PROCEDURES:

- 1. DESIGN RESPONSIBILITIES
 - A. ALL ELECTROLIER PLANS SHALL BE DESIGNED BY A LICENSED ELECTRICAL OR CIVIL ENGINEER AND THEY SHALL BE DRAWN ON A SEPERATE ELECTROLIER PLAN.
 - B. PLANS SHALL INDICATE ALL EXISTING ADJACENT ELECTROLIERS.
 - C. PLANS SHALL BE APPROVED BY THE CITY ENGINEER AND THE DIRECTOR OF ENGINEERING.
- 2. SERVICE POINTS
 - A. WORK SHALL BE COORDINATED WITH PG&E TO ESTABLISH SERVICE POINTS FOR ELECTROLIERS.
 - B. ALL SERVICE POINTS SHALL BE APPROVED BY PG&E.
- DESIGN CRITERIA
 - A. STREET LIGHT DETAILS SHALL BE PER STANDARD DETAILS.
 - B. ILLUMINANCE LEVELS SHALL BE DESIGNED BASED UPON THE FOLLOWING:

ROADWAY CLASSIFICATION	AVERAGE MAINTAINED HORIZONTAL ILLUMINATION	UNIFORMIT		
RESIDENTIAL/LOCAL	.3 FC	6:1		
COLLECTOR	.6 FC	4:1		
ARTERIAL	.9 FC	3:1		

- C. LED LIGHTING SHALL BE USED ON ALL ROADWAYS AND DESIGNED FOR SITE SPECIFIC APPLICATIONS. PROPOSED LIGHTING AND MANUFACTURER SPECIFICATIONS SHALL BE SUBMITTED AND APPROVED BY THE CITY ENGINEER.
- D. LED LIGHTING FIXTURE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 86 OF THE CALTRANS STANDARD SPECIAL PROVISIONS AND RELATED SECTIONS. FIXTURES SHALL BE UL-APPROVED AND SHALL BE LISTED ON THE PG&E QUALIFIED PRODUCTS LIST WITH TARRIFF RATES ESTABLISHED BY PG&E. FIXTURES SHALL HAVE GUARANTEED AVERAGE LAMP LIFE OF 50,000 HOURS AND SHALL BE FURNISHED WITH A MANUFACTURER WARRANTY PROVIDING REPLACEMENT OF FIXTURES THAT DO NOT MEET THIS PERFORMANCE REQUIREMENT. FIXTURES SHALL PRODUCE LIGHT AT 6,000K FREQUENCY, UNLESS OTHERWISE NOTED ON THE PLANS.

NOTES:

- 1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE CITY OF SAN RAMON, APPLICABLE COUNTY AND STATE REGULATIONS, AND THE LATEST APPROVED STANDARDS OF IEEE, ASA, NEMA, UL, OSHA, AND PG&E WHERE APPLICABLE. NOTHING IN THESE PLANS AND SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE.
- 2. NO SPLICES SHALL BE PERMITTED BETWEEN JUNCTION BOXES, AND THOSE WITHIN BOXES SHALL BE WATER TIGHT.
- 3. JUNCTION BOXES MUST BE INSTALLED ADJACENT TO, BUT NOT MORE THAN FIVE FEET AWAY FROM EVERY ELECTROLIER.
- 4. JUNCTION BOXES SHALL BE #3 1/2 PULL BOX WITH MCCAIN VANDAL RESISTANT PULL BOX INSERT, OR APPROVED EQUIVALENT. COVERS SHALL BE INSCRIBED "STREET LIGHTING".
- 5. JUNCTION BOXES SHALL BE # 5 (OR EQUAL) FROM A PG&E SERVICE POINT.
- 6. JUNCTION BOXES SHALL NOT BE MORE THAN 250 FEET APART ON LONG RUNS. THIS SPACING FOLLOWS THE SPACING OF THE ELECTROLIER. SEE NOTE 3
- 7. MINIMUM CONDUIT SIZE TO BE 1 1/2" SCHEDULE 40 PVC. ALL CONDUIT ENDS TO BE DUCT SEALED.
- 8. MINIMUM RADIUS OF CONDUIT BENDS TO BE AS SHOWN ON SL-4.
- 9. CONDUCTORS TO BE UL LISTED 600V No. 8 AWG OR LARGER WITH 7 STRAND SOFT COPPER TYPE THW OR THWN WITH 3/64" INSULATION.
- 10. CONDUCTORS IN STREETLIGHT POLE AND ARM TO BE UL LISTED 600V No. 10 AWG THWN OR LARGER.
- 11. CIRCUITS WITH TWO (2) OR MORE ELECTROLIERS SHALL BE WIRED TO BALANCE THE LOAD.

