

		Current Assessment	\$100M Assessment	\$125M Assessment	\$150M Assessment
Revenue	FY 23-24 Estimated Revenue	\$46,000,000	\$100,000,000	\$125,000,000	\$150,000,000
	SLMAF Balance Carry Forward from prior FY	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
	Additional SLMAF Revenue (e.g.: Co-Location; etc.)	\$23,000,000	\$23,000,000	\$23,000,000	\$23,000,000
	Total Revenue	\$74,000,000	\$128,000,000	\$153,000,000	\$178,000,000
Expenditures	FY 23-24 SLMAF Estimated Expenditure	\$83,500,000	\$83,500,000	\$83,500,000	\$83,500,000
Maintenance Expenditures Currently Paid by Different Funding Sources	500 SOLAR POWERED LIGHTS (Currently Paid by General Fund)	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000
	SMART CITIES TECH (Currently Paid by General Fund)	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
	CWT REPLACEMENT PROGRAM (Currently Paid by Gas Tax/General Fund)	\$5,768,623	\$5,768,623	\$5,768,623	\$5,768,623
	CWT REPLACEMENT ENHANCEMENT (Currently Paid by Gas Tax/General Fund)	\$6,023,079	\$6,023,079	\$6,023,079	\$6,023,079
Additional Maintenance Requirement for Optimum Support	MAINTENANCE SUPPORT	\$12,009,553	\$12,009,553	\$12,009,553	\$12,009,553
	SOLAR INSTALL & RELOCATION (System Protection)	\$2,197,735	\$2,197,735	\$2,197,735	\$2,197,735
	CONDUIT REPLACEMENT (System Protection)	\$6,406,862	\$6,406,862	\$6,406,862	\$6,406,862
	FORTIFY MAINTENANCE - Level F22 (System Protection)	\$4,478,788	\$4,478,788	\$4,478,788	\$4,478,788
	FIELD TECHNOLOGY MAINTENANCE (System Protection)	\$1,843,540	\$1,843,540	\$1,843,540	\$1,843,540
	LIFECYCLE LED REPLACEMENT	\$6,983,232	\$6,983,232	\$6,983,232	\$6,983,232
	POLE & FOUNDATION REPLACEMENT-SYSTEM REPLACEMENT > 75 YEARS	\$15,911,336	\$15,911,336	\$15,911,336	\$15,911,336
	LOCATE & MARK ADDITIONS	\$1,185,064	\$1,185,064	\$1,185,064	\$1,185,064
	NEW YARD ANNUAL COST	\$1,778,628	\$1,778,628	\$1,778,628	\$1,778,628
	ASD & ITD Support	\$1,612,962	\$1,612,962	\$1,612,962	\$1,612,962
	CALL CENTER	\$343,030	\$343,030	\$343,030	\$343,030
	MISC COSTS (STRATEGIC PLANNING, 3-YEAR AUDIT)	\$230,000	\$230,000	\$230,000	\$230,000
	RELATED COSTS ON NEW PACKAGES	\$8,336,506	\$8,336,506	\$8,336,506	\$8,336,506
	INCREASED COSTS PAID TO OTHER DEPARTMENTS (GSD, PER, ITA, etc)	\$1,629,984	\$1,629,984	\$1,629,984	\$1,629,984
Funding for Pror Years DWP Bills	DWP PAYMENTS FOR PRIOR YEARS BILLS	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
Total Expenditures		\$168,338,922	\$168,338,922	\$168,338,922	\$168,338,922
Total Balance		-\$94,338,922	-\$40,338,922	-\$15,338,922	\$9,661,078

