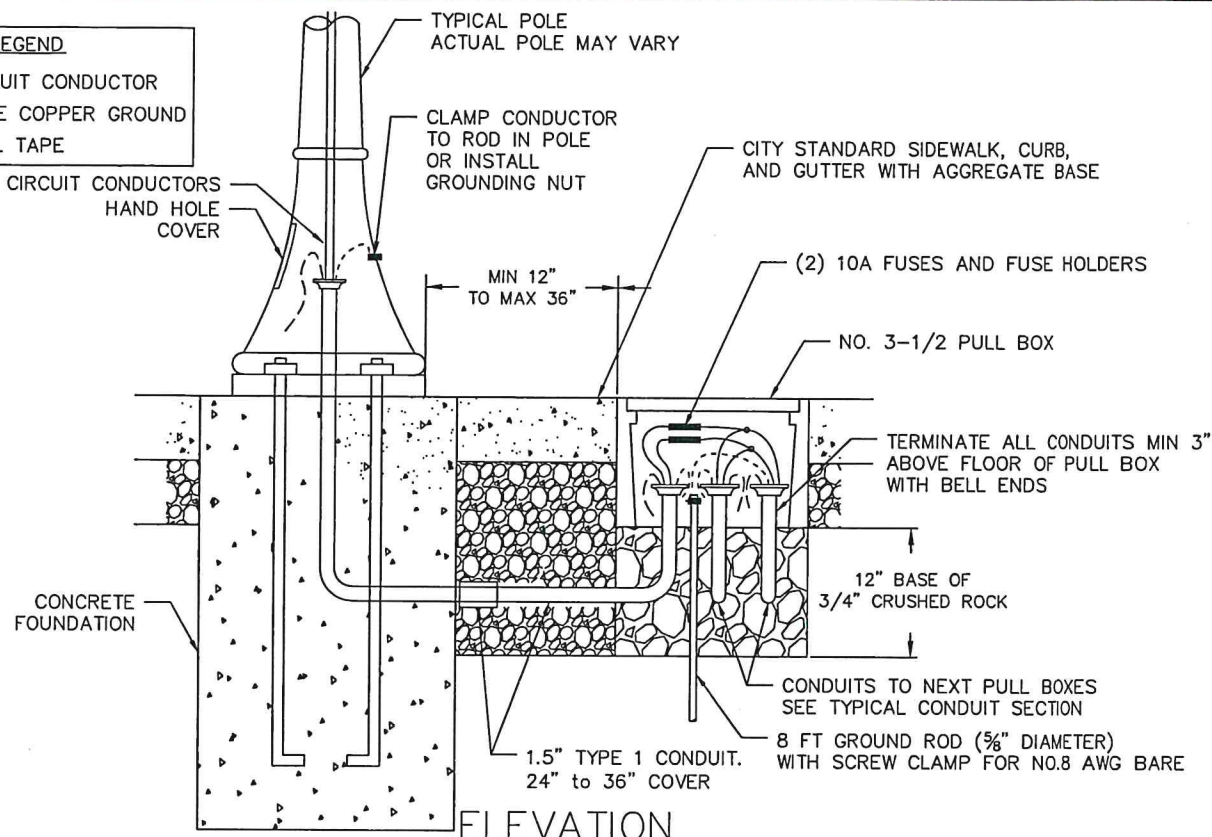
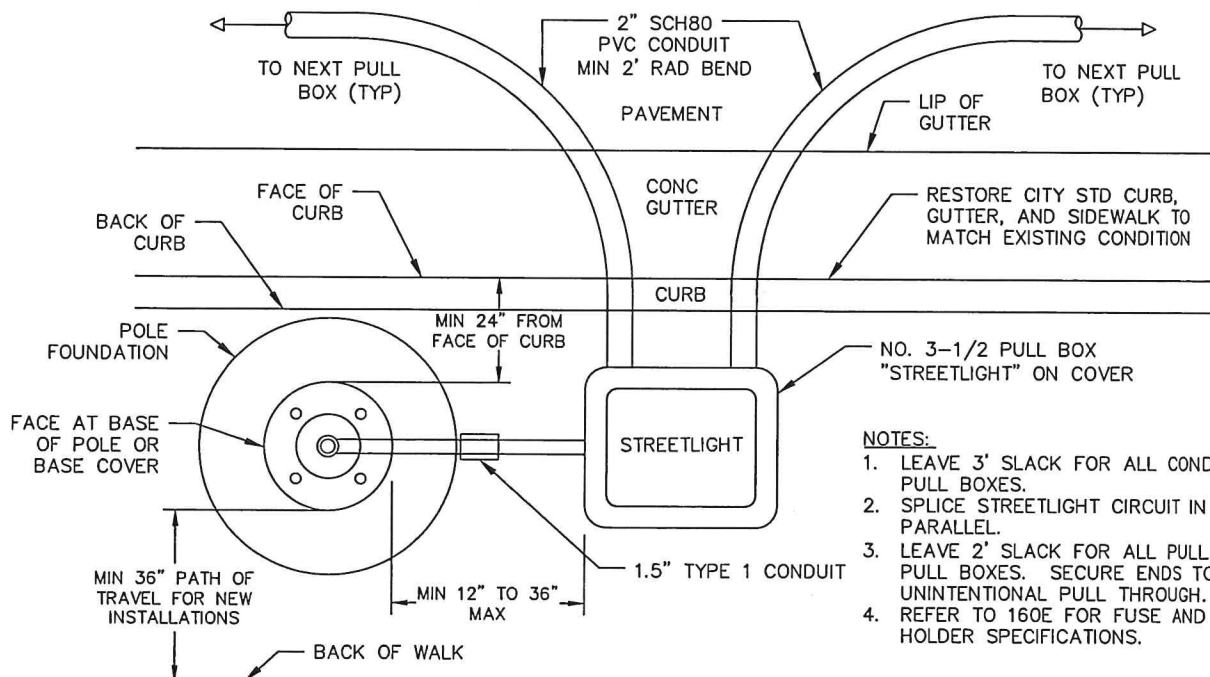


