NOTES:

- 1. ALL CONDUIT TO BE USED SHALL BE SCHEDULE 40 POLYVINYL CHOLORIDE. THE MINIMUM DEPTH OF COVER FOR CONDUIT SHALL BE AS FOLLOWS:
 - A. WITHIN SIDEWALK OR LANDSCAPED AREA: 21" 0" MIN. BETWEEN POWER SUPPLY AND PULL BOX.
 - B. WITHIN ROADWAY AREAS: 30"
- 2. MINIMUM RADIUS OF BENDS SHALL BE 18 INCHES. ALL BENDS AND/OR OFFSETS SHALL BE MADE WITH FACTORY FABRICATED SECTIONS. THERE SHALL BE NO MORE THAN FOUR BENDS PER RUN.
- 3. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER, A NO. 5(T) PULL BOX (CALTRANS STD. ES-8) SHALL BE USED AT ALL STREET LIGHT STANDARDS. COVERS SHALL BE INSCRIBED WITH STREET LIGHTING AND SECURED WITH SOLID BRASS HOLD-DOWN BOLTS.
- 4. LONG CONDUIT RUNS ARE TO BE AVOIDED. DIRECT POWER SERVICE FROM PG&E SECONDARIES TO THE PULL BOX SHALL BE PROVIDED WHEN POSSIBLE. JUNCTION BOXES TO BE A MAXIMUM OF 250 FEET APART ON LONG RUNS.
- ALL PULL BOX SPLICES SHALL BE WATERTIGHT.
- 6. ALL EMPTY CONDUIT SHALL BE CAPPED AND A 1/4 INCH NYLON PULL ROPE SHALL BE INSTALLED INSIDE WITH EACH END SECURED IN SUCH A WAY AS TO ASSURE THAT THEY WILL REMAIN EXPOSED.
- 7. NO SPLICES SHALL BE INSIDE ANY CONDUIT.
- 8. EACH STREET LIGHT SHALL HAVE A FUSE-DISCONNECT IN THE PULL BOX. FUSE HOLDER SHALL BE OF "FERRAZ SHAWMUT-FEB" IN LINE SERIES, 30A 600V.
- 9. ALL CONDUCTORS SHALL BE THHN (EITHER STRANDED OR NON-STRANDED). CONDUCTOR SIZE FOR LIGHT CIRCUIT(S) SHALL BE DETERMINED FROM THE CONDUCTOR SIZING CHART ON PAGE 3 OF THIS STANDARD.
- 10. CONDUCTORS FROM FUSE DISCONNECT TO LUMINARE SHALL BE #10 THHN.

CONTINUED NEXT PAGE



CITY OF OROVILLE DEPARTMENT OF PUBLIC WORKS

STANDARD FOR
STREET LIGHTS — GENERAL NOTES

DRAWN BY.

RICK WALLS, P.E. DIRECTOR OF PUBLIC WORKS DEPARTMENT

SHEET 1 OF 4 ST-29

NOTES (CONTINUED):

- 11. TWO FEET OF WIRE SLACK SHALL BE LEFT IN THE PULL BOX CLOSEST TO EACH TRANSFORMER.
- 12. OAKUM SHALL BE TAMPED INTO EACH CONDUIT END INSIDE EACH PULL BOX TO KEEP OUT DIRT AND MOISTURE.
- 13. STREET LIGHTS SHALL BE NUMBERED, SEE ST-28.

PROCEDURE FOR CITY ACCEPTANCE OF STREET LIGHTS

THE CITY WILL ACCEPT OWNERSHIP OF STREET LIGHTS AFTER ALL CONSTRUCTION INSPECTIONS HAVE BEEN SUCCESSFULLY COMPLETED. THE CITY WITH THEN NOTIFY PG&E IN WRITING THAT THE STREET LIGHTS ARE TO BE ACCEPTED BY THE CITY.

PG&E WILL THEN PROVIDE THE CITY WITH LIGHT POLE NUMBERS. THE CITY WILL PROVIDE THE ASSIGNED LIGHT POLE NUMBERS TO THE OWNER (OR STREET LIGHT CONTRACTOR).

THE OWNER IS RESPONSIBLE FOR INSTALLING THE ASSIGNED STREET LIGHT POLE NUMBER(S) TO THE LIGHT POLES IN ACCORDANCE WITH PG&E'S NUMBERING STANDARD (CITY STANDARD ST-28).

THE CITY'S ACCEPTANCE OF THE STREET LIGHTS WILL BE CONSIDERED FINALIZED AFTER THE LIGHT POLES HAVE BEEN NUMBERED. AFTER THE LIGHT POLES HAVE BEEN NUMBERED, THE CITY WILL ACCEPT OWNERSHIP OF THE LIGHTS AND WILL START PAYING THE MONTHLY STREET LIGHTING UTILITY BILL TO PG&E.



