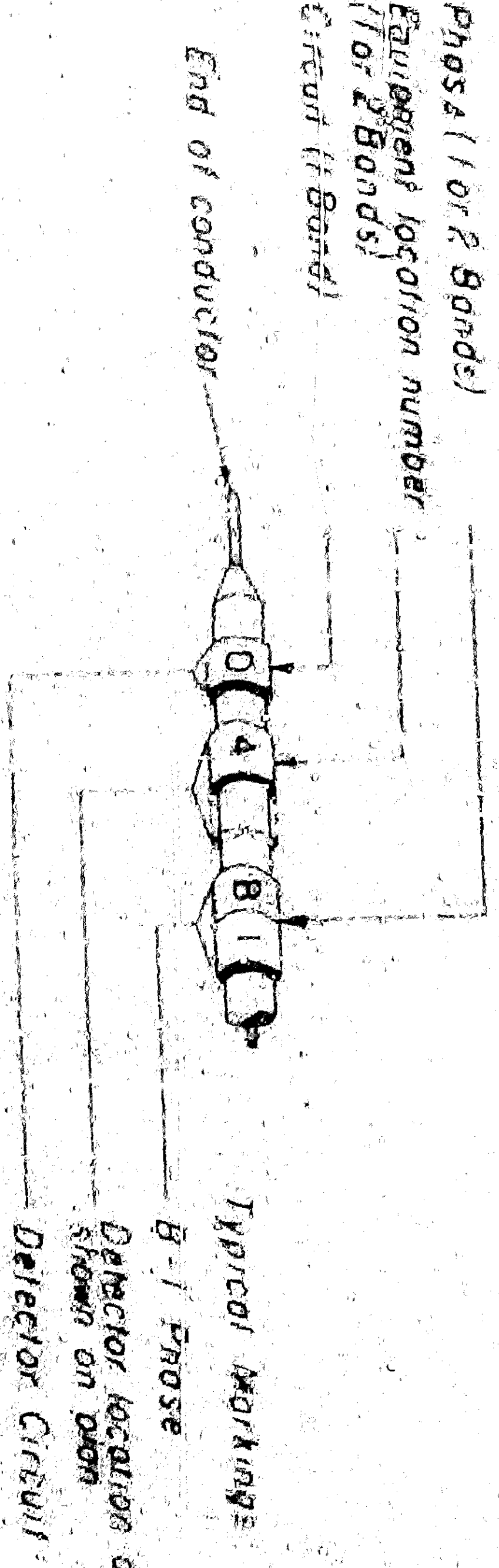
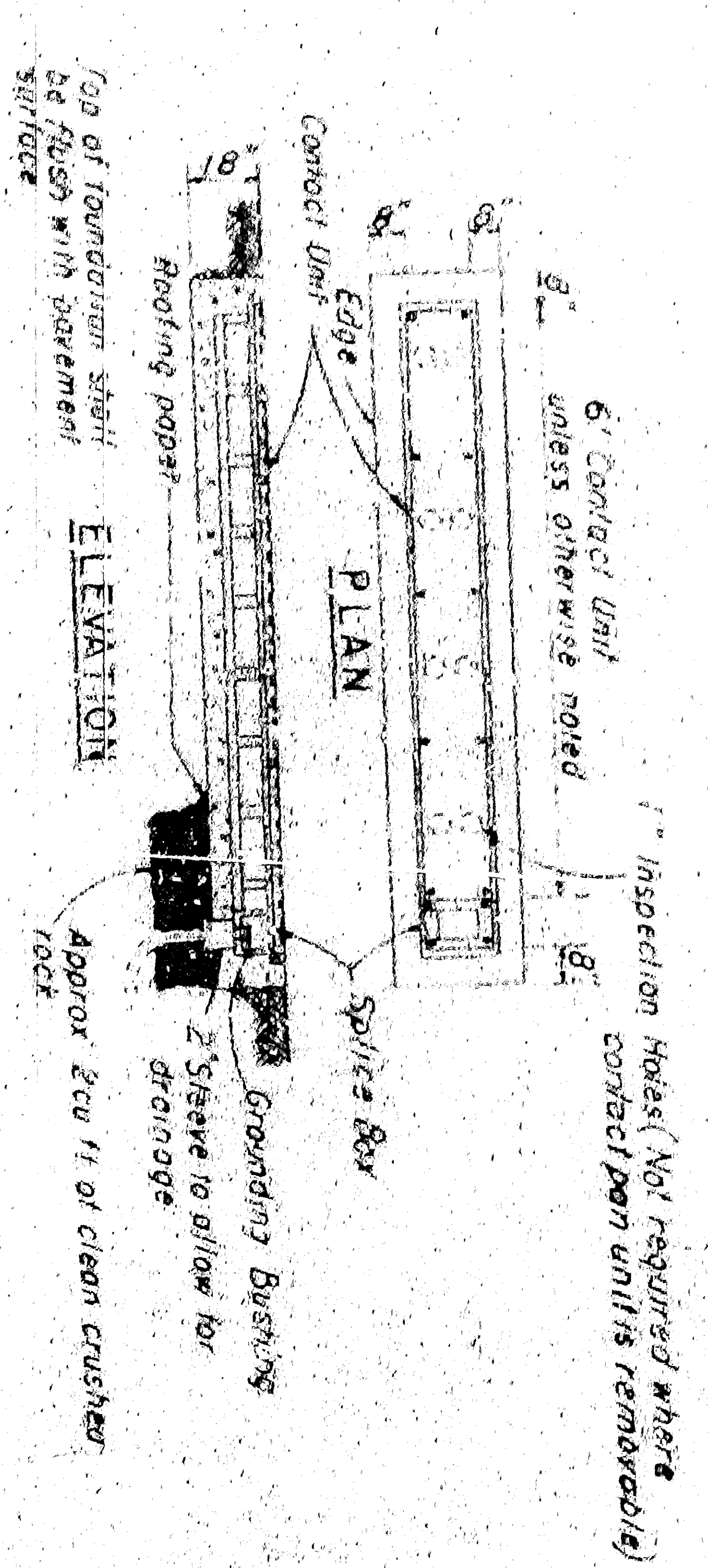