STREET LIGHTING & ELECTRICAL

CONDUCTOR LEGEND	
	CIRCUIT CONDUCTOR
	BARE COPPER GROUND
	PULL TAPE



ELEVATION



NOTES:

1. LEAVE 3' SLACK FOR ALL CONDUCTORS IN PULL BOXES.
2. SPLICE STREETLIGHT CIRCUIT IN STANDARD PARALLEL.
3. LEAVE 2' SLACK FOR ALL PULL TAPES IN PULL BOXES. SECURE ENDS TO PREVENT UNINTENTIONAL PULL THROUGH.
4. REFER TO 160E FOR FUSE AND FUSE HOLDER SPECIFICATIONS.

NOTE
ACTUAL PULL BOX LOCATION MAY VARY DEPENDING ON FIELD CONDITION.
PULL BOX MAY BE IN FRONT, BEHIND OR TO THE SIDE OF THE POLE.

PLAN



TYPICAL ELECTROLIER DETAILS

APPROVED

Matthew Kahan
PUBLIC WORKS DIRECTOR

DATE

JUNE 2024

SCALE

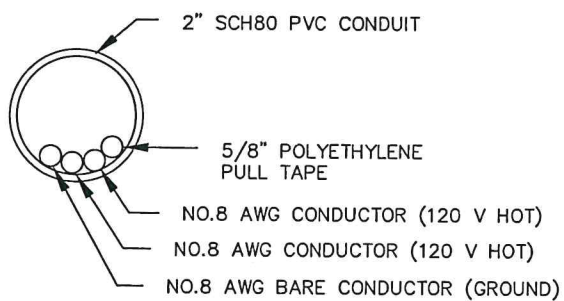
N.T.S.

