PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

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DEVELOPMENT ENGINEERING DESIGN BULLETIN

CATEGORY: **3 Improvement Plans, Street Lights**
TITLE: **3.6.1 Street Light Design**

DATE: **October 31, 2008**

THE FOLLOWING LIST OF STREETLIGHT ITEMS APPLY TO IMPROVEMENT PLANS AND WILL BE REQUIRED WITHIN THE STREETLIGHT NOTES OR FOR IMPLEMENTATION INTO THE IMPROVEMENT PLANS.

1. The streetlight conduit runs shall be installed under the sidewalk. Streetlight service boxes shall be installed in the sidewalk at the streetlight location.

2. 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.

3. The City of Chico encourages the Engineer to have a note placed on the Landscape, Street Tree or Irrigation Plans as to the location of the streetlight conduit's location between the streetlight and the streetlight service box located in the sidewalk.

4. A set of PG&E Underground Joint Trench plans showing service point(s), location(s), conduit runs and streetlight service box locations (in sidewalk), shall be available to the City of Chico Construction Inspector at the time the underground utility trenching commences.

5. When PG&E energizes the streetlights, the developer's engineer, contractor, or representative shall notify the City of Chico's Project Inspector, by calling the Inspection Hotline @ 879-6999, so that the mandatory 7 day burn-in period of the streetlights can start.

6. All new streetlight installations shall have PG&E Streetlight Numbers assigned. The PG&E streetlight numbers are to be acquired and installed by the developer's contractor, as part of the subdivision construction and shown on the as-built drawings. The information for the size, type and mounting height of the numbers on the poles is shown in the PG&E document "Identification of Streetlight Luminaries" #015137, dated 08-29-95, or Attachment A of this Bulletin.

7. The location of the service points, conduit runs and streetlight service boxes shall be shown on and be part of the As-built Plans. The subdivision will not be accepted until these items are shown on the As-built Plans.

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CITY OF CHICO
STREETLIGHT WATTAGE AND SPACING CRITERIA
RESIDENTIAL STREETS

Street Width	Wattage	Max. Spacing	Max. Dist. From Service Point	Max. Lights Per Service	M	A	N
Cobra Head							
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' Lights in Median	2 - 150	150'	750'	5	12'	30'	2.5'
Gardco Mdl. EH14							
20' - 32'	70	150'	1500'	11			
36' -40'	100	200'	1600'	8			
Bike Path	70	150'	1500'	11			
Bike Path	100	200'	1600'	8			
Arched InvertedLantern Luminaire							
20' - 32'	70	100'	1100'	11			
36' - 40'	100	150'	1200'	8			
Over 40'	150	200'	1200'	6			
Post Top Lantern Luminaire							
20' - 32'	70	150'	1500'	10			
36' - 40'	70	140'	1400'	10			

M = Mast Arm Length
A = Height of Pole
N = Rise of Mast Arm

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Shown above 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 additional services points.

STD. SL-1: Cobra Head: General Electric, M2AC XX S 1 N @ (G or A) MC3 I

STD. SL-3: Gardco Luminaire Model: EH14 1 3 XXHPS 120 BRA PC Poly
Valmont Pole Model: DS330 500W250

ARCH INVERTED LANTERN LUMINAIRE:
Sun Valley Luminaire Model:
LCW-PM-CP/70MHMT/BK/HS135/SF/PV/120V
Arm Model: XPM-1/BLK
Pole/Base Model: 44-1080C-10FT111N/PT27/BK

Sternberg Luminaire Model: 1910/5RLM24/70HPS120
Pole Model: 2500 RT5-18AG/DB

Bieber Luminaire Model: SUM-30-E1-2-L-3H–A-AT07-DB-PC
Pole Model: P-RT-A-5-18-AB03-DB

POST TOP LANTERN LUMINAIRE:
Hanover Grande Jefferson Model No. 8432R3
Hanover Pole Model No. 297 - 18'

ATTACHMENT A - PG&E Identification of Streetlight Luminaries #015137