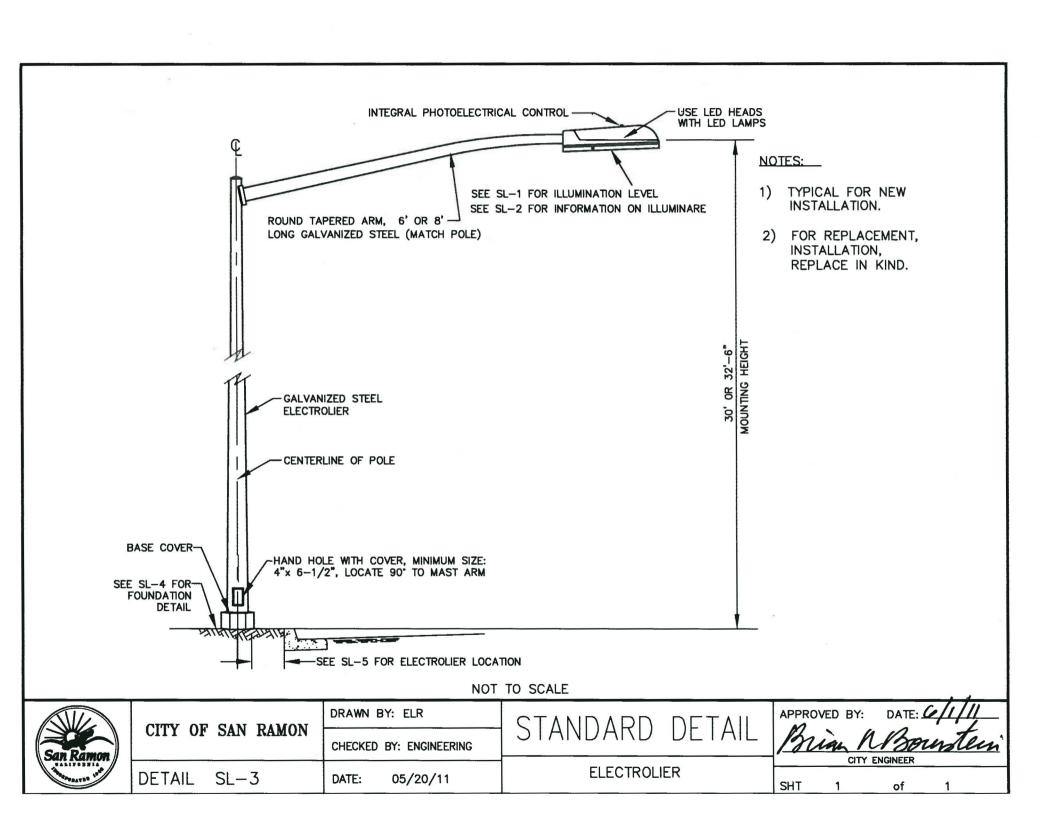
CITY OF SAN RAMON	DRAWN BY: ELR	STANDARD DETAIL	APPROVED BY: DATE: 1-14-12	
	DETAIL OF 1	CHECKED BY: ENGINEERING	STREET LIGHTING DESIGN	CITY ENGINEER
APORATIO I	DETAIL SL-1	DATE: 10/11/12	PROCEDURES AND NOTES	SHT 1 of 1

