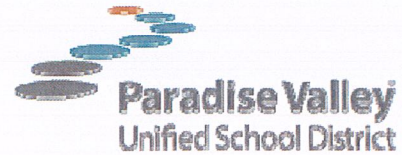


Gateway Park LED Retrofit Project - Tohono O'odham Grant		
Vendor	Scope of Work	Cost
PLG, LLC	LED Retrofit	33,764.23
PLG, LLC	Wireless Controls Upgrade	19,718.93
PLG, LLC	Contingency	6,516.84
	Total	60,000.00

G/L # 147-5-1591-658

Activity # 202203



April 22, 2022

PLG, LLC
10231 E Apache Trail
Mesa, AZ 85120
adam@plgled.com

Attn: Adam Bullock

1GPA is pleased to announce that your company has been awarded a contract for the following products and/or services based on the bid submitted to 1GPA for IFB# 22-11PV:

Commodity/Contract Title: Electrical and Lighting Products, EV Charging Stations and Services
Contractor/Vendor: PLG, LLC
Contract Number: 22-11PV-05

The contract is effective May 18, 2022, through May 18, 2023. The contract may be renewed annually for up to an additional four years, if mutually agreed to by 1GPA and your firm.

PLG, LLC has been awarded a National Contract with 1GPA and may be utilized anywhere in the United States, however, this is a multiple award and the Lead Agency may or may not utilize your firm's products/services.

The 1GPA partnership can be of great help to participating agencies. Please feel free to provide copies of this letter to your sales representative to assist in their work. Please review the Vendor Welcome Guide that is included in the Award Notification Email.

If you have any questions or concerns, please feel free to contact Christy Knorr at the 1GPA office via email at cknorr@1GPA.org. We look forward to working with you and your team!

Sincerely,

Christy Knorr, Vice President
1Government Procurement Alliance



10231 E. Apache Trail
Mesa, AZ 85120
P: 480.218.6104
F: 480.654.8374
www.PLGLED.com

August 5th, 2022

Page 1 of 5

City of El Mirage
10355 N. 121st Avenue
El Mirage, AZ 85335

Attn: Cason Chambers
Operations Superintendent
(623)876-4237
cchambers@elmirageaz.gov

Re: Proposal
Gateway Park
10100 N. El Mirage Road
El Mirage, AZ 85335

Mr. Chambers,

PLG, LLC (PLG) is pleased to present the following Proposal for the Project:

LED Retrofit Project
Gateway Park

Overview: PLG, LLC performed a site audit of the existing lighting equipment on 8/3/22. During this audit PLG took inventory and fixture specifications which have been analyzed to find the most cost-effective solutions to meet the requirements expressed by the City for LED conversion project. Photometric drawings illustrating the scope of work and projected light levels are attached to this proposal.

- I. **Scope of Work:** PLG proposes to furnish labor, equipment, supervision, and other items of value to complete the following:
 1. Supply and Install PLG LED Retrofit Luminaires on perimeter Pathway area fixtures on the high mast poles surrounding the baseball fields
 2. Supply and Install PLG LED Retrofit Luminaires on area fixtures on south portion of park
 3. Supply and Install PLG LED Retrofit Luminaires on the area fixtures in the south parking area
 4. Supply and Install PLG LED Retrofit Luminaires on the fixtures within the skate park
 5. Supply and Install PLG LED retrofit Luminaires on the fixtures within the basketball courts

- Ia. **Wireless Controls Project:** PLG proposes to furnish labor, equipment, supervision, and other items of value to complete the following:
 1. Supply and Install Synapse Wireless Nodes to LED fixtures to provide wireless control capabilities to the park.
 2. Supply and Install Synapse Wireless Gate as control center for wireless lighting control system.
 3. Provide onsite commissioning of wireless lighting controls.

Continued on next page





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 Mesa, AZ 85120
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August 5th, 2022

Page 2 of 5

Re: **Proposal**
 Gateway Park

II. **Price:** The price to complete the items of work from the Scope of Work section above was prepared using the terms and conditions of the 1GPA Cooperative Purchase Contract No. 22-11PV-05.