Maintenance Support Increase - Additions to FY 22-23 Prop	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Salary Cost	\$4,220,237	\$4,315,193	\$4,412,284	\$4,511,561	\$4,613,071	\$4,716,865	\$4,822,994	\$4,931,512	\$5,042,471	\$5,155,926	\$46,742,114
Overtime	\$100,000	\$102,250	\$104,551	\$106,903	\$109,308	\$111,768	\$114,283	\$116,854	\$119,483	\$122,171	\$1,107,571
6020 Operating Supplies	\$511,100	\$524,695	\$538,652	\$552,980	\$567,690	\$582,790	\$598,292	\$614,207	\$630,545	\$647,317	\$5,768,269
Materials	\$1,300,000	\$1,334,580	\$1,370,080	\$1,406,524	\$1,443,937	\$1,482,346	\$1,521,777	\$1,562,256	\$1,603,812	\$1,646,473	\$14,671,785
Equipment Purchase	\$5,549,500	0	0	0	0	0	0	0	0	0	\$5,549,500
Equipment Rentals	\$328,716	\$337,460	\$346,436	\$355,651	\$365,112	\$374,824	\$384,794	\$395,030	\$405,537	\$416,325	\$3,709,885
	\$12,009,553	\$6,614,178	\$6,772,003	\$6,933,620	\$7,099,118	\$7,268,593	\$7,442,140	\$7,619,858	\$7,801,848	\$7,988,213	\$77,549,124
Related Costs (Based on CAP Rate on Summary Tab)	\$2,633,006	\$2,692,249	\$2,752,824	\$2,814,763	\$2,878,095	\$2,942,852	\$3,009,066	\$3,076,770	\$3,145,998	\$3,216,782	\$29,162,405
Assumptions											
	0.0225	Annual Increase in Salaries									
	0.0266	Annual Increase in Materials/Rentals									
Goals	FY 22-23 Budget	Goals with Adl' Support In Bus. Days									
Response time for minor repairs	21 Days	4	Minor repairs within initial 2 days to 4 days								
Response time for more major repairs	60 Days	14									
Poles painted per Day	10 Poles	17									
Additional Goals:											
Respond to:	38,000 Painted Poles in the System		38,000 Total Poles								
1,000 post hits a year	10 Year Painting Cycle = 3,800/ year		10.00% Percentage of poles painted each year								
4,200 inspection requests	Number of work days in a year: 225										
8,000 SLOs	16.9 poles per day										
Completed Monthly Light Repairs increased to 1,155 (current average 924/month)											
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Poles Painted	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	38,000
Position	Wages & Count	Current Count	Additional General Maintenance Support Postions Needed	Total Positions	Total Additional Salary Cost						
ASST ST LTG ELECTRCN	\$87,250	22	5	27	\$436,250						
CEMENT FINISHER	\$82,295	1	4	5	\$329,180						
ELECTRCL CRAFT HELPER	\$66,135	28	9	37	\$595,215						
MAINT & CONSTR HELPER	\$50,293	3	4	7	\$201,172						
MECH HELPER	\$50,293	1	2	3	\$100,586						
ST LTG ELECTRCN	\$107,623	27	7	34	\$753,361						
STREET LIGHTING ELECTRICIAN SUPERVISOR	\$123,625	4	3	7	\$370,875						
WELDER SUPERVISOR	\$99,419	0	1	1	\$99,419						
WELDER	\$88,939	2	4	6	\$355,756						
CEMENT FINISHER SUPERVISOR	\$97,300	0	1	1	\$97,300						
ST LIGHTING CONTRUCTION & MAINT SUPT I	\$135,398	1		1	\$0						
Subtotal for Field Crews		89	40	129	\$3,339,114						
PR STOREKEEPER	\$104,485	0	1	1	\$104,485						
SR STOREKEEPER	\$83,376	1		1	\$0						
STOREKEEPER II	\$51,828	1	3	4	\$155,484						
WAREHOUSE & T/R WKR I	\$57,910	1	1	2	\$57,910						
Subtotal For Warehouse		3	5	8	\$317,879						
MANAGEMENT ANALYST	\$84,467	1	1	2	\$84,467						
ACCOUNTING CLERK	\$74,359	1	1	2	\$74,359						
ADMINISTRATIVE CLERK	\$48,798	2	1	3	\$48,798						
SR ADMINISTRATIVE CLERK	\$67,704	1		1	\$0						
SR MGMT ANALYST I	\$118,532	1		1	\$0						
Subtotal for Admin		6	3	9	\$207,624						
SLEA II	\$101,727	0	1	1	\$101,727						
Subtotal for Engineering		0	1	1	\$101,727						
Grand Total		98	49	147	\$3,966,344						
Additional Resolution Positions											
ST LTG ELECTRCN	\$107,623	2		2	\$0						
SR PAINTER	\$93,097	1		1	\$0						
PAINTER	\$84,631	1	3	4	\$253,893						
MAINTENANCE LABORER (in FY 22-23 CLA Proposed)	\$50,400	4		4	\$0						
		8	3		\$253,893						
AllPostions			52 Total		\$4,220,237						
Overtime	Total Overtime										
Overtime	\$100,000										

Additional Crews/Personel Needed:
Reconfigure and create new districts with added personnel and Admin & Warehouse Support staff.

WEST VALLEY DISTRICT
1 Street Lighting Electrician Supervisor
4 SLE
4 ASLE
3 ECH

EAST VALLEY DISTRICT
1 Street Lighting Electrician Supervisor (1 New Position)
4 SLE (4 New Positions)
4 ASLE (4 New Positions)
3 ECH (3 New Positions)

SOUTH/WEST DISTRICT
1 Street Lighting Electrician Supervisor
5 SLE (1 New Position)
5 ASLE
6 ECH (3 New Positions)

WELD & FABRICATION MAINTENANCE DISTRICT
1 Welder Supervisor (1 New Position)
6 Welder (4 New Positions)
2 SLE
3 Mech Helper (2 New Positions)
2 ECH

CENTRAL DISTRICT
1 Street Lighting Electrician Supervisor (1 New Position)
6 SLE (2 New Positions)
7 ASLE
7 ECH (3 New Positions)
1 SLE - Reso

FIELD TECHNOLOGY MAINTENANCE DISTRICT
1 Street Lighting Electrician Supervisor
3 SLE
2 ASLE (1 New Positions)
2 ECH