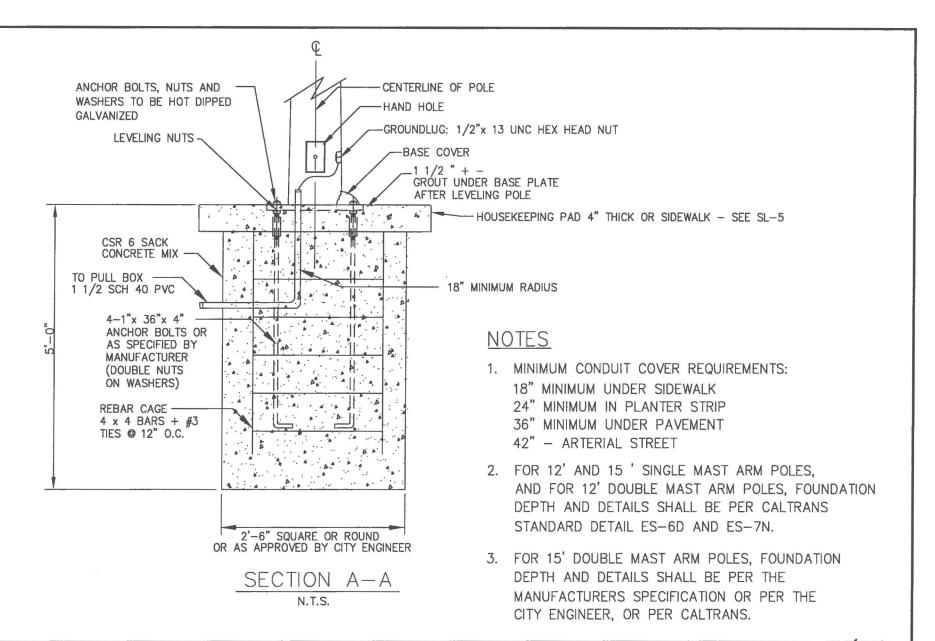
POLES		LUMINAIRES				
GALVANIZED STEEL POLES: MOUNTING HEIGHT	SINGLE 6' ARM	DOUBLE 6' ARMS	LAMP_SIZE	MANUFACTURER & PRODUCT	SERIES	CATALOG NUMBER
30'	PL-286-2 VALMONT DS32-7.5A286-6S-GV	PL-286D-2 VALMONT DS32-7.5A286-6D-GV	70 WATT	AMERICAN ELECTRIC LIGHTING POWER-PAD ROADWAY CUTOFF	313	313-562E2-DJ 313-562E3-DJ
	UNION METAL FB-11286-E6	UNION METAL FB-11286-EE6	150 WATT	AMERICAN ELECTRIC LIGHTING POWER PAD ROADWAY CUTOFF	313	313-56262-DJ 313-56263-DJ
	(MOD. 2C)	(MOD. 2C)	200 WATT	AMERICAN ELECTRIC LIGHTING POWER PAD ROADWAY CUTOFF	313	313-062J2-DJ
	SINGLE 8' ARM AMERON	DOUBLE 8' ARMS AMERON	250 WATT	AMERICAN ELECTRIC LIGHTING POWER PAD ROADWAY CUTOFF	313	313-06232-DJ
32' - 6"	PL-318-2 VALMONT	PL-318D-2 VALMONT DS32-8.0A310-8D-GV	200 WATT	AMERICAN ELECTRIC LIGHTING POWER PAD ROADWAY CUTOFF	325	325-062J2-DJ 325-062J3-DJ
UNION METAL FB-11310-E8	UNION METAL FB-11310-EE8 (MOD. 2C)	250 WATT	AMERICAN ELECTRIC LIGHTING POWER PAD ROADWAY CUTOFF	325	325-06232-DJ 325-06233-DJ	
	SINGLE 12' ARM AMERON N3012	DOUBLE 12' ARMS AMERON N3012D		DWAY LIGHTING SHALL BE LED LIGH ED BY THE COMPANY BELOW AND A		
33' - 9" +/-	VALMONT 320845808T4 UNION METAL	VALMONT 320860108T4 UNION METAL	1. LEOTEK EI EQUIVALEN	LECTRONICS USA CORPORATION FIX NT.	TURES OR /	APPROVED
34' - 3" +/-	SINGLE 15' ARM AMERON N3015 VALMONT 320845808T4	DOUBLE 15' ARMS AMERON N3015D VALMONT 320860106T4				
NOTES	UNION METAL	UNION METAL				

NOTES:

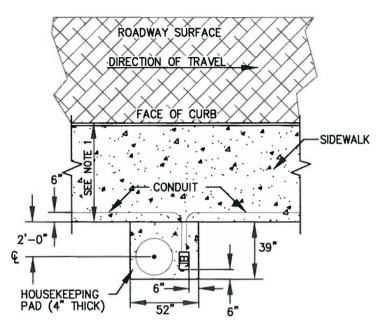
1) TYPICAL FOR NEW INSTALLATION.
2) FOR REPLACEMENT INSTALLATION, REPLACE IN KIND.

CITY OF SAN RAMON DETAIL SL-2	CITY OF CAN DAMON	DRAWN BY: ELR	STANDARD DETAIL	APPRO'	VED BY:	DATE: 9	30-22
	CHECKED BY: ENG'G., PS	STANDAND DETAIL	Buff Boll CITY ENGINEER				
	DETAIL SL-2	DATE: 9/29/22	POLE AND LUMINAIRE SCHEDULE	SHT	1	of	1



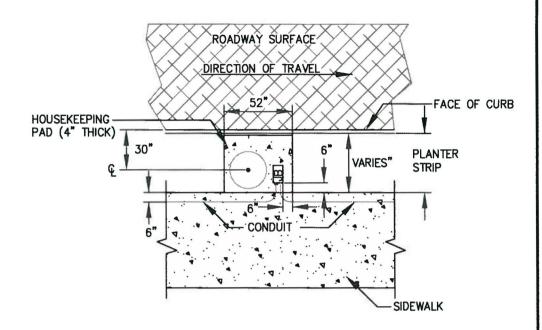


San Ramon	CITY OF SAN RAMON	DRAWN BY: ELR CHECKED BY: ENGINEERING	STANDARD DETAIL	APPROVED BY: DATE: 1/26/16 Dir R Bounter		
	DETAIL SL-4	DATE: 12/17/15	ELECTROLIER FOUNDATION	CITY ENGINEER SHT 1 of 1		



