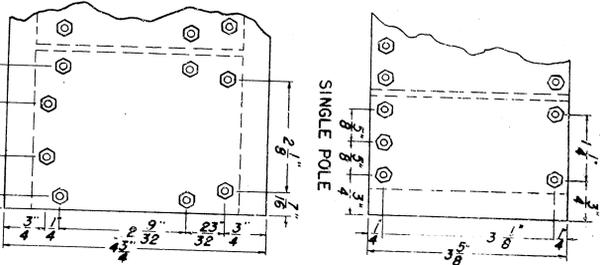


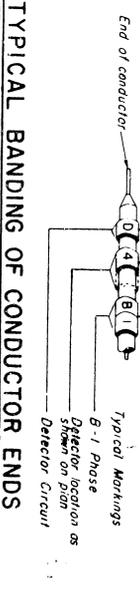
| REVISION DATES | 6/61 | 9/61 | 10/61 | 11/61 | 12/61 | 1/62 | 3/62 | 2/63 | 3/63 |
|----------------|------|------|-------|-------|-------|------|------|------|------|
|----------------|------|------|-------|-------|-------|------|------|------|------|



SUB-BASES FOR RELAYS

SYMBOLS

| PROPOSED | EXISTING |
|----------|---|
| | Signal conduit |
| | Lighting conduit |
| | Pull box |
| | Detector |
| | Non-directional pressure detector |
| | Directional magnetic detector |
| | Directional pressure detector |
| | Controller |
| | Traffic signal, each arrow one way three color |
| | Traffic signal, one way three-color with backplate |
| | Traffic signal, one way three-color with green arrow (on T Type I standard unless otherwise specified) (red and yellow lowered) |
| | Walk-way pedestrian signal |
| | Pedestrian signal, 2-color head |
| | Most arm traffic signal with backplate on Type II standard |
| | Electric pole, most arm type with most arm traffic signal with backplate (Type III standard) |
| | Electric pole, most arm type (Type I standard) |
| | Electric pole, upright type |
| | Power pole |
| | Telephone pole |
| | Fire hydrant |
| | Flashing beacon, one-way |
| | Traffic signal with all colors lowered |
| | Overhead conductor |
| | Pull box marker |
| | Ultra-sonic detector (Side fire type) |
| | Inductive loop detector |



TYPICAL BANDING OF CONDUCTOR ENDS

INSTALLATION NOTES

- CONDUIT**
- 1 Unless otherwise indicated, service and detector runs and conduit into sign structure foundations shall be 1 inch and all other conduit shall be not less than 1 1/2 inch.
 - 2 Conduit shall be installed 18" minimum below curb grade, in sidewalk areas and 24" minimum below grade or finished surface in all other areas, except pushing bores may be laid on and secured to the pavement.
 - 3 Conduit runs parallel to curbs shall be placed adjacent to back of curb, except where in conflict with existing facilities.
 - 4 Existing underground conduit to be incorporated into new systems shall be cleaned with a mandrel and blown out with compressed air.
 - 5 Conduit terminating in standards and pedestals shall extend 2" max. above finished top of foundation and shall slope toward the handhole.
 - 6 Service risers shall be terminated with a service head or shall be sealed to prevent the entrance of water, as approved by the serving utility.
- PULL BOXES**
- 1 Pull boxes in the vicinity of curbs shall be placed adjacent to back of curb, except when shown otherwise on the plan or when in conflict with existing facilities.
 - 2 Top of pull boxes shall be flush with top of curb or sidewalk grade or 1" above surrounding ground when no finished grade is established.
 - 3 Pull boxes shown adjacent to standards shall be installed against but not on roadway side of foundation.
- CONDUCTORS AND WIRING**
- 1 Signal neutral shall be a separate #10 AWG conductor.
 - 2 Conductors between ballasts or transformers and luminaires shall be #10 AWG CUWHT.
 - 3 Conductors between series-to-multiple transformers and sign switch shall be #12 AWG, 600 Volt.
 - 4 Number of conductors indicated in signal system conduit includes 3 #14 AWG spores.
 - 5 Conductors shall be identified with bands.
 - 6 Underground conductors to signals shall be run without splice, except joint where existing signals are being modified, signal conductors may be spliced where indicated.
 - 7 Neutral conductors may be spliced in pull boxes.
 - 8 Two feet of slack shall be provided in each conductor between pull box.
 - 9 A separate conductor other than neutral shall be run from each detector or pedestrian push button to control signal equipment.
 - 10 Color coding for wiring to pedestrian signals shall be as specified for corresponding vehicular green and red indications.
- FOUNDATIONS**
- 1 Unless otherwise shown on the plans, the top of foundations for standards shall be level with top of curb in curbed areas or 6 inches above surrounding grade in other areas.
 - 2 Unless otherwise shown on the plans, foundations shall be installed with 2 foot clearance to edge of paved shoulder.

SIGNAL EQUIPMENT

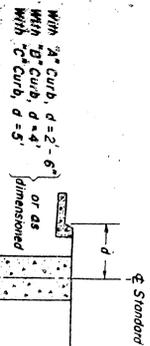
- 1 Pressure detectors shall be 6 feet long, non-directional, unless otherwise indicated.
- 2 Detector position dimensions refer to contact unit.
- 3 Top of detector foundation shall be flush and true with pavement surface.
- 4 Detector contact unit surface shall be level with rim of frame or no more than 1/8-inch higher.
- 5 The mounting bracket dimension between the axes thru center of signal head and center of terminal compartment, or slip-fitter, shall not be greater than 11 inches, unless shown otherwise on the plans or as directed by the Engineer.
- 6 Vehicular and pedestrian signal mountings shall be oriented so as to provide maximum horizontal clearance to adjacent roadway.

STANDARDS AND POSTS

- 1 Type I standards shall be T-C.
- 2 Guard posts shall be installed a minimum of 2'0" clear of curb face.
- 3 Pedestrian push button post installed within the area of curb return shall be at a minimum of 3'0" clear of curb face.

FOUNDATIONS

- 1 Unless otherwise shown on the plans, the top of foundations for standards shall be level with top of curb in curbed areas or 6 inches above surrounding grade in other areas.
- 2 Unless otherwise shown on the plans, foundations shall be installed with 2 foot clearance to edge of paved shoulder.



FOUNDATION INSTALLATION BEHIND CURB

NO SCALE

GENERAL DETAILS

TRAFFIC SIGNAL AND HIGHWAY LIGHTING INSTALLATIONS

| | |
|-------------|---|
| DATE | 11/11/61 |
| SCALE | AS SHOWN |
| PROJECT | TRAFFIC SIGNAL AND HIGHWAY LIGHTING INSTALLATIONS |
| DESIGNED BY | ... |
| CHECKED BY | ... |
| APPROVED | ... |

