

EQUIPMENT SCHEDULE

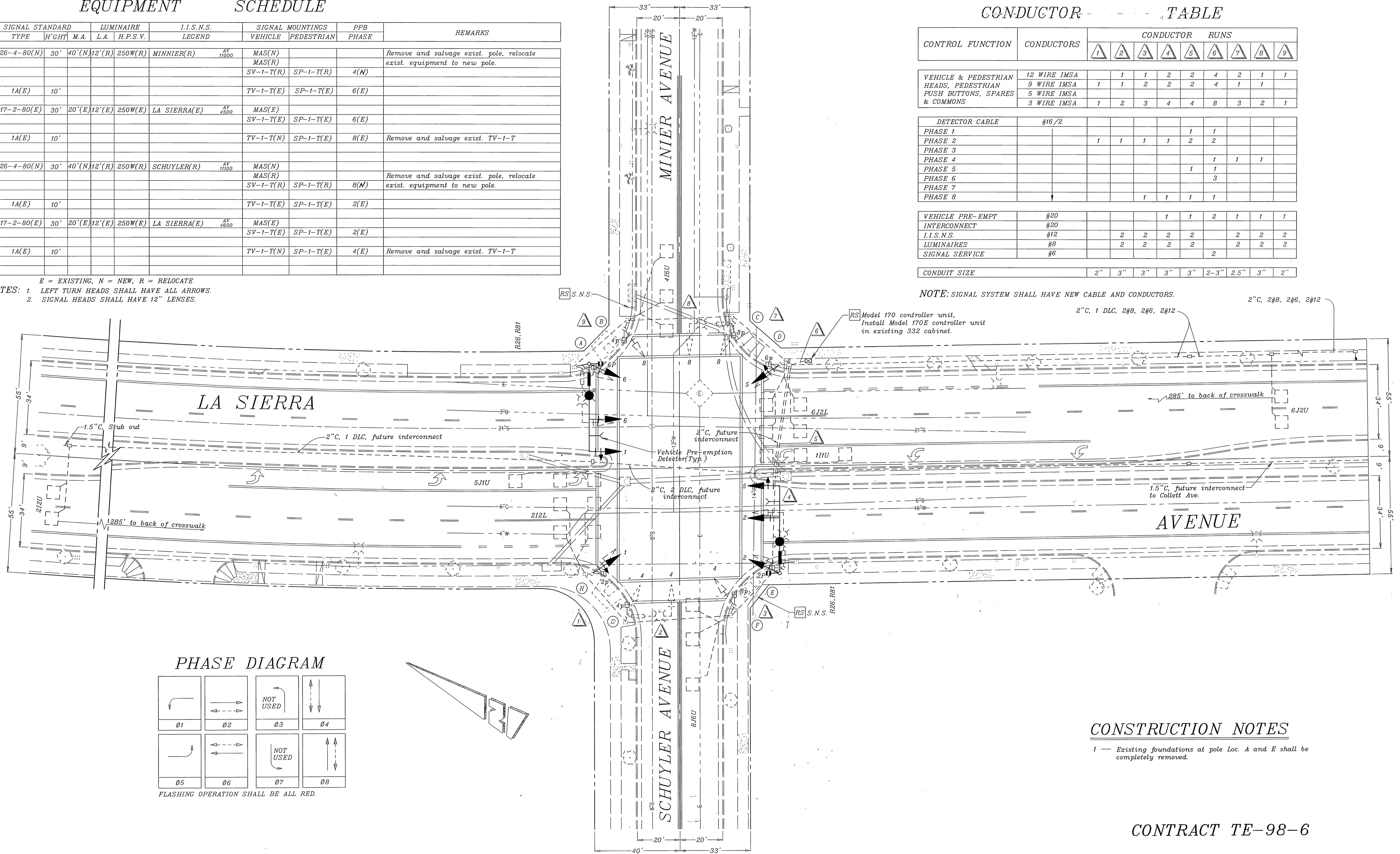
| NO. | SIGNAL STANDARD | | LUMINAIRE | | I.I.S.N.S. | | SIGNAL MOUNTINGS | | PPB PHASE | REMARKS |
|-----|-----------------|-------|-----------|--------|------------|--------------|------------------|------------------|-----------|--|
| | TYPE | H'GHT | M.A. | L.A. | H.P.S.V. | LEGEND | VEHICLE | PEDESTRIAN | | |
| (A) | 26-4-80(N) | 30' | 40'(N) | 12'(R) | 250W(E) | MINNIER(R) | AV 11000 | MAS(N) MAS(R) | | Remove and salvage exist. pole, relocate exist. equipment to new pole. |
| | | | | | | | | SV-1-T(R) | SP-1-T(R) | 4(N) |
| (B) | 1A(E) | 10' | | | | | | TV-1-T(E) | SP-1-T(E) | 6(E) |
| (C) | 17-2-80(E) | 30' | 20'(E) | 12'(E) | 250W(E) | LA SIERRA(E) | AV 4600 | MAS(E) | | |
| | | | | | | | | SV-1-T(E) | SP-1-T(E) | 6(E) |
| (D) | 1A(E) | 10' | | | | | | TV-1-T(N) | SP-1-T(E) | 8(E) |
| | | | | | | | | | | Remove and salvage exist. TV-1-T |
| (E) | 26-4-80(N) | 30' | 40'(N) | 12'(R) | 250W(R) | SCHUYLER(R) | AV 11000 | MAS(N) MAS(R) | | Remove and salvage exist. pole, relocate exist. equipment to new pole. |
| | | | | | | | | SV-1-T(R) | SP-1-T(R) | 8(N) |
| (F) | 1A(E) | 10' | | | | | | TV-1-T(E) | SP-1-T(E) | 2(E) |
| (G) | 17-2-80(E) | 30' | 20'(E) | 12'(E) | 250W(E) | LA SIERRA(E) | AV 4600 | MAS(E) | | |
| | | | | | | | | SV-1-T(E) | SP-1-T(E) | 2(E) |
| (H) | 1A(E) | 10' | | | | | | TV-1-T(N) | SP-1-T(E) | 4(E) |
| | | | | | | | | | | Remove and salvage exist. TV-1-T |

