STREET LIGHT DESIGN:

All new streetlight installations shall have P. G. & E. Streetlight Numbers installed as part of the subdivision construction and shown on the as-built drawings.

The information for the size, type, height and location of the numbers on the poles is shown in on the PG&E Document, "Identification of Street Light Luminaries (#015137 dated 08-29-95)"

The location of the service points, conduit runs & pull boxes shall be shown on and be part of the as-built drawings. The subdivision will not be accepted until these items are shown on the as-built plans.

Shown below is a table depicting the maximum distance and maximum number of lights on a typical City 120-volt circuit. The typical City circuit uses 8-gauge wire. If the proposed system has too many lights, then the engineer must specify a larger gauge of wire or provide more service points.:

Street Width Curb To Curb	Wattage	Maximum Spacing	Maximum Distance From Service Point	Maximum Lights Per Service Point	Mast Arm Length / Pole Height / Mast Arm Rise And Details
20' - 32'	70	150'	1500'	11	6' / 30' / 1.5'
36' - 40'	100	200'	1600'	8	6' / 30' / 1.5'
44'	150	110'	990'	9	6' / 30' / 1.5'
60' - 68'	200	100'	800'	8	12' / 30' / 2.5'
74' 80'	2 - 150's	150'	750'	5	12' / 30' / 2.5' Double Mounted In Median

All luminaires will be installed with operational photocell, with sensor facing North. Refractor shall have I.E.S. Type III Light Distribution Pattern. All luminaires shall be high pressure sodium, and shall be cutoff type.

IDENTIFICATION OF STREET LIGHT LUMINAIRES 015137

Dept:	Distribution	**Section:**	Electric
Approved by:	C. C. Damianakes	**Date:**	08-29-95

Rev. #00: This document replaces Engineering Standard 015137. For a description of changes see Page 5.

Purpose and Scope:

The markings shown in this document are to be used to identify both company and private luminaires. Luminaire marking will identify who is responsible for maintaining the luminaires. It is also necessary to identify customer-owned poles supporting company-owned luminaires.

General Information:

1. Use Scotchlite reflective streetlight numbers on metal or smooth concrete poles or posts. On rough concrete surfaces, stick aluminum number plate as shown in Table 3 on Page 5 to pole with RTV glue, Code 495261. Then install reflective numerals as shown in Table 2 on Page 4 onto number plate.
2. Luminaires require one street location number.
3. Use aluminum number plate, Table 3 on Page 5, on wood poles. Attach with 1-1/2" x 11 gauge galvanized roofing nails, Code 197057. Install reflective numerals as shown in Table 2 on Page 4 onto number plate.
4. On special laminated wood posts or poles Monel tape may be used.
5. Use 3" x 3" lamp identification decal on the lower side of the luminaire behind the refractor. On post top luminaires, place the decal on the post just below the luminaire. The identifying code for lamp wattages and type is shown in Table 1 on Page 3.

Customer-Owned Poles Supporting Company-Owned Luminaires:

6. Install street light identification numbers as shown in this document.
7. Identify customer-owned poles as follows:
   A. A pole identification nail, with the words "Customer Pole" (Code 197155), is to be used in place of the date nail on customer-owned wood poles. Place the "Customer Pole" nail in accordance with Document 022168, taking the place of the date nail. Date nails (Code 197146) are *not* to be installed on customer-owned poles.
   B. Customer-owned metal or concrete poles are to be identified with the letters "CP". These letters are to be placed approximately 4" below the luminaire identification number, using the materials shown in this document.

Identification of Street Light Luminaires

Typical Placement of Identification On Luminaires

Notes:

1. Figure 1, Figure 2 and Figure 3 are metal or concrete poles or posts.
2. In those installations where aesthetics are considered important, the identification number may be placed on the lower side of the luminaire in the vicinity of the 3" x 3" lamp identification decal. On post top luminaires, it may be put on the base of the luminaire or on the pole below the luminaire.

