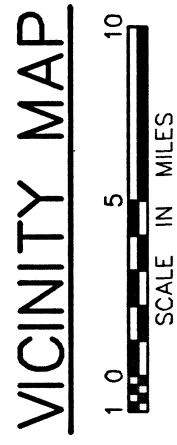


SANTA ANA, CALIFORNIA

ANTONIO PKWY. AND COVENANT HILLS RD.
TRACT NO. 15987



1. TITLE SHEET
2. TRAFFIC SIGNAL PLAN
ANTONIO AND COVENANT HILLS RD.
3. DETAIL SHEET

UTILITY	PHONE	CONTACT
1. SO. CAL. EDISON	949-458-4671	BILL WADDINGTON
2. PACIFIC BELL	714-666-5443	LARRY TODD
3. S.M. WATER DIST.	949-459-6585	CINDY LANE
4. U.S.ALERT	1-800-422-4133	
5. SO. CAL. GAS CO.	714-634-3120	RON REEDS
6. DIMENSION CABLE	949-240-8828	MICKEY MILLER

DEVELOPER:
RANCHO MISSION VIEJO
28811 ORTEGA HIGHWAY
P.O. BOX 9
SAN JUAN CAPISTRANO, CA. 92542
(949) 888-9175

BLOCK: 5057

MODULE: 97 & 98

1	INSTALL REINFORCED FLEXING BEAMS, E.C.	Run 3		5/26/14
	CABLE TO GANTRY & INSTALL ELECTRONIC DETECTORMS			
NO.	DESCRIPTION	SHT.	APPROVED	DATE.
REVISIONS				

W.O. NO.

SHEET 1 OF 3

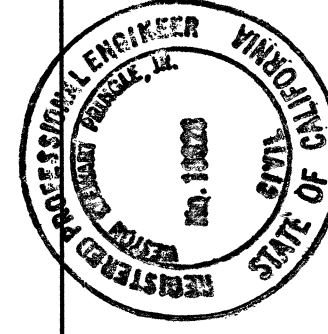
CFD-2001-1

DR. 18 (16655)

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

ENCROACHMENT PERMIT No. 2002-00656

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.



WILLDAN
Serving Public Agencies
27042 Towne Centre Drive, Suite 270
Foothill Ranch, California 92610
949/470-8840 fax 949/770-9041

PREPARED UNDER THE SUPERVISION OF

William A. R. Jr.

WESTON S. PRINCE JR. DATE 4/22/00
D.C.F. 16028

COUNTY OF ORANGE
PFPD/ROAD DIVISION-TRAFFIC ENGINEERING
APPROVED BY: _____ DATE: _____

APPROVED BY:  DATE: 5/29/02

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.

*** FOR BIDDING PURPOSES ONLY - SEE NOTE ABOVE ***

COUNTY OF ORANGE
PLANNING AND DEVELOPMENT SERVICES

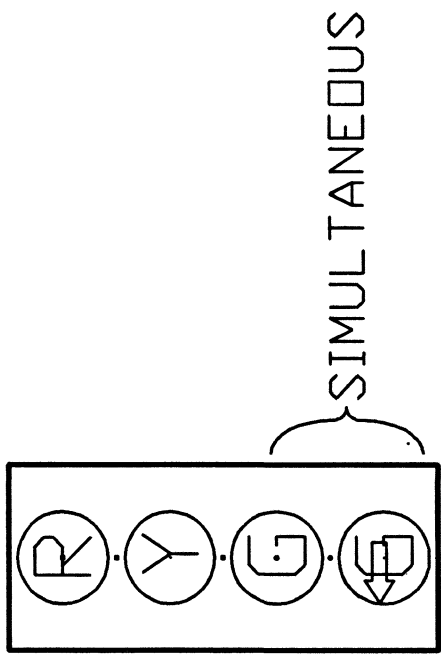
THIS PLAN IS SIGNED BY PLANNING AND DEVELOPMENT SERVICES FOR CONCEPT AND ADHERENCE TO COUNTY STANDARDS AND REQUIREMENTS ONLY. PLANNING AND DEVELOPMENT SERVICES IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS AND ACCURACY.