E = EXISTING, N = NEW, R = RELOCATE
 NOTES: 1. LEFT TURN HEADS SHALL HAVE ALL ARROWS.
 2. SIGNAL HEADS SHALL HAVE 12" LENSES.

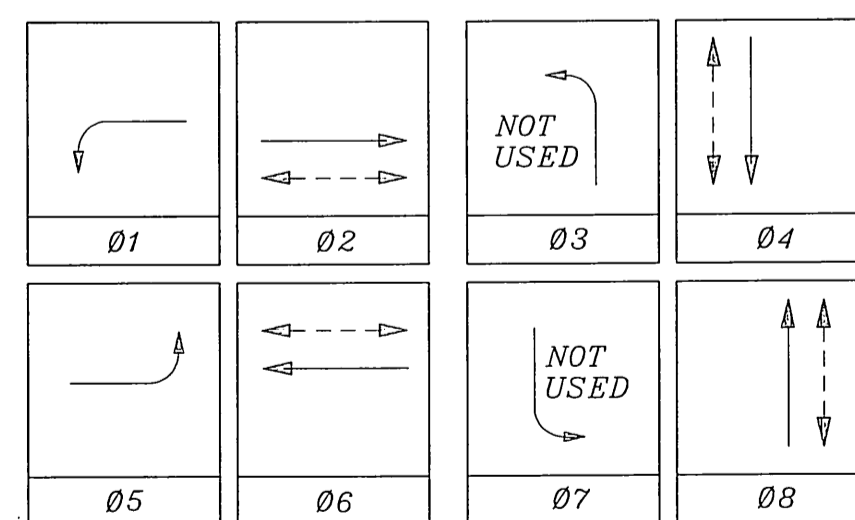
CONDUCTOR TABLE

| CONTROL FUNCTION | CONDUCTORS | CONDUCTOR RUNS | | | | | | | | |
|---|---|----------------|----|----|----|----|------|------|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS | 12 WIRE IMSA 9 WIRE IMSA 5 WIRE IMSA 3 WIRE IMSA | 1 | 1 | 2 | 2 | 4 | 2 | 1 | 1 | |
| DETECTOR CABLE | #16/2 | | | | | | | | | |
| PHASE 1 | | | | | | 1 | 1 | | | |
| PHASE 2 | | 1 | 1 | 1 | 1 | 2 | 2 | | | |
| PHASE 3 | | | | | | | | | | |
| PHASE 4 | | | | | | | | 1 | 1 | 1 |
| PHASE 5 | | | | | | 1 | 1 | | | |
| PHASE 6 | | | | | | | | 3 | | |
| PHASE 7 | | | | | | | | | | |
| PHASE 8 | | | | 1 | 1 | 1 | 1 | | | |
| VEHICLE PRE-EMPT | #20 | | | | 1 | 1 | 2 | 1 | 1 | 1 |
| INTERCONNECT | #20 | | | | | | | | | |
| I.I.S.N.S. | #12 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 |
| LUMINAIRES | #8 | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 |
| SIGNAL SERVICE | #6 | | | | | | 2 | | | |
| CONDUIT SIZE | | 2" | 3" | 3" | 3" | 3" | 2-3" | 2.5" | 3" | 2" |

NOTE: SIGNAL SYSTEM SHALL HAVE NEW CABLE AND CONDUCTORS.



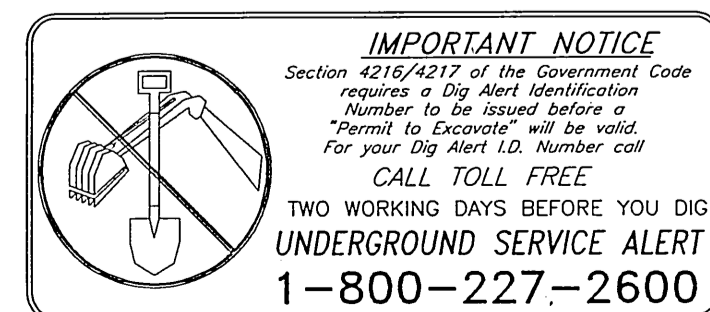
PHASE DIAGRAM



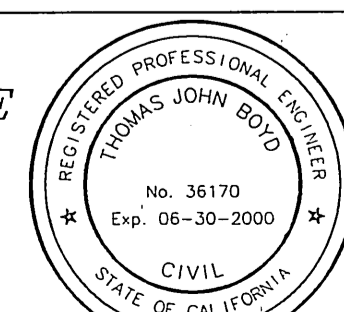
CONSTRUCTION NOTES

1 - Existing foundations at pole Loc. A and E shall be completely removed.

CONTRACT TE-98-6



ENGINEER IN RESPONSIBLE CHARGE
 THOMAS J. BOYD
 R.C.E. No. 36170 expires 3/14/99



| MARK | REVISIONS | APPR. | DATE |
|------|-----------|-------|------|
| | | | |

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: R. McAnath
 DIRECTOR OF PUBLIC WORKS
 DATE: 3-18-99