Hiring Hall Salaries	From FY 22-23 Adopted	Additional Required	Total Positions	Hourly Rate	No. of Hours	Total Cost	2 Maint & Constr Helper
Painter	3	0	3	34.4	1992	\$0	1 SLE - Reso
			0		1992	\$0	
						\$0	<u>SOUTH DISTRICT</u>
							1 Street Lighting Electrician Supervisor
Hiring Hall Benefits	From FY 22-23 Adopted	Additional Required	Total Positions	Hourly Benefit Rate	No. of Hours	Total Cost	7 SLE
Painter	3	0	3	15.13	1992	\$0	4 ASLE
			0		1992	\$0	7 ECH
						\$0	
6020 Operating Supplies	Current Maintenance Budget	Additional Materials Needed	Lifespan in Years				<u>CEMENT & PAINT DISTRICT</u>
							1 Cement Finisher
							Supervisor (1 New Position)
							5 Maint & Constr Helper (4 New Positions)
Paint & Primer & Supplies	\$0	\$111,100	8-10 years for oil based paint. 5 years for water based paint.				5 Cement Finisher (4 New Positions)
Misc Operating Supplies	\$0	\$400,000	Various				1 Senior Painter
Total 6020		\$511,100					4 Painter (3 New Positions)
1,500 gallons to paint 3,800 poles @ \$50/gal/ 650 gallons to primer 3,800 poles @ \$40/gal							
Materials	Current Maintenance Budget	Additional Materials Needed	Lifespan in Years				
Warehouse Transactions - 50VLIS	\$2,600,000	\$1,300,000	Various				
Equipment Purchase	Cost	Additional Vehicles Needed	Total Additional Cost	Lifespan in Years			<u>CITYWIDE/NIGHT RIDES DISTRICT</u>
				6 Years or 72,000 miles (GSD Replacement Cycle - Actual Longer Most Times)			1 Street Lighting Electrician Supervisor (1 New Position)
Derrick (can't be rented)	\$400,000	4	\$1,600,000				3 SLE
							1 ASLE
							5 ECH
							<u>WAREHOUSE & FIELD SUPPORT</u>
Aerial Lift Truck	\$185,000	5	\$925,000	8 Years or 84,000 miles (GSD Replacement Cycle - Actual Longer Most Times)			1 Principal Storekeeper (1 New Position)
							1 Sr Storekeeper
							4 Storekeeper II (3 New Positions)
							2 Warehouse & Tool Room Worker (1 New Position)
							2 ECH
							4 Maint Laborer
Compressor/Dump Truck	\$215,000	4	\$860,000	8 Years or 84,000 miles (GSD Replacement Cycle - Actual Longer Most Times)			
							<u>FRONT OFFICE & ADMIN SUPPORT</u>
							1 SL Constr & Maint Supt
							1
							1 Sr Management Analyst
							2 Management Analyst (1 New Position)
							1 Sr Admin Clerk
							3 Admin Clerk (1 New Position)
							2 Accounting Clerk (1 New Position)
							1 New SLEA II to direct pole painting
Pick-Up Truck	\$42,000	2	\$84,000	6 Years or 72,000 miles (GSD Replacement Cycle - Actual Longer Most Times)			

				6 Years or 72,000 miles (GSD Replacement Cycle - Actual Longer Most Times)
Pick-Up Truck (Upgrade to Crew Cab)	\$45,000	1	\$45,000	
Panel Van (Upgrade to Step Van)	\$80,000		\$0	
Flatbed Trucks with Compressor	\$170,000		\$0	
				6 Years or 72,000 miles (GSD Replacement Cycle - Actual Longer Most Times)
Contractor Crew-Cab w/compressor	\$200,000	2	\$400,000	
Vacuum Excavator with trailer	\$135,000		\$0	
				10 years due to cost of high voltage battery
Chevy Bolts	\$45,500	1	\$45,500	
Cement Truck	\$240,000	2	\$480,000	12-14 years
Chevy Traverse	\$45,000		\$0	
				6 Years or 72,000 miles (GSD Replacement Cycle - Actual Longer Most Times)
Weld Truck	\$185,000	6	\$1,110,000	
Portable Compressor	\$45,000		\$0	
Dump Truck - 3yd	\$155,000		\$0	
Auger	\$395,000		\$0	
		27	\$5,549,500	

Equipment Additional Rental	Cost	Additional Vehicles Needed	Total Annual Additional Cost
Aerial Lift Truck	\$46,940	6	\$281,640
18 Ton Crane Truck	\$47,961		\$0
Dump Truck (3-Yd)	\$19,823		\$0
Stakebed (12 ft)	\$19,747	2	\$39,494
Portable Mixer	\$7,582	1	\$7,582
		9	\$328,716

