6
26	2	18-Ø6
27	1	19-Ø6
28	2	20-Ø6
29	1	21-Ø6
30	2	22-Ø6
31	1	23-Ø6
32	2	24-Ø6
33	1	25-Ø6
34	2	26-Ø6
35	1	27-Ø6
36	2	28-Ø6
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38	2	30-Ø6
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42	2	34-Ø6
43	1	35-Ø6
44	2	36-Ø6
45	1	37-Ø6
46	2	38-Ø6
47	1	39-Ø6
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52	2	44-Ø6
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54	2	46-Ø6
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321	1	313-Ø6
322	2	314-

DETAIL A
4-SECTION SIGNAL HEAD
12" LENSES

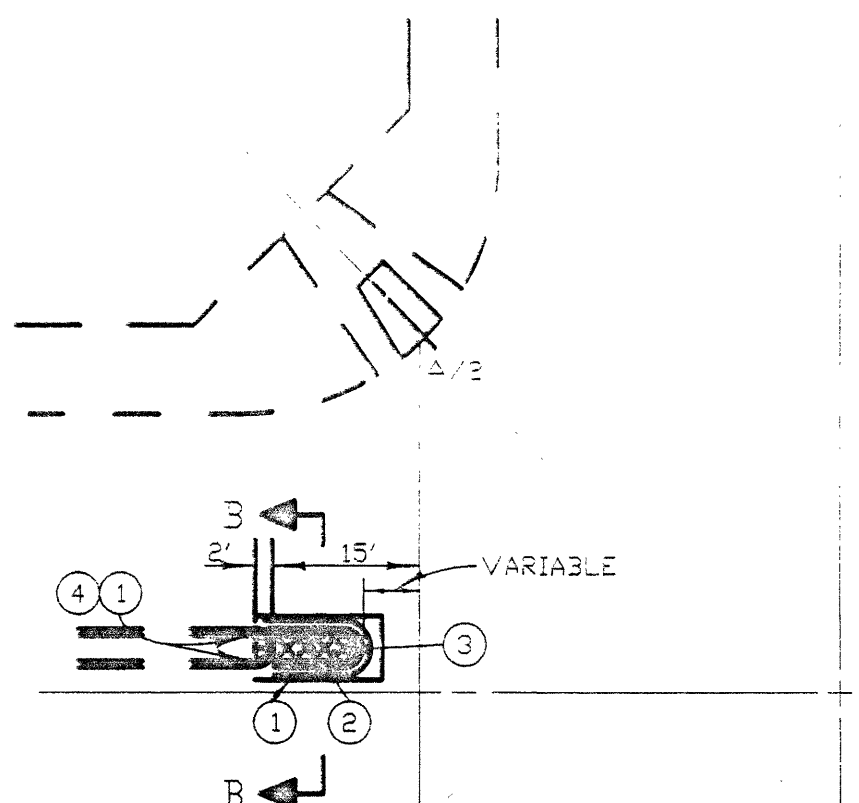


DETAIL E
5-SECTION SIGNAL HEAD
12" LENSES

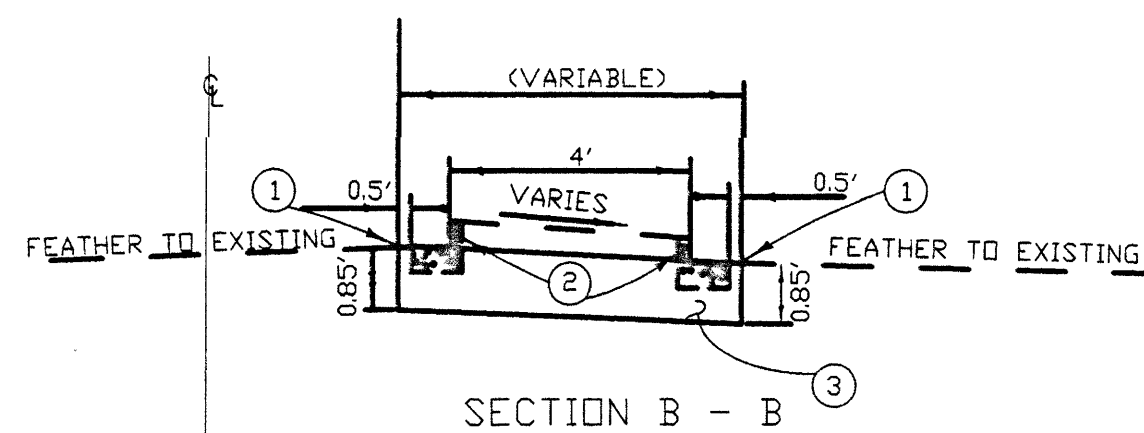


- BAND STRAP OR BOLT FRAME WORK AT TOP, TO SIGNAL POLE.
- NO CAST ALUMINUM TERMINAL BLOCKS ALLOWED.

