

# ORANGE COUNTY

Resources & Development Management Department

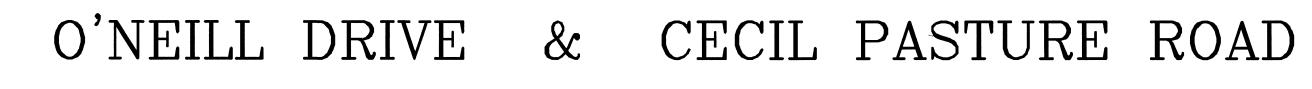
SANTA ANA, CALIFORNIA

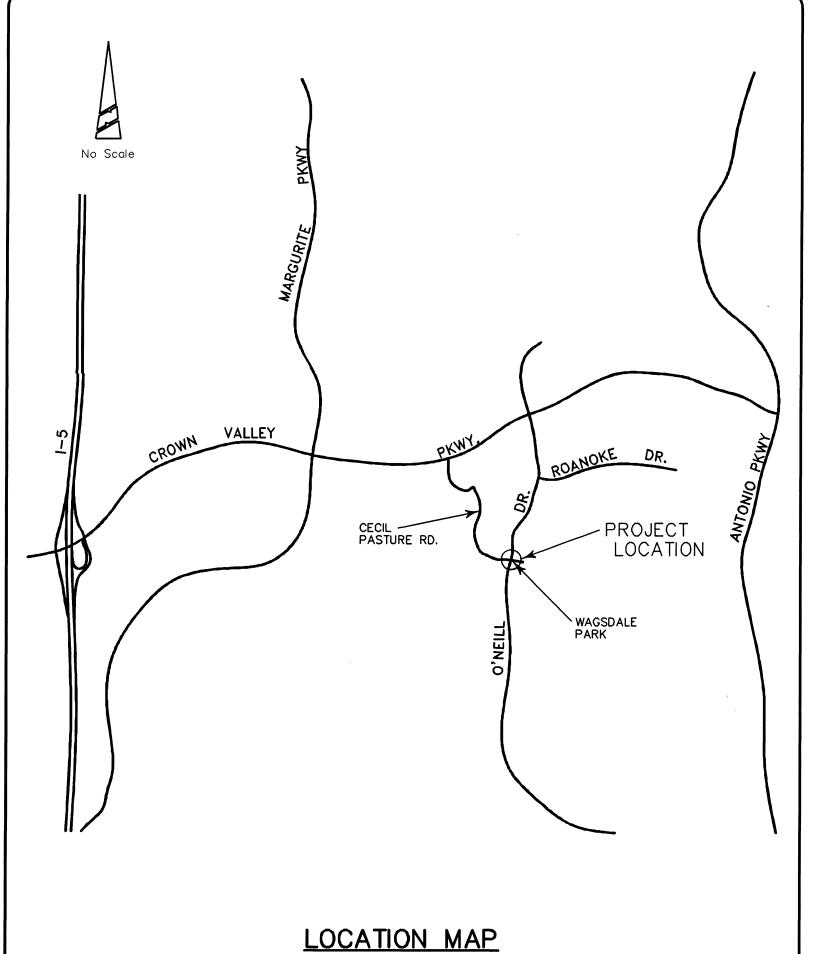
PLANS FOR CONSTRUCTION OF

A

NEW TRAFFIC SIGNAL

AT





FUNDED BY: LADERA RANCH CFD 2004-I

TRACT No.

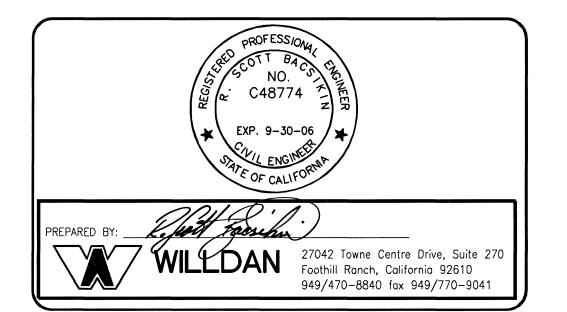
MODULE:

R.D.M.D. — COUNTY OF ORANGE

R.D.M.D./ROAD DIVISION—TRAFFIC ENGINEERING

APPROVED:

