



BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND

# REQUEST FOR PROPOSALS FOR GOODS

**Item Description: Benefit Street Decorative LED Lamp Post Top Luminaire Fixtures**

**Date to be opened: August 2, 2021.**

**Issuing Department: Public Property**

## QUESTIONS

- Please direct questions **relative to the bidding process, how to fill out forms, and how to submit a bid** to Purchasing Agent Patti Jordan.
  - Phone: (401) 680-5264
  - Email: [pjordan@providenceri.gov](mailto:pjordan@providenceri.gov)Please include the Item Description shown above in the subject line of your email.
- Please direct questions **relative to the specifications** outlined to the issuing department's subject matter expert:
  - **Mr. Demo Roberts**
  - **401 680 5300**
  - **Droberts@providenceri.gov**

## INSTRUCTIONS FOR SUBMISSION

Bids may be submitted up to **2:15 P.M.** on the above meeting date at the **Department of the City Clerk, Room 311, City Hall, 25 Dorrance Street, Providence.** At 2:15 P.M. all bids will be publicly opened and read at the Board of Contract Meeting in the City Council Chambers, on the 3<sup>rd</sup> floor of City Hall.

- Bidders must submit **3 copies** of their bid in sealed envelopes or packages labeled with the captioned **Item Description** and the **City Department to which the RFP and bid are related and must include the company name and address on the envelope as well.** clearly marked on the first page.
- Communications to the Board of Contract and Supply that are not competitive sealed bids (i.e. product information/samples) should have "**NOT A BID**" written on the envelope or wrapper.
- Only use form versions and templates included in this RFP. If you have an old version of a form do not recycle it for use in this bid.
- The bid envelope and information relative to the bid must be addressed to:

**Board of Contract and Supply  
Department of the City Clerk – City Hall, Room 311  
25 Dorrance Street  
Providence, RI 02903**

**All bids submitted to the City Clerk become public record.** Failure to follow instructions could result in information considered private being posted to the City's Open Meetings Portal and made available as a public record. The City has made a conscious effort to avoid the posting of sensitive information on the City's Open Meetings Portal, by requesting that such sensitive information be submitted to the issuing department only at their request.



**BOARD OF CONTRACT AND SUPPLY**  
CITY OF PROVIDENCE, RHODE ISLAND

**NOTICE TO VENDORS**

1. The Board of Contract and Supply will make the award based on the following rubric. Proposal shall be reviewed and evaluated based on their relative responsiveness to the criteria.
  - a. Cost of LED Lamp Post Top Luminaire Fixtures – 20 points
  - b. Ability to meet technical specification outlined in this RFP – 20 points
  - c. Performance output and photometric results based on existing spacing as evidence by studies, testing, or equivalent projects that demonstrate quality output and performance while maintaining efficient energy consumption – 20 points
  - d. Aesthetics of the proposed LED Lamp Post Top Luminaire Fixtures – 20 points
  - e. Quality of the product warranty program – 10 points
  - f. Lead-time of LED Lamp Post Top Luminaire Fixtures – 10 points
2. Cash discounts based on preferable payment terms will not be considered.
3. No proposal will be accepted if the bid is made in collusion with any other bidder.
4. Bids may be submitted on an “equal in quality” basis. The City reserves the right to decide equality. Bidders must indicate brand or the make being offered and submit detailed specifications if other than brand requested.
5. A bidder who is an out-of-state corporation shall qualify or register to transact business in this State, in accordance with the Rhode Island Business Corporation Act, RIGL Sec. 7-1.2-1401, et seq.
6. The Board of Contract and Supply reserves the right to reject any and all bids.
7. Competing bids may be viewed in person at the Department of the City Clerk, City Hall, Providence, immediately upon the conclusion of the formal Board of Contract and Supply meeting during which the bids were unsealed/opened. Bids may also be accessed electronically on the internet via the City’s [Open Meetings Portal](#).
8. **As the City of Providence is exempt from the payment of Federal Excise Taxes and Rhode Island Sales Tax, prices quoted are not to include these taxes. A Tax Exempt Certificate will be provided upon request.**
9. The proposal shall identify the specific luminaire model(s) specifications to satisfy the City.
10. The proposal shall set forth the unit price (including shipping) to supply the City with delivery to location indicated.
11. The vendor shall provide additional technical specification beyond those addressed in the minimum specification as deemed important by the vendor.
12. The proposal shall specifically identify the lead time associated with the order as indicated on the Bid Form.
13. The proposal shall provide manufacturer warranty information (and manuals) related to the complete LED lamp post top luminaire fixture.
14. The vendor shall provide a list of clients (other Cities/Counties if possible), including names, addresses, and a contact person/number, for which your company has provided a similar product in the last three years.
15. The Vendor shall provide background information on your company.
16. In case of error in the extension of prices quoted, the unit price will govern.
17. Delivery dates must be shown in the bid. If no delivery date is specified, it will be assumed that an immediate delivery from stock will be made.
18. No goods should be delivered or work started without a Purchase Order.



**BOARD OF CONTRACT AND SUPPLY**  
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19. **Submit 3 copies of the bid to the City Clerk, unless the specification section of this document indicates otherwise.**
20. Payment Terms *are a minimum of Net 30.*
21. Successful bidder must submit a completed W-9 form and Certificate of Insurance/Product Warranty.
22. Awards will be made within **sixty (60) days of bid opening**. All bid prices will be considered firm, unless qualified otherwise. Requests for price increases will not be honored.
23. Failure to deliver within the time quoted or failure to meet specifications may result in default in accordance with the general specifications. It is agreed that deliveries and/or completion are subject to strikes, lockouts, accidents and Acts of God.