DETAIL B
INTERSECTIONS RAISED MEDIAN



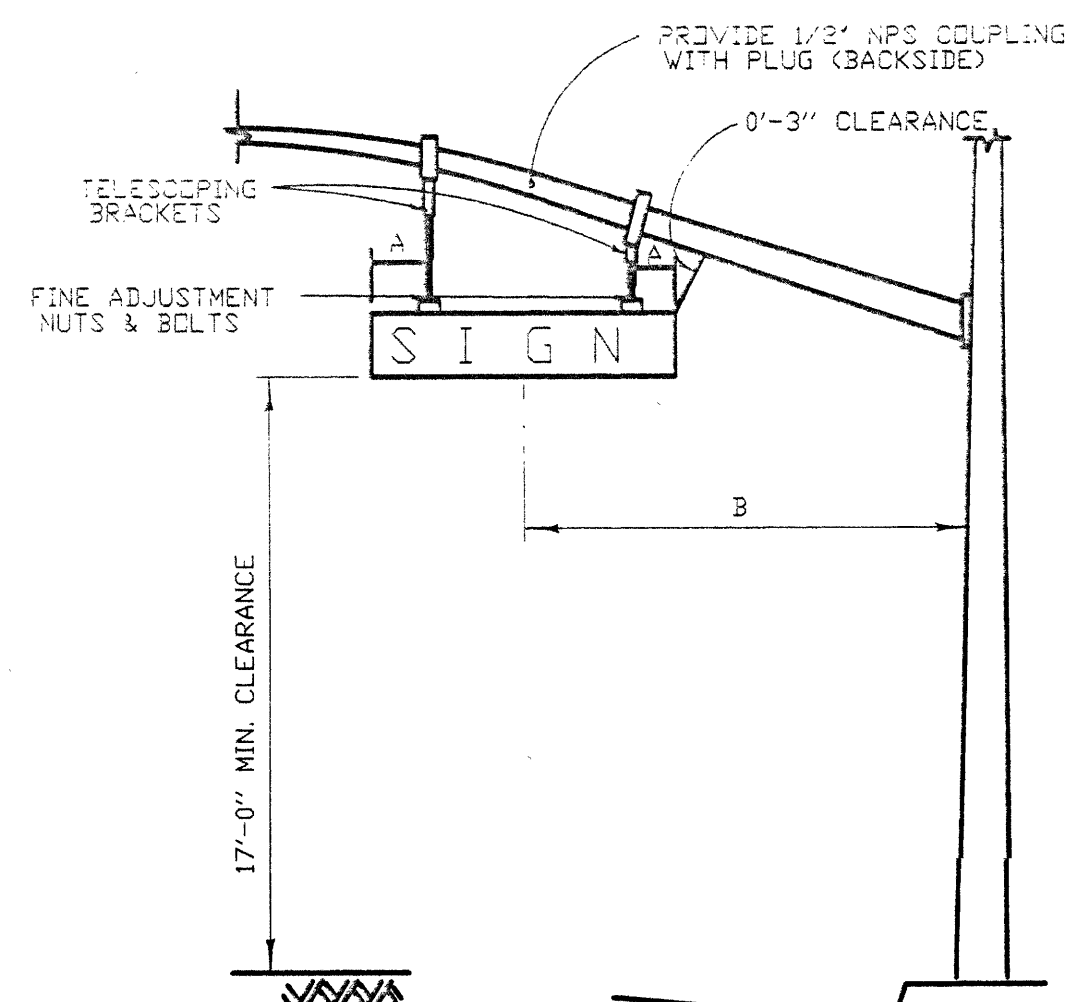
TYPICAL INTERSECTION



NOTES - DETAILS B

1. SAWCUT AND JOIN EXISTING
2. REMOVE CONCRETE
3. CONSTRUCT 0.85' AC OVER NATIVE SOIL
4. CONSTRUCT TYPE A1-9 CONCRETE CURB PER APWA STD. PLAN 120-0.