SHEET

1 OF 6

SET

160A



TYPICAL CONDUIT SECTION

APPROVED

Matthew H. H. H.
PUBLIC WORKS DIRECTOR

DATE

JUNE 2024

SCALE

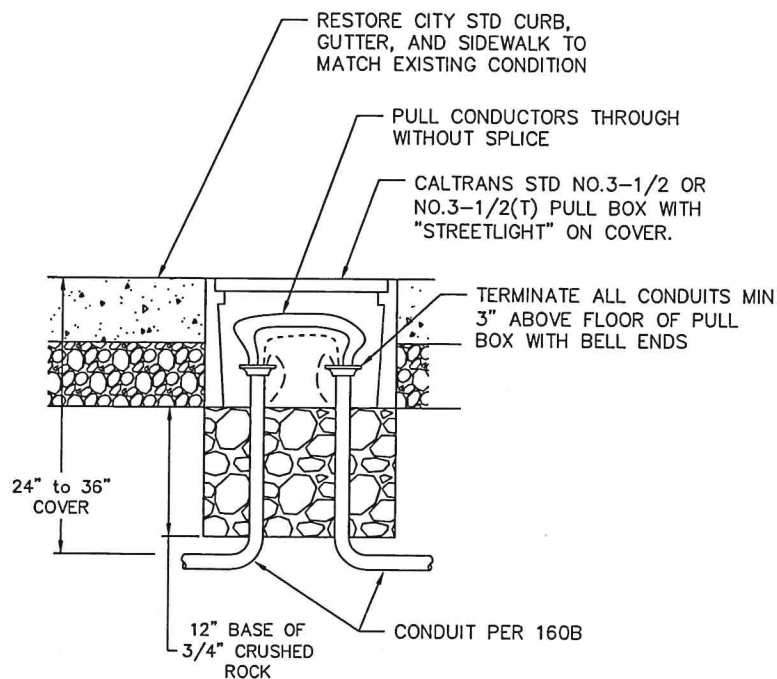
N.T.S.

SHEET

2 OF 6

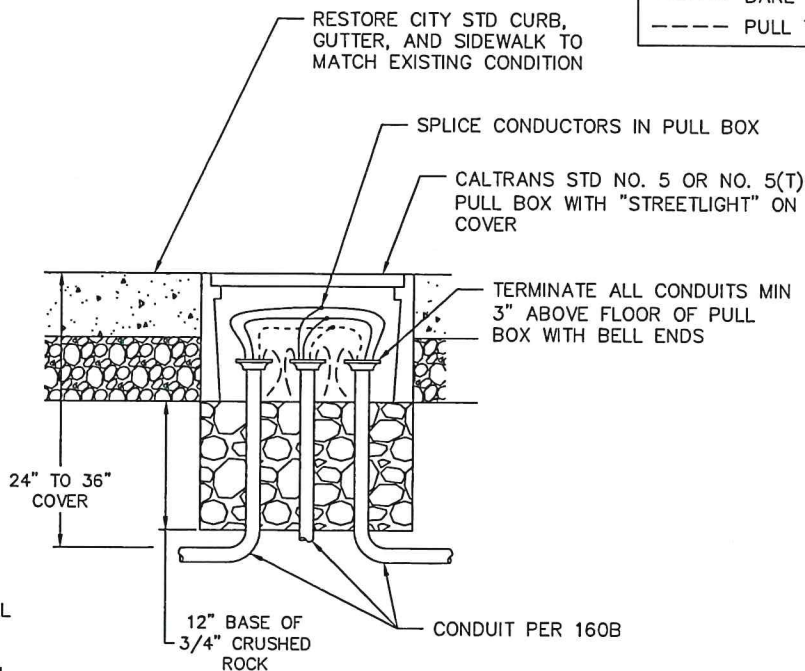
SET

160B



TYPICAL MID-RUN PULL BOX

CONDUCTOR LEGEND	
	CIRCUIT CONDUCTOR
	BARE COPPER GROUND
	PULL TAPE



TYPICAL JUNCTION PULL BOX

NOTES:

1. LEAVE 2' SLACK FOR ALL PULL TAPES IN PULL BOXES. SECURE ENDS TO PREVENT UNINTENTIONAL PULL THROUGH.



TYPICAL PULL BOX DETAILS

APPROVED

Matthew John
PUBLIC WORKS DIRECTOR

DATE

JUNE 2024

SCALE

N.T.S.

SHEET

3 OF 6

SET

160C

STREETLIGHT CIRCUIT FUSE SPECIFICATION:

30A AND 10A FUSES USED IN STREETLIGHT CIRCUITS SHALL BE 13/32" X 1-1/2" SIZE WITH MELAMINE BODIES AND NICKEL OR COPPER ALLOY END CAPS. FUSES SHALL BE FAST ACTING TYPE RATED FOR 600V WITH AN AC INTERRUPTING CURRENT OF 100KA. FUSES SHALL BE UL 248-14 LISTED, CSA CERTIFIED, AND ROHS COMPLIANT. TYPICAL APPLICATIONS LISTED FOR FUSES SHALL INCLUDE LIGHTING OR STREET LIGHTING. EXAMPLES OF ACCEPTABLE FUSES INCLUDE EATON BUSSMAN KTK SERIES AND LITTELFUSE KLK SERIES.