**\*\*\*Failure to meet specified deadlines, follow specific submission instructions, or enclose all required documents with all applicable signatures will result in disqualification, or in an inability to appropriately evaluate bids.\*\*\***

24. The City of Providence, RI proposal is for materials only, which will be a decorative LED luminaire to replace the existing installation. The installation of the luminaires will be done at a later date.
25. The City intends to acquire up to approximately 160 units depending on costs and allocated funding.
26. The City reserves the right to lower the required quantity or phase the project based on available funding.
27. During the evaluation process, the City reserves the right where it may serve in the City's best interest to request additional information or clarifications for the proposers, vendor submitting proposals may be required to participate in an interview with the Owner's representatives.
28. Deliver decorative light standards are to be done carefully to prevent any breakage, bending, or scoring of the finish. Delivery Location: 552 Academy Ave., Providence, RI 02908
29. All prospective bidders must include the following information in their bid proposal:
  - a. Submittal Drawing with Catalog Numbers
  - b. Driver Data Sheets
  - c. LED Data Sheets
  - d. Surge Suppressor Data Sheet
  - e. TM-21 Calculations
  - f. Complete Photometric Calculation for Benefit Street.
  - g. LM-79 Photometric Report
  - h. 10-Year Warranty (LED Warranty)
  - i. 5-Year Warranty (Gloss Retention)
  - j. Domestic Certifications
30. Please be advised all submittals are subject to approval by the City. Missing submittals may result in disqualification of bid.
31. Bidder must have no less than 7 years experience manufacturing and selling streetlights and LED Luminaires.
32. The City reserves the right to tour the manufacturing facility.
33. A complete and fully functional mock-up fixture shall be provided to the City by the awarded vendor for the City's approval prior to release of order.



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

**BID FORM 1: Bidders Blank**

1. Bids must meet the attached specifications. Any exceptions or modifications must be noted and fully explained.
2. Bidder's responses must be in ink or typewritten, and all blanks on the bid form should be completed.
3. The price or prices proposed should be stated both in **WRITING** and in **FIGURES**, and any proposal not so stated may be rejected. **Contracts exceeding twelve months must specify annual costs for each year.**
4. Bids **SHOULD BE TOTALED** so that the final cost is clearly stated (unless submitting a unit price bid), however **each item should be priced individually**. Do not group items. Awards may be made on the basis of *total* bid or by *individual items*.
5. All bids **MUST BE SIGNED IN INK.**

**Name of Bidder (Firm or Individual):** \_\_\_\_\_

Contact Name: \_\_\_\_\_

Business Address: \_\_\_\_\_

Business Phone #: \_\_\_\_\_

Contact Email Address: \_\_\_\_\_

Agrees to bid on (Items(s) to be bid): Decorative LED Lamp Post Top Luminaires

Delivery Date of 100 units: \_\_\_\_\_

Delivery Date of additional units (20, 40, or 60) \_\_\_\_\_

Name of Surety Company (if applicable): \_\_\_\_\_

**Base Bid at 100 (One Hundred) units fabricated and delivered (One Hundred units)**

Total Amount in Writing\*: \_\_\_\_\_

Total Amount in Figures\*: \_\_\_\_\_

**Unit Cost for 20 (Twenty) units fabricated and delivered Additional Fixtures**

Total Amount in Writing\*: \_\_\_\_\_

Total Amount in Figures\*: \_\_\_\_\_

*Use additional pages if necessary for additional bidding details.*

\_\_\_\_\_  
Signature of Representation

\_\_\_\_\_  
Title



**BOARD OF CONTRACT AND SUPPLY**  
CITY OF PROVIDENCE, RHODE ISLAND

**BID FORM 2: Certification of Bidder**

(Non-Discrimination/Hiring)

Upon behalf of \_\_\_\_\_ (Firm or Individual Bidding),

I, \_\_\_\_\_ (Name of Person Making Certification),

being its \_\_\_\_\_ (Title or "Self"), hereby certify that:

1. Bidder does not unlawfully discriminate on the basis of race, color, national origin, gender, sexual orientation and/or religion in its business and hiring practices.
2. All of Bidder's employees have been hired in compliance with all applicable federal, state and local laws, rules and regulations.

I affirm by signing below that I am duly authorized on behalf of Bidder, on

this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

\_\_\_\_\_  
Signature of Representation

\_\_\_\_\_  
Printed Name



**BOARD OF CONTRACT AND SUPPLY**  
CITY OF PROVIDENCE, RHODE ISLAND

**BID FORM 3: Certificate Regarding Public Records**

Upon behalf of \_\_\_\_\_ (Firm or Individual Bidding),

I, \_\_\_\_\_ (Name of Person Making Certification),

being its \_\_\_\_\_ (Title or "Self"), hereby certify an

understanding that:

1. All bids submitted in response to Requests for Proposals (RFP's) and Requests for Qualification (RFQ's), documents contained within, and the details outlined on those documents become public record upon receipt by the City Clerk's office and opening at the corresponding Board of Contract and Supply (BOCS) meeting.
2. The Purchasing Department and the issuing department for this RFP/RFQ have made a conscious effort to request that sensitive/personal information be submitted directly to the issuing department and only at request if verification of specific details is critical the evaluation of a vendor's bid.
3. The requested supplemental information may be crucial to evaluating bids. Failure to provide such details may result in disqualification, or an inability to appropriately evaluate bids.
4. If sensitive information that has not been requested is enclosed or if a bidder opts to enclose the defined supplemental information prior to the issuing department's request in the bidding packet submitted to the City Clerk, the City of Providence has no obligation to redact those details and bears no liability associated with the information becoming public record.
5. The City of Providence observes a public and transparent bidding process. Information required in the bidding packet may not be submitted directly to the issuing department at the discretion of the bidder in order to protect other information, such as pricing terms, from becoming public. Bidders who make such an attempt will be disqualified.