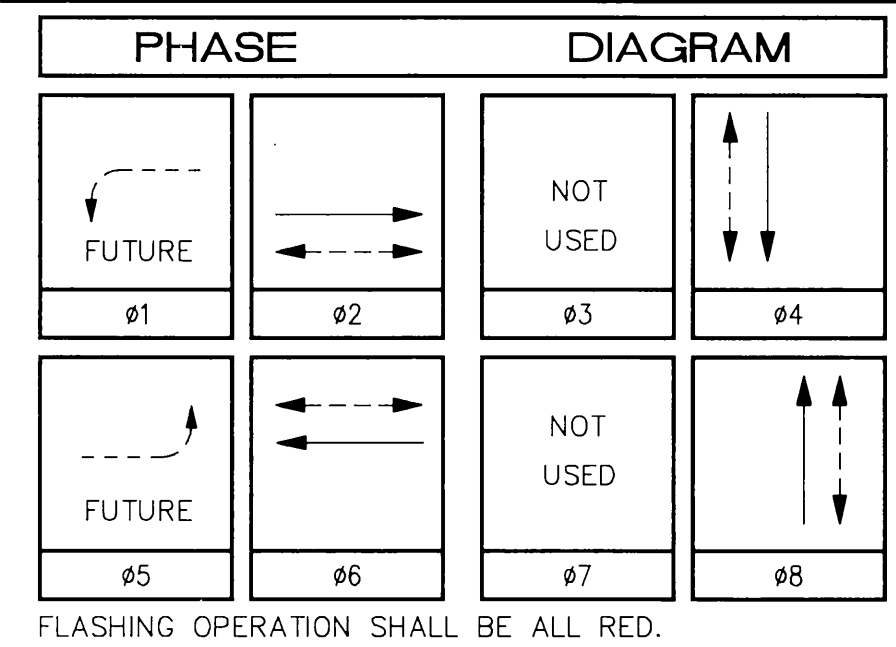
TRAFFIC SIGNAL MODIFICATION
 LA SIERRA AVE @
 MINNIER AVE /
 SCHUYLER AVE.
 SCALE: 1" = 20'

ACCT. NO. 0430-541600-440303-35096
 X-352A
 SHEET 1 OF 1
 FILE NAME: X352A.DWG

| CONDUCTOR | | TABLE | | | | | | | | |
|----------------|-------------------------|-------|----|----|----|----|------|--------|----|----|
| AWG | CIRCUIT | RUNS | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| #14 | #1 (FUTURE) | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 |
| | #2 | - | - | - | 3 | 3 | 3 | - | - | - |
| | #4 | - | 3 | 3 | 3 | 3 | 3 | - | - | - |
| | #5 (FUTURE) | - | - | - | 3 | 3 | 3 | - | - | - |
| | #6 | - | - | - | - | 3 | 3 | 3 | 3 | 3 |
| | #8 | - | - | - | - | 3 | 3 | 3 | - | - |
| | #2 PED | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - |
| | #4 PED | - | 2 | 2 | 2 | 2 | 4 | 2 | 2 | - |
| | #6 PED | - | - | - | - | - | 2 | 2 | 2 | 2 |
| | #8 PED | - | - | 2 | 2 | 2 | 4 | 2 | - | - |
| #2 PPB | - | 1 | 1 | 1 | 1 | 1 | - | - | - | |
| #4 PPB | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | |
| #6 PPB | - | - | - | - | - | 1 | 1 | 1 | - | |
| #8 PPB | - | - | - | 1 | 1 | 1 | - | - | - | |
| #2 BPB | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | |
| #6 BPB | - | - | - | - | - | 1 | - | - | - | |
| PPB/BPB COMMON | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | |
| SPARES | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | |
| TOTAL | 11 | 17 | 19 | 26 | 26 | 48 | 21 | 19 | 13 | |
| TYPE C DLC | #6 DETECTOR (FUTURE #1) | - | - | - | - | 1 | 1 | - | - | |
| | #2 DETECTOR | 1 | 1 | 1 | 1 | 2 | 2 | - | - | |
| | #4 DETECTOR | - | - | - | - | - | 1 | 1 | 1 | |
| | #2 DETECTOR (FUTURE #5) | - | - | - | - | 1 | 1 | - | - | |
| | #6 DETECTOR | - | - | - | - | - | 2 | - | - | |
| #8 DETECTOR | - | - | 1 | 1 | 1 | 1 | - | - | | |
| TOTAL | 1 | 1 | 2 | 2 | 5 | 8 | 1 | 1 | | |
| #12 | I.S.N.S. | - | 2 | 2 | 2 | 2 | - | 2 | 2 | |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | |
| #8 | LUMINAIRE | - | 2 | 2 | 2 | 2 | - | 2 | 2 | |
| #6 | SIGNAL SERVICE | - | - | - | - | - | 2 | - | - | |
| CONDUIT SIZE | | 2" | 3" | 3" | 3" | 3" | 2-3" | 2 1/2" | 3" | 2" |