Patrick Stanton 06/04/02
RCF DATE

FUNDING BY: DEVELOPER

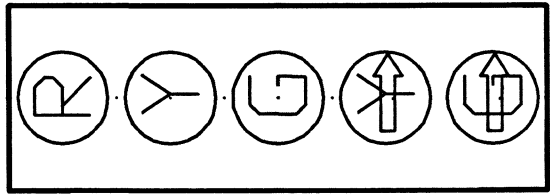
DETAIL A

4-SECTION SIGNAL HEAD
12" LENSES



DETAIL E

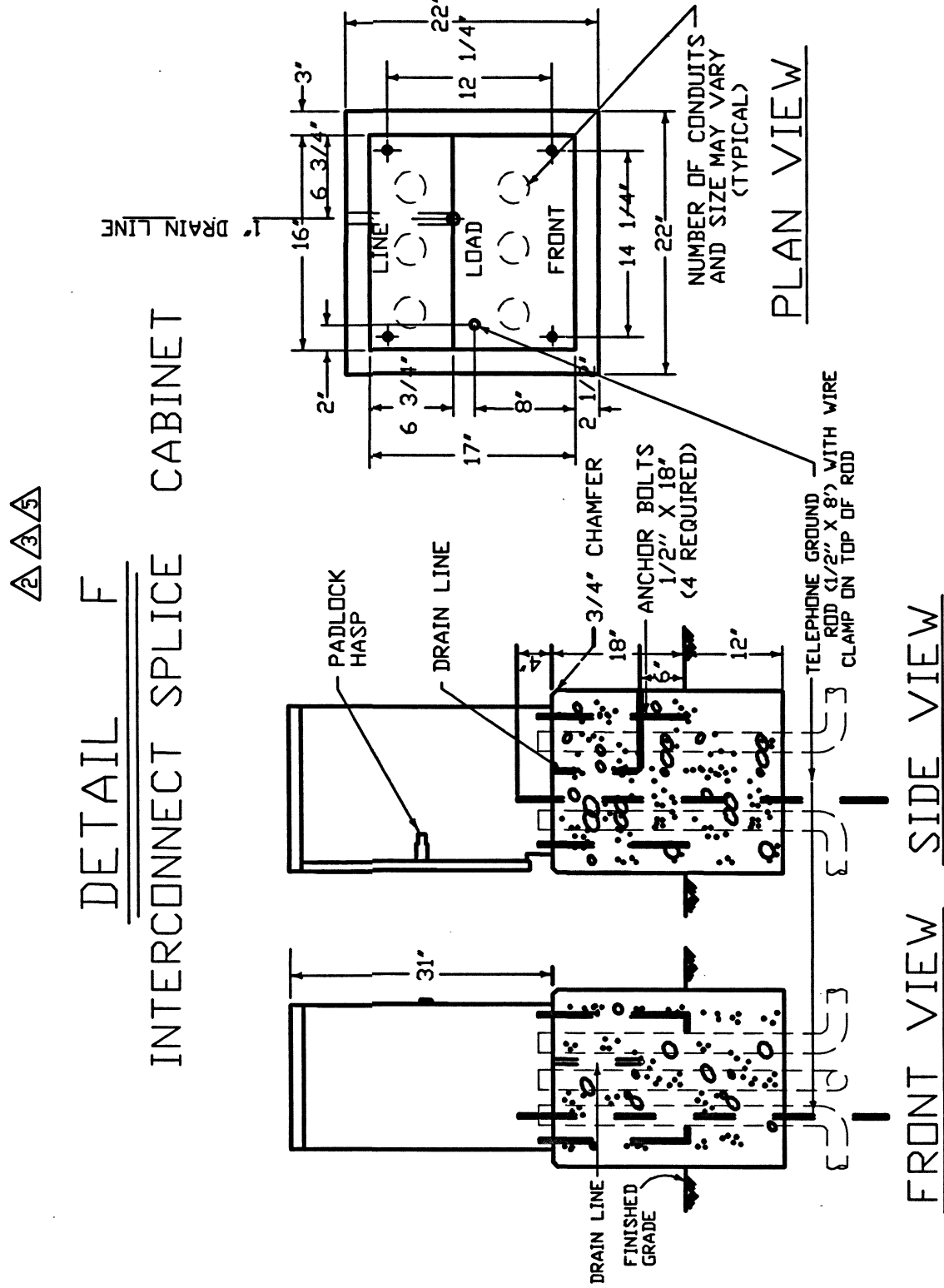