I affirm by signing below that I am duly authorized on behalf of Bidder, on

this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

\_\_\_\_\_  
Signature of Representation

\_\_\_\_\_  
Printed Name



**BOARD OF CONTRACT AND SUPPLY**  
CITY OF PROVIDENCE, RHODE ISLAND

**BID FORM 4: MBE/WBE Affidavit**

Item Title (as seen on RFP): **Benefit Street Decorative LED Lamp Post Top Luminaire Fixtures**

\_\_\_\_\_  
\_\_\_\_\_  
Name of Bidder (Firm or Individual): \_\_\_\_\_

Which one of the following describes your business' status in terms of Minority and/or Woman-Owned Business Enterprise certification with the State of Rhode Island?

\_\_\_\_\_ MBE    \_\_\_\_\_ WBE    \_\_\_\_\_ Neither MBE nor WBE

It is the policy of the City of Providence that minority business enterprises (MBEs) and women business enterprises (WBEs) should have the maximum opportunity to participate in procurements and projects as prime contractors and vendors. Pursuant to Sec. 21-52 of the Providence Code of Ordinances and Chapter 31-14 *et seq.* of the Rhode Island General Laws (as amended), MBE and WBE participation goals apply to contracts.

I affirm by signing below that I am duly authorized on behalf of Bidder, on

this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

\_\_\_\_\_  
Signature of Representation

\_\_\_\_\_  
Printed Name



Procurement #: 32197

BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND

**BID PACKAGE DRAWINGS & SPECIFICATIONS**



CITY OF PROVIDENCE

BENEFIT ST.

DECORATIVE LED LAMP POST TOP  
LUMINAIRE FIXTURES

PROVIDENCE, RI 02906

GENERAL

G-100 COVER SHEET

ELECTRICAL

- E-100NEW DECORATIVE POST TOP  
LIGHT FIXTURE BASIS OF DESIGN
- E-101NEW DECORATIVE POST TOP  
LIGHT FIXTURE BASIS OF DESIGN

This drawing is the property of StudioJAED and is prepared for the exclusive use of its clients at the location indicated. No other use is authorized or intended.

STUDIOJAED

ARCHITECTS ■ ENGINEERS ■ FACILITIES SOLUTIONS

Website: www.StudioJAED.com Email: Info@StudioJAED.com



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2500 WRANGLE HILL ROAD, STE. 110  
BEAR, DELAWARE 19701  
P: (302) 832-1652