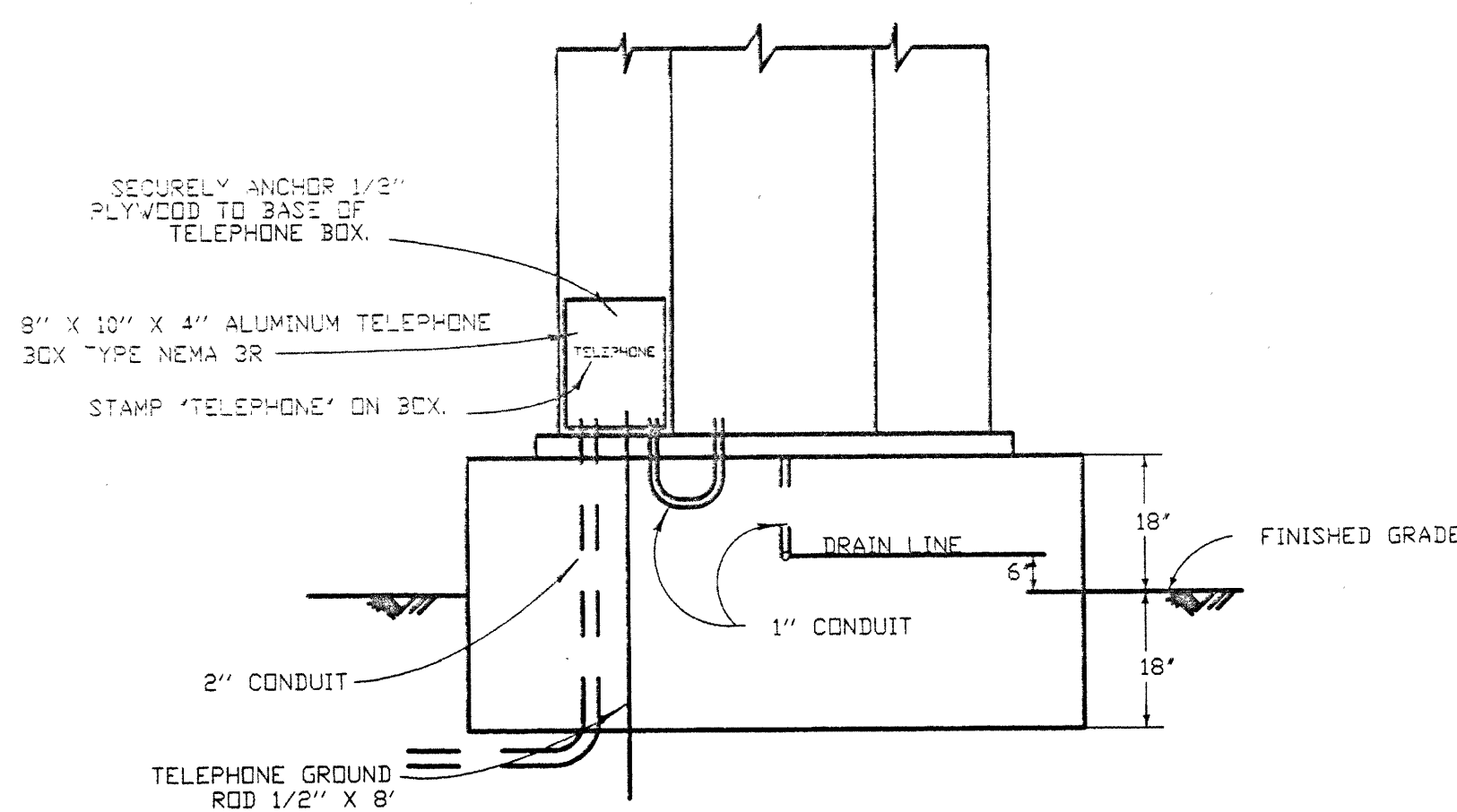
DETAIL C
REFLECTORIZED STREET NAME SIGN COMPONENTS