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



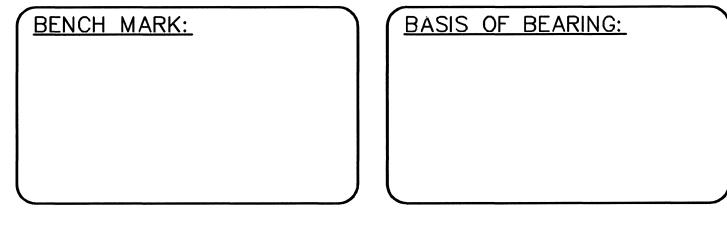
INDEX OF SHEETS

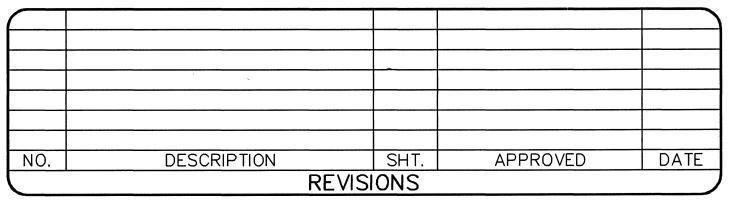
SHEET

DESCRIPTION

- 1. TITLE SHEET
- 2. TRAFFIC SIGNAL PLAN
  O'NEILL DRIVE & CECIL PASTURE ROAD
- 3. TRAFFIC SIGNAL DETAIL SHEET

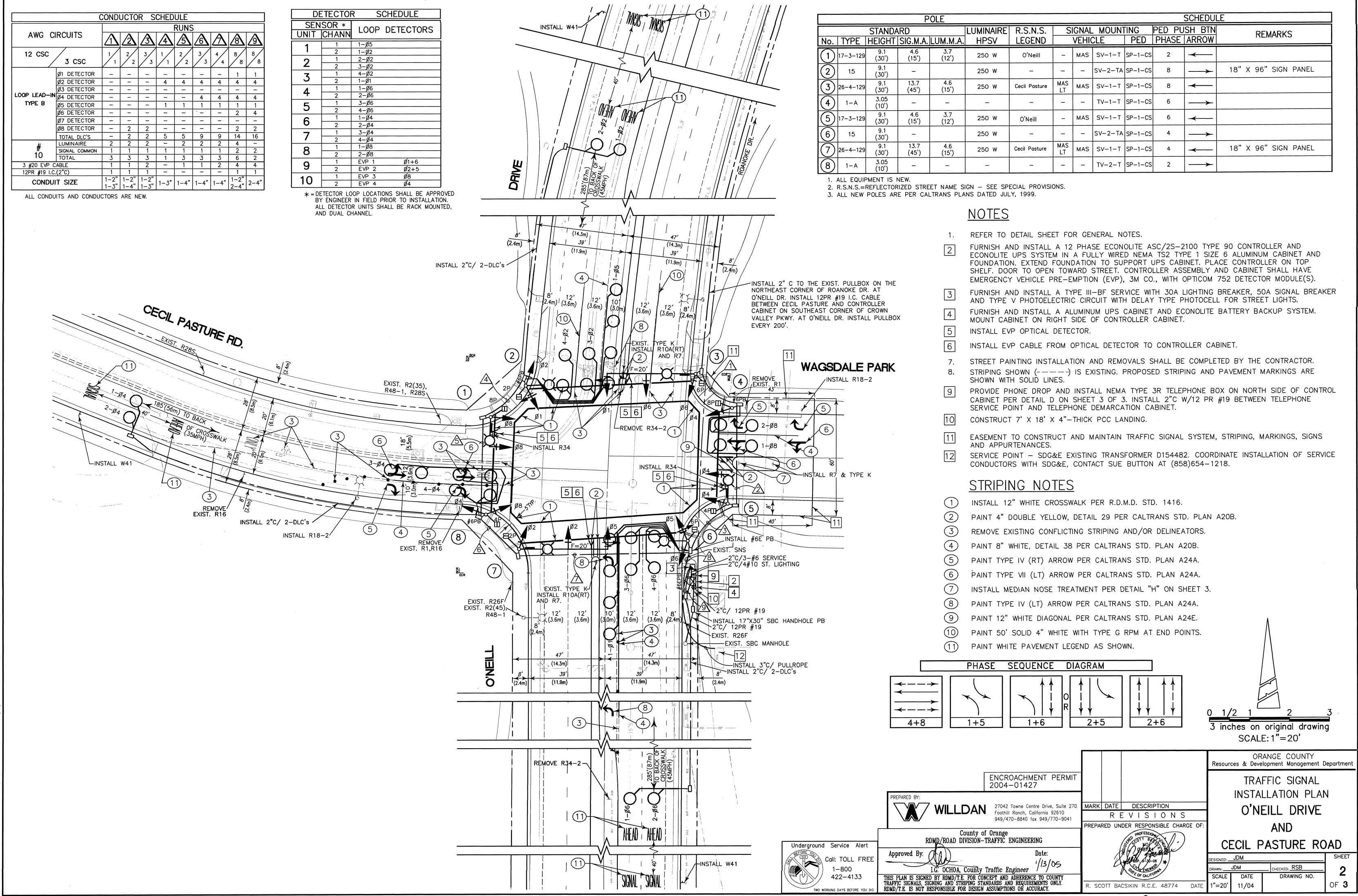
| UTILITY              | PHONE       | CONTACT       |  |  |  |
|----------------------|-------------|---------------|--|--|--|
| 1. SO. CAL. EDISON   | 458-4447    | BRIAN SMITH   |  |  |  |
| 2. PACIFIC BELL      | 259-4459    | JOHN ESTY     |  |  |  |
| 3. M.N. WATER DIST.  | 831-1773    | -             |  |  |  |
| 4. U.S.ALERT 1-8     | 00-422-4133 | •             |  |  |  |
| 5. SO. CAL. GAS CO.  | 634-3115    | DON JONES     |  |  |  |
| 6. COX COMMUNICATION | 240-8828    | LINDA TESSIER |  |  |  |
| 7. S.D.G.& E.        | 361-8047    | PATTI GOOD    |  |  |  |
|                      |             |               |  |  |  |