Solar Install & Relocation											
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Salary Cost	\$362,735	\$370,897	\$379,242	\$387,775	\$396,500	\$405,421	\$414,543	\$423,870	\$433,407	\$443,159	\$4,017,547
Materials	\$1,650,000	\$1,693,890	\$1,738,947	\$1,785,203	\$1,832,690	\$1,881,439	\$1,931,486	\$1,982,863	\$2,035,607	\$2,089,755	\$18,621,881
Equipment Purchase	\$185,000	0	0	0	0	0	0	0	0	0	\$185,000
	\$2,197,735	\$2,064,787	\$2,118,189	\$2,172,978	\$2,229,189	\$2,286,860	\$2,346,029	\$2,406,733	\$2,469,014	\$2,532,913	\$22,824,428
Related Costs (Based on CAP Rate on Summary Tab	\$226,310	\$231,402	\$236,609	\$241,933	\$247,376	\$252,942	\$258,633	\$264,452	\$270,403	\$276,487	\$2,506,548
Assumptions											
0.0225 Annual Increase in Salaries											
0.0266 Annual Increase in Materials/Rentals											
Solar Install & Relocation Goals:											
Annual Solar Panels to Install: 1,000 *FY 22-23 CLA Proposed Budget had 500 Solar Powered Battery Enabled Streetlights at \$1.6 mil in materials											
1 Crew needed to install 20 solar panels per week, 4 per day. \$3,200/light											
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Solar Panels Installed	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	10,000
Position	Wages & Count	Personnel Required	Regular Salary Cost	Crews Needed 1 Field Tech Crew - 1 SLE & 1 ASLE & 1 ECH 1 SLEA II for engineering assistance							
ASST ST LTG ELECTRCN	\$87,250	1	\$87,250								
ELECTRCL CRAFT HELPER	\$66,135	1	\$66,135								
ST LTG ELECTRCN	\$107,623	1	\$107,623								
SLEA II	\$101,727	1	\$101,727								
		4	\$362,735								
Overtime	Total Cost										
Annual Overtime Cost	0										
Materials	FY 22-23 Adopted	Additonal Required	Total Cost	Lifespan in Years							
Cost for Solar Lights @ 3,200/light	\$1,600,000	\$1,600,000	\$3,200,000	7 Years Waranty							
Additional Materials		\$50,000	\$50,000	Various							
Annual Materials Cost*		\$1,650,000	\$3,250,000								

Equipment Purchase	Cost	Additional Vehicles Needed	Total Additional Cost	Lifespan in Years	
				8 Years or 84,000 miles (GSD Replacement Cycle - Actual Longer Most Times)	
Aerial Lift Truck	\$185,000	1	\$185,000		
		1	\$185,000		

Conduit Replacement

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Salary Cost	\$975,892	\$997,850	\$1,020,301	\$1,043,258	\$1,066,731	\$1,090,733	\$1,115,274	\$1,140,368	\$1,166,026	\$1,192,262	\$10,808,695
Materials	\$3,928,970	\$4,033,481	\$4,140,771	\$4,250,916	\$4,363,990	\$4,480,072	\$4,599,242	\$4,721,582	\$4,847,176	\$4,976,111	\$44,342,310
Equipment Purchase	\$1,346,000	0	0	0	0	0	0	0	0	0	\$1,346,000
Equipment Rentals	\$156,000	\$160,150	\$164,410	\$168,783	\$173,272	\$177,882	\$182,613	\$187,471	\$192,457	\$197,577	\$1,760,614
	\$6,406,862	\$5,191,480	\$5,325,482	\$5,462,956	\$5,603,994	\$5,748,686	\$5,897,129	\$6,049,420	\$6,205,660	\$6,365,949	\$58,257,619

Related Costs (Based on CAP Rate on Summary T	\$608,859	\$622,558	\$636,566	\$650,889	\$665,534	\$680,508	\$695,820	\$711,476	\$727,484	\$743,852	\$6,743,545
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0.0225	Annual Increase in Salaries
0.0266	Annual Increase in Materials/Rentals

Conduit Replacement Goals:

6,000 Ft	1" & 2" Conduit to Replace per Week	3,000 Ft - Parallel Distance
270,000 Ft	1" & 2" Conduit to Replace per Year	135,000 Ft - Parallel Distance
3,000 Ft	3" & 4" Conduit to Replace per Week	1,500 Ft - Parallel Distance
156,000 Ft	3" & 4" Conduit to Replace per Year	78,000 Ft - Parallel Distance

528,000 ft (100 Miles) goal for highest needs would be hit in between year 3-4 / 10 Years = 295 miles

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Parallel Conduit Installed (in ft)	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	1,350,000

Position	Wages & Count	Personnel Required	Regular Salary Cost
CEMENT FINISHER	\$82,295	1	\$82,295
ELECTRCL CRAFT HELPER	\$66,135	6	\$396,810
MAINT & CONSTR HELPER	\$50,293	1	\$50,293
ST LTG ELECTRCN	\$107,623	3	\$322,869
STREET LIGHTING ELECTRICIAN SUPERVISOR	\$123,625	1	\$123,625
		12	\$975,892

Crews Needed:
 3 Crews - 1 Electrician & 2 ECH per Crew
 1 SLE Supervisor, 1 M&CH & 1 CF for support
Equipment:
 20X22 Boring Machine may be required for 3" & 4" conduit & parallel.