LED Retrofit Project

No.	Description	Qty.	Unit	Price	Extended
6.1 Additional Manufacturers					
2	PLG, LLC Retrofit Luminaire – 60 Watt – 120-277 Volt PLG Part Number: PLG-SBX-02-Vn-50-60	15	EA	\$ 218.22	\$ 3,273.30
2	PLG, LLC Retrofit Luminaire – 60 Watt – 120-277 Volt PLG Part Number: PLG-SBX-II-Vn-50-60	6	EA	\$ 218.22	\$ 1,309.32
2	PLG, LLC Retrofit Luminaire – 60 Watt – 120-277 Volt PLG Part Number: PLG-SBX-IV-Vn-50-60	18	EA	\$ 218.22	\$ 3,927.96
-	PLG, LLC Sport Light Retrofit Luminaire – 400 Watt – 120-277 volt PLG Part Number: PLG-SBC-08-IV-50-400	17	EA	\$ 900.00	\$ 15,300.00
Material Subtotal					\$ 23,810.58
No.	Description	Qty.	Unit	Price	Extended
Service Rates - Low Voltage Services					
3.1	Journeyman Electrician	51	HR	\$ 75.00	\$ 3,825.00
3.5	Project Manager	10	HR	\$ 90.00	\$ 900.00
Installation Subtotal					\$ 4,725.00
No.	Description	Qty.	Unit	Price	Extended
Service Charges for Special Equipment					
-	34' Electric Boom Lift	2	WK	\$ 1,864.29	\$ 3,728.58
Special Equipment Subtotal					\$ 3,728.58
Project Subtotal					\$ 32,264.16
Sales Tax – 6.3% – Materials Only (MRRA)					\$ 1,500.07
Total					\$ 33,764.23
APS Rebate					(\$ 2,215.00)

Continued on next page





August 5th, 2022

Re: Proposal
Gateway Park

III. Energy and Maintenance Savings:

Energy Savings

LED lights consume less electricity to produce the same illumination as traditional sources. To accurately project what the actual realized energy savings of a LED light source is, there are several industry tools to calculate this. These tools are sponsored by trusted agencies, like the US Department of Energy, SRP, and APS, and are independently tested and certified for their energy performance. All numbers in this proposal use these tools to ensure the most accurate projection of estimated energy savings based on current operating hours of fully functional lighting system.

Existing System

Actual Power Consumption (<i>W</i>)		23,869 Watts
Actual Power Consumption (<i>kW</i>)	÷ 1000	23.869 kW
Annual Operating Hours (2 Schedules)	X	2,080/4,380 hrs per year
Annual Energy Consumption		62,318.22 kWh/year
Energy Cost (National Average)	X	\$ 0.10 per kWh
Annual Estimated Energy Cost of Existing System		\$ 6,231.82

Proposed LED Replacement

Actual Power Consumption (<i>W</i>)		9,250 Watts
Actual Power Consumption (<i>kW</i>)	÷ 1000	9.250 kW
Annual Operating Hours (2 Schedules)	X	2,080/4,380 hrs per year
Annual Energy Consumption		24,866.24 kWh/year
Energy Cost (National Average)	X	\$ 0.10 per kWh
Annual Estimated Energy Cost of Proposed System		\$ 2,486.62

Energy Savings

Annual Estimated Energy Cost of Existing System		\$ 6,231.82
Annual Estimated Energy Cost of Proposed System	—	\$ 2,486.62
Annual Estimated Energy Savings		\$ 3,745.20

Maintenance Savings

LED light sources have a much longer useful life compared to traditional fixtures. Fluorescent fixtures require regular changing of the light bulb, as well as periodical replacement of the ballast and other associated electrical components that make the light work. LEDs on the other hand have no light bulbs to change, and usually have only one electrical component, the driver. This results in savings in the cost to maintain the lighting system. The DOE has conducted vast surveys and audits to provide cost associated with maintaining traditional light sources.

Continued on next page





August 5th, 2022

Page 4 of 5

Re: **Proposal**
 Gateway Park

Estimated Annual Maintenance Cost of Existing System	\$	3,424.82
Estimated Annual Maintenance Cost of Proposed System	— \$	0.00
Annual Estimated Maintenance Savings	\$	3,424.82

APS Rebate: APS has a rebate program for their fiscal year 2023 which will pay incentives for prescriptive LED lighting measure when using qualified LED materials. The estimated rebate for this project is: **\$2,215.00**. This rebate can be paid directly to the city upon completion of the project.