PROVIDENCE OFFICE  
42 WEYBOSSET STREET, STE. 403  
PROVIDENCE, RHODE ISLAND 02903  
P: (401) 648-0884

MARYLAND OFFICE  
213 FRONT STREET, P.O. BOX 254  
CRUMPTON, MARYLAND 216285

REVISIONS

MARK	DESCRIPTION	DATE
-	-	-

PROJECT

CITY OF PROVIDENCE  
BENEFIT ST.  
DECORATIVE LED LAMP POST  
TOP LUMINAIRE FIXTURES  
PROVIDENCE, RI 02906

SHEET TITLE

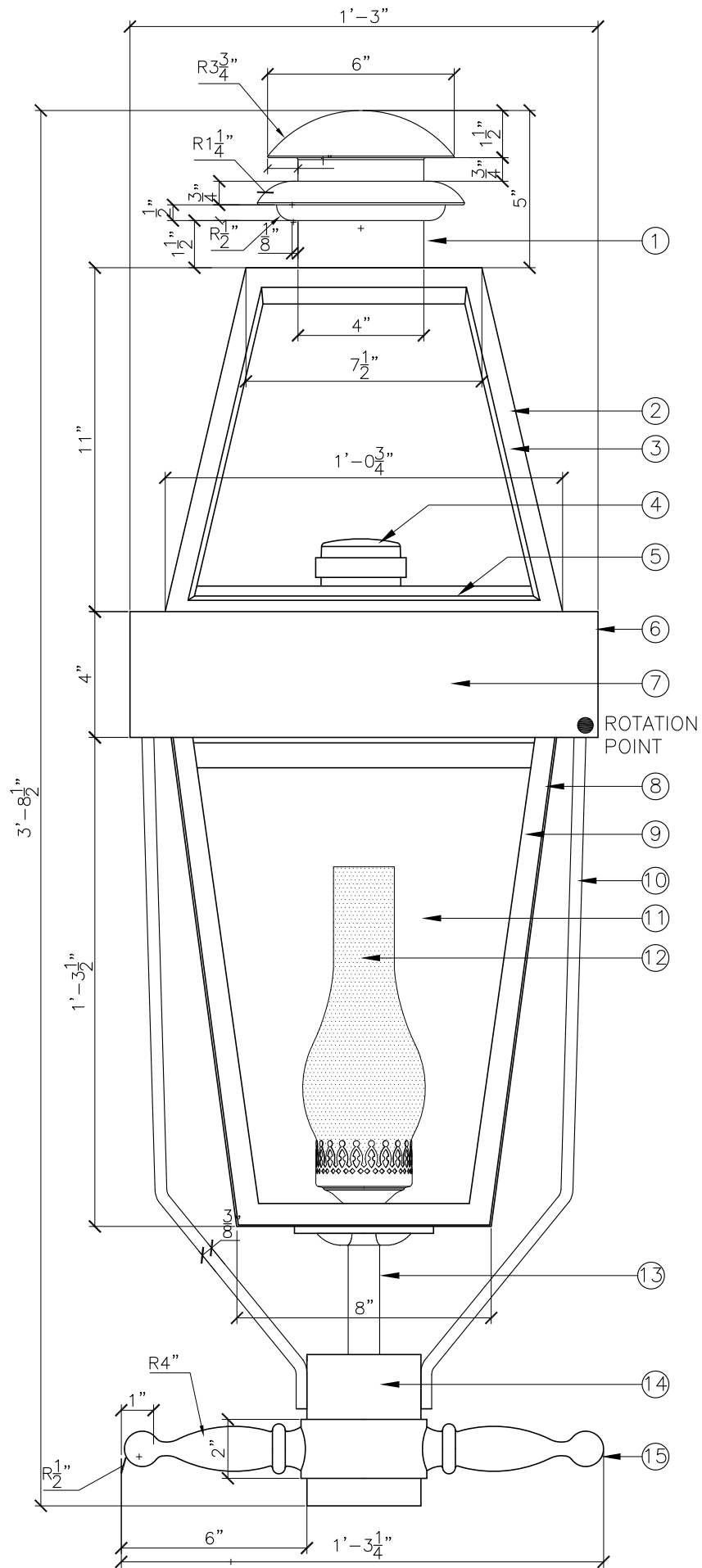
COVER SHEET

JANUARY 19, 2021

DRAWN	CHK'D	PROJECT NO.
BS	PC	20071

SHEET NO.

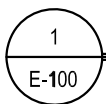
G-100



NEW FIXTURE LEGEND

- 1) FINIAL, CAST ALUMINUM, FASTEN TO UPPER CASE
- 2) UPPER OPEN CASE, CAST ALUMINUM
- 3) GLOBE, CLEAR ACRYLIC, WEATHERTIGHT
- 4) DIMMABLE 7-PIN TWISTLOCK RECEPTACLE SUPPLIED WITH SHORTING CAP. INCLUDE PHOTOCELL
- 5) UP-LIGHT OPENINGS WITH DIFFUSED PANELS
- 6) HEAT DISSIPATING ROOF, CAST ALUMINUM TO BE HINGED FOR ACCESS TO DRIVER
- 7) PRIMARY LED LIGHT SOURCE & DRIVE LOCATION
- 8) LOWER OPEN CASE, CAST ALUMINUM
- 9) GLOBE, CLEAR ACRYLIC WEATHERTIGHT
- 10) STRUTS, CAST ALUMINUM, FASTEN TO LOWER OPEN CASE AND FITTER
- 11) CHIMNEY, PARTIALLY FROSTED WITH DECORATIVE BLACK HOLDER
- 12) SECONDARY LED LIGHT SOURCE
- 13) CAST ALUMINUM STEM AND MOUNTING PLATE
- 14) FITTER, CAST ALUMINUM
- 15) LADDER REST, CAST ALUMINUM

DIMENSIONS ARE FOR REFERENCE ONLY



BENEFIT ST. LAMP TOP LUMINAIRE

SCALE: NONE

This drawing is the property of StudioJAED and is prepared for the exclusive use of its clients at the location indicated. No other use is authorized or intended.



REVISIONS

MARK	DESCRIPTION	DATE
-	-	-

PROJECT CITY OF PROVIDENCE  
BENEFIT ST.  
DECORATIVE LED LAMP POST  
TOP LUMINAIRE FIXTURES  
PROVIDENCE, RI

SHEET TITLE

NEW DECORATIVE POST  
TOP LIGHT FIXTURE  
BASIS OF DESIGN  
JANUARY 19, 2021

DRAWN	CHK'D	PROJECT NO.
BS	PC	20071

SHEET NO.

E-100

NOTES

QUANTITY TO BE SUPPLIED: 160 WITH 10 YEAR WARRANTEE

FINISH: POWDER COAT, GLOSS BLACK. COATING TO BE A BLACK HIGH BUILD, HIGH PERFORMANCE TWO PART COMPONENT CHEMICALLY CURED ALIPHATIC URETHANE GLOSS ENAMEL APPLIED IN A 6–9 MILS FILM THICKNESS.

MATERIAL: CAST ALUMINUM ALLOY ANSI 356, PER ASTM B26–95

LED WATTAGE: 90W–100W

VOLTAGE: ELECTRONICALLY WIRED FOR 120–277 VOLTS

COLOR TEMPERATURE: 2700K

NOTE: FIXTURE TO INCLUDE NECESSARY REFLECTOR AND DIFFUSER FOR MAXIMUM DISTRIBUTION. LED LIGHT SOURCE PANELS TO BE MODULAR AND ABLE TO BE SELECTIVELY DISCONNECTED TO LIMIT LIGHT POLLUTION IN AREAS DETERMINED BY OWNER

GASKETS: NEOPRENE OR SILICONE TO MAKE WEATHERTIGHT

SURGE PROTECTOR: 10kV PROTECTION

LUMINAIRE WIRE HARNESS: MINIMUM 14 GAUGE WIRES SUPPLIED WITH QUICK DISCONNECT

POLE WIRE HARNESS: MINIMUM 10 GAUGE WIRES SUPPLIED WITH QUICK DISCONNECT

1

E-101

BENEFIT ST. LAMP TOP LUMINAIRE

SCALE: NONE

1/18/2021 4:25 PM

THIS DOCUMENT INCLUDES A 3D PDF FOR REFERENCE ONLY.  
NAVIGATE YOUR CURSER OVER THE IMAGE FOR ORBIT AND ROTATION.