SYMBOLS

PROPOSED	EXISTING	Symbol	Description
---	---	---	Signal conductor
---	---	---	Lighting conductor
---	---	---	Pull box
---	---	---	Non-directional pressure detector
---	---	---	Non-directional magnetic detector
---	---	---	Directional pressure detector
---	---	---	Control wire
---	---	---	Traffic signal, each arm one way three color
---	---	---	Traffic signal, each arm two way three color
---	---	---	Traffic signal, one way three color with green, green (or yellow) and red and yellow (lowered)
---	---	---	Traffic signal, one way three color with green, green (or yellow) and red and yellow (lowered) with red and yellow (lowered) signal
---	---	---	Medium signal, 2-color head
---	---	---	Most arm traffic signal with backscatter Type II standard
---	---	---	Flashing, most arm type with most arm traffic signal with backscatter Type III standard
---	---	---	Flashing, most arm type I standard
---	---	---	Electrical, vertical type
---	---	---	Pushbutton, push button (disposed)
---	---	---	Power pole
---	---	---	Telephone pole
---	---	---	File system
---	---	---	Flashing, one-way
---	---	---	Traffic signal with all colors lowered
---	---	---	Overhead conductor
---	---	---	Pull box marker



TYPICAL BANDING OF CONDUCTOR ENDS
NO SCALE



PRESSURE DETECTOR
NO SCALE

INSTALLATION NOTES

- CONDUIT**
1. Unless otherwise indicated, specify and schedule size and schedule into signal structure. Installation shall be in accordance with the following:
 - a. Conduit shall be installed in a trench below grade in sidewalk areas and shall be installed in a trench below grade in other areas, except in areas where the ground surface is above grade. Conduit shall be installed in a trench below grade in areas where the ground surface is above grade.
 - b. Conduit shall be installed in a trench below grade in areas where the ground surface is above grade.
 2. Existing underground conduit to be incorporated into new systems shall be identified with a marker and blown out with compressed air.
 3. Conduit runs parallel to curb shall be adjacent to back of curb, section which is adjacent to existing facilities.
 4. Conduit terminating in standards and pedestals shall extend 2" max. above finished top of foundation and shall slope toward the roadside.
 5. Service risers shall be terminated with a service head or shall be sealed to prevent the entrance of water, as approved by the issuing utility.
- PULL BOXES**
1. Pull boxes shall be in the vicinity of every signal structure and shall be placed adjacent to the curb or sidewalk.
 2. Top of pull boxes shall be flush with top of curb or sidewalk grade or 1" above surrounding grade, when the finished grade is established.
 3. Pull boxes shown on drawings in standards shall be installed against but not on roadway side of foundation.
- CONDUCTORS AND WIRING**
1. Signal conductors shall be a separate #18 AWG conductor.
 2. Conductors between pedestals or transformers and luminaires shall be #10 AWG copper.
 3. Conductors between signal series-to-multiplex transformers and sign switch shall be #12 AWG, GDO rated.
 4. Number of conductors indicated in signal system conduit includes 3 #14 AWG wires.
 5. Conductors shall be identified with leads.
 6. Underground conductors to signals shall be run without splices, except that where splicing is required, splices shall be made in a pull box.
 7. Neutral conductors may be spliced in pull boxes.
 8. Two feet of slack shall be provided in each conductor in each pull box.
 9. A separate conductor other than neutral shall be run from each detector or pedestal to control panel cabinet.
 10. Color coding for wiring to detector signals shall be as specified for corresponding vehicular green and red indications.
- ELECTRICAL 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" high.
 5. Vehicular and pedestrian signal mountings shall be provided so as to provide maximum horizontal clearance to adjacent roadway.
- ELECTROLYSIS**
1. A structure where large pull boxes shall be installed in a pull box adjacent to curb.
- FOUNDATION**
1. 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. Except as indicated, standards shall be installed with 2 foot clearance to face of curb, edge of shoulder, back of dikes, and back of ditches.