NOTES - DETAIL C

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

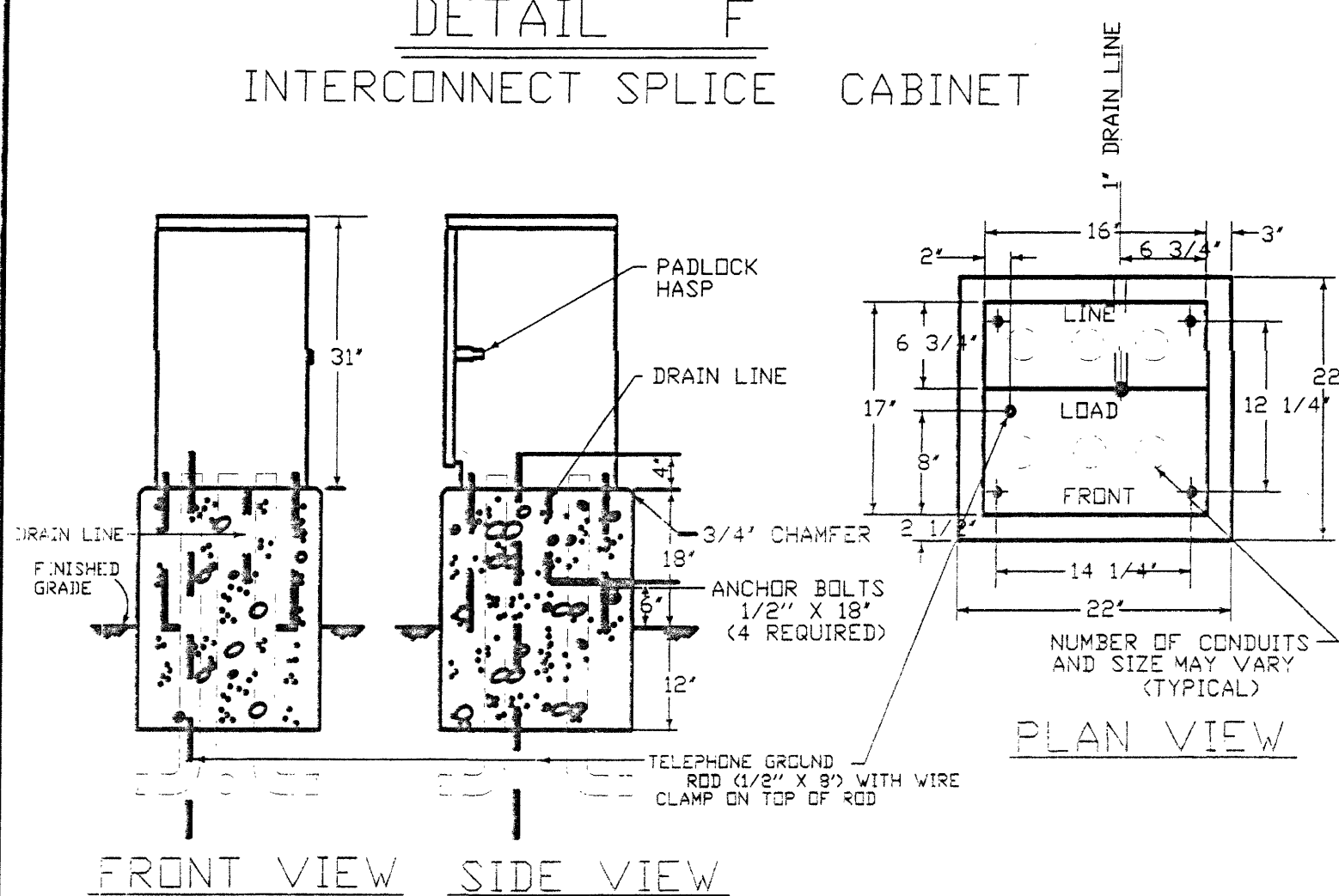
DETAIL D
TELEPHONE SERVICE BOX



GENERAL NOTES

1. ALL WORK NEW MATERIALS AND NEW EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS DATED JULY 1999 AND STANDARD SPECIFICATIONS DATED 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 AVOID DAMAGING EXISTING 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.

