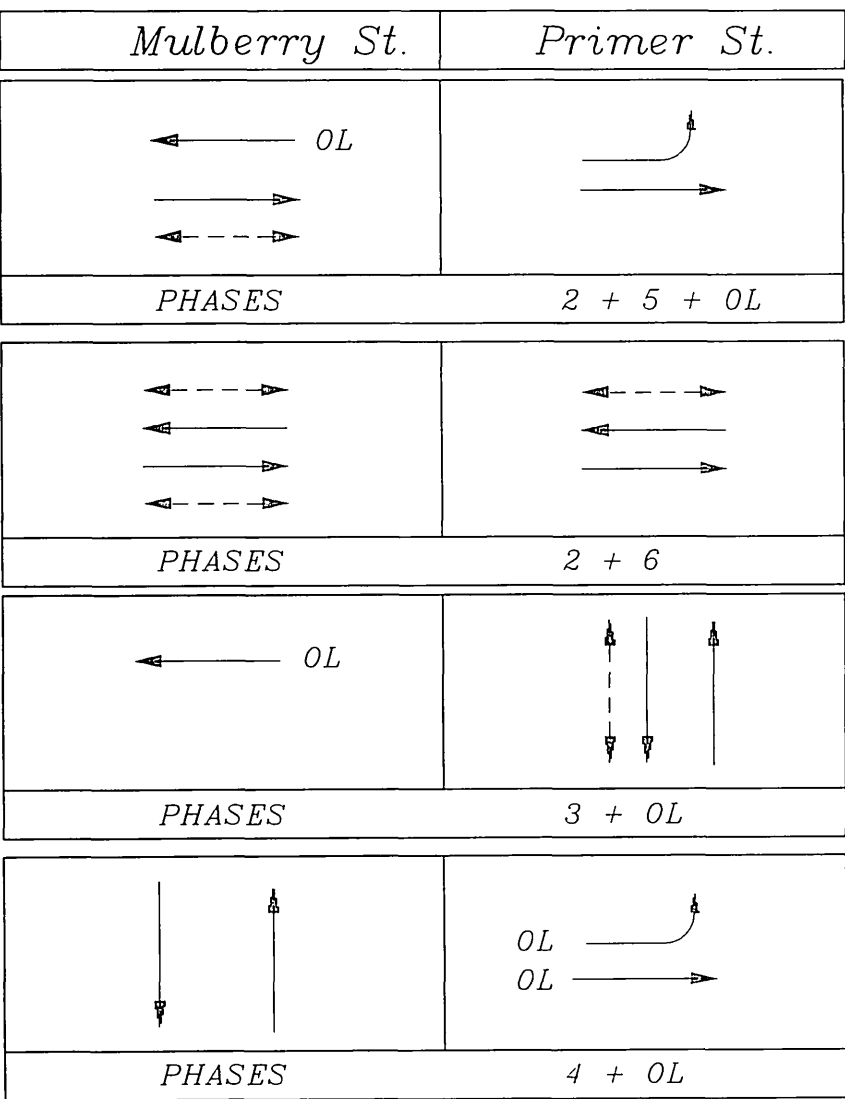


PHASE DIAGRAM



FLASHING OPERATION SHALL BE ALL RED.
PHASE SEQUENCE WITH CALLS ON ALL PHASES.
REQUIRED OVERLAP (OL) PHASES TO BE PROVIDED:
OL 2 + 4
OL 3 + 5 + 6
OL 4 + 5

