

# **City of Watsonville**

## **PUBLIC IMPROVEMENT STANDARDS**



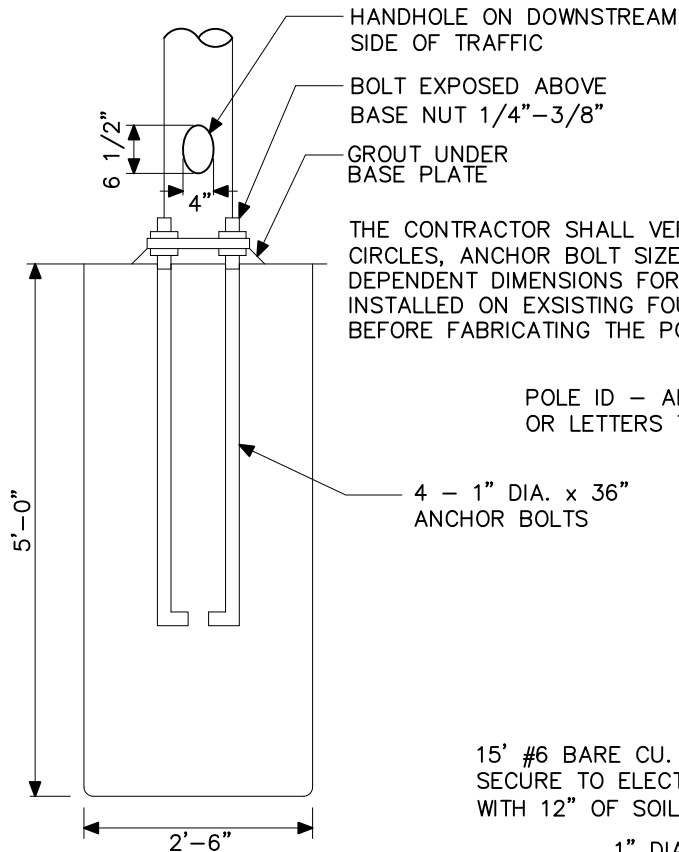
CITY OF  
WATSONVILLE

CITY OF WATSONVILLE PUBLIC WORKS & UTILITIES DEPARTMENT

MAY 28, 2013  
RESOLUTION 76-13 (CM)

INTEGRAL P.E.C.  
(FISHER PIERCE  
6690B OR EQUAL)

LED STREET LIGHT DIMMABLE, TYPE III  
DISTRIBUTION. LEOTEK CAT No.  
GC1-20E-MV-NW-3-GY-530-FDC-WL,  
UNLESS OTHERWISE NOTED ON PLANS.