Material Cost		Lifespan in Years
2' Glavanized (30%)	\$1,670,579	40-50 Years
2" PVC (70%)	\$1,755,786	40-100 Years
Type 3 Fiber Boxes	\$502,605	100+ Years

\$3,928,970

Equipment Purchase	Cost	Additional Vehicles Needed	Total Additional Cost	Lifespan in Years
Sweeper	\$10,000.00	1	\$10,000	8 Years
Backhoe w/ Attachments & Trailer	\$106,000.00	1	\$106,000	8 Years
20 X 22 Directional Boring Machine w/ Vaccum Trailer	\$410,000.00	3	\$1,230,000	7 Years
		5	\$1,346,000	

Equipment Rental	Cost	Additional Vehicles Needed	Total Annual Additional Cost
Dump Truck (3-Yd)	\$19,823	3	\$59,469
Stakebed (12 ft)	\$19,747	3	\$59,241
Portable Compressor	\$6,215	6	\$37,290
		12	\$156,000

Fortify Maintenance Annual Program - F22 (ADDITIONAL CREWS)

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Salary Cost	\$1,087,912	\$1,112,390	\$1,137,419	\$1,163,011	\$1,189,178	\$1,215,935	\$1,243,294	\$1,271,268	\$1,299,871	\$1,329,118	\$12,049,395
Overtime	\$1,000,000	\$1,022,500	\$1,045,506	\$1,069,030	\$1,093,083	\$1,117,678	\$1,142,825	\$1,168,539	\$1,194,831	\$1,221,715	\$11,075,708
Materials	\$2,000,000	\$2,053,200	\$2,107,815	\$2,163,883	\$2,221,442	\$2,280,533	\$2,341,195	\$2,403,471	\$2,467,403	\$2,533,036	\$22,571,977
Equipment Purchase	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment Rentals	\$390,876	\$401,273	\$411,947	\$422,905	\$434,154	\$445,703	\$457,558	\$469,729	\$482,224	\$495,051	\$4,411,422
	\$4,478,788	\$4,589,363	\$4,702,687	\$4,818,829	\$4,937,858	\$5,059,848	\$5,184,872	\$5,313,007	\$5,444,329	\$5,578,920	\$50,108,503
		0.0225	Annual Increase in Salaries								
		0.0266	Annual Increase in Materials/Rentals								

Related Costs (Based on CAP Rate on Summary Tab)	\$678,748	\$694,020	\$709,636	\$725,602	\$741,928	\$758,622	\$775,691	\$793,144	\$810,990	\$829,237	\$7,517,618
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Fortification Goals:

2 five-person Fortification Crews needed Citywide to tackle 6 streetlights per day, 27 per week.

2808 Lights per Year

Each crew would fortify 1,404 lights per year for a total of 2,808 per year for both crews.

For F22 - Fortified Circuit

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Fortified Lights (New Crews Only)	2,808	2,808	2,808	2,808	2,808	2,808	2,808	2,808	2,808	2,808	28,080

Position	Wages & Count	FY 22-23 Adopted	Additional Personnel Required	Total Personnel Required	Regular Salary Cost for New Additional Positions
ASST ST LTG ELECTRCN	\$87,250	2	2	4	\$174,500
CEMENT FINISHER	\$82,295	1	1	2	\$82,295
ELECTRCL CRAFT HELPER	\$66,135	2	2	4	\$132,270
MAINT & CONSTR HELPER	\$50,293		0	0	\$0
MANAGEMENT ANALYST	\$84,467		0	0	\$0
MECH HELPER	\$50,293	1	1	2	\$50,293
SR STOREKEEPER	\$83,376		0	0	\$0
ST LTG ELECTRCN	\$107,623	2	2	4	\$215,246
STOREKEEPER II	\$51,828		1	1	\$51,828
STREET LIGHTING ELECTRICIAN SUPERVISOR	\$123,625	1	1	2	\$123,625
WAREHOUSE & T/R WKR I	\$57,910		0	0	\$0
WELDER	\$88,939	1	1	2	\$88,939
SLEA II	\$101,727		1	1	\$101,727
ACCOUNTING CLERK	\$74,359		0	0	\$0
ADMINISTRATIVE CLERK	\$48,798		0	0	\$0
SR ADMINISTRATIVE CLERK	\$67,704		0	0	\$0
SR MGMT ANALYST I	\$118,532		0	0	\$0
ST LIGHTING CONTRUCTION & MAINT SUPT I	\$135,398		0	0	\$0
CEMENT FINISHER WORKER	\$67,189	1	1	2	\$67,189
		11	13	24	\$1,087,912 (12 Months)

Additional Crews Needed
1 additional fortification group for a total of 2 citywide (Central & Valley)
1 Storekeeper II for support
I.P.D will direct

Overtime	From FY 22-23 CLA Proposed	Additional OT Required	Total Overtime
Overtime	\$1,000,000	\$1,000,000	\$2,000,000

Materials	From FY 22-23 CLA Proposed	Additional Materials Required	Total Materials	Lifespan in Years
Annual Materials Cost	\$2,000,000	\$2,000,000	\$4,000,000	80 Years

Equipment Rental	Cost	Count from FY 22-23 CLA Proposed	Additional Vehicles Needed	Total Vehicles	Total Annual Additional Cost
Aerial Lift Truck	\$46,940	1	1	2	\$93,880
Pick up Truck (Medium Duty)	\$12,956	2	2	4	\$51,824
Flatbed with Compressor - Can't be rented - Cost per EC	\$28,685	1	1	2	\$57,370
Cement Truck - Cost per EC	\$38,950	1	1	2	\$77,900
Compressor Dump - Cost from EC	\$28,408	1	1	2	\$56,816
Welding Truck - Cost from EC	\$26,543	1	1	2	\$53,086
		7	7		\$390,876