CONDUCTORS SCHEDULE

| CONTROL FUNCTION | CONDUCTORS | | RUNS | | | | | | | | | | | |
|-------------------------|------------|------------|-------|------|------|------|------|------|------|------|------|------|------|----|
| | SIZE | INSULATION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| VEHICLE HEADS #14 T.W. | | | | | | | | | | | | | | |
| OL 2+4 | | | | | | | | | | | | | | |
| OL 3+5+6 | | | | | | | | | | | | | | |
| OL 4+5 | | | | | | | | | | | | | | |
| PED. HEADS | | | | | | | | | | | | | | |
| PED. PUSH BUTTON | | | | | | | | | | | | | | |
| SPARES 12V COMMON | | | | | | | | | | | | | | |
| DETECTORS #16/2 P.E. | | | | | | | | | | | | | | |
| I.I.S.N.S. #12 T.W. | | | | | | | | | | | | | | |
| 120V COMMON #10 T.W. | | | | | | | | | | | | | | |
| LUMINAIRES #8 T.H.W. | | | | | | | | | | | | | | |
| SIGNAL SERVICE #6 T.W. | | | | | | | | | | | | | | |
| INTERCONNECT #20/2 P.E. | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | |
| #14 EQUIV | 18.5 | 27.5 | 115.5 | 73 | 17.5 | 20.5 | 59.5 | 36.5 | 18.5 | 33.5 | 23.5 | 20.5 | 13 | |
| CONDUIT SIZE | 2" | 2" | 2-7" | 3.5" | 2" | 3" | 2.5" | 2" | 2.5" | 2" | 2" | 2" | 1.5" | |

POLE SCHEDULE

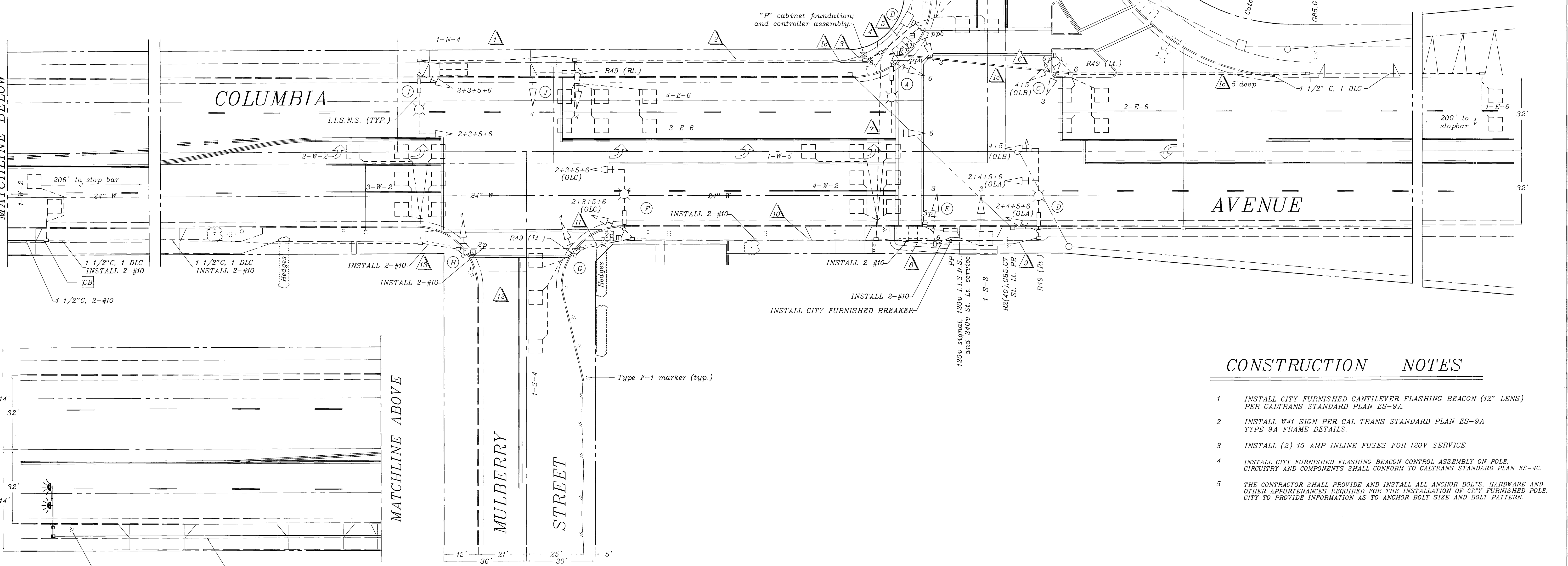
| No. | TYPE | STANDARD | | | LUM. HPSV | I.S.N.S. LEGEND | SIGNAL HEAD | SIGNAL MOUNTING VEHICLE | PPB PHASE |
|-----|---------|----------|------|------|-----------|------------------|-------------|-------------------------|-----------|
| | | HGT. | SIG. | M.A. | | | | | |
| A | 19-2-80 | 30' | 30' | 12' | 250w | Primer St | 1W3C | MAS | SP-1-T |
| B | 1A | 10' | | | | | 1W3C | TV-1-T | SP-1-T |
| C | 1A | 10' | | | | | 1W3C | TV-2-T | SP-1-T |
| D | 24-4-80 | 30' | 35' | 12' | 250w | Primer St | 1W3C | MAS | |
| E | 16-2-80 | 30' | 20' | | | Columbia Av 3200 | 1W3C | MAS | SP-1-T |
| F | 19-2-80 | 30' | 25' | 12' | 250w | Muberry St 1200 | 1W3C | MAS | SP-1-T |
| G | 1A | 10' | | | | | 1W3C | TV-1-T | |
| H | 1A | 10' | | | | | 1W3C | TV-1-T | SP-1-T |
| I | 19-2-80 | 30' | 25' | 12' | 250w | Muberry St | 1W3C | MAS | |
| J | 1A | 10' | | | | | 1W3C | TV-1-T | |
| K | 16-2-80 | 17' | 15' | | | Columbia Av 3200 | 1W3C | MAS | |