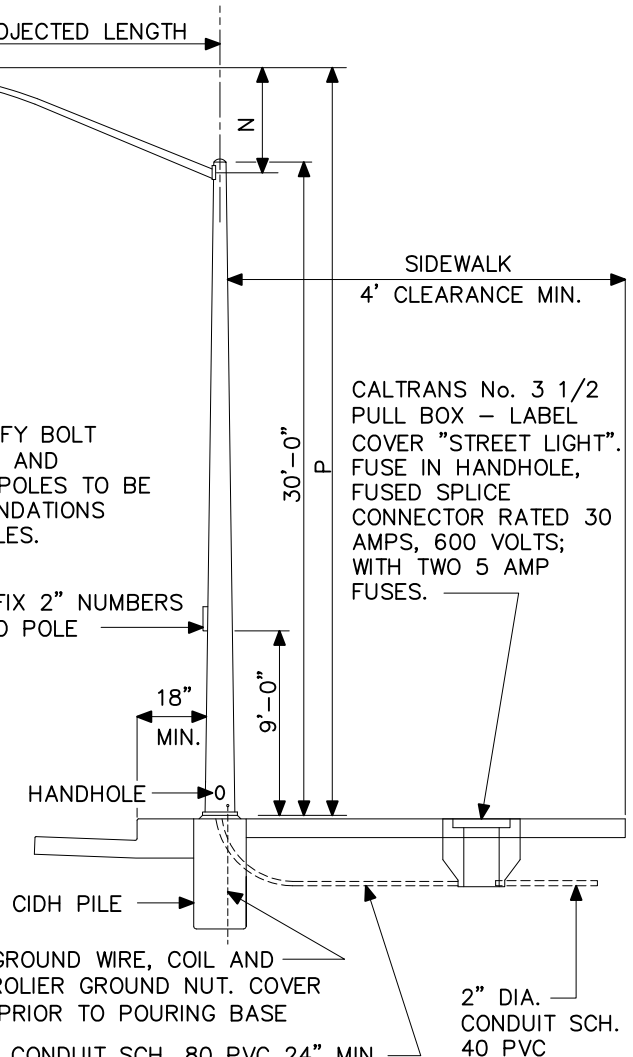


HANDHOLE AND PILE DETAIL

THE CONTRACTOR SHALL VERIFY BOLT  
CIRCLES, ANCHOR BOLT SIZES AND  
DEPENDENT DIMENSIONS FOR POLES TO BE  
INSTALLED ON EXISTING FOUNDATIONS  
BEFORE FABRICATING THE POLES.

POLE ID - AFFIX 2" NUMBERS  
OR LETTERS TO POLE

4 - 1" DIA. x 36"  
ANCHOR BOLTS



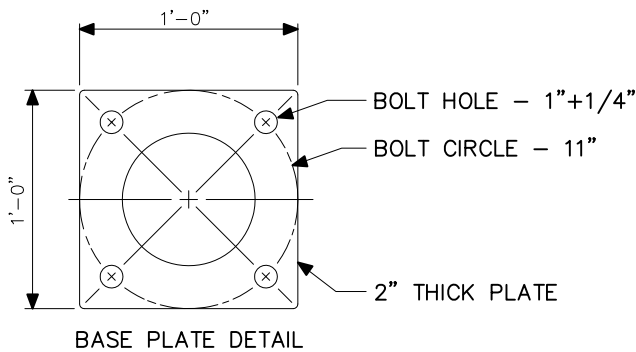
CALTRANS No. 3 1/2  
PULL BOX - LABEL  
COVER "STREET LIGHT".  
FUSE IN HANDHOLE,  
FUSED SPLICE  
CONNECTOR RATED 30  
AMPS, 600 VOLTS;  
WITH TWO 5 AMP  
FUSES.

15' #6 BARE CU. GROUND WIRE, COIL AND  
SECURE TO ELECTROLIER GROUND NUT. COVER  
WITH 12" OF SOIL PRIOR TO POURING BASE

1" DIA. CONDUIT SCH. 80 PVC 24" MIN.  
RADIUS BEND ELECTRIC WIRE TO BE TYPE  
AWG #8, 600 VOLT 3' SLACK IN PULLBOX

2" DIA.  
CONDUIT SCH.  
40 PVC

CALTRANS TYPE 15 POLE



BASE PLATE DETAIL

NOTE:

SEE CALTRANS STANDARD DETAILS FOR  
ADDITIONAL TYPE 15 POLE INFO.

LUMINAIRE ARM DATA				
M PROJECTED LENGTH	N RISE	MIN. O.D. AT POLE	NOMINAL THICKNESS	P TYPE 15
6'-0"	2'-0"±	3 1/4"	0.1196"	31'-6"±
8'-0"	2'-6"±	3 1/2"	0.1196"	32'-0"±
10'-0"	3'-3"±	3 7/8"	0.1196"	32'-9"±
12'-0"	4'-3"±	3 7/8"	0.1196"	33'-9"±
15'-0"	4'-9"±	4 1/4"	0.1196"	34'-3"±

CITY OF WATSONVILLE PUBLIC WORKS & UTILITIES DEPARTMENT

NOT TO SCALE

DRAWN BY:  
M.P.

CHECKED BY:  
T.S.



STANDARD DRAWING FOR

**ELECTROLIER**

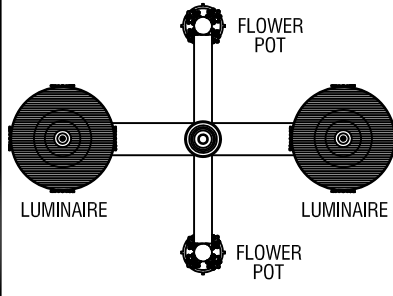
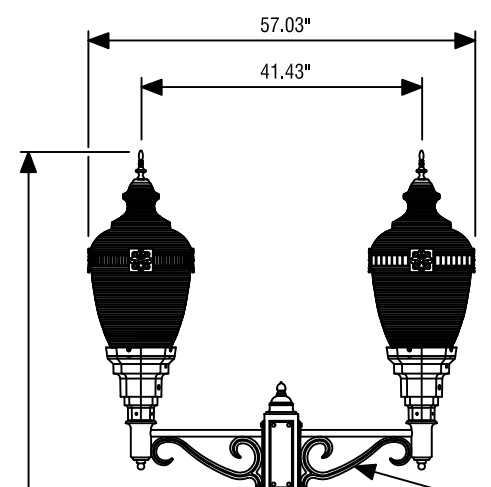
*Maria Esther Rodriguez*  
MARIA ESTHER RODRIGUEZ, CITY ENGINEER