This drawing is the property of StudioJAED and is prepared for the exclusive use of its clients at the location indicated. No other use is authorized or intended.

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BEAR, DELAWARE 19701

P: (302) 832-1652

MARYLAND OFFICE

213 FRONT STREET, P.O. BOX 254

CRUMPTON, MARYLAND 216285

REVISIONS		
MARK	DESCRIPTION	DATE
-	-	-

PROJECT

CITY OF PROVIDENCE

BENEFIT ST.

DECORATIVE LED LAMP POST

TOP LUMINAIRE FIXTURES

PROVIDENCE, RI

SHEET TITLE

NEW DECORATIVE POST

TOP LIGHT FIXTURE

BASIS OF DESIGN

JANUARY 19, 2021

DRAWN	CHK'D	PROJECT NO.
BS	PC	20071

SHEET NO.

E-101

**SECTION 00 01 01  
PROJECT TITLE PAGE**

**PROJECT MANUAL**

**FOR**

**BENEFIT ST DECORATIVE LED LAMP POST TOP LUMINAIRE FIXTURES  
CITY OF PROVIDENCE  
BENEFIT ST.  
PROVIDENCE RI**

**DATE: JANUARY 19, 2021**

**PREPARED BY:**

**STUDIOJAED  
42 WEYBOSSET ST,  
SUITE 403  
PROVIDENCE, RI 02903  
401 648 0884**

**END OF SECTION 00 01 01**

**SECTION 00 01 10**  
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**PROCUREMENT AND CONTRACTING REQUIREMENTS**

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- B. 00 01 10 - Table of Contents

**SPECIFICATIONS**

**2.01 DIVISION 01 -- GENERAL REQUIREMENTS**

- A. 01 10 00 - Summary
- B. 01 20 00 - Price and Payment Procedures
- C. 01 30 00 - Administrative Requirements
- D. 01 40 00 - Quality Requirements
- E. 01 42 16 - Definitions
- F. 01 60 00 - Product Requirements
- G. 01 78 00 - Closeout Submittals

**2.02 DIVISION 26 -- ELECTRICAL**

- A. 26 56 00 - Exterior Lighting

**END OF SECTION 00 01 10**

## **SECTION 01 10 00**

### **SUMMARY**

#### **PART 1 GENERAL**

##### **1.01 PROJECT**

- A. Project Name: Benefit Street Decorative LED Lamp Post Top Luminaire Fixtures.
- B. The Project consists of the fabrication and delivery of Benefit Street Decorative LED Lamp Post Top Luminaire Fixtures.

##### **1.02 CONTRACT DESCRIPTION**

- A. Contract Type: A single prime contract based on a Stipulated Price.

#### **PART 2 PRODUCTS - NOT USED**

#### **PART 3 EXECUTION - NOT USED**

**END OF SECTION 01 10 00**

**SECTION 01 20 00**  
**PRICE AND PAYMENT PROCEDURES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Procedures for preparation and submittal of applications for progress payments.

**1.02 SCHEDULE OF VALUES**

- A. Use Schedule of Values Form: AIA G703, edition stipulated in the Agreement.
- B. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit draft to StudioJAED for approval.
- C. Forms filled out by hand will not be accepted.

**1.03 APPLICATIONS FOR PROGRESS PAYMENTS**

- A. Payment Period: Submit at intervals stipulated in the Agreement.
- B. Use Form AIA G702 and Form AIA G703, edition stipulated in the Agreement.
- C. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to StudioJAED for approval.
- D. Forms filled out by hand will not be accepted.
- E. Execute certification by signature of authorized officer.
- F. Submit one electronic and three hard-copies of each Application for Payment.
- G. When StudioJAED requires substantiating information, submit data justifying dollar amounts in question. Provide one copy of data with cover letter for each copy of submittal. Show application number and date, and line item by number and description.

**1.04 APPLICATION FOR FINAL PAYMENT**

- A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.
- B. Application for Final Payment will not be considered until the following have been accomplished:

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION 01 20 00**

**SECTION 01 30 00**  
**ADMINISTRATIVE REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Submittals for review, information, and project closeout.
- B. Number of copies of submittals.
- C. Submittal procedures.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION**

**3.01 PREFABRICATION MEETING**

- A. City of Providence will schedule a meeting after Notice of Award.
- B. Agenda:
  - 1. Execution of City of Providence-Vendor Agreement.
  - 2. Submission of executed bonds and insurance certificates.
  - 3. Distribution of Contract Documents.
  - 4. Submission of schedule of values, and schedule.
  - 5. Designation of personnel representing the parties to Contract, City of Providence and StudioJAED.
  - 6. Procedures and processing of submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
  - 7. Scheduling.
- C. StudioJAED will record minutes and distribute copies after meeting to participants and those affected by decisions made.

**3.02 PROGRESS MEETINGS**

- A. Schedule and administer meetings throughout progress of the Work at maximum bi-weekly intervals.
- B. Attendance Required: Job superintendent, major Subcontractors and suppliers, City of Providence, and StudioJAED, as appropriate to agenda topics for each meeting.
  - 1. Vendor.
- C. Agenda:
  - 1. Review minutes of previous meetings.
  - 2. Review of Work progress.
  - 3. Fabrication observations, problems, and decisions.
  - 4. Identification of problems that impede, or will impede, planned progress.
  - 5. Review of submittals schedule and status of submittals.
  - 6. Maintenance of schedule.
  - 7. Corrective measures to regain projected schedules.
  - 8. Planned progress during succeeding work period.
  - 9. Maintenance of quality and work standards.
  - 10. Effect of proposed changes on progress schedule and coordination.
  - 11. Other business relating to Work.
- D. StudioJAED will record minutes and distribute copies after meeting to participants and those affected by decisions made.
- E. Record minutes and distribute copies within two days after meeting to participants, with two copies to StudioJAED, City of Providence, participants, and those affected by decisions made.