NOTE: 1. All 1A standards are aluminum.
2. All vehicular heads have 12" lenses.
3. All Left-turn vehicular heads have all arrows.
4. Luminaires are High Pressure Sodium Vapor.

DETECTOR SCHEDULE

| CHANNELS | LOOP DESIGNATION | NUMBER OF LOOPS | FEATURES |
|----------|------------------|-----------------|----------|
| 1 | 1-N-3 | 3 | |
| 2 | 2-N-3 | 3 | |
| 1 | 1-E-6 | 2 | ● |
| 2 | 2-E-6 | 4 | ● |
| 1 | 3-E-6 | 3 | |
| 2 | 4-E-6 | 3 | |
| 1 | 1-N-4 | 1 | ▲ |
| 2 | 1-S-4 | 3 | |
| 1 | 1-W-2 | 2 | ● |
| 2 | 2-W-2 | 3 | |
| 1 | 3-W-2 | 4 | |
| 2 | 4-W-2 | 4 | |
| 1 | 1-W-5 | 3 | |
| 2 | 1-S-3 | 1 | ▲ |

● Sampling (future)
■ Call-hold (extension)
▲ Delay



CONSTRUCTION NOTES

- INSTALL CITY FURNISHED CANTILEVER FLASHING BEACON (12" LENS) PER CALTRANS STANDARD PLAN ES-9A.
- INSTALL W41 SIGN PER CAL TRANS STANDARD PLAN ES-9A TYPE 9A FRAME DETAILS.
- INSTALL (2) 15 AMP INLINE FUSES FOR 120V SERVICE.
- INSTALL CITY FURNISHED FLASHING BEACON CONTROL ASSEMBLY ON POLE; CIRCUITRY AND COMPONENTS SHALL CONFORM TO CALTRANS STANDARD PLAN ES-4C.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ANCHOR BOLTS, HARDWARE AND OTHER APPURTENANCES REQUIRED FOR THE INSTALLATION OF CITY FURNISHED POLE CITY TO PROVIDE INFORMATION AS TO ANCHOR BOLT SIZE AND BOLT PATTERN.

IMPORTANT NOTICE
Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be issued. For your Dig Alert I.D. Number call CALL TOLL FREE TWO WORKING DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