DRAWN:  
6/98

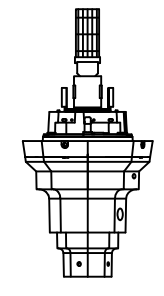
REV.:  
2/13

RESOLUTION:  
76-13 (CM)

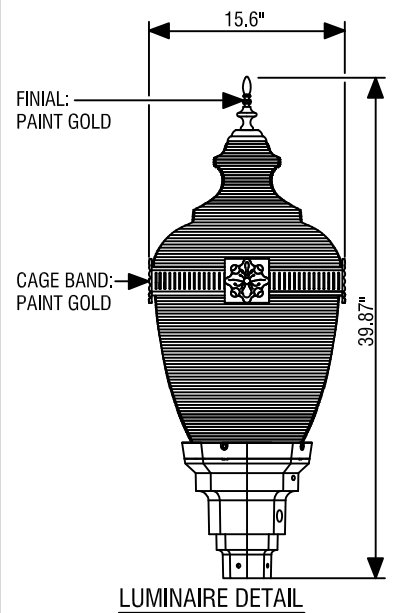
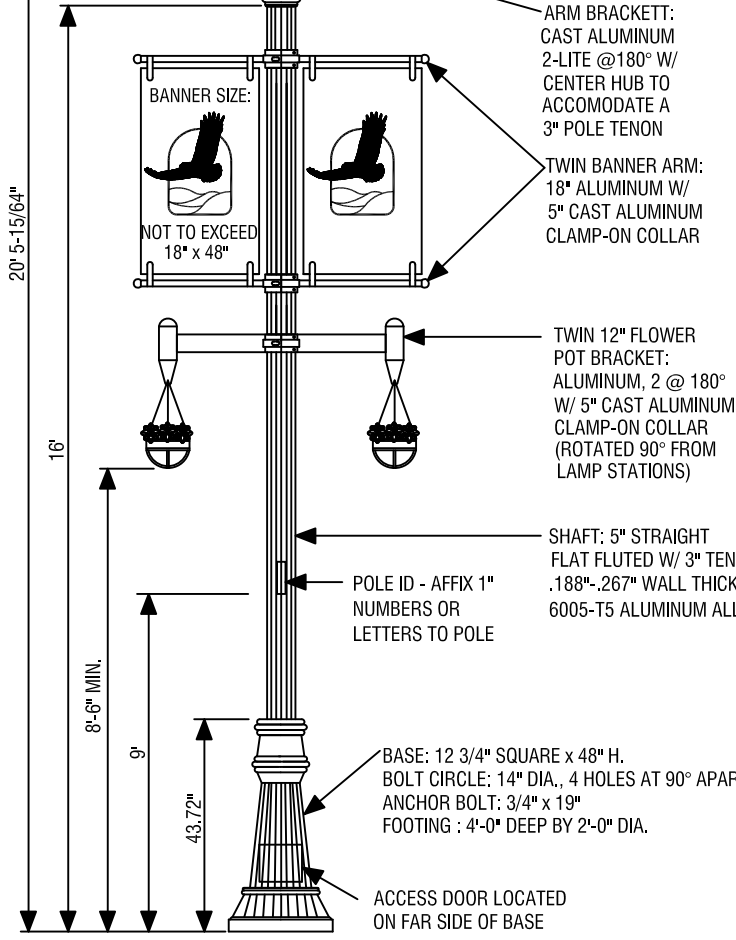
DRAWING No.  
**S-501**