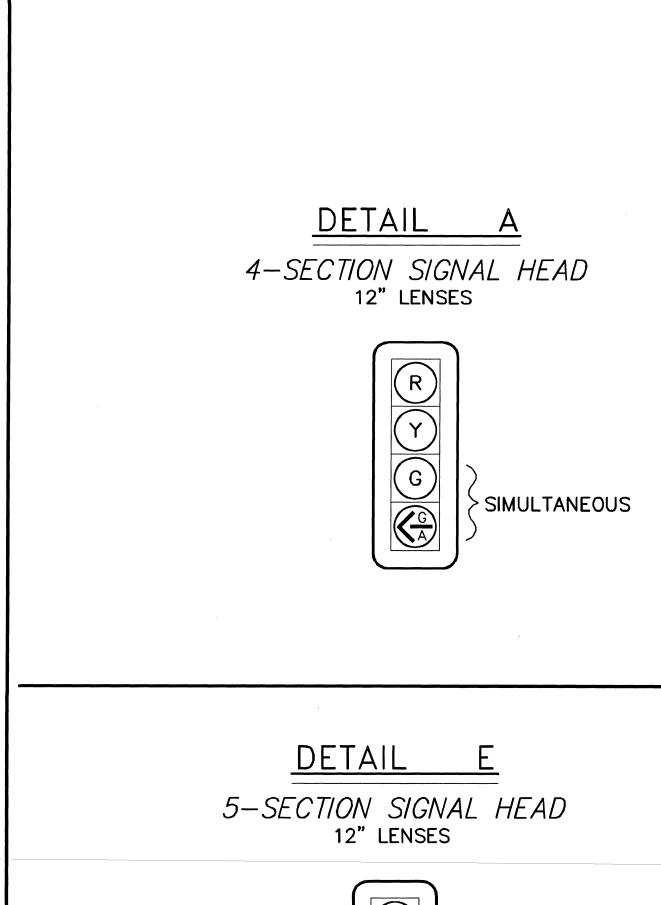




| W.O. NO. |  |
|----------|--|
| DWG. NO. |  |

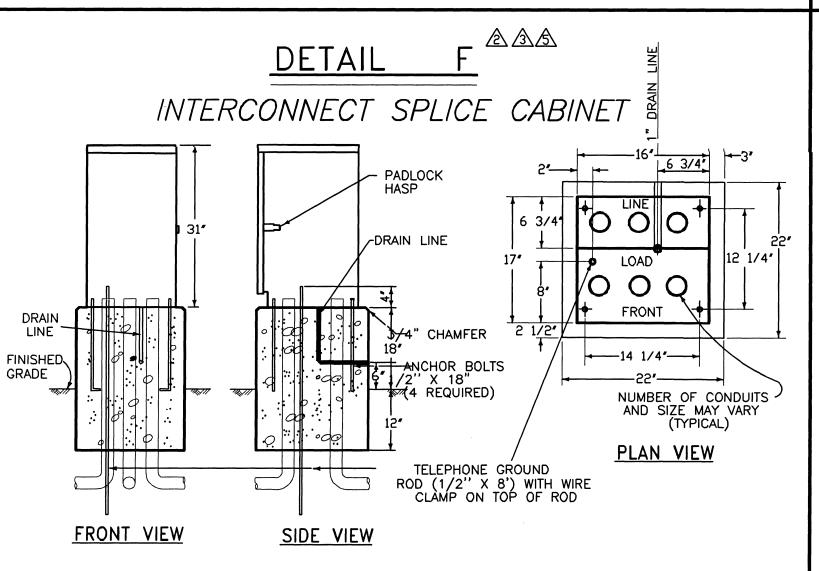
SHEET 1 OF 3





G Y A G

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

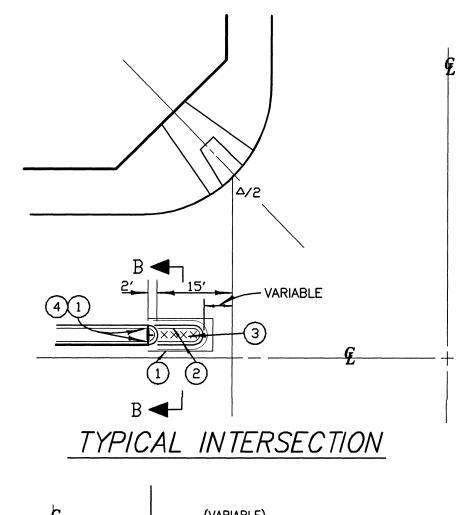


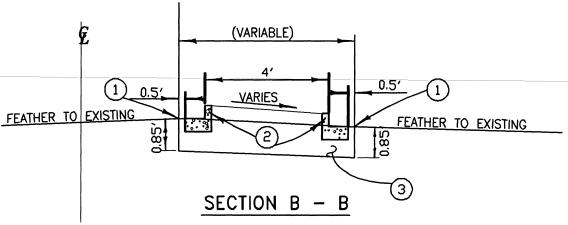
#### NOTES - DETAIL F

- 1. FOUNDATION TO BE 22" X 22". ANCHOR BOLT PLACEMENT PER CABINET MFG. TEMPLATE.
- 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

INTERSECTIONS RAISED MEDIAN





#### NOTES - DETAIL B

SAWCUT AND JOIN EXISTING

10 AMP

**EQUIP** 

GND. BUS