STREETLIGHT CIRCUIT FUSE HOLDER SPECIFICATION:

FUSE HOLDERS USED IN STREETLIGHT CIRCUITS SHALL BE OF THE NON-BREAKAWAY, IN-LINE, SINGLE-POLE, SUBMERSIBLE TYPE. FUSE HOLDERS SHALL BE RATED FOR 600V, UP TO 30A LIMITED BY CONDUCTOR SIZE, AND SCCR = 200KA RMS SYM (DEPENDENT ON FUSE INTERRUPTING RATING). TERMINALS SHALL BE COPPER CRIMP TYPE.

WHEN INSTALLING FUSE HOLDERS, PRIOR TO COVERING CRIMP TERMINAL WITH INSULATING BOOT, COVER TERMINAL TIGHTLY WITH HALF-LAP WRAPPING OF VINYL ELECTRICAL TAPE TO ENSURE WATERPROOF CONNECTION.



**FUSE AND FUSE HOLDERS SPECIFICATIONS FOR
STREETLIGHT CIRCUITS**

APPROVED

Matthew LaSalle
PUBLIC WORKS DIRECTOR

DATE

JUNE 2024

SCALE

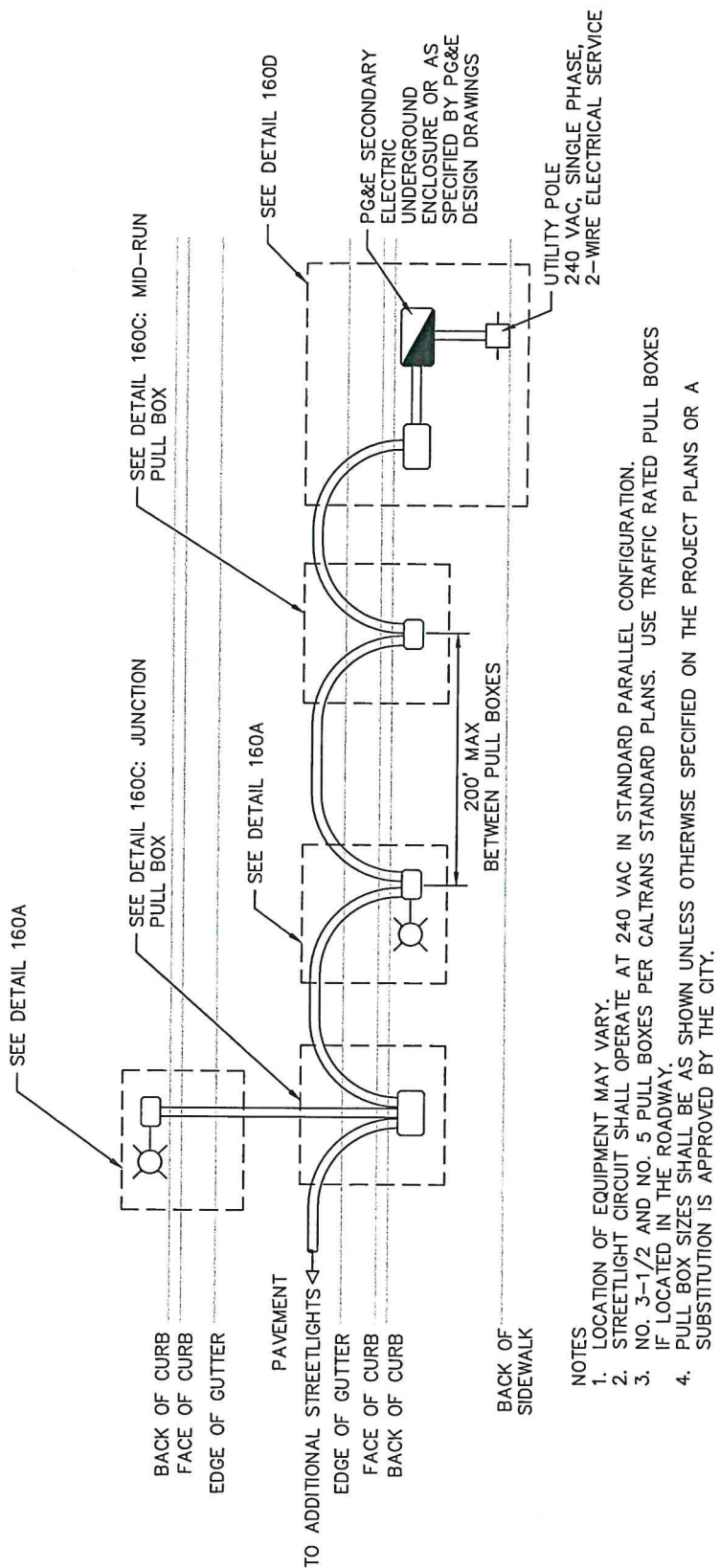
N.T.S.