PLAN VIEW



LAMPING DETAIL



LUMINAIRE DETAIL

**PHILIPS HADCO**

- LED MODULE SPECIFICATIONS:
- 120-277 VAC, 50/60 Hz, AUTO SENSING.
  - 60,000 HOURS @ 70° LUMEN MAINTENANCE.
  - 80 TOTAL LEDS (100 LUMENS/WATT EA.)
  - 4 CAST ALUMINUM HEAT SINKS, IP66 RATED.
  - LED EFFICACY: 100 LUMENS/WATT.
  - 70 COLOR RENDERING (CCT).
  - 4000K COLOR TEMPERATURE (CCT).
  - POLE AND LUMINAIRE COLOR SHALL BE HADCO GREEN

**ORDERING GUIDE**

SA7718E: LUMLOCK ASSEMBLY

CITY OF WATSONVILLE PUBLIC WORKS & UTILITIES DEPARTMENT

NOT TO SCALE

DRAWN BY:  
P.C.

CHECKED BY:  
C.M.



STANDARD DRAWING FOR  
**DOWNTOWN CORRIDOR  
STREET LIGHT STANDARD**

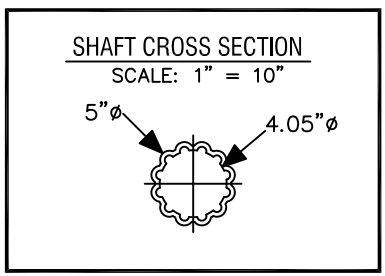
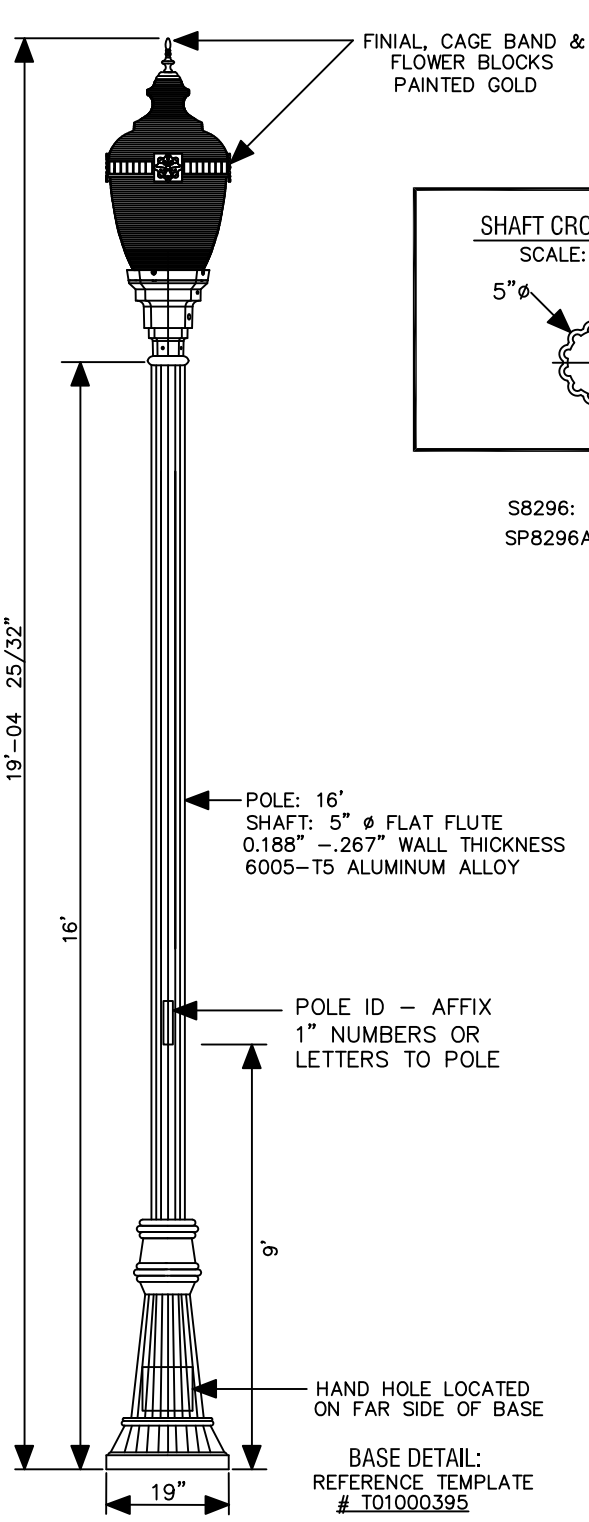
*Maria Esther Rodriguez*  
MARIA ESTHER RODRIGUEZ, CITY ENGINEER