SIGNAL LIGHT

A.C. COMMON

BLACK

WHITE

VOLTAGE SURGE

PROTECTION

AUTO. FLASH.

- CONSTRUCT 0.85' AC OVER NATIVE SOIL
- CONSTRUCT TYPE A1-8 CONCRETE CURB PER APWA STD. PLAN 120-0.

DETAIL

1/4 AMP

CONTROLLER CABINET WIRING

DETECTOR POWER

AUXILIARY PANEL

AUXILIARY EQUIP.

(PWR. ON T.B.)

CONTROLLER POWER

AUTOMATIC FLASH

POLICE PANEL

STOP TIME OUT

FLASH RELAY

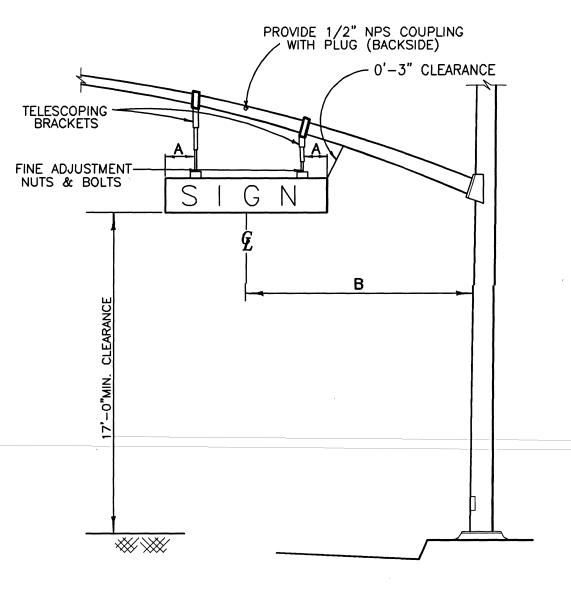
FLASH POWER

A.C. + LIGHTS

A.C. CONTROLLER

## DETAIL

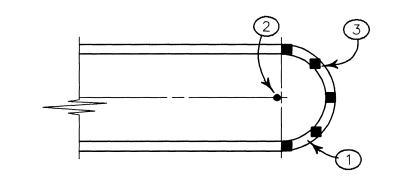
REFLECTORIZED STREET NAME SIGN COMPONENTS