**3.03 FABRICATION PROGRESS SCHEDULE**

- A. Within 10 days after date of the Agreement, submit preliminary schedule defining planned operations for the first 60 days of Work, with a general outline for remainder of Work.



### **3.04 SUBMITTALS FOR REVIEW**

- A. When the following are specified in individual sections, submit them for review:
  - 1. Product data.
  - 2. Shop drawings.
  - 3. Fully function Fixture mock up.
- B. Submit to StudioJAED for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.
- C. Samples will be reviewed only for aesthetic, color, or finish selection.
- D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 78 00 - Closeout Submittals.

### **3.05 SUBMITTALS FOR INFORMATION**

- A. When the following are specified in individual sections, submit them for information:
  - 1. Design data.
  - 2. Certificates.
  - 3. Test reports.
  - 4. Inspection reports.
  - 5. Manufacturer's instructions.
  - 6. Other types indicated.
- B. Submit for StudioJAED's knowledge as contract administrator or for City of Providence. No action will be taken.

### **3.06 SUBMITTALS FOR PROJECT CLOSEOUT**

- A. When the following are specified in individual sections, submit them at project closeout:
  - 1. Project record documents.
  - 2. Operation and maintenance data.
  - 3. Warranties.
  - 4. Bonds.
  - 5. Other types as indicated.
- B. Submit for City of Providence's benefit during and after project completion.

### **3.07 NUMBER OF COPIES OF SUBMITTALS**

- A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.
- B. Samples: Submit the number specified in individual specification sections; one of which will be retained by StudioJAED.
  - 1. After review, produce duplicates.
  - 2. Retained samples will not be returned to Vendor unless specifically so stated.

### **3.08 SUBMITTAL PROCEDURES**

- A. Submittals to be electronic.
- B. Transmit each submittal with approved form.
- C. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.
- D. Identify Project, Vendor, supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.
- E. Apply Vendor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
- F. Schedule submittals to expedite the Project, and coordinate submission of related items.
- G. For mock up fixture for review, allow 15 days excluding delivery time to and from the Vendor.

- H. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- I. Provide space for Vendor and StudioJAED review stamps.
- J. When revised for resubmission, identify all changes made since previous submission.
- K. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
- L. Submittals not requested will not be recognized or processed.

**END OF SECTION 01 30 00**

**SECTION 01 40 00**  
**QUALITY REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. References and standards.
- B. Control of fabrication
- C. Tolerances.
- D. Mock-ups.

**1.02 REFERENCES AND STANDARDS**

- A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- C. Obtain copies of standards where required by product specification sections.
- D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
- E. Should specified reference standards conflict with Contract Documents, request clarification from StudioJAED before proceeding.
- F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of StudioJAED shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

**PART 3 EXECUTION**

**2.01 CONTROL OF FABRICATION**

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- D. Have Work performed by persons qualified to produce required and specified quality.
- E. Verify that measurements are as indicated on shop drawings or as instructed by the manufacturer.

**2.02 MOCK-UPS**

- A. Before fabrication proceeds a fully functional mock up will be required for review and approval.

**2.03 TOLERANCES**

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.

**2.04 DEFECT ASSESSMENT**

- A. Replace Work or portions of the Work not conforming to specified requirements.
- B. If, in the opinion of City of Providence, it is not practical to remove and replace the work, City of Providence will direct an appropriate remedy or adjust payment.

**END OF SECTION 01 40 00**

## **SECTION 01 42 16**

### **DEFINITIONS**

#### **PART 1 GENERAL**

##### **1.01 SUMMARY**

- A. Other definitions are included in individual specification sections.

##### **1.02 DEFINITIONS**

- A. Furnish: To supply, deliver, unload, and inspect for damage.
- B. Product: Material, machinery, components, equipment, fixtures, and systems forming the work result. Not materials or equipment used for preparation, fabrication, conveying, or erection and not incorporated into the work result. Products may be new, never before used, or re-used materials or equipment.
- C. Project Manual: The book-sized volume that includes the procurement requirements (if any), the contracting requirements, and the specifications.
- D. Provide: To furnish and deliver.
- E. Supply: Same as Furnish.

#### **PART 2 PRODUCTS - NOT USED**

#### **PART 3 EXECUTION - NOT USED**

**END OF SECTION 01 42 16**

**SECTION 01 60 00**  
**PRODUCT REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Transportation, handling, storage and protection.
- B. Product option requirements.
- C. Maintenance materials, including extra materials, spare parts, tools, and software.

**1.02 SUBMITTALS**

- A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.

**PART 2 PRODUCTS**

**2.01 PRODUCT OPTIONS**

- A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

**2.02 MAINTENANCE MATERIALS**

- A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
- B. Deliver to Project site; obtain receipt prior to final payment.

**PART 3 EXECUTION**

**3.01 TRANSPORTATION AND HANDLING**

- A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.
- B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.
- C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- D. Transport and handle products in accordance with manufacturer's instructions.
- E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.
- H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

**3.02 STORAGE AND PROTECTION**

- A. The City will designate receiving/storage areas for incoming products.
- B. Deliver with seals and labels intact and legible.
- C. Prevent contact with material that may cause corrosion, discoloration, or staining.

- D. Provide equipment and personnel to deliver products by methods to prevent soiling, disfigurement, or damage.