ENGINEER IN RESPONSIBLE CHARGE
THOMAS JOHN BOYD
R.C.E. No. 36170 expires 6/30/04
DATE 2/16/02

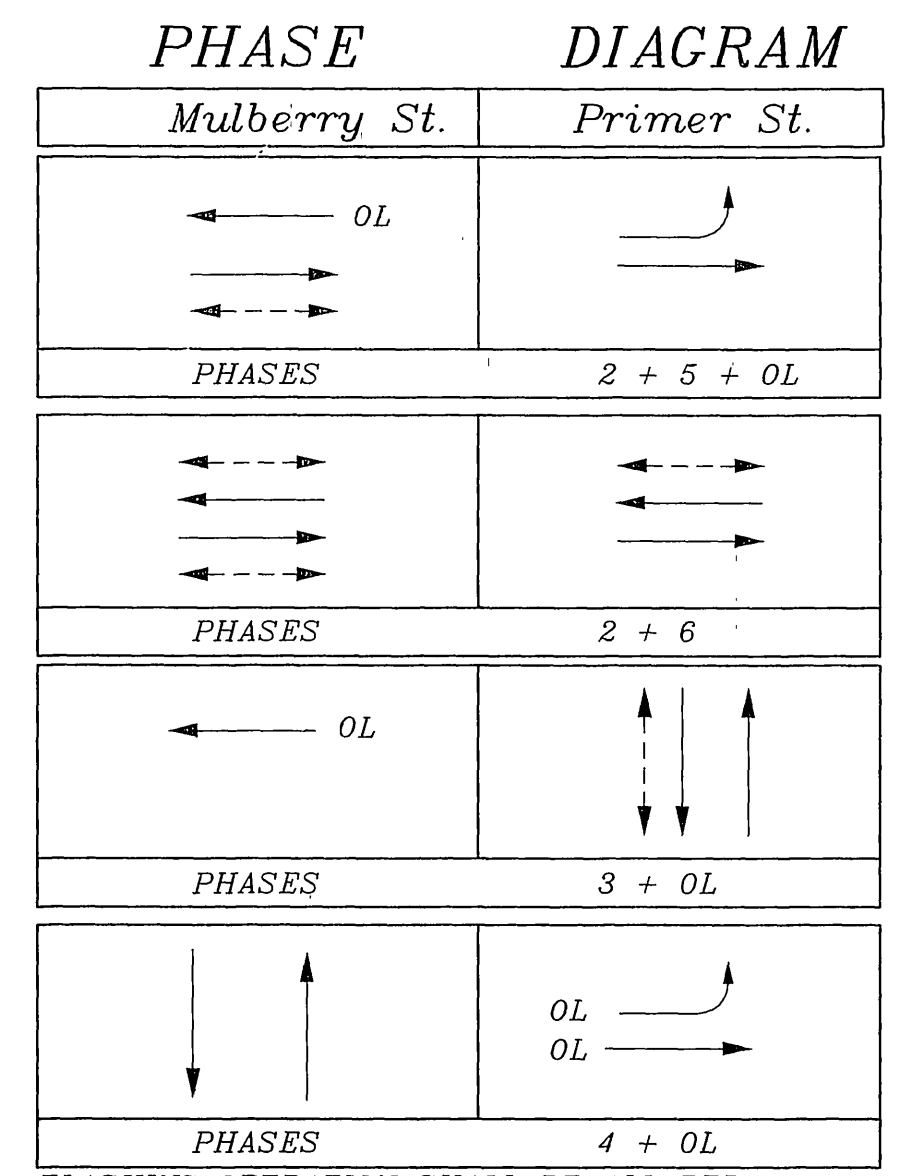
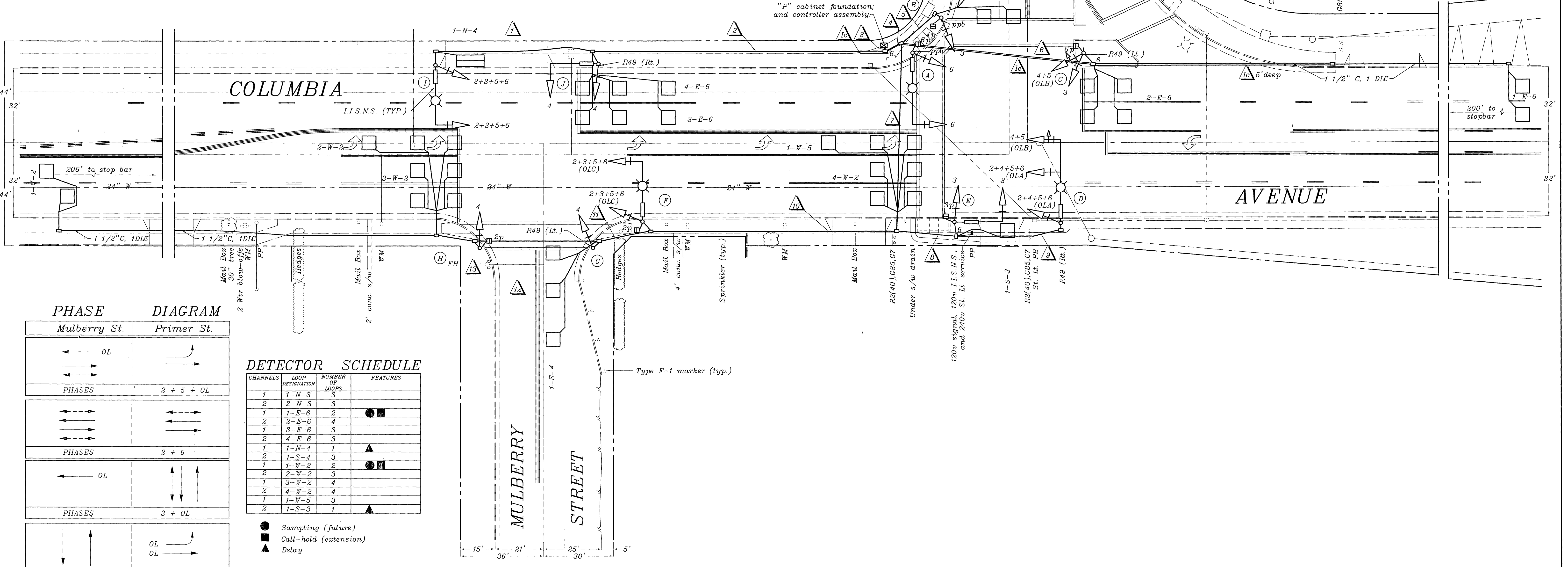
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: [Signature]
ENGINEERING MANAGER
PRINCIPAL ENGINEER
P.K. INSPECTION
TRAFFIC DIVISION
PUBLIC UTILITIES