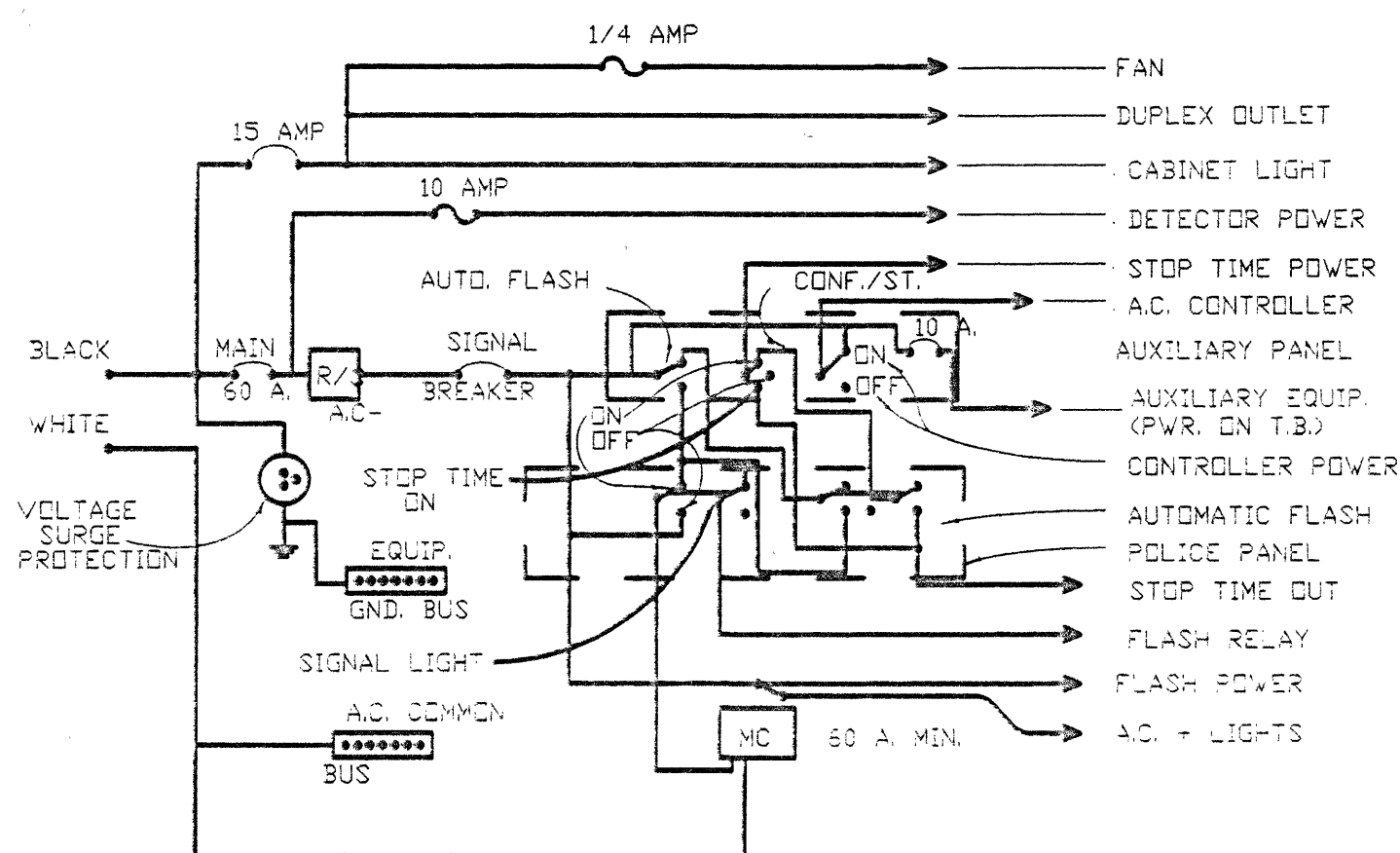
DETAIL F
INTERCONNECT SPLICE CABINET



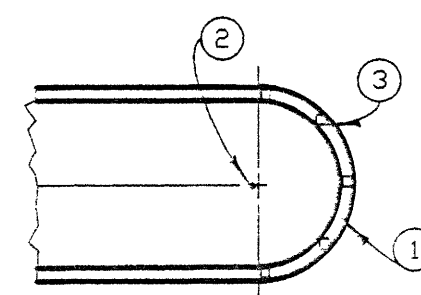
NOTES - DETAIL F

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. MI-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' O.C. SPACING (MINIMUM 5 MARKERS). PLACE REFLECTIVE SURFACE OF MARKERS PERPENDICULAR TO D. OF ROADWAY.

ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT			
SIGNAL DETAIL SHEET			
NO.	DATE	DESCRIPTION	PREPARED BY
1	2/25/98	ADDED NOTE 16	ADDED INTERCONNECT SPLICE CABINET
2	4-4-98	ADDED INTERCONNECT SPLICE CABINET	MODIFIED INTERCONNECT SPLICE CABINET
3	12-9-98	MODIFIED INTERCONNECT SPLICE CABINET	MODIFIED CONTROLLER CABINET WIRING
4	11-19-98	MODIFIED INTERCONNECT SPLICE CABINET	MODIFIED INTERCONNECT SPLICE CABINET
5	6-7-99	MODIFIED INTERCONNECT SPLICE CABINET	MODIFIED OVERHEAD STREET NAME SIGN
6	1-1-97	MODIFIED OVERHEAD STREET NAME SIGN	MODIFIED DETECTOR LOOP NOTES
7	3-4-97	MODIFIED DETECTOR LOOP NOTES	ADDED NOTES IN DETAIL E
8	8-31-98	ADDED NOTES IN DETAIL E	MODIFIED NOTE 1.
9	2/15/00	MODIFIED NOTE 1.	
REVISIONS		SCALE	DATE
DRAWN		CHECKED	NOT TO SCALE
SHEET		DATE	V. D. NO.
3			
OF 3			