5-SECTION SIGNAL HEAD
12" LENSES



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

DETAIL F

INTERCONNECT SPLICE CABINET

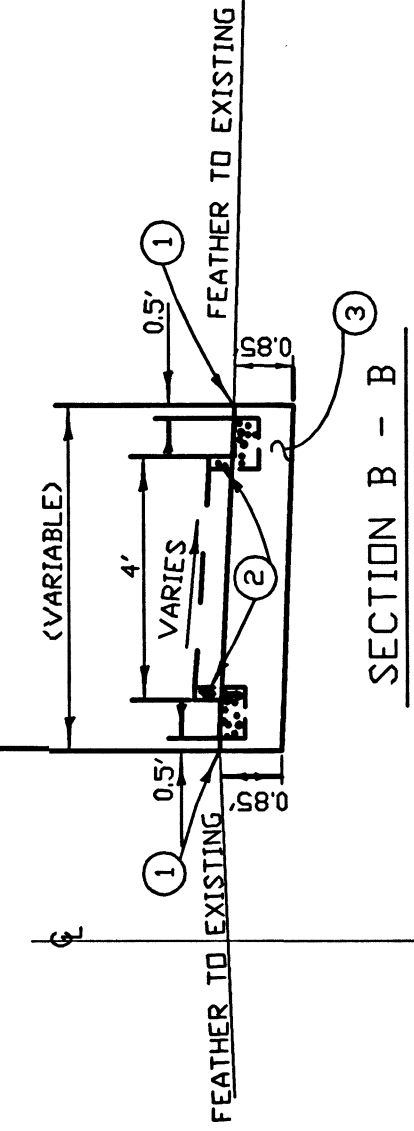
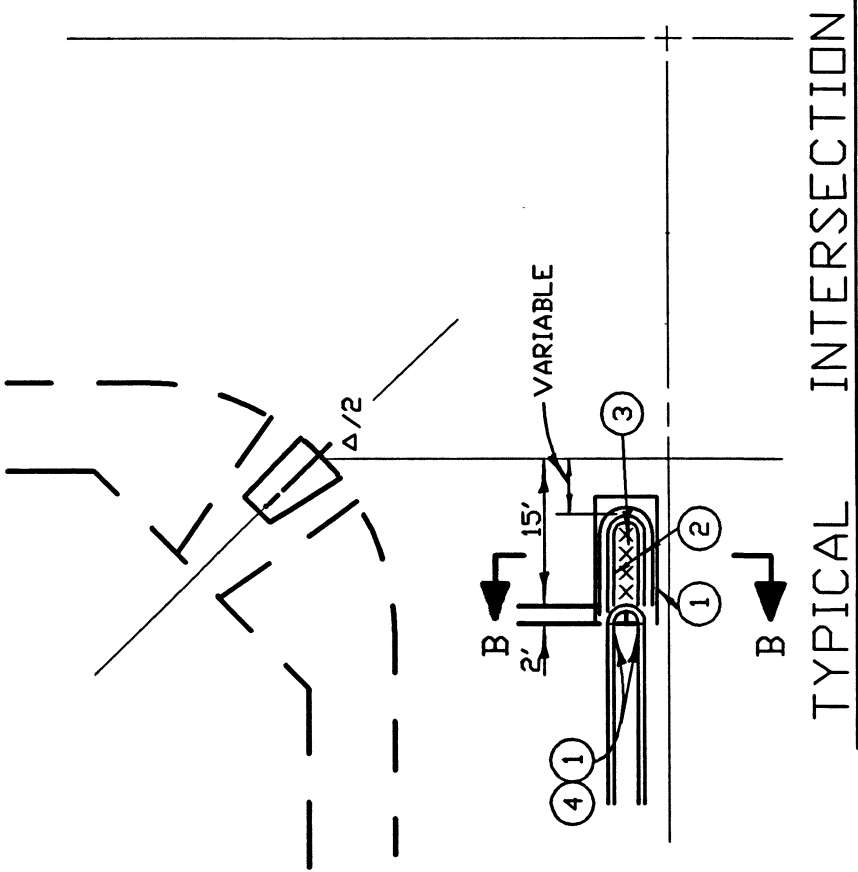