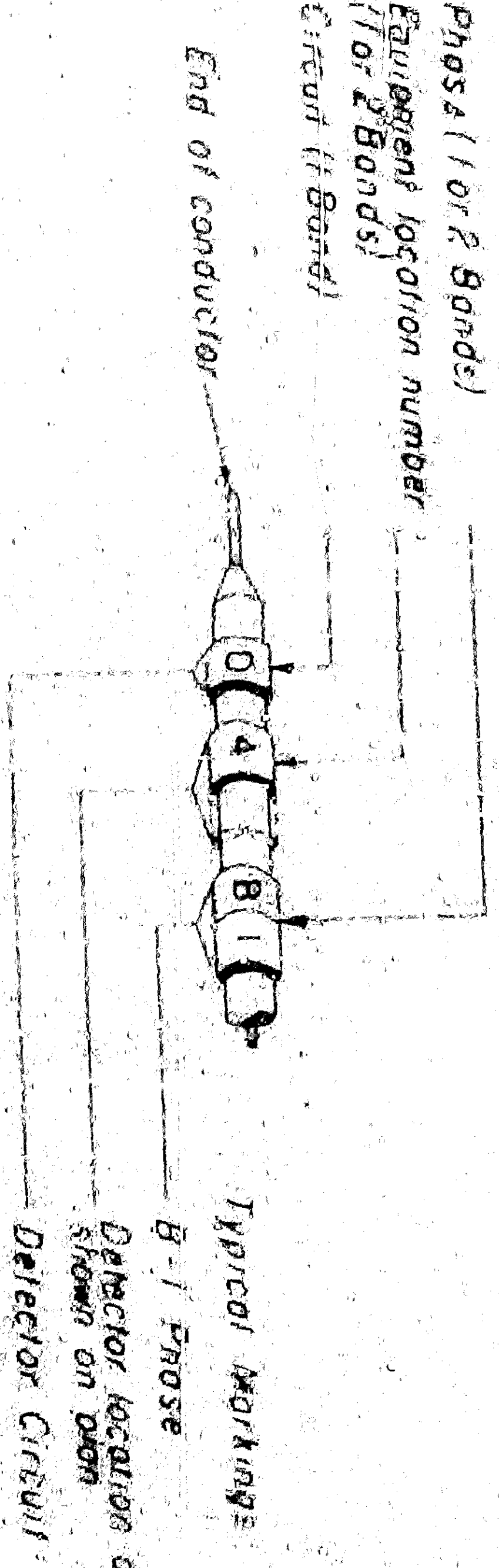
GENERAL DETAILS

TRAFFIC SIGNAL AND HIGHWAY LIGHTING INSTALLATIONS

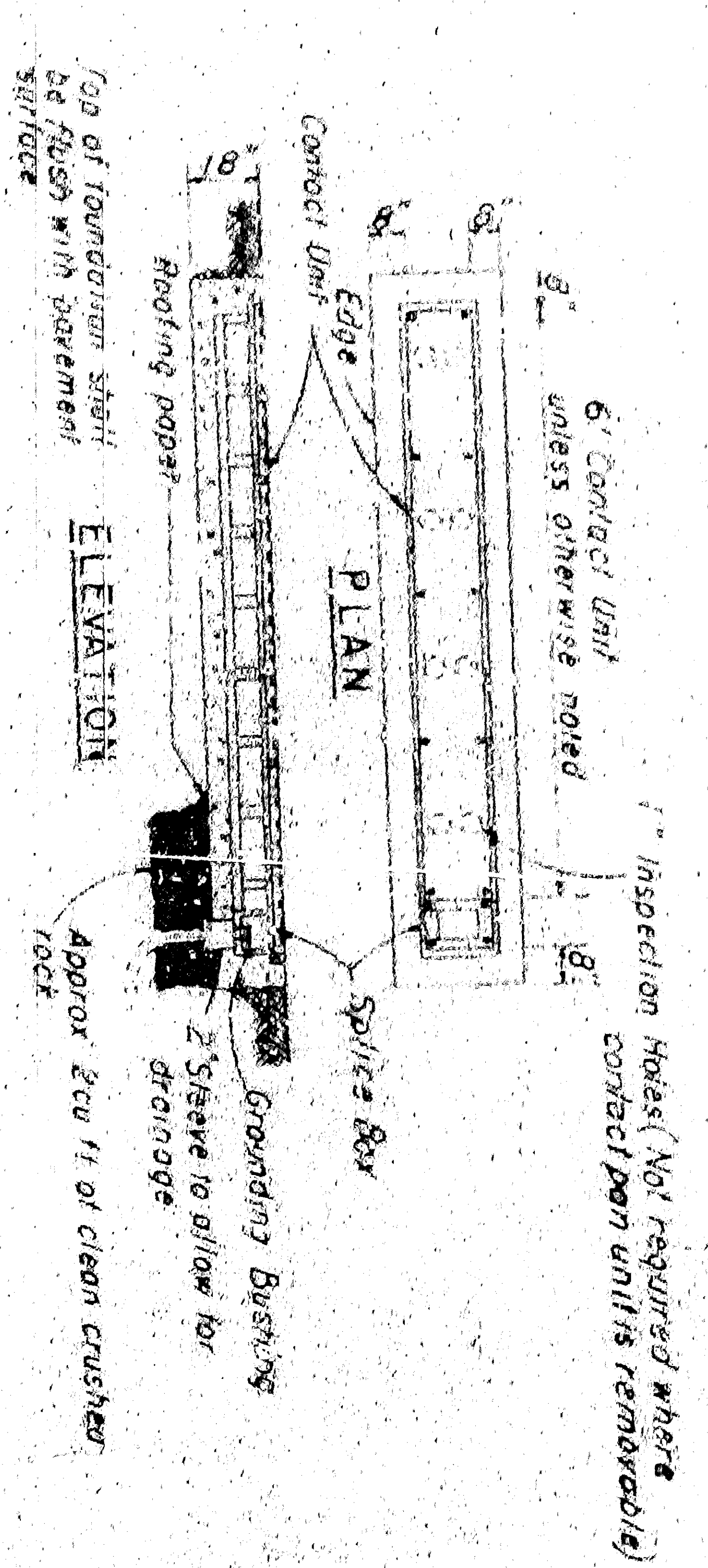
SPECIAL ENGINEERING PROJECT NO. 1 MEADOWBROOK CALIF. RHD	DEPARTMENT OF ENGINEERING CITY OF SAN BERNARDINO
ACCEPTED BY: <i>[Signature]</i> DATE: 10/10/75	DRAWING NO. 2875 SHEET 9
CHECKED BY: <i>[Signature]</i> DATE: 10/10/75	DESIGNED BY: <i>[Signature]</i> DATE: 10/10/75

SYMBOLS

PROPOSED	EXISTING	Symbol	Description
---	---	---	Signal conductor
---	---	---	Lighting conductor
---	---	---	Pull box
---	---	---	Non-directional pressure detector
---	---	---	Non-directional magnetic detector
---	---	---	Directional pressure detector
---	---	---	Control wire
---	---	---	Traffic signal, each arm one way three color
---	---	---	Traffic signal, each arm two way three color
---	---	---	Traffic signal, one way three color with green, green (or red and yellow lowered)
---	---	---	Traffic signal, one way three color with green, green (or red and yellow lowered)
---	---	---	Red - left position signal
---	---	---	Yellow - signal, 2-color head
---	---	---	Most arm traffic signal with backscatter Type II standard
---	---	---	Flashing, most arm type with most arm traffic signal with backscatter Type III standard
---	---	---	Flashing, most arm type Type I standard
---	---	---	Electrical, upright type
---	---	---	Pushbutton, push button display
---	---	---	Power pole
---	---	---	Telephone pole
---	---	---	File system
---	---	---	Flashing, one-way
---	---	---	Traffic signal with all colors lowered
---	---	---	Overhead conductor
---	---	---	Pull box marker