#### 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

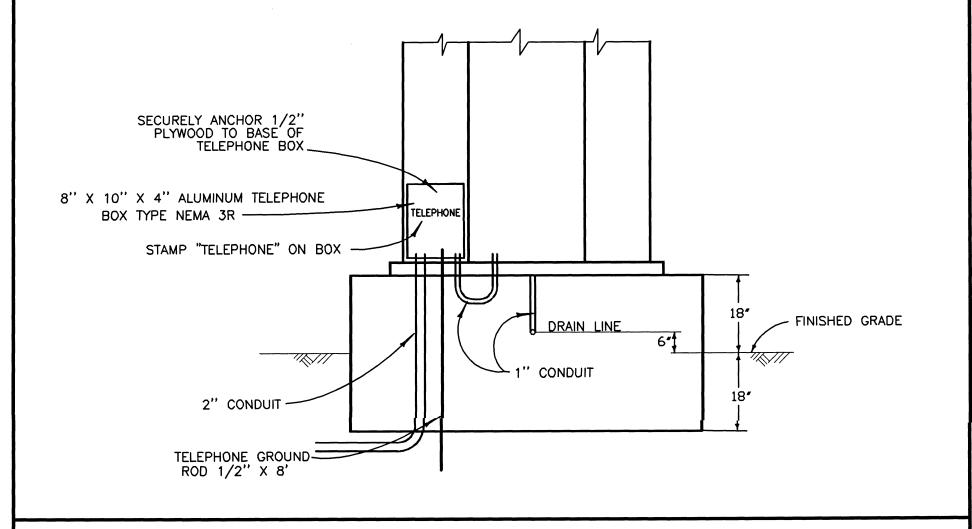


#### NOTES - DETAIL H

- 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 TELSPAR POST AS INDICATED ON THE PLAN.
- 3 INSTALL YELLOW REFLECTIVE PAVEMENT MARKERS ON TOP SURFACE OF MEDIAN CURB NOSE AT 2' C.C. SPACING (MIN. 5 MARKERS). PLACE REFLECTIVE SURFACE OF MARKERS PERPENDICULAR TO & OF ROADWAY.

## DETAIL

TELEPHONE SERVICE BOX



### GENERAL NOTES : AA

- 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.
- 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 R.D.M.D. 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.
- 10 9. PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOL L.E.D. TYPE.
- 10. PEDESTRIAN PUSH BUTTONS SHALL BE TYPE B WITH INTERNATIONAL SYMBOL PLATE.
- 11. ALL VEHICLE INDICATIONS SHALL BE 12" DIAMETER RED, YELLOW AND GREEN L.E.D. DISPLAYS WITH BACKPLATES.
- 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.
- 1 21. MAINTAIN 36 INCHES OF CLEARANCE BETWEEN CABINETS.

| <u>\( \frac{1}{2} \)</u> | 3-29-88<br>4-4-88  | ADDED NOTE 16. DELETED TYPE II SERVICE. ADDED INTERCONNECT SPLICE CABINET.  | ORANGE COUNTY Resources & Development Management Departmen |      |     |           |       | epartment |
|--------------------------|--|---|--|------|-----|-----------|-------|-----------|
|                          | 11-18-91<br>6-7-93<br>1-1-97<br>3-4-97<br>8-31-98<br>2-15-00<br>10-12-01 | MODIFIED INTERCONNECT SPLICE CABINET.  MODIFIED CONTROLLER CABINET WIRING.  MODIFIED INTERCONNECT SPLICE CABINET. | SIG  | SNAL | DET | ΓAIL S    | SHE   | ET        |
| MARK                     | DATE   | DESCRIPTION   | PREPARED UNDER SHEET                                       |      |     |           | SHEET |           |
| REVISIONS                |  | SUPERVISION C   | )F   |      | С   | ATE       | 3     |           |
| DESIGNE                  | )  |   | SCALE<br>NOT TO SCALE                                      | DATE | \ \ | /. O. NO. |       | OF 3      |

DR. 17 (16853)