Wireless Controls Project

No.	Description	Qty.	Unit	Price	Extended
6.1 Additional Manufacturers					
37	Synapse Wireless Node Part Number: DIM10-087-06-A	56	EA	\$ 136.11	\$ 7,622.16
41	PLG Enclosure with Synapse Wireless Gateway Part Number: PLG-SS460-002--1	1	EA	\$ 2,500.00	\$ 2,500.00
43	Synapse Remote Access and 5 Year Subscription Part Number: SSRA-5YR	1	EA	\$ 4,167.00	\$ 4,167.00
45	Onsite Device Commissioning Service Part Number: SER-ONSITEDEV	57	EA	\$ 50.00	\$ 2,850.00
Material Subtotal					\$ 17,139.16
No.	Description	Qty.	Unit	Price	Extended
Service Rates - Low Voltage Services					
3.1	Journeyman Electrician	8	HR	\$ 75.00	\$ 600.00
3.5	Project Manager	10	HR	\$ 90.00	\$ 900.00
Installation Subtotal					\$ 1,500.00
Project Subtotal					\$ 18,639.16
Sales Tax – 6.3% – Materials Only (MRRA)					\$ 1,079.77
Total					\$ 19,718.93

IV. Notes and Qualifications:

1. Quantities and types are estimated.
2. Final invoice will be based on actual work completed

Continued on next page





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August 5th, 2022

Page 5 of 5

Re: Proposal
Gateway Park

Excluded:

- a. Permits / permit fees.
- b. Repairs to existing electrical problems beyond the existing fixtures

Thank you for your consideration, and feel free to contact me directly with any questions at (480)540-9329.