16" MIN. RADIUS BENDS FOR 1 1/2" CONDUIT 18" MIN. RADIUS BENDS FOR 2" CONDUIT SET JUNCTION BOX PERPENDICULAR TO STREET POLE HAND HOLE TO FACE JUNCTION BOX

MONOLITHIC SIDEWALK



18" MIN. RADIUS BENDS IN CONDUIT SET JUNCTION BOX PERPENDICULAR TO STREET POLE HAND HOLE TO FACE JUNCTION BOX

PLANTER STRIP OR CURVILINEAR SIDEWALK

PLAN VIEW

NOTES:

- FOR ELECTROLIERS IN SIDEWALKS, INSTALL CENTER LINE OF ELECTROLIER A MINIMUM OF 30" FROM FACE OF CURB AND PROVIDE MINIMUM OF FOUR FEET OF SIDEWALK CLEARANCE.
- HOUSEKEEPING PAD SHALL EXTEND 6" MINIMUM BEYOND STREET LIGHT FOUNDATION AND JUNCTION BOX.
- 3. PAD OR SIDEWALK TO BE EXTENDED TO FILL ANY GAP LESS THAN 12".

- HOUSEKEEPING PAD TO BE SLOPED AT 2% TOWARDS STREET AND ELEVATION SHALL CONFORM TO ADJOINING CONCRETE.
- 5. IN MEDIAN ISLANDS, CENTERLINE OF ELECTROLIER TO BE ON CENTERLINE OF MEDIAN.

San Ramon
A STATE OF

CITY OF SAN RAMON

DRAWN BY: ELR

STANDARD DETAIL

ELECTROLIER LOCATION

APPROVED BY:

BOX 0 1 010

CITY ENGINEER

SHT

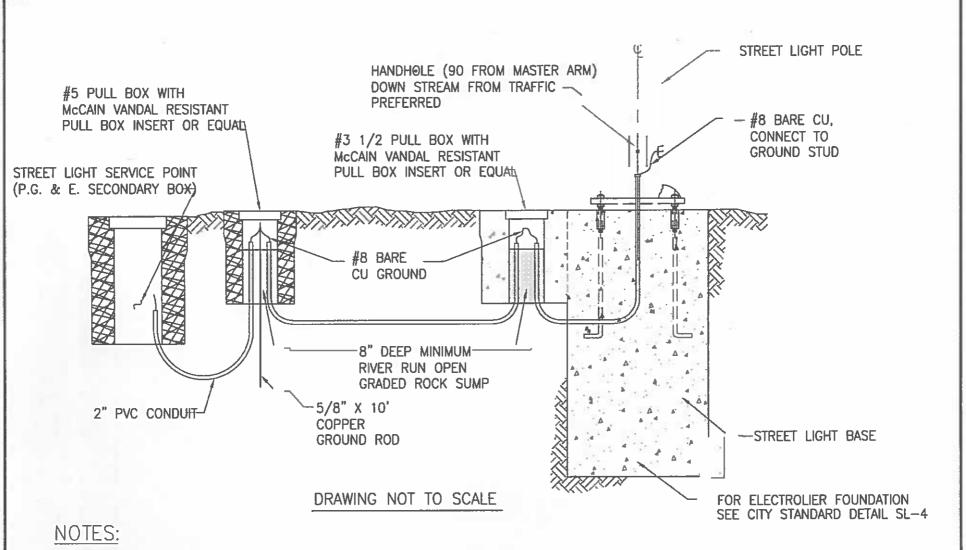
of

DETAIL SL-5

DATE:

05/20/11

CHECKED BY: ENG'G., PUBL.SV.



- 1. FUSE BOX TO BE LOCATED IN THE HANDHOLE OF STREET LIGHT.
- 2. SEE COVERAGE NOTES ON DETAIL SL-4.

	CITY OF SAN RAMON	DRAWN BY: ELR	STANDARD DETAIL	APPROVED BY: DATE: 9-30-22			
San Ramon		CHECKED BY: ENG'G., PUBL.SV.		the	CITY	ENGINEER	
A Annual Life	DETAIL SL-6	DATE: 09/29/22	ELECTROLIER GROUNDING DETAIL	SHT	1	of 1	