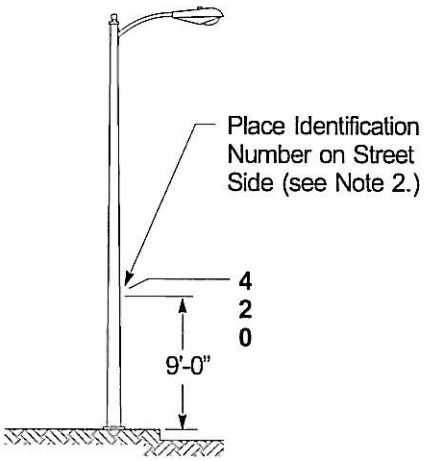

Figure 1
Single Luminaire

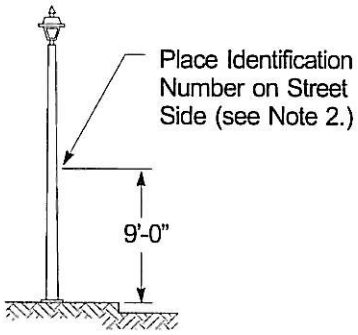

Figure 2
Post Top Luminaire

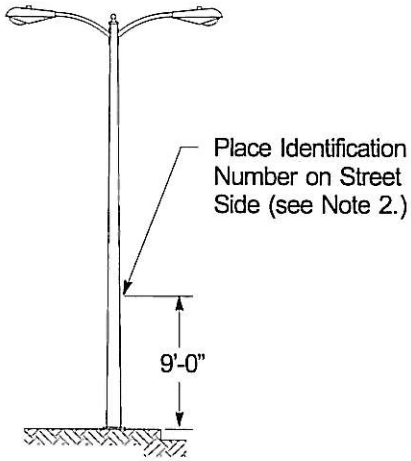

Figure 3
Twin Luminaires

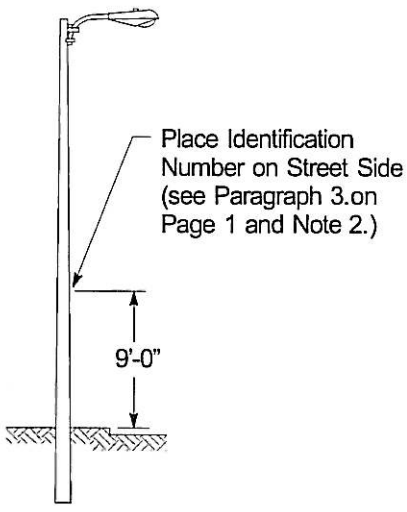

Figure 4
Luminaire on Street Lighting Wood Pole

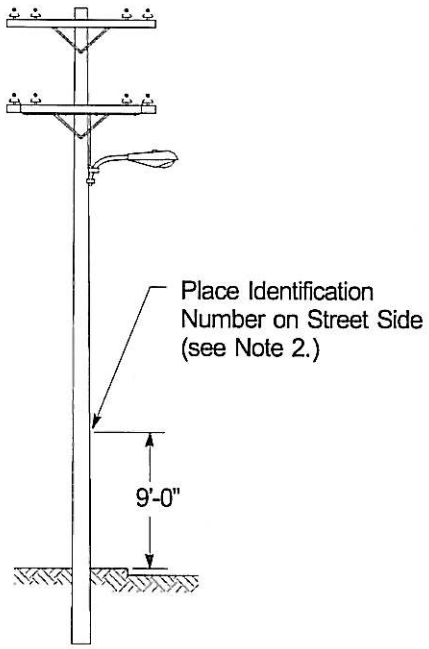

Figure 5
Luminaire on Distribution Pole

Identification of Street Light Luminaires

Lamp Identification Decals

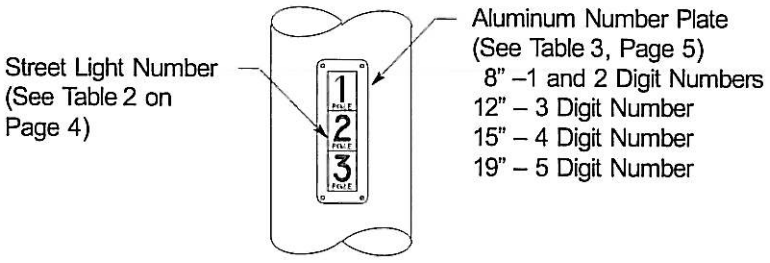

Figure 6
Typical Arrangement of Numbers on Pole

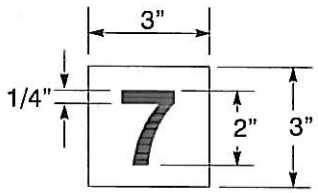

Figure 7
High Pressure Sodium
and Mercury Lamp

Table 1 Lamp Identification Decals for High Pressure Sodium and Mercury Lamp (Figure 7)