FLASHING BEACON
COLUMBIA AVENUE AT MULBERRY STREET AND PRIMER STREET
ACCT. NO. 9752032225-4403030
X-229A
SHEET 1 OF 1
SCALE: 1" = 20'
FILE NAME: X229A.DWG

| CONDUCTOR | | SCHEDULE | | | | | | | | | | | |
|-------------------------|------------|----------|----|----|----|----|----|----|----|---|----|----|----|
| CONTROL FUNCTION | CONDUCTORS | RUNS | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| VEHICLE HEADS | #14 T.W. | | | | | | | | | | | | |
| OL 2+4 | | | | | | | | | | | | | |
| OL 3+5+6 | | | | | | | | | | | | | |
| OL 4+5 | | | | | | | | | | | | | |
| FED HEADS | | | | | | | | | | | | | |
| FED PUSH BUTTON | | | | | | | | | | | | | |
| SPARES 12V COMMON | | | | | | | | | | | | | |
| DETECTORS | #16/2 P.E. | | | | | | | | | | | | |
| I.I.S.N.S. | #12 T.W. | | | | | | | | | | | | |
| 120V COMMON | #10 T.W. | | | | | | | | | | | | |
| LUMINAIRES | #8 T.H.W. | | | | | | | | | | | | |
| SIGNAL SERVICE | #6 T.W. | | | | | | | | | | | | |
| INTERCONNECT | #20/2 P.E. | | | | | | | | | | | | |
| TOTAL | #14 T.W. | 7 | 10 | 53 | 35 | 10 | 13 | 25 | 11 | 7 | 13 | 10 | 4 |
| | #12 T.W. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | #10 T.W. | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | #8 T.H.W. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | #6 T.W. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | #12/2 P.E. | 3 | 14 | 9 | 3 | 2 | 5 | 3 | 4 | 4 | 3 | 3 | 3 |
| | #20/2 P.E. | | | | | | | | | | | | |
| #14 EQUIV. CONDUIT SIZE | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| POLE | | SCHEDULE | | | | | | | | | | | |
|------|---------|----------|------|----------|-----------|-----------------|-------------|----------------|---------------------|-----------|---------|-------|--|
| No. | TYPE | STANDARD | | | LUM. HPSV | I.S.N.S. LEGEND | SIGNAL HEAD | SIGNAL VEHICLE | SIGNAL MOUNTING PED | PPB PHASE | REMARKS | | |
| | | HGT. | SIG. | M. ALUM. | | | | | | | | M. A. | |
| (A) | 19-2-80 | 30' | 30' | 12' | 250w | Primer | St. 1100 | 1W3C | MAS | SV-1-T | 3 | | |
| (B) | 1A | 10' | | | | | | 1W3C | TV-1-T | SP-1-T | 4 | | |
| (C) | 1A | 10' | | | | | | 1W3C | TV-2-T | SP-1-T | 6 | | |
| (D) | 24-4-80 | 30' | 35' | 12' | 250w | Primer | St. | 1W3C | MAS | | | | |
| (E) | 16-2-80 | 30' | 20' | | | Columbia | Av. 3200 | 1W3C | MAS | SV-1-T | 3 | | |
| (F) | 19-2-80 | 30' | 25' | 12' | 250w | Mulberry | St. 1300 | 1W3C | MAS | SV-1-T | 6 | | |
| (G) | 1A | 10' | | | | | | 1W3C | TV-1-T | | 2 | | |
| (H) | 1A | 10' | | | | | | 1W3C | TV-1-T | SP-1-T | 2 | | |
| (I) | 19-2-80 | 30' | 25' | 12' | 250w | Mulberry | St. | 1W3C | MAS | SV-1-T | | | |
| (J) | 16-2-80 | 17' | 15' | | 250w | Columbia | Av. 3300 | 1W3C | MAS | SV-1-T | | | |

NOTE: 1. All 1A standards are aluminum.
 2. All vehicular heads have 12" lenses.
 3. All Left-turn vehicular heads have all arrows.
 4. Luminaires are High Pressure Sodium Vapor.



DETECTOR SCHEDULE

| CHANNELS | LOOP DESIGNATION | NUMBER OF LOOPS | FEATURES |
|----------|------------------|-----------------|----------|
| 1 | 1-N-3 | 3 | |
| 2 | 2-N-3 | 3 | |
| 1 | 1-E-6 | 2 | ● |
| 2 | 2-E-6 | 4 | ● |
| 1 | 3-E-6 | 3 | ● |
| 2 | 4-E-6 | 3 | ● |
| 1 | 1-N-4 | 1 | ▲ |
| 2 | 1-S-4 | 3 | |
| 1 | 1-W-2 | 2 | ● |
| 2 | 2-W-2 | 3 | |
| 1 | 3-W-2 | 4 | |
| 2 | 4-W-2 | 4 | |
| 1 | 1-W-5 | 3 | |
| 2 | 1-S-3 | 1 | ▲ |

● Sampling (future)
 ● Call-hold (extension)
 ▲ Delay

FLASHING OPERATION SHALL BE ALL RED.
 PHASE SEQUENCE WITH CALLS ON ALL PHASES.
 REQUIRED OVERLAP (OL) PHASES TO BE PROVIDED:
 OL 3 + 5 + 6
 OL 4 + 5

| | | | | | | |
|---|----------------|------------------|------------------|--------------------------|------|--------------|
| CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS | | | | TRAFFIC SIGNALS | | ACCT. NO. |
| APPROVED BY _____ BY DATE _____ | | | | APPROVED BY _____ | | X-229 |
| AS-BUILT PER SIGNALIZATION MAC 1/11/84 | | | | DIRECTOR OF PUBLIC WORKS | | |
| MARK | REVISIONS | APPR. DATE | TRAFFIC DIVISION | CHIEF F.W. ENGR. | DATE | SHEET 1 OF 1 |
| DESIGNED BY _____ | DRAWN BY _____ | CHECKED BY _____ | | | | FILE NO. |