NOTES - DETAIL F

- FOUNDATION TO BE 22" X 22". ANCHOR BOLT PLACEMENT PER CABINET MFG. TEMPLATE.
- ENCLOSURE SHALL BE ALUMINUM AND FURNISHED WITH A DETACHABLE MOUNTING BASE.
- ALL FACTORY INSTALLED COMPONENTS SHALL BE U.L. LISTED OR PER PUBLISHED N.E.C. STANDARDS.
- 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 P-841 STANDOFF FASTENED IN THE CENTER OF THE PANEL.
- ENCLOSURE FINISH SHALL CONFORM TO A.S.T.M. B-117. PAINT TO BE APPLIED TO EXTERNAL OR APPROVED EQUAL. ANTI-GRAFFITI PAINT SHALL BE APPLIED TO CABINET'S 6409 G SERIES OF MANUFACTURE.
- PROVIDE 1 1/2" CONDUIT FOR FUTURE 115 VAC SERVICE.
- PROVIDE GROUND BUS INSIDE SPLICE CABINET.

DETAIL B

INTERSECTIONS RAISED MEDIAN

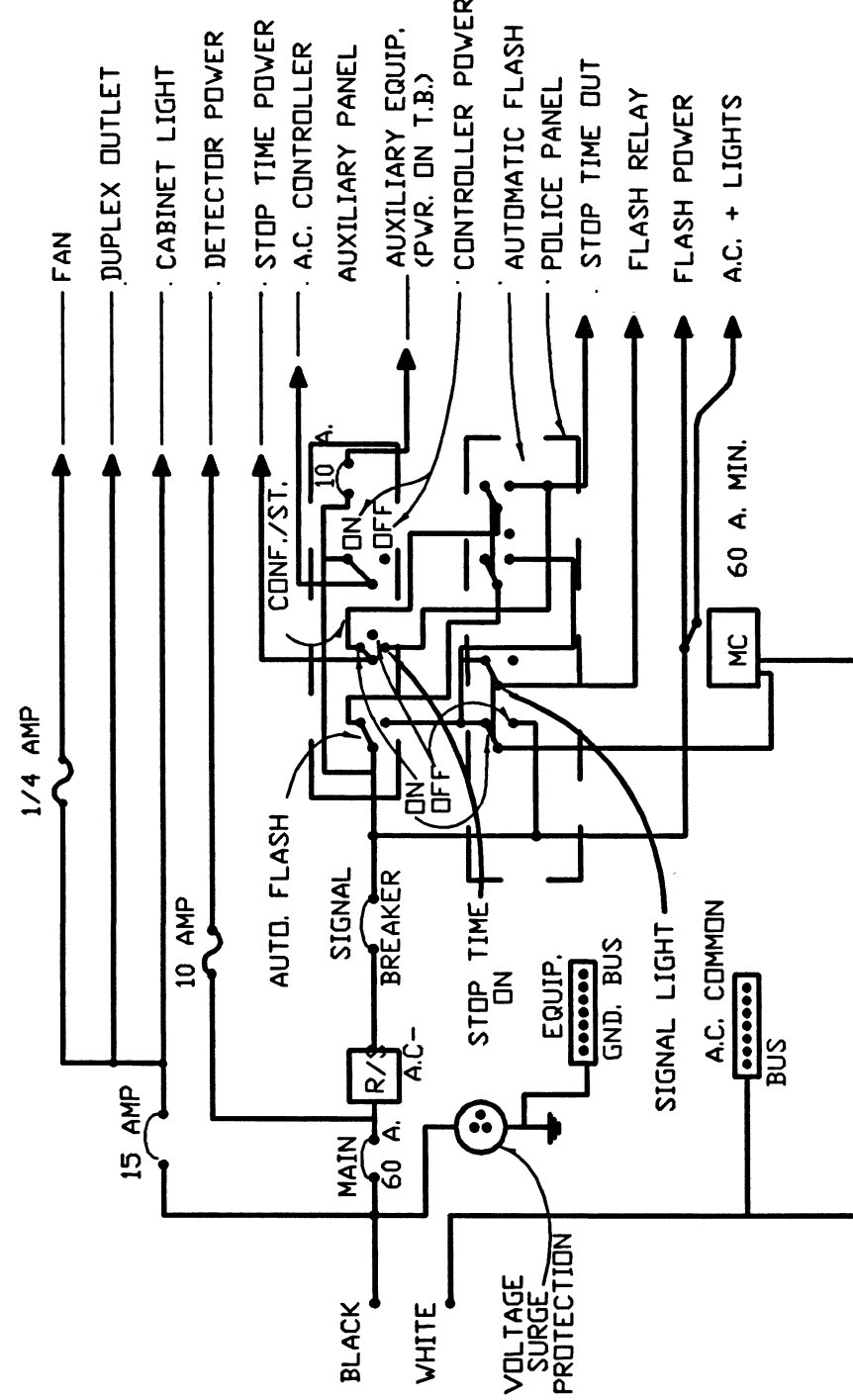


NOTES - DETAILS B

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

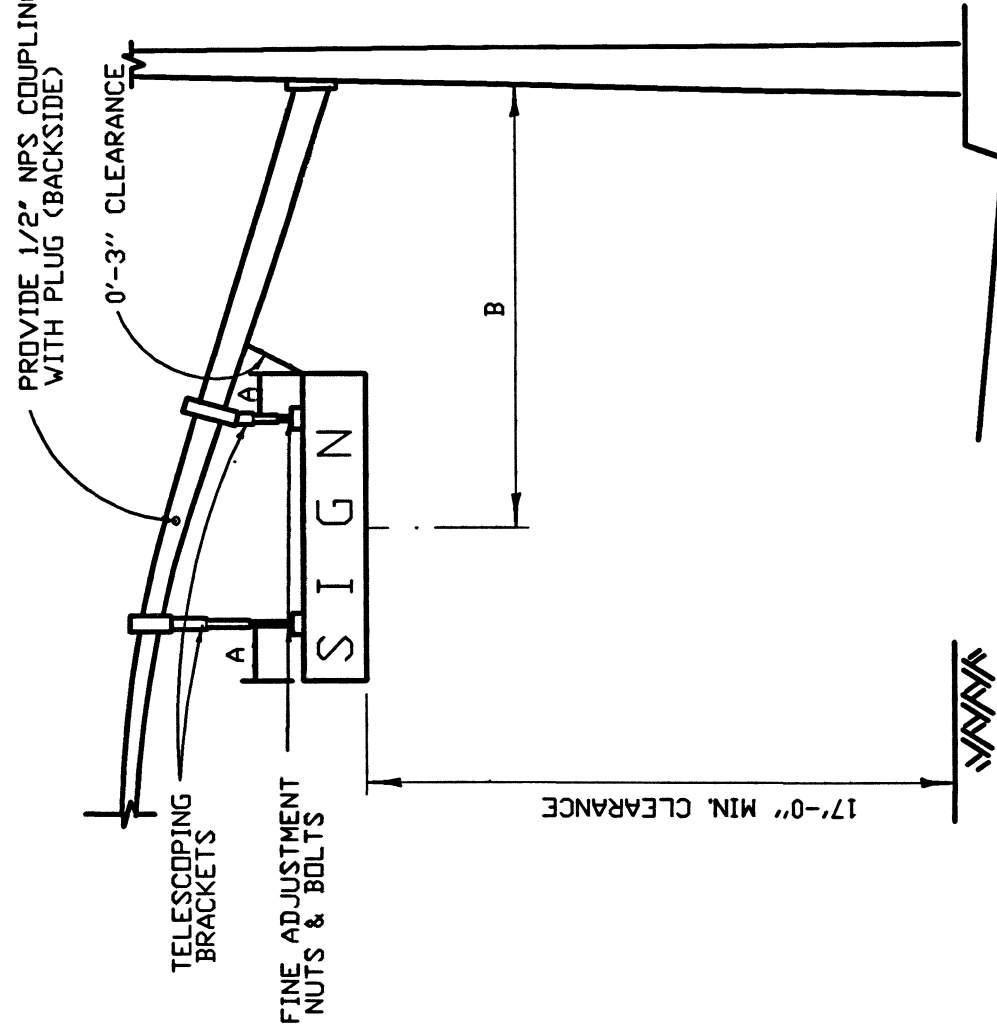
DETAIL G

CONTROLLER CABINET WIRING