Field Technology Maintenance

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Salary Cost	\$296,600	\$303,274	\$310,097	\$317,074	\$324,209	\$331,503	\$338,962	\$346,589	\$354,387	\$362,361	\$3,285,055
Materials	\$1,500,000	\$2,720,200	\$2,792,557	\$2,866,839	\$2,943,097	\$3,021,384	\$3,101,752	\$3,184,259	\$3,268,960	\$3,355,915	\$28,754,964
Equipment Rentals	\$46,940	\$48,189	\$49,470	\$50,786	\$52,137	\$53,524	\$54,948	\$56,409	\$57,910	\$59,450	\$529,764
	\$1,843,540	\$3,071,662	\$3,152,125	\$3,234,700	\$3,319,443	\$3,406,411	\$3,495,662	\$3,587,257	\$3,681,257	\$3,777,726	\$32,569,783

Related Costs (Based on CAP Rate on Summary)	\$185,049	\$189,212	\$193,470	\$197,823	\$202,274	\$206,825	\$211,478	\$216,237	\$221,102	\$226,077	\$2,049,546
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GOALS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Amount of Cameras to install	260										260
Smart Nodes	5,140	19430	19430	19430	19430	19430	19430	19430	19430	19430	180,010

Position	Wages & Count	Personnel Required	Regular Salary Cost
ASST ST LTG ELECTRCN	\$87,250	1	\$87,250
ST LTG ELECTRCN	\$107,623	1	\$107,623
SLEA II	\$101,727	1	\$101,727
		3	\$296,600

Materials	Total Cost	Lifespan in Years
		10 Years - Nodes
Annual Materials Cost	\$1,500,000	Cameras - TBD
	\$1,500,000	

Equipment Rental	Cost	Additional Vehicles Needed	Total Annual Additional Cost
Aerial Lift Truck	\$46,940	1	\$46,940
			\$46,940

Additional Crews Needed

1 additional crew for the installation of Field Technology Maintenance tech: 1 SLE & 1 ALSE

1 SLEA II for design costs.

Additional Smart Nodes installation will be absorbed by maintenance and LED Replacement Program

Additional Info:

\$3,000 Camera average cost

\$140 per Node cost = Approx 180,000 nodes in system to replace

Lifecycle LED Replacement

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Salary Cost	\$617,105	\$630,990	\$645,187	\$659,704	\$674,547	\$689,724	\$705,243	\$721,111	\$737,336	\$753,926	\$6,834,875
Materials	\$6,252,500	\$6,418,817	\$6,589,557	\$6,764,839	\$6,944,784	\$7,129,515	\$7,319,160	\$7,513,850	\$7,713,718	\$7,918,903	\$70,565,644
Equipment Rentals	\$113,627	\$116,649	\$119,752	\$122,938	\$126,208	\$129,565	\$133,011	\$136,550	\$140,182	\$143,911	\$1,282,393
	\$6,983,232	\$7,166,456	\$7,354,497	\$7,547,481	\$7,745,539	\$7,948,805	\$8,157,415	\$8,371,511	\$8,591,236	\$8,816,740	\$78,682,912
Related Costs (Based on CAP Rate on Summary Ta	\$385,012	\$393,675	\$402,532	\$411,589	\$420,850	\$430,319	\$440,001	\$449,901	\$460,024	\$470,375	\$4,264,278

Lifecycle LED Replacement Goals:

Possible 10% replaced per Year
 205,000 LED's Converted was in the budget proposal.
 20,500 Per Year at 10%/year
 394 Per Week

Assumptions

0.0225	Annual Increase in Salaries
0.0266	Annual Increase in Materials/Rentals

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
LED's Replaced	20,500	20,500	20,500	20,500	20,500	20,500	20,500	20,500	20,500	20,500	205,000

Position	Wages & Count	Personnel Required	Regular Salary Cost
ELECTRCL CRAFT HELPER	\$66,135	3	\$198,405
ST LTG ELECTRCN	\$107,623	2	\$215,246
SLEA II	\$101,727	2	\$203,454

7 **\$617,105**

Materials	Total Cost	Lifespan in Years
Luminaire Cost - Leotek \$275 each	\$5,637,500	10 year warranty
Misc Materials & Disposal Costs	\$615,000	Various
Annual Materials Cost	\$6,252,500	

Crews Needed

2 Crews X 1 SLE & 1 ECH per Crew

1 Crew: Flatbed w/ ECH to pick up discarded LED's

2 SLEA II to run program to revise & update prior LED plans at 20,000 units per year

Equipment Rental	Cost	Additional Vehicles Needed	Total Annual Additional Cost
Aerial Lift Truck	\$46,940	2	\$93,880
Stakebed (12 ft)	\$19,747	1	\$19,747
			\$113,627

Pole & Foundation Replacement Program - Replace to Ornamental Poles

Salary Cost	\$3,432,336
Materials	\$7,423,000
Equipment Purchase	\$5,034,000
Equipment Rentals	\$22,000
	\$15,911,336

Related Costs (Based on CAP Rate on Summary)	\$2,141,434
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Total Poles	209,038
Number of Poles 75 Years or Older	11,570
Annual Poles Estimated to Replace Each Year	1,008
Number of Years to Replace Poles Currently 75	15
Total Number of Poles to Replace Over 10 Years	15,113