Jeff Rusk
Project Manager



Providing LED Lighting Solutions

Cell: 480-540-9329

Web: www.plgled.com



Fixture Layout



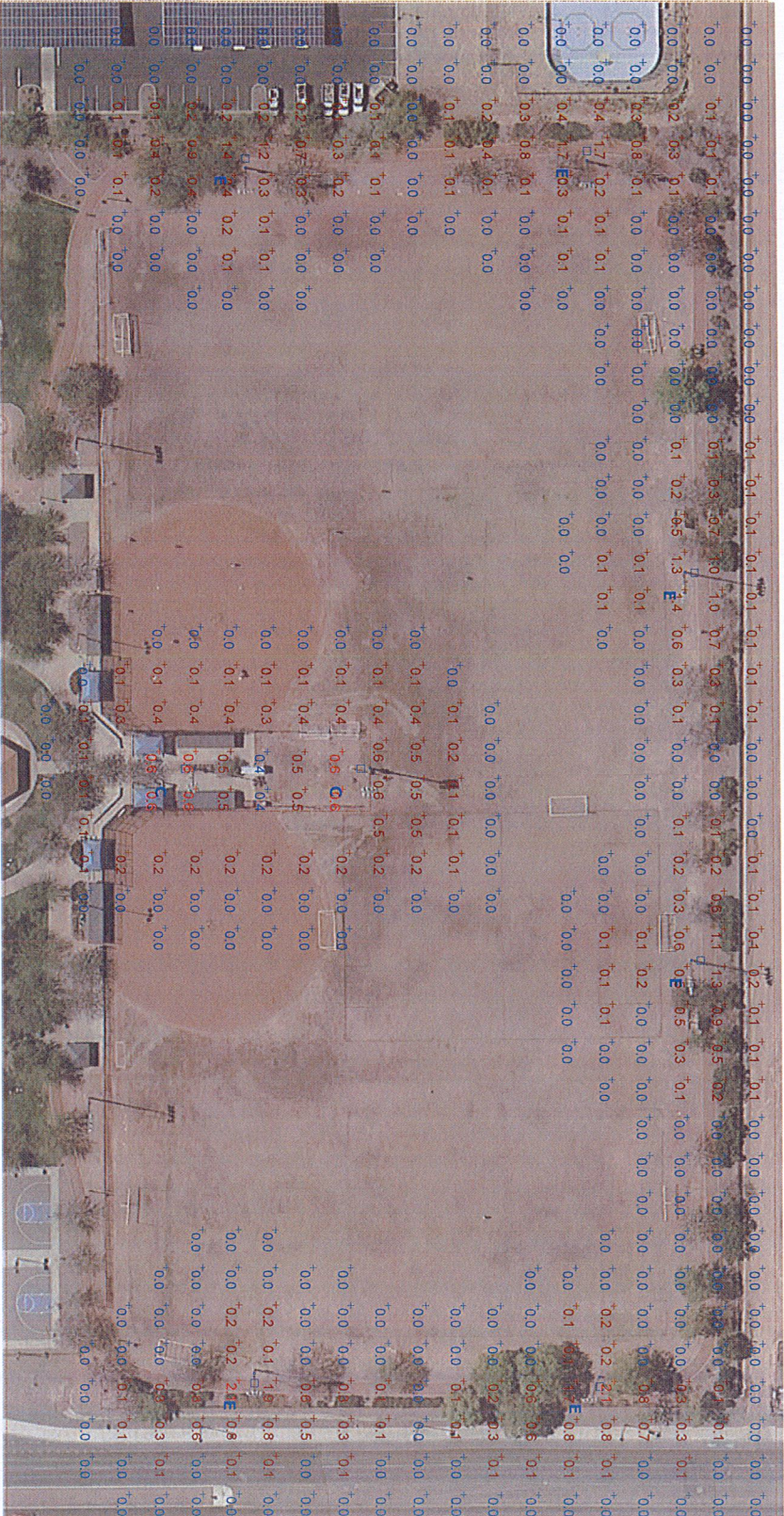
Plan View
Scale - 1" = 75ft



Gateway Park-Ballpark Area Lights
10100 N El Mirage Rd
El Mirage, AZ 85335

Designer
Richard Reynolds
Date
08/03/2022
Scale
1" = 75ft
Drawing No.
Summary

Calculation Points



Plan View
Scale - 1" = 75ft



Gateway Park-Ballpark Area Lights
10100 N El Mirage Rd
El Mirage, AZ 85335

Designer
Richard Reynolds
Date
08/03/2022
Scale
1"=75ft
Drawing No.
Summary

Contour Lines



Plan View
Scale - 1" = 75ft



Gateway Park-Ballpark Area Lights
10100 N El Mirage Rd
El Mirage, AZ 85335

Designer
Richard Reynolds
Date
08/03/2022
Scale
1"=75ft
Drawing No.
Summary



Fixture Schedule and Statistics

Schedule

Symbol	Label	Quantity	Mounting Height	Existing Fixture	Catalog Number	Manufacturer	Wattage	Color	Temperature	Light Loss Factor
<input type="checkbox"/>	C	2	29 ft	Shoebox on sports light pole, 100W, 277V HPS	PLG-SBX-02-Vn-50-60	PLG LLC	55		5000K	.9
<input type="checkbox"/>	E	6	29 ft	Shoebox on sports light pole, 100W, 277V HPS	PLG-SBX-02-II-50-60	PLG LLC	55		5000K	.9

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Area Lights-Inside Ballpark	+	0.5 fc	0.6 fc	0.4 fc	1.5:1	1.3:1
Area Lights-Perimeter Pathway	+	0.1 fc	2.1 fc	0.0 fc	N/A	N/A

Gateway Park-Ballpark Area Lights
10100 N El Mirage Rd
El Mirage, AZ 85335

Designer:
Richard Reynolds
 Date:
08/03/2022
 Scale:
1" = 7.5ft
 Drawing No.
 Summary

Fixture Layout



Plan View
Scale - 1" = 25ft

Gateway Park-Basketball Courts and Skate Park
10100 N El Mirage Rd
El Mirage, AZ 85335



Designer
Richard Reynolds
Date
08/04/2022
Scale
1" = 25ft
Drawing No.
Summary

Calculation Points



Plan View
Scale - 1" = 25ft

Gateway Park-Basketball Courts and Skate Park
10100 N El Mirage Rd
El Mirage, AZ 85335



Designer
Richard Reynolds
Date
08/04/2022
Scale
1" = 25ft
Drawing No.
Summary

Contour Lines



Plan View
Scale - 1" = 25ft



Gateway Park-Basketball Courts and Skate Park
10100 N El Mirage Rd
El Mirage, AZ 85335

Designer
Richard Reynolds
Date
08/04/2022
Scale
1" = 25ft
Drawing No.
Summary