DETAIL C

REFLECTORIZED STREET NAME SIGN COMPONENTS

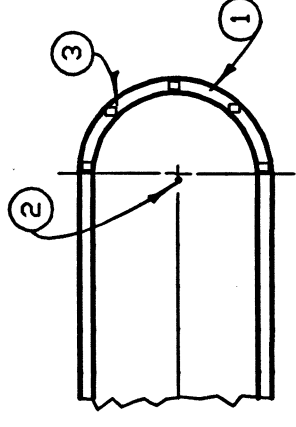


NOTES - DETAIL C

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

DETAIL H

RAISED MEDIAN MARKING

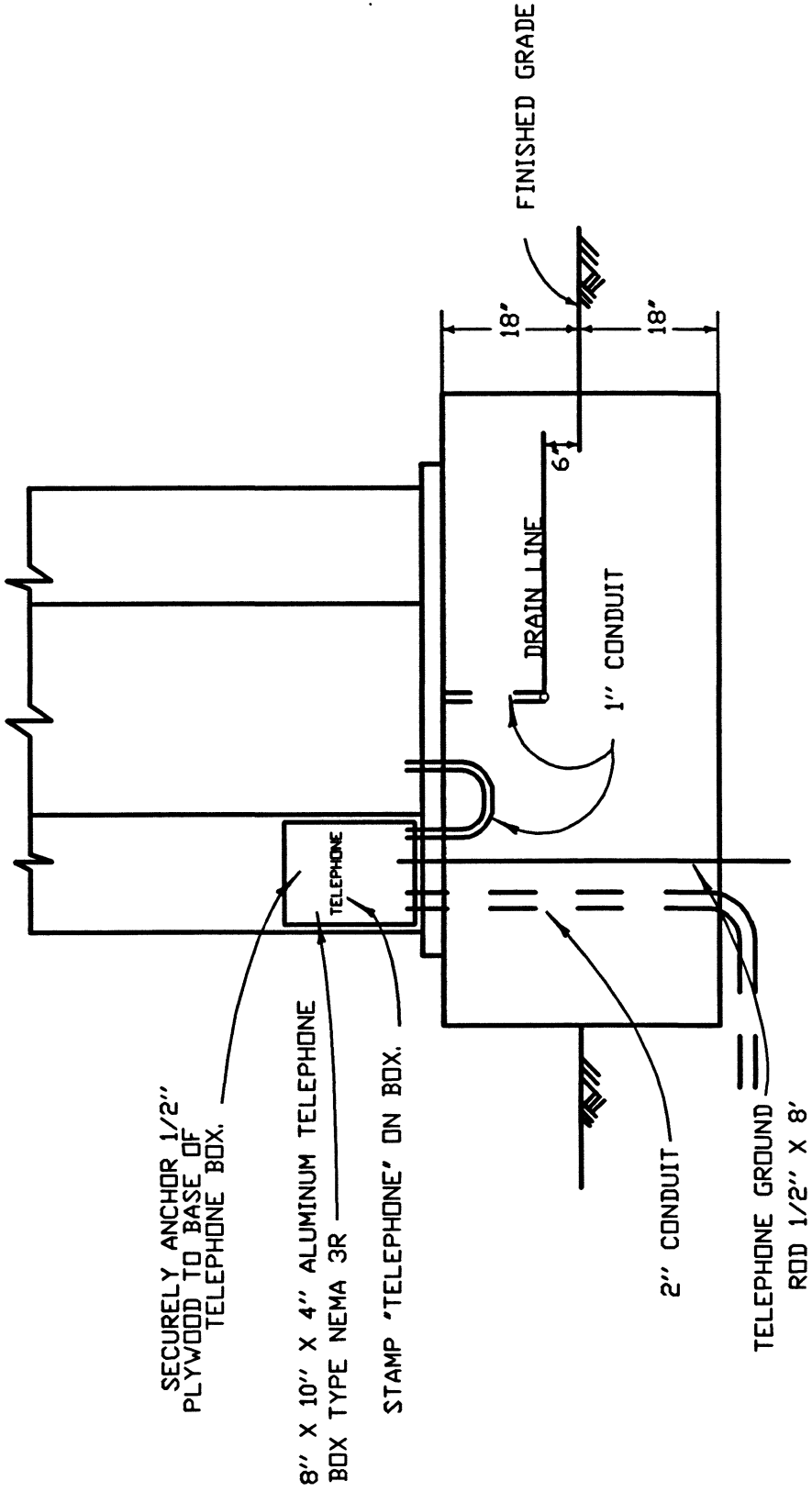


NOTES - DETAIL H

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

DETAIL D

TELEPHONE SERVICE BOX



GENERAL NOTES

- 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.
- 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.
- 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT FOR INSPECTION AT 567-7800.
- THE ENGINEER SHALL APPROVE POLE AND LOOP DETECTION PLACEMENT IN THE FIELD PRIOR TO INSTALLATION.
- ALL CONDUITS SHALL BE 2" UNLESS OTHERWISE NOTED.
- ALL PULL BOXES SHALL BE #5 UNLESS OTHERWISE NOTED.