TYPICAL BANDING OF CONDUCTOR ENDS
NO SCALE



PRESSURE DETECTOR
NO SCALE

INSTALLATION NOTES

- CONDUIT**
- Unless otherwise indicated, specify and schedule size and schedule into signal structure. Installation shall be 1/2 inch for other conductors and not less than 1/2 inch.
 - Conduit shall be installed in a trench below grade or in a trench above grade, unless otherwise indicated. Conduit shall be installed in a trench above grade or in a trench below grade, unless otherwise indicated. Conduit shall be installed in a trench above grade or in a trench below grade, unless otherwise indicated.
 - Conduit runs parallel to curb shall be spaced adjacent to back of curb, section unless in conflict with existing facilities.
 - Existing underground conduit to be incorporated into new systems shall be cleaned with a mallet and blown out with compressed air.
 - Conduit terminating in standards and pedestals shall extend 2" max. above finished top of foundation and shall slope toward the roadside.
 - Service risers shall be terminated with a service head or shall be sealed to prevent the entrance of water, as approved by the issuing utility.
- PULL BOXES**
- Pull boxes shall be in the vicinity of splices shall be placed adjacent to back of curb or side street when in conflict with existing facilities.
 - Top of pull boxes shall be flush with top of curb or sidewalk grade or 1" above surrounding grade, when the finished grade is established.
 - Pull boxes shown and shown in standards shall be installed against but not on roadway side of foundation.
- CONDUCTORS AND WIRING**
- Signal neutral shall be a separate #10 AWG conductor.
 - Conductors between pedestals or transformers and luminaires shall be #10 AWG covered.
 - Conductors between series-to-multiple transformers and sign switch shall be #12 AWG, GDO rated.
 - Number of conductors indicated in signal system conduit includes 3 #14 AWG wires.
 - Conductors shall be identified with leads.
 - Underground conductors to signals shall be run without splices, except that where splicing is required, splices shall be made in a pull box.
 - Neutral conductors may be spliced in pull boxes.
 - The rest of stock shall be provided in each conductor in each pull box.
 - A separate conductor other than neutral, shall be run from each detector or pedestal to pull box in accordance with notes.
 - Color coding for wiring to detector signals shall be as specified for corresponding vehicular green and red indications.
 - One side of secondary circuit of signals to multiple transformers shall be grounded in structures; the grounding electrode shall be installed through bottom of pull box.

SIGNAL EQUIPMENT

- Pressure detectors shall be 6 feet long, non-directional, unless otherwise indicated.
- Detector position dimensions refer to contact unit.
- Top of detector foundation shall be flush and true with pavement surface.
- Detector contact unit surface shall be level with rim of frame or no more than 1/8 inch high.
- Vehicular and pedestrian signal mountings shall be provided so as to provide maximum horizontal clearance to adjacent roadway.

ELECTROLUMINERS

- A luminaire, when large pull box shall be installed in a pull box adjacent to curb, unless otherwise indicated.

FOUNDATION

- Top of foundations for standards shall be level with top of curb in curbed streets or 6 inches above surrounding grade in other cases.
- Except as indicated, standards shall be installed with 2 foot clearance to face of curb, edge of shoulder, back of dikes, and back of ditches.

GENERAL DETAILS

TRAFFIC SIGNAL AND HIGHWAY LIGHTING INSTALLATIONS

SPECIAL ENGINEER THE CITY OF SAN BERNARDINO MEADOWBROOK PROJECT AREA NO. 1 CALIF. RHD	DEPARTMENT OF ENGINEERING CITY OF SAN BERNARDINO
ACCEPTED BY: <i>[Signature]</i> DATE: <i>[Date]</i>	DRAWING NO. 2875 SHEET 9
CHECKED BY: <i>[Signature]</i> DATE: <i>[Date]</i>	REVISIONS: <i>[None]</i>