Numeral on Identification Decal	High Pressure Sodium Decal Background Color Gold		Mercury Decal Background Color Blue	
	Lamp Wattage	Code [1]	Lamp Wattage	Code [1]
7	70	373735	–	–
10	100	373736	100	373748
15	150	373737	–	–
17	–	–	175	373749
20	200	373745	–	–
25	250	373746	250	373750
40	400	373747	400	373751
70	–	–	700	373752
X1	–	–	1000	373753

[1] Each coded unit consists of 100 decals (Black numbers and letters).

Identification of Street Light Luminaires

Scotchlite Reflective Numerals and Letters for Street Light Marking

Notes:

1. Installation Instructions for reflective numerals and letters:
   A. Clean and thoroughly dry the application area.
   B. Peel backing paper off reflective numeral and apply.
   C. Press reflective numeral firmly from center outward to remove any entrapped air.
2. Color: Black numbers and letters with a reflective silver background

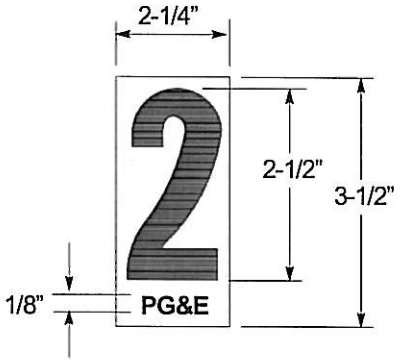

Figure 8
Scotchlite Reflective Numerals

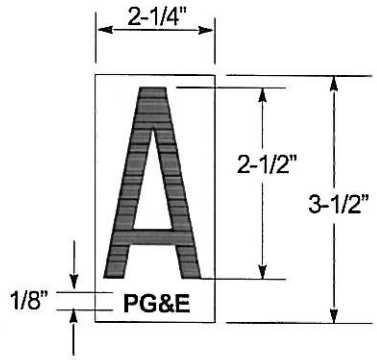

Figure 9
Scotchlite Reflective Letters

Table 2 Codes for Scotchlite Reflective Numerals and Letters

Numerals		Letters					
Numeral	Code [1]	Letter	Code [1]	Letter	Code [1]	Letter	Code [1]
0	621344	A	622516	K	622526	U	622536
1	621345	B	622517	L	622527	V	622537
2	621346	C	622518	M	622528	W	622538
3	621347	D	622519	N	622529	X	622539
4	621348	E	622520	O	622530	Y	622540
5	621349	F	622521	P	622531	Z	622541
6	621350	G	622522	Q	622532	–	–
7	621351	H	622523	R	622533	–	–
8	621352	I	622524	S	622534	–	–
9	621353	J	622525	T	622535	–	–

[1] Each Code number covers a ziplock bag containing 50 reflective numerals

Identification of Street Light Luminaires

Aluminum Number Plates

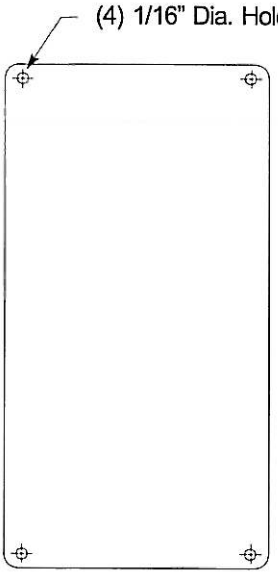

Figure 10
Typical Aluminum Number Plate

Table 3 Dimensions and Codes for Aluminum Number Plate

Dimensions	Color	Code
2-1/2" x 8" x .020	Non-Reflective White	622542
2-1/2" x 12" x .020		622543
2-1/2" x 15" x .020		622544
2-1/2" x 19" x .020		622545

Revision 00 has the following changes: Converted Engineering Standard 015137 to Interleaf Document 015137. Rearranged contents; completely revised text, table and graphics numbering streams; reset Revision number stream to zero. **Added:** customer-owned pole information.