- 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.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TELEPHONE AND ELECTRICAL SERVICE LINES AND INTERCONNECT HOOK-UPS BETWEEN THE LOCAL CONTROLLER AND THE SYSTEM MASTER.
- PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOL L.E.D. TYPE.
- PEDESTRIAN PUSH BUTTONS SHALL BE TYPE B WITH INTERNATIONAL SYMBOL PLATE.
- ALL VEHICLE INDICATIONS SHALL BE 12" DIAMETER RED, YELLOW, AND GREEN L.E.D. DISPLAYS WITH BACKPLATES.
- CONTRACTOR SHALL POTHOLE CONFLICTING UTILITIES AS DIRECTED BY ENGINEER.
- CONTRACTOR SHALL AVOID DAMAGING EXISTING UTILITIES. (SEE SPECIAL PROVISIONS).
- DETECTOR LOOPS SHALL BE CIRCULAR 6' DIAMETER WITH 9' SPACING IN THE DIRECTION OF TRAVEL UNLESS OTHERWISE NOTED.
- ALL DETECTOR CABLE HOMERUNS SHALL BE IN THE CROSSWALK AREA.
- ALL DETECTOR LOOPS SHALL HAVE FOUR (4) TURNS.
- ALL QUADRUPOLE DETECTOR LOOPS SHALL BE TWO (2-4-2) TURNS.
- TRAFFIC CONTROLLER CABINET FOUNDATION SHALL BE 18" ABOVE AND BELOW FINISHED GRADE (SEE DETAIL D).