\$25K per pole - contactor cost

Position	Wages & Count	Personnel Required	Regular Salary Cost
ASST ST LTG ELECTRCN	\$87,250	6	\$523,500
CEMENT FINISHER	\$82,295	2	\$164,590
ELECTRCL CRAFT HELPER	\$66,135	4	\$264,540
MAINT & CONSTR HELPER	\$50,293	5	\$251,465
MANAGEMENT ANALYST	\$84,467	1	\$84,467
MECH HELPER	\$50,293	1	\$50,293
SR STOREKEEPER	\$83,376	1	\$83,376
ST LTG ELECTRCN	\$107,623	6	\$645,738
STOREKEEPER II	\$51,828	0	\$0
STREET LIGHTING ELECTRICIAN SUPERVISOR	\$123,625	2	\$247,250
WAREHOUSE & T/R WKR I	\$57,910	0	\$0
WELDER	\$88,939	5	\$444,695
ACCOUNTING CLERK	\$74,359	1	\$74,359
ADMINISTRATIVE CLERK	\$48,798	0	\$0
SR ADMINISTRATIVE CLERK	\$67,704	1	\$67,704
SR MGMT ANALYST I	\$118,532	0	\$0
ST LIGHTING CONTRUCTION & MAINT SUPT	\$135,398		\$0
SLEA II	\$101,727	4	\$406,908
SLEA III	\$123,451	1	\$123,451
STREET LIGHTING ENGINEER	\$136,640		\$0
		40	\$3,432,336

Crews Needed

2 - Three-person crew for Public Safety-Hazard Elimination Deteriorating Post, Foundation Infrastructure, consisting of 2 SLE, 2 ASLE, 2 Welders. Quantity 210 pole replacements.

1 - Two-person crew for Public Safety-Hazard Elimination Pole Base/Door Response & Fortify, consisting of 1 Welder, 1 MCH. Approx 5,000 post base doors.

1 - Three-person crew for Inspect & Replace, Arms & Lums, Globe Replacement, Damaged Posts, consisting of 1 SLE, 1 ASLE, 1 ECH. Approx 160 post response.

2 - Three-person crew for Upgrading Existing Poles to a Modern or Ornamental design, consisting of 2 SLE, 2 ASLE, 2 ECH, , 1 Welder, 1 MCH. Approx 405 posts.

ADDITIONAL FOR ORNAMENTAL - 1 SLE Supervisor, 1 SLE, 1 ASLE, 1 ECH, 1 Welder, 1 MCH
(for 30% increase in poles)

TOTAL: 775 pole replacements; 5,000 post base/doors welded; 150 post inspection repairs

1 - Admin Staff consisting of 1 MA, 1 Sr Admin Clerk, 1 Accounting Clerk, to handle administrative duties and accounting.

1 - Sr Storekeeper to facilitate warehouse, orders, and distribution.

1 - Real estate - yard needed

1 - Office trailer

1 - Restroom trailer

4 SLEA II & 1 SLEA III for engineering assistance - Same amount needed for each type of replacement

Materials	Total Cost	Lifespan in Years
Annual Materials Cost for Ornamental Lanterns, Globes, and Pendants	\$975,000	80 Years
Foundation Materials	\$403,000	80+ Years
Annual Materials Cost for Ornamental Pole Repl	\$6,045,000	80 Years
	\$7,423,000	

Equipment Purchase	Cost	Additional Vehicles Needed	Total Additional Cost	Lifespan in Years
Derrick (can't be rented)	\$400,000	5	\$2,000,000	6 Years or 72,000 miles (GSD Replacement Cycle - Actual Longer Most Times)
Aerial Lift Truck	\$185,000	5	\$925,000	8 Years or 84,000 miles (GSD Replacement Cycle - Actual Longer Most Times)
Compressor/Dump Truck	\$215,000	4	\$860,000	8 Years or 84,000 miles (GSD Replacement Cycle - Actual Longer Most Times)
Pick-Up Truck	\$42,000	2	\$84,000	6 Years or 72,000 miles (GSD Replacement Cycle - Actual Longer Most Times)
Cement Truck	\$240,000	1	\$240,000	12-14 years
Weld Truck	\$185,000	5	\$925,000	6 Years or 72,000 miles (GSD Replacement Cycle - Actual Longer Most Times)
		22	\$5,034,000	

Equipment Rental	Cost	Additional Vehicles Needed	Total Annual Additional Cost
Office trailer	\$10,000	1	\$10,000
Restroom Trailer Rental	\$12,000	1	\$12,000
		2	\$22,000

ITD Additional Costs

	Year 1
Salary Cost	\$549,670
Equipment Purchases, Licenses	\$617,000
	\$1,166,670

Related Costs (Based on CAP Rate on Summary Tab)	\$342,939
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Position	Wages & Count	Personnel Required	Regular Salary Cost
Sr. Systems Analyst II		1	\$0
Sr. Systems Analyst I - Cloud	\$111,641	1	\$111,641
Sr. Systems Analyst I - Database Admin	\$111,641	1	\$111,641
Programmer Analyst III	\$93,448	1	\$93,448
Systems Programmer II	\$126,031	1	\$126,031
GIS Supervisor I	\$106,910	1	\$106,910
		6	\$549,670