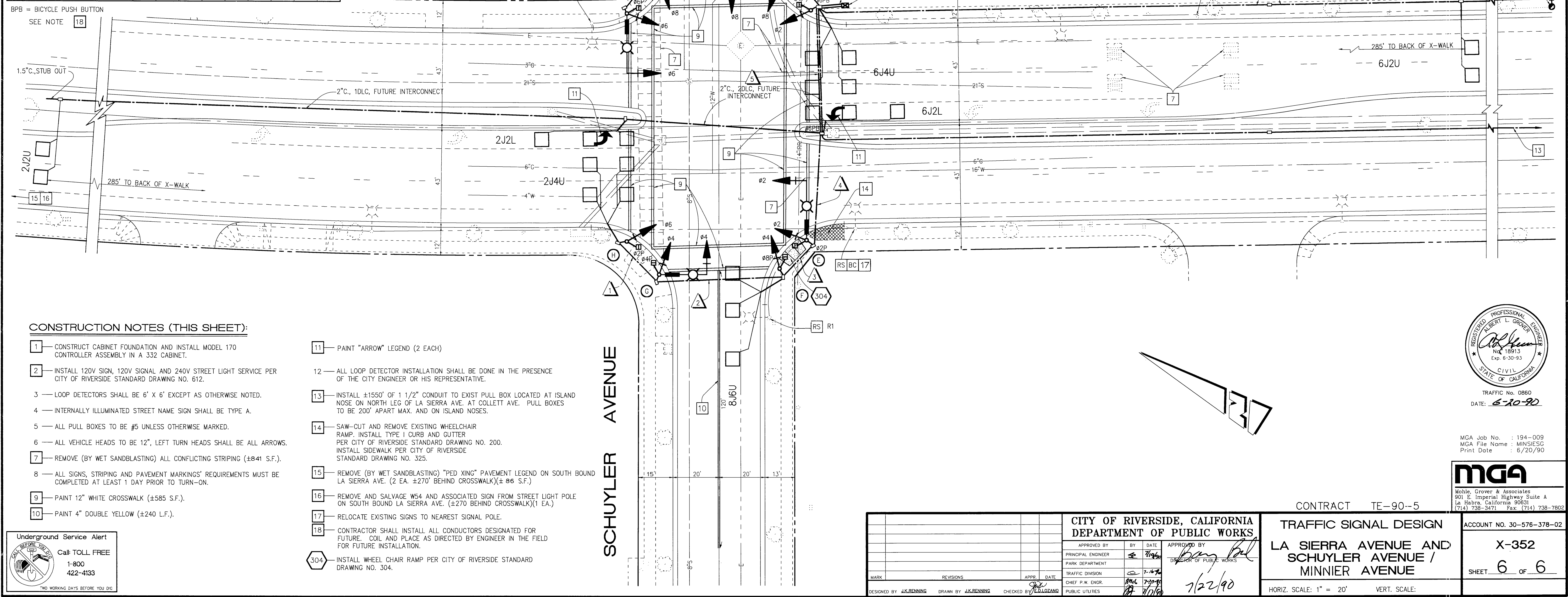
| DETECTOR ASSIGNMENT | | | |
|---------------------|------------------|-----------------|----------|
| CHANNELS | LOOP DESTINATION | NUMBER OF LOOPS | FEATURES |
| 1 | 6J2L | 3 | |
| 2 | 2J2L | 3 | |
| 3 | 2J2U | 2 | ● |
| 4 | 2J4U | 4 | * |
| 5 | 6J2U | 2 | ● |
| 6 | 6J4U | 4 | * |
| 7 | 4J6U | 3 | |
| 8 | 8J6U | 3 | |
| 9 | 111U | - | FUTURE |
| 10 | 5J1U | - | FUTURE |