**END OF SECTION 01 60 00**

**SECTION 01 78 00**  
**CLOSEOUT SUBMITTALS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Project Record Documents.
- B. Operation and Maintenance Data.
- C. Warranties and bonds.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 30 00 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.
- B. Section 01 70 00 - Execution and Closeout Requirements: Contract closeout procedures.
- C. Individual Product Sections: Specific requirements for operation and maintenance data.
- D. Individual Product Sections: Warranties required for specific products or Work.

**1.03 SUBMITTALS**

- A. Project Record Documents: Submit documents to StudioJAED with claim for final Application for Payment.
- B. Operation and Maintenance Data:
  - 1. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. StudioJAED will review draft and return one copy with comments.
  - 2. For equipment, or component parts of equipment put into service during construction and operated by City of Providence, submit completed documents within ten days after acceptance.
  - 3. Submit one copy of completed documents 15 days prior to final inspection. This copy will be reviewed and returned after final inspection, with StudioJAED comments. Revise content of all document sets as required prior to final submission.
  - 4. Submit two sets of revised final documents in final form within 10 days after final inspection.
- C. Warranties and Bonds:
  - 1. Make submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION**

**3.01 PROJECT RECORD DOCUMENTS**

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
  - 1. Drawings.
  - 2. Specifications.
  - 3. Addenda.
  - 4. Reviewed shop drawings, product data, and samples.
  - 5. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by City of Providence.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress.
- E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
  - 1. Changes made by Addenda and modifications.
- F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:

1. Field changes of dimension and detail.
2. Details not on original Contract drawings.

### **3.02 OPERATION AND MAINTENANCE DATA**

- A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.
- B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.
- C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.
- D. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

### **3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES**

- A. For Each Product, Applied Material, and Finish:
  1. Product data, with catalog number, size, composition, and color and texture designations.
- B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.
- C. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

### **3.04 ASSEMBLY OF OPERATION AND MAINTENANCE MANUALS**

- A. Assemble operation and maintenance data into durable manuals for City of Providence's personnel use, with data arranged in the same sequence as, and identified by, the specification sections.
- B. Where systems involve more than one specification section, provide separate tabbed divider for each system.
- C. Binders: Commercial quality, 8-1/2 by 11 inch three D side ring binders with durable plastic covers; 2 inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings.
- D. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.
- E. Project Directory: Title and address of Project; names, addresses, and telephone numbers of StudioJAED, Consultants, Vendor and subcontractors, with names of responsible parties.
- F. Tables of Contents: List every item separated by a divider, using the same identification as on the divider tab; where multiple volumes are required, include all volumes Tables of Contents in each volume, with the current volume clearly identified.
- G. Dividers: Provide tabbed dividers for each separate product and system; identify the contents on the divider tab; immediately following the divider tab include a description of product and major component parts of equipment.
- H. Text: Manufacturer's printed data, or typewritten data on 20 pound paper.
- I. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.
- J. Arrangement of Contents: Organize each volume in parts as follows:
  1. Project Directory.
  2. Table of Contents, of all volumes, and of this volume.
  3. Operation and Maintenance Data: Arranged by system, then by product category.
    - a. Source data.
    - b. Operation and maintenance data.



- c. Field quality control data.
- d. Photocopies of warranties and bonds.

### **3.05 WARRANTIES AND BONDS**

- A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with City of Providence's permission, leave date of beginning of time of warranty until the Date of Substantial completion is determined.
- B. Verify that documents are in proper form, contain full information, and are notarized.
- C. Co-execute submittals when required.
- D. Retain warranties and bonds until time specified for submittal.
- E. Manual: Bind in commercial quality 8-1/2 by 11 inch three D side ring binders with durable plastic covers.
- F. Cover: Identify each binder with typed or printed title WARRANTIES AND BONDS, with title of Project; name, address and telephone number of Vendor and equipment supplier; and name of responsible company principal.
- G. Table of Contents: Neatly typed, in the sequence of the Table of Contents of the Project Manual, with each item identified with the number and title of the specification section in which specified, and the name of product or work item.
- H. Separate each warranty or bond with index tab sheets keyed to the Table of Contents listing. Provide full information, using separate typed sheets as necessary. List Subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.

**END OF SECTION 01 78 00**

**SECTION 26 56 00**  
**EXTERIOR LIGHTING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Exterior luminaires.

**1.02 REFERENCE STANDARDS**

- A. IES LM-63 - IESNA Standard File Format for Electronic Transfer of Photometric Data and Related Information.
- B. IESNA LM-63 - ANSI Approved Standard File Format for Electronic Transfer of Photometric Data and Related Information.
- C. IES LM-80 - Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays, and Modules; Illuminating Engineering Society.
- D. NFPA 70 - National Electrical Code.
- E. UL 1598 - Luminaires.
- F. UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products.

**1.03 ADMINISTRATIVE REQUIREMENTS**

- A. Coordination:
  - 1. Notify StudioJAED of any conflicts or deviations from Contract Documents to obtain direction prior to proceeding with work.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings:
  - 1. Indicate dimensions and components for each luminaire.
  - 2. Provide photometric calculations .
- C. Product Data: Provide manufacturer's data sheets including detailed information on luminaire construction, dimensions, ratings, finishes, mounting requirements, listings, service conditions, photometric performance, weight, effective projected area (EPA), and installed accessories; include model number nomenclature clearly marked with all proposed features.
  - 1. LED Luminaires:
    - a. Include estimated useful life, calculated based on IES LM-80 test data.
  - 2. Provide electronic files of photometric data certified by a National Voluntary Laboratory Accreditation Program (NVLAP) lab or independent testing agency in IES LM-63 standard format upon request.
  - 3. Lamps: Include rated life and initial and mean lumen output.
- D. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of product.
- E. Operation and Maintenance Data: Instructions for each product including information on replacement parts.
- F. Maintenance Materials: Furnish the following for City of Providence's use in maintenance of project.
  - 1. See Section 01 60 00 - Product Requirements, for additional provisions.