SHEET

5 OF 6

SET

160E



- NOTES
1. LOCATION OF EQUIPMENT MAY VARY.
 2. STREETLIGHT CIRCUIT SHALL OPERATE AT 240 VAC IN STANDARD PARALLEL CONFIGURATION.
 3. NO. 3-1/2 AND NO. 5 PULL BOXES PER CALTRANS STANDARD PLANS. USE TRAFFIC RATED PULL BOXES IF LOCATED IN THE ROADWAY.
 4. PULL BOX SIZES SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON THE PROJECT PLANS OR A SUBSTITUTION IS APPROVED BY THE CITY.



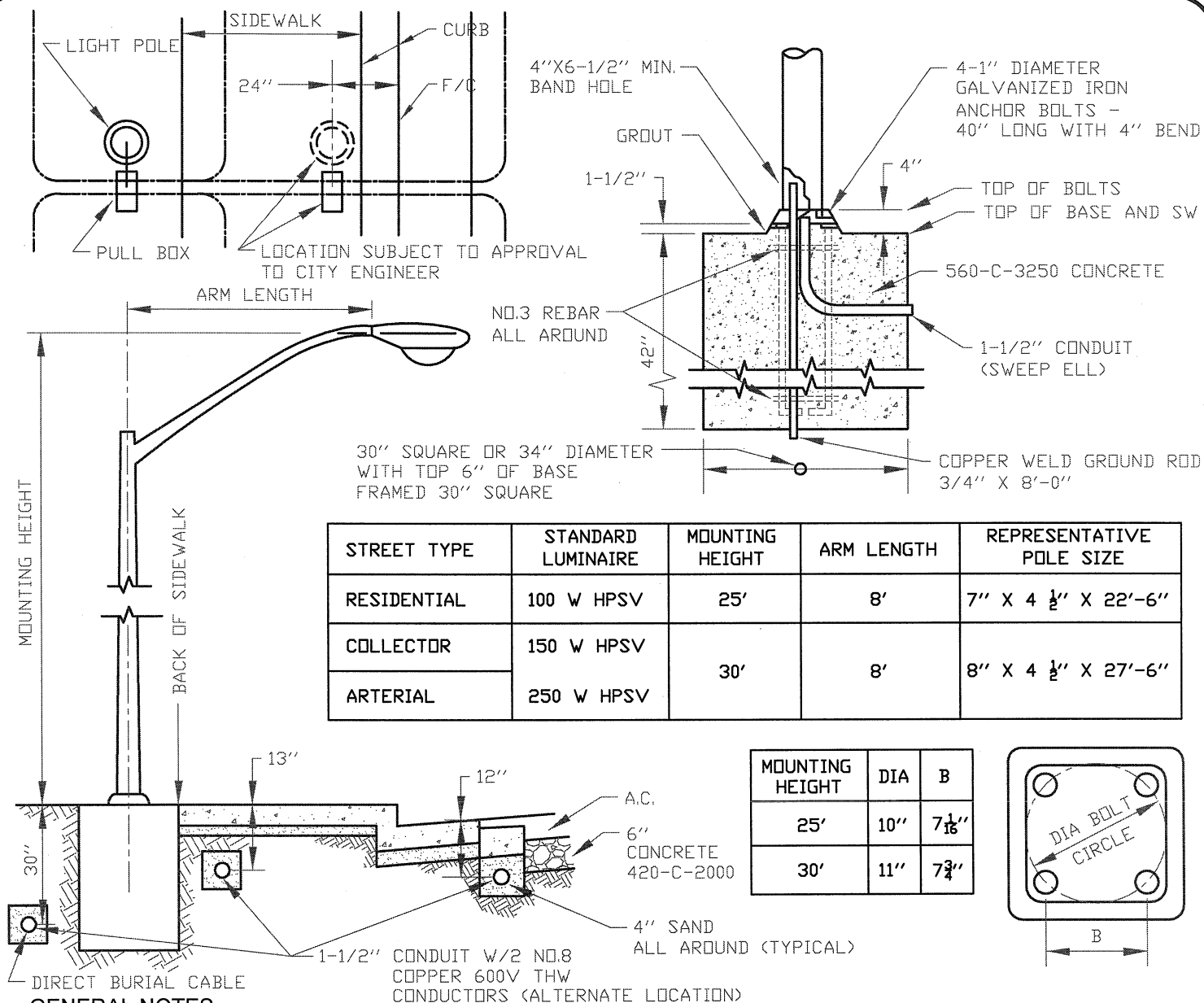
TYPICAL UNMETERED CIRCUIT LAYOUT

APPROVED

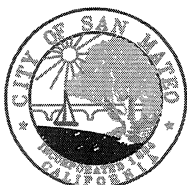
Matthew [Signature]