CITY OF OROVILLE DEPARTMENT OF PUBLIC WORKS

STANDARD NOTES FOR STREET LIGHTS — GENERAL NOTES

DRAWN BY. SG

RICK WALLS, P.E. DIRECTOR OF PUBLIC WORKS DEPARTMENT

SHEET 2 OF 4 ST-29

STREET LIGHT CONDUCTOR SIZING CHART ı CONDUCTOR CROSS SECTIONAL AREA REQUIRED (MILS)

10	9	8	7	6	5	4	3	2	NO. OF LIGHTS	
6450	5805	5160	4515	3870	3225	2580	1935	1290	50	
12900	11610	10320	9030	7740	6450	5160	3870	2580	100	
19350	17415	15480	13545	11610	9675	7740	5805	3870	150	
25800	23220	20640	18060	15480	12900	10320	7740	5160	200	DISTANCE F
32250	29025	25800	22575	19350	16125	12900	9675	6450	250	DISTANCE FROM TRANSFORMER TO FURTHEST LIGHT
38700	34830	30960	27090	23220	19350	15480	11610	7740	300	RMER TO FURT
45150	40635	36120	31605	27090	22575	18060	13545	9030	350	
51600	46440	41280	36120	30960	25800	20640	15480	10320	400	IN CIRCUIT OR SUBCIRCUIT
58050	52245	46440	40635	34830	29025	23220	17415	11610	450	SUBCIRCUIT
64500	58050	51600	45150	38700	32250	25800	19350	12900	500	
70950	63855	56760	49665	42570	35475	28380	21285	14190	550	
77400	69660	61920	54180	46440	38700	30960	23220	15480	600	

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MILS

SIZE AWG

- USE CHART TO DETERMINE REQUIRED CONDUCTOR CROSS—SECTIONAL AREA (MILS) BASED ON NUMBER OF LIGHTS AND DISTANCE FROM POWER SOURCE.
- 5 SELECT WIRE GAUGE BASED ON REQUIRED MILS
- Ş CHART VALID FOR 100-WATT LUMINARIES ONLY.
- CHART VALID FOR 120-VOLT CIRCUITS ONLY.
- 5 VOLTAGE DROP CALCULATIONS REQUIRED FOR STREET LIGHT CIRCUITS WITH LUMINAIRE WATTAGES GREATER THAN 100-WATTS, OR FOR 240-VOLT SYSTEMS.



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DEPARTMENT OF PUBLIC WORKS) OF OROVILLE

STREET LIGHTS - GENERAL NOTES STANDARD FOR

RICK WALLS, P.E.

SHEET 3 OF 4 ST-29

DRAWN BY. SG

DIRECTOR OF PUBLIC WORKS DEPARTMENT

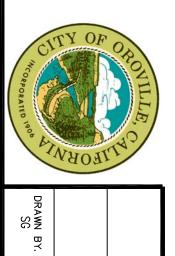
STREET LIGHT POLES AND MAST ARMS

Street Type	H († .)	A (ft.)	HAPCO (Pole & Mast Arm)	VALMONT	T
				(Pole)	(Mast Arm)
Local	25	6	RTA25D6B4M16-01 (21-285) 0.188" wall thickness, satin finish	RTA25D6B4M16-01 (21-285) 2208-40606T4 SBF 0.188" wall thickness, satin finish 0.188 " wall thickness, satin finish (SBF)	1MA0632S SBF satin finish (SBF)
	30	6	RTA30D8B4M16-01 (21-585) 0.188" wall thickness, satin finish	RTA30D8B4M16-01 (21-585) 2708-45806T4 SBF 0.188" wall thickness, satin finish 0.188 " wall thickness, satin finish (SBF)	1MA0632S SBF satin finish (SBF
Collector	Ų.	8	RTA30D8B4M18-01 (21-587) 0.188" wall thickness, satin finish	2708-45806T4 SBF 0.188 " wall thickness, satin finish (SBF)	1MA0832S SBF satin finish (SBF
Arterial	35	8*	RTA35D8B4M18-01 (21-885) 0.250" wall thickness, satin finish	RTA35D8B4M18-01 (21-885) 3208-45808T4 SBF 0.250" wall thickness, satin finish 0.250 " wall thickness, satin finish (SBF)	1MA0832S SBF satin finish (SBF

LUMINAIRES

Street Type	Luminaire Wattage	GE Model No.
Local	100	M2RC 10 S 0 A 2 G MC3
Collector	150	M2RC 15 S 0 A 2 G MC3
Arterial	200 *	M2RC 20 S 0 A 2 G MC3

^{*} Higher Wattage may be required.



CITY OF DEPARTMENT OF PUBLIC WORKS

STANDARD FOR

STREET LIGHTS - GENERAL NOTES

DIRECTOR OF PUBLIC WORKS DEPARTMENT RICK WALLS, P.E.

SHEET 4 OF 4 ST-29

^{*} Larger length mast arms may be required.
H = Luminare Mountin Height
A = Luminare Mast Arm Length
See ST-22