DRAWN:  
4/99

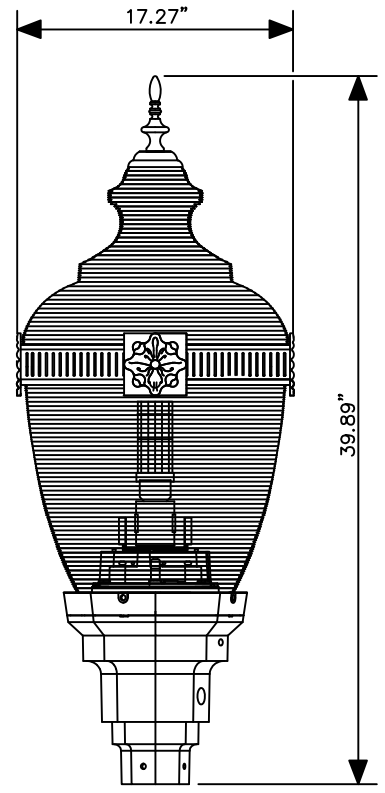
REV.:  
5/13

RESOLUTION:  
76-13 (CM)

DRAWING No.  
**S-502**



S8296: LUMINAIRE  
SP8296A: POLE



ORDERING GUIDE

SA7718E: LUMLOCK ASSEMBLY

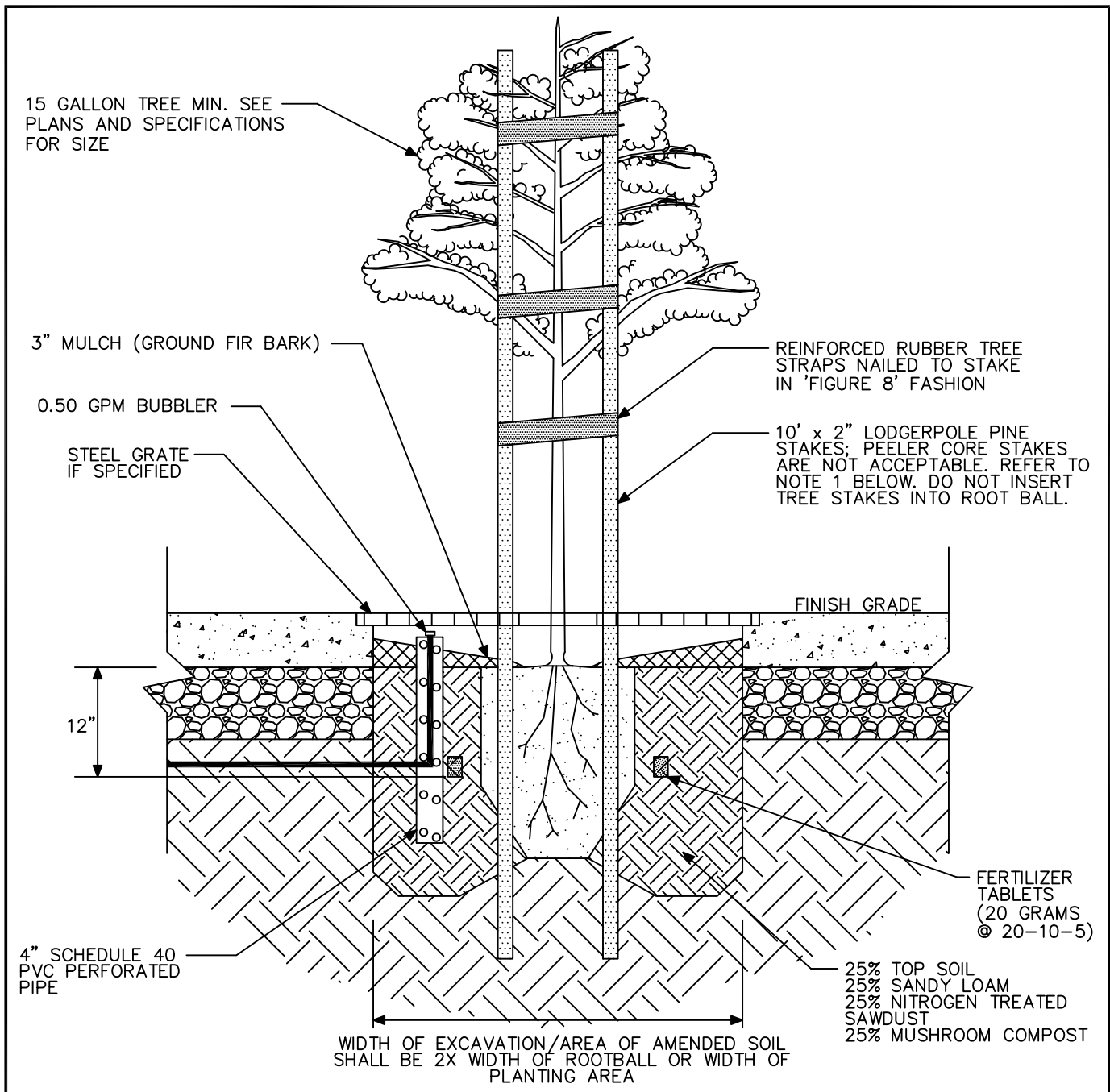
PHILIPS HADCO

- LED MODULE SPECIFICATIONS:
- 120-277 VAC. 50/60 Hz. AUTO SENSING.
  - 60,000 HOURS @ 70° LUMEN MAINTENANCE.
  - 80 TOTAL LEDS (100 LUMENS/WATT EA.)
  - 4 CAST ALUMINUM HEAT SINKS. IP66 RATED.
  - LED EFFICACY: 100 LUMENS/WATT.
  - 70 COLOR RENDERING (CCT).
  - 4000K COLOR TEMPERATRE (CCT).
  - POLE AND LUMINAIRE COLOR SHALL BE HADCO GREEN

NOTE: INFORMATION TAKEN FROM HADCO DRAWING NUMBER S8296A  
HADCO PHONE: (717) 359-7131

CITY OF WATSONVILLE PUBLIC WORKS & UTILITIES DEPARTMENT

NOT TO SCALE	<p>CITY OF WATSONVILLE</p>	STANDARD DRAWING FOR <b>RESIDENTIAL STREET LIGHT</b>	DRAWN: 10/03	REV.: 5/13
			RESOLUTION: 76-13 (CM)	
DRAWN BY: P.A.C.		CHECKED BY: C.M.	<p>MARIA ESTHER RODRIGUEZ, CITY ENGINEER</p>	DRAWING No. <b>S-503</b>



15 GALLON TREE MIN. SEE PLANS AND SPECIFICATIONS FOR SIZE

3" MULCH (GROUND FIR BARK)

0.50 GPM BUBBLER