PUBLIC WORKS DIRECTOR

DATE	SCALE	SHEET	SET
JUNE 2024	N.T.S.	6 OF 6	160F



- POLES SHALL BE SPUN ALUMINUM 6063-T6, 0.188" NOMINAL WALL THICKNESS OR EQUAL.
- LUMINAIRES SHALL HAVE INTEGRAL BALLAST AND INDIVIDUAL PHOTO CELL CONTROL UNLESS OTHERWISE SPECIFIED.
- EACH POLE SHALL HAVE A FUSED DISCONNECT INSTALLED IN THE NO. 3 1/2 PULL BOX LOCATED ADJACENT TO THE ELECTROLIER BASE.
- LUMINAIRE ARMS SHALL BE TAPERED ELLIPTICAL ALUMINUM 6063-T6 ABLE TO ACCOMMODATE 2" SLIPFITTER TYPE LUMINAIRES.
- HIGH PRESSURE SODIUM VAPOR (HPSV) LUMINAIRE SHALL BE 240 VOLT UNLESS OTHERWISE SPECIFIED.
- ANCHOR BASE SHALL BE FINISHED AND CONFORM TO SLOPE OF EXISTING SIDEWALK.
- WHERE DIRECT BURIAL SECONDARY IS NOT AVAILABLE THE CONTRACTOR SHALL PROVIDE CONDUIT AND CABLE TO THE NEAREST SECONDARY SERVICE POINT PROVIDED BY P.G.&E.



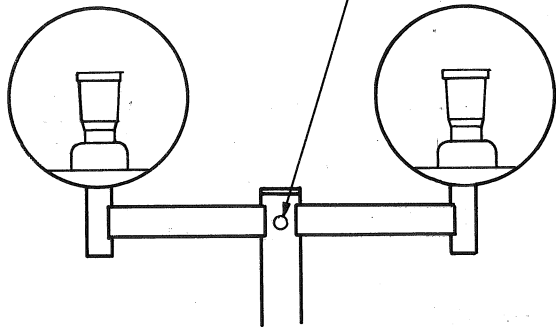
ENGINEERING DEPARTMENT

CALIFORNIA 94403

STANDARD ALUMINUM ELECTROLIER

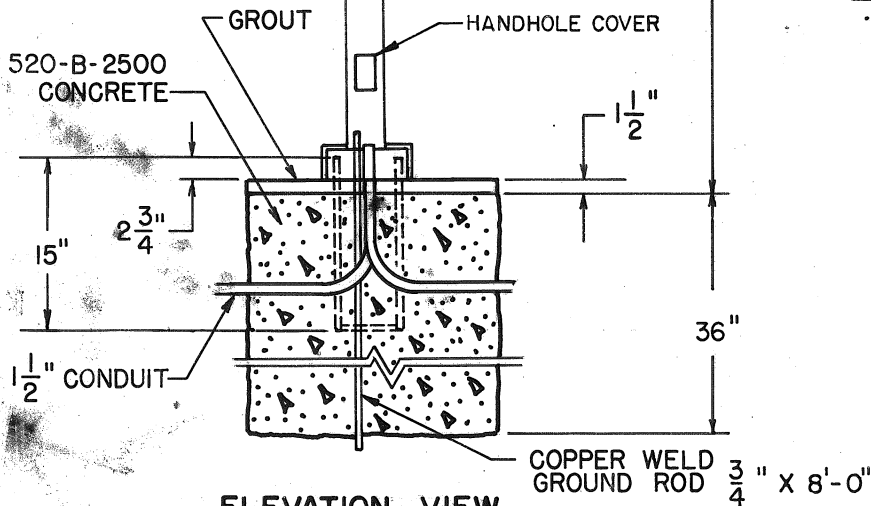
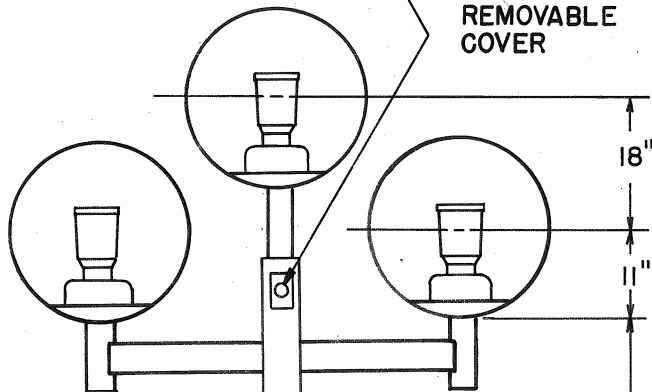
DATE	DRAWN BY	CHECKED BY	APPROVED	CASE	DRAWER	SET
2002	PC	OC	<i>Mark O. Harris</i> CITY ENGINEER	3	1	161