**1.05 QUALITY ASSURANCE**

- A. Comply with requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum five years documented experience.

- C. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver, unload and place luminaires in a City of Providence designated facility.
- B. Keep products in original manufacturer's packaging and protect from damage.

#### **1.07 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

### **PART 2 PRODUCTS**

#### **2.01 LED ROADWAY LUMINAIRE**

- A. All luminaires and luminaire components including, but not limited to, lamps, fuses, photo electric devices, shall be new, unused, and of the manufacturer's latest design and model available at the time the contract is awarded. All standard equipment shall be provided.
  - 1. Luminaire
    - a. Height: 41"-44"
    - b. Width: 15" +/-
    - c. Material: Cast Aluminum ANSI 356
    - d. Globe: Clear Vacuum Formed Acrylic
    - e. Lamping: <100W
    - f. Voltage: 120V-277V
    - g. Color Temperature: 2700K
    - h. CRI: 70 Min
    - i. Distribution: Type III (Asymmetric)
    - j. Color: River Texture Gloss Black
  - 2. LED's to be discrete 1-watt LED. Chip on Board (COB) designs are unacceptable
  - 3. 100-Watt LED Driver
    - a. UL Recognized
    - b. 0-10 VDC input
    - c. 50,000+ Hour Lifetime
    - d. Output Current: 0.70A
  - 4. Optics:
    - a. LED Grade Custom Free-formed Optics
  - 5. Efficacy:
    - a. 80+ lm/w minimum
  - 6. TM-21 Results:
    - a. 90% of the initial lumen output shall be maintained for 100,000 reported hours.

#### **2.02 POWDER COAT PROCESS:**

- A. All exterior surfaces shall be blast cleaned to Steel Structures Painting council Surface preparation Specification No.6 (SSPC-SP6) requirement utilizing cast steel abrasives conforming to the Automotive Engineers (SAE) recommended Practice J827. The blast method used shall be a recirculating, closed cycle centrifugal wheel system with abrasive conforming to SAE Shot No. S280.
  - 1. Pre-treat
  - 2. Wash Spray
  - 3. Primer (Brand: IFS Coatings ELSS 90056 Zinc Rich Epoxy Base Primer) 2-3 Mils Partial Cure (Gel)
  - 4. Spray Top Coat (Brand: IFS Coatings OGF Gloss Black River Texture) 4-9 Mils Top Coat Final Cure
    - a. Application Data: Polyester TGIC's are to be applied with a corona electrostatic powder spray gun at between 60kv –100 kv.

- b. Cure Schedule: Polyester TGIC's can be cured in a direct or indirect gas convection oven, an electric oven, or an Infrared. A combination of any of these ovens is also suitable.
- c. Standard Cure: 10 Minutes @ 400 of Peak Metal Temperature

### 2.03 POWDER COAT FINISH SPECIFICATION:

- A. All powder coated finish will require a 5-year gloss retention warranty
- B. Typical Powder Properties:
  - 1. Particle Size: 37-45 micron
  - 2. Specific Gravity (ASTM D5965-96, C) 1.45±0.05
  - 3. Theoretical Coverage 132 sq.ft/lb./mil
  - 4. Mass loss during the cure (ASTM D3451-92) <1.0%
- C. Typical Physical Properties:
  - 1. Film Thickness 4-9 mil
  - 2. Gloss 60°angle (ASTM D-523-89) 50-60 (visual)
  - 3. Hardness (ASTM D-3363-92A) 3H
  - 4. Flexibility (ASTM D-1737-89) 1/8 inch
  - 5. Adhesion (ASTM D-3359-95A) 5B (100%)
  - 6. Impact Direct (ASTM D-2794-93) 80 in-lbs\*
  - 7. Chloride Permeability (D775) <0.0001M
  - 8. Salt Spray (ASTM B117, 1000 hrs, Bonderite 1000 panel) Rating 7

### 2.04 LUMINAIRES

- A. Manufacturers: Custom luminaire per drawings & specifications
- B. Provide products that comply with requirements of NFPA 70.
- C. Provide products that are listed and labeled as complying with UL 1598, where applicable.
- D. Provide products listed, classified, and labeled as suitable for the purpose intended.
- E. Unless otherwise indicated, provide complete luminaires including lamp(s) and all sockets, ballasts, reflectors, lenses, housings and other components required to position, energize and protect the lamp and distribute the light.
- F. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring harness, connectors, hardware, trims, accessories, etc. as necessary for a complete operating unit.
- G. Provide products suitable to withstand normal handling, installation, and service without any damage, distortion, corrosion, fading, discoloring, etc.
- H. Provide luminaires listed and labeled as suitable for wet locations.
- I. LED Luminaires: Listed and labeled as complying with UL 8750.
- J. Exposed Hardware: Stainless steel.

## PART 3 EXECUTION

### 3.01 DELIVERY

- A. Deliver, unload and place luminaires in a City of Providence designated facility.
- B. Keep products in original manufacturer's packaging and protect from damage.

### 3.02 CLOSEOUT ACTIVITIES

- A. See Section 01 78 00 - Closeout Submittals, for closeout submittals.
- B. Demonstration: Demonstrate proper operation of luminaires for maintenance to Owner representatives.

**END OF SECTION 26 56 00**