- DETECTORS SHALL BE 2-CHANNEL RACK-MOUNTED.
 - SEE SPECIAL PROVISIONS FOR DETAILS AND OTHER FEATURES.
 - DETECTOR TIMING FEATURES SHALL BE ACCOMPLISHED THROUGH THE INTERNAL LOGIC OF THE CONTROLLER UNIT.
 - DETECTOR LOOPS WITH SPECIAL FEATURES SHALL ALSO DETECT FOR NORMAL OPERATION.
- ▲ = DELAY
 ■ = CALL HOLD
 ● = FOR SAMPLING (FUTURE)
 * = TYPE II DISCONNECT; SEE SPECIAL PROVISIONS



| POLE | | | | | | | SCHEDULE | | | | | | | |
|------|---------|------|-----------|-----------|---------------|--------------------|-----------------|--------|--------|-------|-----|-----------|---|---------|
| No. | TYPE | HGT. | SIG. M.A. | LUM. M.A. | LUMINAIRE HPS | I.S.N.S. LEGEND | SIGNAL MOUNTING | | | PPB | BPB | PLACEMENT | | REMARKS |
| | | | | | | | SIGNAL | PED | PHASE | PHASE | A | B | | |
| Ⓐ | 19-4-80 | 30' | 25' | 12' | 250W | MINNIER Ave 11000 | MAS | SV-1-T | SP-1-T | ø4 | - | ☆ | ☆ | |
| Ⓑ | 1-A | 10' | - | - | - | - | - | TV-1-T | SP-1-T | ø6 | - | ☆ | ☆ | |
| Ⓒ | 17-2-80 | 30' | 20' | 12' | 200W | LA SIERRA Ave 4900 | MAS | SV-1-T | SP-1-T | ø6 | - | ☆ | ☆ | |
| Ⓓ | 1-A | 10' | - | - | - | - | - | TV-1-T | SP-1-T | ø8 | ø6 | ☆ | ☆ | |
| Ⓔ | 19-4-80 | 30' | 25' | 12' | 250W | SCHUYLER Ave 11100 | MAS | SV-1-T | SP-1-T | ø8 | - | ☆ | ☆ | |
| Ⓕ | 1-A | 10' | - | - | - | - | - | TV-1-T | SP-1-T | ø2 | - | ☆ | ☆ | |
| Ⓖ | 17-2-80 | 30' | 20' | 12' | 200W | LA SIERRA Ave 4600 | MAS | SV-1-T | SP-1-T | ø2 | - | ☆ | ☆ | |
| Ⓗ | 1-A | 10' | - | - | - | - | - | TV-1-T | SP-1-T | ø4 | ø2 | ☆ | ☆ | |

I.S.N.S. = INTERNALLY ILLUMINATED STREET NAME SIGN
 ALL TYPE 1A STANDARDS SHALL BE ALUMINUM.
 F = FUTURE
 ☆ = PLACEMENT TO BE DETERMINED BY ENGINEER IN FIELD.
 BPB=BICYCLE PUSH BUTTON



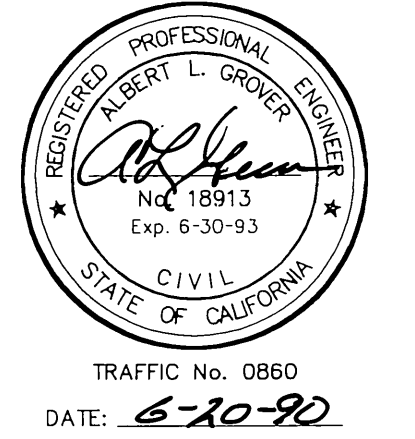
CONSTRUCTION NOTES (THIS SHEET):