PHOTO-ELECTRIC
CONTROL



TWIN 180°

PHOTO-ELECTRIC
CONTROL ON
REMOVABLE
COVER



ELEVATION VIEW

COPPER WELD
GROUND ROD $\frac{3}{4}$ " x 8'-0"

STERNER LIGHTING SYSTEMS, INC. DWG NO. 3PD-23625-01
SPECIFICATIONS:

GLOBE:

SPHERE: 22.00" Dia. seamless clear acrylic
REFRACTOR: Cylindrical borosilicate glass for a Type V
I.E.S. distribution

FITTER: Cast aluminum, twist-lock removable for re-lamping

BALLAST HOUSING: Spun aluminum

ELECTRICAL:

BALLAST: 100 watt / 240 volt c.w.a located in globe

LAMPHOLDER: Porcelain Mogul base

LAMP: 100 watt high pressure sodium, by others

SHIELDED PHOTO-ELECTRIC CONTROL RECEPTACLE:
with mounting plate

WIRING: Pole to be factory pre-wired

MOUNTING:

TENON: 3.00" Dia. x 9.00" Long Aluminum

ARM: 1.75" x 4.00" x 20.00" Long rectangular aluminum

POLE

SHAFT: Aluminum, square straight, 5.00" square x 0.188"
wall, alloy no. 6063-T6

BASE: 11.50" square x 4.50" high two-piece cast
aluminum cover over an anchor base

HANDHOLE: with cover

FINISH:

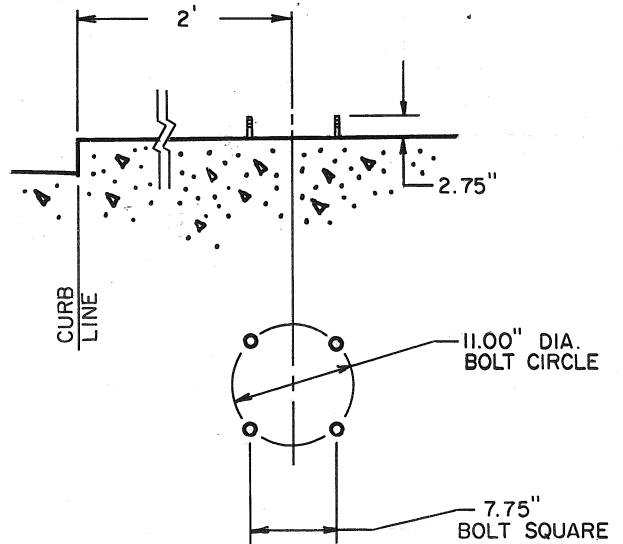
Factory applied Duranodic No. 313 (dark bronze)

Fitters: point to match

ANCHORAGE:

(4) $\frac{3}{4}$ " N.C. x 16" x 2" galvanized steel anchor
bolts on a 11.00" bolt circle

NOTE: Although Sterner Lighting specifications are shown
above, other manufacturer's specifications may be used,
upon the approval of the City Engineer.