- INSTALL "CABINET DOOR OPEN" CIRCUIT IN CONTROLLER CABINET PER MANUFACTURE'S SPECIFICATIONS.
- CONCRETE REPLACEMENT TO MATCH EXISTING.
- MAINTAIN 36 INCHES OF CLEARANCE BETWEEN CABINETS.

PUBLIC FACILITIES & RESOURCES DEPARTMENT		ORANGE COUNTY	
2-29-88	ADDED NOTE 16, SERVICE	DATE	DESCRIPTION
4-4-88	ADDED INTERCONNECT SPLICE CABINET.	DESIGNED	REVISIONS
2-8-88	MODIFIED INTERCONNECT SPLICE CABINET.	DRAWN	CHECKED
11-18-91	MODIFIED CONTROLLER CABINET WIRING.	SCALE	NOT TO SCALE
5-7-93	MODIFIED INTERCONNECT SPLICE CABINET.	SUPERVISION OF	SHEET
11-1-97	MODIFIED OVERHEAD STREET NAME SIGN.	DATE	DATE
3-4-97	MODIFIED DETECTOR LOOP NOTES.	DATE	DATE
8-31-98	ADDED NOTES IN DETAIL E.	DATE	DATE
2/15/00	MODIFIED NOTE 1.	DATE	DATE
10/12/01	MODIFIED NOTES 9 & 10.	DATE	DATE
11/7/01	ADDED NOTE 21.	DATE	DATE

Dg. 18 (16655)
Sheet 3 of 3

CFD-2001-01

DR. 18 (16655)