- CONSTRUCT CABINET FOUNDATION AND INSTALL MODEL 170 CONTROLLER ASSEMBLY IN A 332 CABINET.
- INSTALL 120V SIGN, 120V SIGNAL AND 240V STREET LIGHT SERVICE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 612.
- LOOP DETECTORS SHALL BE 6' x 6' EXCEPT AS OTHERWISE NOTED.
- INTERNALLY ILLUMINATED STREET NAME SIGN SHALL BE TYPE A.
- ALL PULL BOXES TO BE #5 UNLESS OTHERWISE MARKED.
- ALL VEHICLE HEADS TO BE 12", LEFT TURN HEADS SHALL BE ALL ARROWS.
- REMOVE (BY WET SANDBLASTING) ALL CONFLICTING STRIPING (±841 S.F.).
- ALL SIGNS, STRIPING AND PAVEMENT MARKINGS' REQUIREMENTS MUST BE COMPLETED AT LEAST 1 DAY PRIOR TO TURN-ON.
- PAINT 12" WHITE CROSSWALK (±585 S.F.).
- PAINT 4" DOUBLE YELLOW (±240 L.F.).
- PAINT "ARROW" LEGEND (2 EACH)
- ALL LOOP DETECTOR INSTALLATION SHALL BE DONE IN THE PRESENCE OF THE CITY ENGINEER OR HIS REPRESENTATIVE.
- INSTALL ±1550' OF 1 1/2" CONDUIT TO EXIST PULL BOX LOCATED AT ISLAND NOSE ON NORTH LEG OF LA SIERRA AVE. AT COLLETT AVE. PULL BOXES TO BE 200' APART MAX. AND ON ISLAND NOSES.
- SAW-CUT AND REMOVE EXISTING WHEELCHAIR RAMP. INSTALL TYPE I CURB AND GUTTER PER CITY OF RIVERSIDE STANDARD DRAWING NO. 200. INSTALL SIDEWALK PER CITY OF RIVERSIDE STANDARD DRAWING NO. 325.
- REMOVE (BY WET SANDBLASTING) "PED XING" PAVEMENT LEGEND ON SOUTH BOUND LA SIERRA AVE. (2 EA. ±270' BEHIND CROSSWALK)(±86 S.F.).
- REMOVE AND SALVAGE W54 AND ASSOCIATED SIGN FROM STREET LIGHT POLE ON SOUTH BOUND LA SIERRA AVE. (±270 BEHIND CROSSWALK)(1 EA.)
- RELOCATE EXISTING SIGNS TO NEAREST SIGNAL POLE.
- CONTRACTOR SHALL INSTALL ALL CONDUCTORS DESIGNATED FOR FUTURE. COIL AND PLACE AS DIRECTED BY ENGINEER IN THE FIELD FOR FUTURE INSTALLATION.
- INSTALL WHEEL CHAIR RAMP PER CITY OF RIVERSIDE STANDARD DRAWING NO. 304.

Underground Service Alert

Call TOLL FREE
1-800
422-4133

TWO WORKING DAYS BEFORE YOU DIG



MGA Job No. : 194-009
MGA File Name : MINSIESG
Print Date : 6/20/90



CONTRACT TE-90-5

| CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS | | | |
|---|-----------------------|----------------------|--------------------------|
| APPROVED BY | BY | DATE | APPROVED BY |
| PRINCIPAL ENGINEER | [Signature] | 7/90 | [Signature] |
| PARK DEPARTMENT | | | DIRECTOR OF PUBLIC WORKS |
| TRAFFIC DIVISION | | 7-16-90 | |
| CHIEF P.W. ENGR. | | 7-20-90 | |
| PUBLIC UTILITIES | | 8/1/90 | |
| DESIGNED BY J.K. BENNING | DRAWN BY J.K. BENNING | CHECKED BY J. LOZANO | |

TRAFFIC SIGNAL DESIGN
LA SIERRA AVENUE AND
SCHUYLER AVENUE /
MINNIER AVENUE

ACCOUNT NO. 30-576-378-02
X-352
SHEET **6** OF **6**

HORIZ. SCALE: 1" = 20' VERT. SCALE:

27. C.P.S.
Dwp.
W 8/14/90
RRE 7-18-90
LW 7/10/90