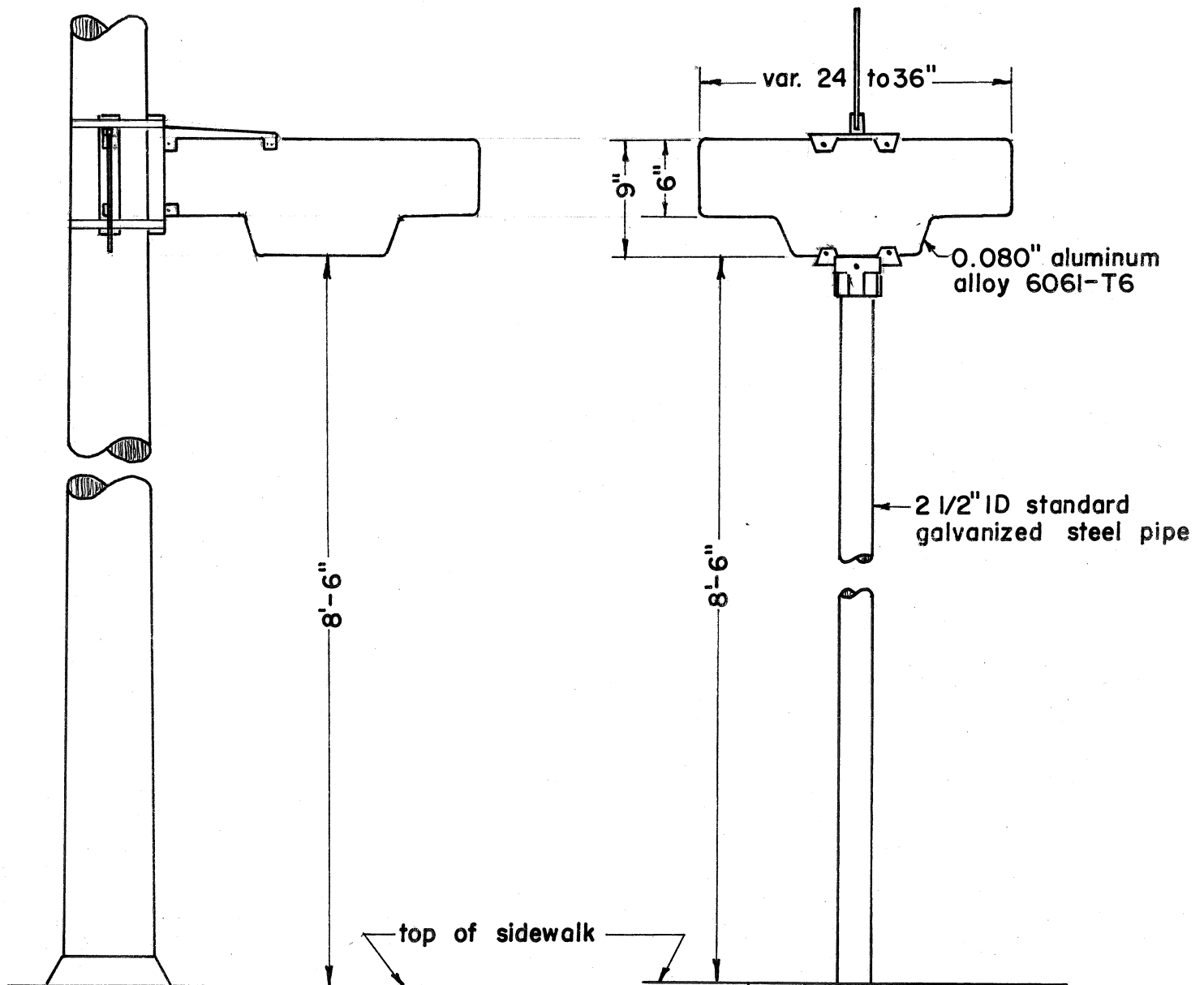
ANCHORAGE DETAIL

Revised Nov. 20, 1981 *T. Lopez*

BEAUTIFICATION STREET LIGHT

SAN MATEO, CALIF.

DATE	DRAWN BY	CHK. BY	APPROVED	PLAN CASE	DRAWER	SHEET
1980	RLG	ES	<i>Adrian Lopez</i> 11/19/81 CITY ENGINEER	3	1	162



ELECTROLIER MOUNTING

Wherever practical street name signs shall be installed on electrolier poles.

Sign hardware shall be HAWKINS "SLOTTED-LOCK" or equal.

Sign faces shall be black lettering on silver reflective sheeting per city Standard Specifications For Traffic Signs 4/2/71

POST TOP MOUNTING

SAN MATEO

CALIFORNIA

STANDARD STREET NAME SIGN

DATE
1973

DRAWN BY
RKH

CHK. BY

APPROVED

[Signature]

11/4/71
CITY ENGINEER

PLAN CASE

3

DRAWER

1

SHEET

168