STEEL GRATE IF SPECIFIED

REINFORCED RUBBER TREE STRAPS NAILED TO STAKE IN 'FIGURE 8' FASHION

10' x 2" LODGERPOLE PINE STAKES; PEELER CORE STAKES ARE NOT ACCEPTABLE. REFER TO NOTE 1 BELOW. DO NOT INSERT TREE STAKES INTO ROOT BALL.

FINISH GRADE

12"

4" SCHEDULE 40 PVC PERFORATED PIPE

FERTILIZER TABLETS (20 GRAMS @ 20-10-5)

25% TOP SOIL  
25% SANDY LOAM  
25% NITROGEN TREATED SAWDUST  
25% MUSHROOM COMPOST

WIDTH OF EXCAVATION/AREA OF AMENDED SOIL SHALL BE 2X WIDTH OF ROOTBALL OR WIDTH OF PLANTING AREA

**NOTES:**

1. CONTRACTOR SHALL REMOVE NURSERY STAKE(S) AND TAGS FROM TREES UPON COMPLETION OF STAKING.
2. AS DIRECTED BY THE CITY, TREE GRATE SHALL BE A CAST IRON NEENAH FOUNDRY CO. NO. R-8706-1 (48"x48") WITH U-FRAME AND ACCESS HOLE.

CITY OF WATSONVILLE PUBLIC WORKS & UTILITIES DEPARTMENT

NOT TO SCALE	 <p>CITY OF WATSONVILLE</p>	<p>STANDARD DRAWING FOR <b>TYPICAL TREE PLANTING &amp; STAKING</b></p> <p><i>Maria Esther Rodriguez</i> MARIA ESTHER RODRIGUEZ, CITY ENGINEER</p>	DRAWN: 10/97	REV.: 4/13
DRAWN BY: M.P.			RESOLUTION: 76-13 (CM)	
CHECKED BY: T.S.		DRAWING No. <b>S-504</b>		