	Total Cost	Lifespan in Years (1 = Annual Subscription/Renewal)
Equipment Purchases, Licenses		
Annual AWS Cloud Environment Computing Estimate	\$97,500	1
Annual Acquia Website Cloud Hosting Service Estimate	\$33,000	1
Annual AWS Direct Connect Network Connection	\$26,000	1
Annual Microsoft Paid Premium Support Provided by Insight (80 Hrs Per Year)	\$56,000	1
Annual Cohesity Cloud Backup Service	\$10,000	3
Computer System Replacements (275 Systems @ \$1,000)	\$357,500	5
New Field Laptops (20 x \$1,500)	\$30,000	5
Large-Format Multifunction Printer (KIP 3100 Replacement)	\$7,000	10
Materials, Equipment Purchases, Licenses Cost*	\$617,000	

ASD Additional Costs

	Year 1
Salary Cost	\$446,292
Equipment Purchases, Licenses	\$0
	\$446,292

Related Costs (Based on CAP Rate on Summary Tab)	\$278,442
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Position	Wages & Count	Personnel Required	Regular Salary Cost
Sr. Management Analyst I	\$118,532	1	\$118,532
Management Analyst	\$84,467	3	\$253,401
Accounting Clerk	\$74,359	1	\$74,359
Chief Management Analyst	\$152,639		\$0
Management Assistant	\$58,120		\$0
Sr Admin Clerk	\$67,704		\$0
		5	\$446,292

	Total Cost	Lifespan in Years
Equipment Purchases, Licenses		
Annual Materials, Equipment Purchases, Licenses Cost*	\$0	

Call Center

Year 1

Salary Cost	\$330,600
Equipment Purchases, Licenses	\$12,430
	\$343,030

Related Costs (Based on CAP Rate on Summary Tab)	\$206,261
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Position	Wages & Count	Personnel Required	Regular Salary Cost
Sr Admin Clerk	\$67,704	2	\$135,408
Admin Clerk	\$48,798	4	\$195,192
		6	\$330,600

Equipment Purchases, Licenses	Total Cost	Lifespan in Years
Computers	\$9,000	6 Years
Phones	\$480	6 Years
Phone Basic Service	\$900	1 Year
Licensing Costs	\$1,350	1 Year
Printer	\$700	4 Years
Annual Materials, Equipment Purchases, Licenses	\$12,430	

Locate & Mark Annual Program Additions

Salary Cost	\$1,042,548
Overtime	\$0
Hiring Hall Salaries	\$0
Hiring Hall Benefits	\$0
Materials	\$0
Equipment Purchase	\$0
Equipment Rentals	\$142,516
	\$1,185,064

Related Costs (Based on CAP Rate on Summary Tab)	\$650,446
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Locate & Mark Goals

To clear all locate & mark tickets annually.

Additional

Crews Needed

2 Crews of 3 SLE & 3 ECH - 1 Crew for Central & 1 for Valley

2 HH ECH's normally approved annually

Position	Wages & Count	Count from FY 22-23 Adopted	Additional Personnel Required	Total Personnel Required	Regular Salary Cost
ELECTRCL CRAFT HELPER	\$66,135	0	6	6	\$396,810
ST LTG ELECTRCN	\$107,623	0	6	6	\$645,738
		0	12	12	\$1,042,548

	From FY 22-23 CLA Proposed	Additional Required	Total Positions	Hourly Rate	No. of Hours	Total Cost
Hiring Hall Salaries						
St Ltg Electrician		0	0	48.19	1992	\$0
Electrical Craft Helper	2	0	2	36.14	1992	\$0

	From FY 22-23 CLA Proposed	Additional Required	Total Positions	Hourly Benefit Rate	No. of Hours	Total Cost
Hiring Hall Benefits						
St Ltg Electrician	0	0	0	31.66	1992	\$0
Electrical Craft Helper	2	0	2	31.34	1992	\$0

	Cost	Vehicles in 22-23 Budget	Additional Vehicles Needed	Total Vehicles Required	Total Annual Additional Cost
Equipment Rental					
Pick up Truck (Medium Duty)	\$12,956	3	11	14	\$142,516
			11	14	\$142,516

Misc Costs	Annual Cost
Audit Every 3 Years - Annual Cost'	\$10,000
Strategic Planning	\$100,000
Rent to Street Services for Yard Space	\$120,000
Total	\$230,000

New Yard Cost

Example from Matrix Report	
	Cost
Land Aquisition - 2 acre yard	\$3,300,000.00
Demolition	\$1,300,000.00
Construction	\$23,500,000.00
Total	\$28,100,000.00

New Yard Cost

Description	Cost
Land Aquisition	\$3,300,000.00
Demolition	\$1,300,000.00
Construction	\$23,500,000.00
	\$0.00
	\$28,100,000.00
# of Years for Capitalization	20
Annual Cost	\$1,405,000.00
Monthly Cost - 2.45% (Amount used on Matrix R	\$148,219.00
Annual Cost	\$1,778,628.00

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00
Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00	\$1,778,628.00