

Lions Park LED Retrofit Management Plan



Project Concept:

Retrofitting to LED technology drastically decreases the amount of energy and money it takes to light an area. LED lights also have a much longer lifespan than traditional lights, produce less light pollution, and produce a brighter, more natural light.

At Lions Park, we replaced 4, 100 watt High Pressure Sodium lights with 4, 295 watt LEDs, and replaced the 4 light poles with new, utility grade poles. We also installed a timer system which allows the new lights to be turned on and off as needed. The old lights were on a dawn to dusk sensor, and were on for an average of 12 hours a day, even when no one was using the park. Red Lodge Ice, HI-Altitude Electric, and Beartooth Electric Co-op partnered with the City to make this project happen, and the project originally came about because of Red Lodge Ice's interest in upgrading the lighting at Lions Parks for their winter ice rink.

Location:

Lions Park
Villard Avenue, between 8th Street and 5th Street
Red Lodge, Montana
59068

Installed Items:

4, 295 watt Beacon Alpha Floodlight LEDs
4 Utility Grade light poles
Timer system

LED Streetlight Vendor:

Hubbell Lighting
701 Millennium Blvd
Greenville, SC 29607
Phone: 864-678-1000
Fax: 864-678-1740

LED and Timer Installer:

HI-Altitude Electric
Levi White
5 1st Street
Boyd, MT 59013
Email: hialtitudeelectric@gmail.com
Phone: 406-628-2585

Light Pole Installer:

Beartooth Electric Co-Op
Kevin Owens
1306 North Broadway Ave.
Red Lodge, MT 59068
Email: kevin@beartoothelectric.com
Phone: 406-446-2310

Funding:

The total project cost for the LED retrofit at Lions Park was \$15,610, but \$14,063 of that was donated to the City through direct contributions and free labor. The City purchased the new light poles, which came to \$1,547. Red Lodge Ice paid for the lights which cost \$7,187, Beartooth Electric donated the pole setting labor at \$4,276, and Hi-Altitude Electric donated the electrical labor which came to \$2,610. All together, 90% of the project costs were donated to the City.

Warranty:

Hubbell Lighting offers a 5 year warranty on their LED lights. They will repair or replace any light fixtures that fail for 5 years after the install date, which was January 10, 2019. See the attached warranty for more information.

Monitoring Usage

NorthWestern Energy Account Number: 713542-9

The Lions Park lights have their own meter and Northwestern Energy Account Number. This provides the City with a monthly electricity use for the lights.

The monitoring spreadsheet is available online via Google Sheets and can be found at the link below:

<https://docs.google.com/spreadsheets/d/1RgswUPxE5VxCX8NxEsp4V18Q6BD5dm6QxzlPhPHpGE/edit?usp=sharing>

Community Impact:

The community and City will see significant monetary savings from this project. The City previously spent \$183.48 annually to power these 4 lights. They were on for 12 hour each day unnecessarily, which drove up the cost. With the new LED retrofit lights, they will only be on for an estimated 3 hours per night during the winter months, which will reduce the energy cost to \$43.78, saving the City \$139.70 each year. The City will also save money on maintenance as LEDs typically last much longer than High Pressure Sodium or Metal Halide bulbs. This savings can then be put toward projects that the community cares about, rather than being spent on energy bills.



OUTDOOR LIGHTING LIMITED WARRANTY

Limited Warranty (“Warranty”): Subject to the exclusions set forth below, Hubbell Lighting, Inc. (“Hubbell”) warrants that the Hubbell branded outdoor fixtures identified on **Exhibit A (“Products”)** will be free from defects in material and workmanship which cause the Products to fail to operate in accordance with the specifications set forth in the documentation published or provided with the Products (the “**Specifications**”) for the applicable period and subject to the additional terms and conditions set forth on **Exhibit A** from the date of shipment (“**Warranty Period**”). Unless otherwise noted on **Exhibit A**, Hubbell warrants that any standard finish on a Product will be free from cracking, peeling, excessive fading, and corrosion defects during the applicable Warranty Period. For light emitting diode (“**LED**”) Products, the LED arrays in the Products will be considered defective in material or workmanship only if a total of 15% or more of the individual LEDs in the Products fail to illuminate.

Exclusions: This Warranty applies only when the Products have been properly handled, stored, wired, transported, installed, operated and maintained in accordance with the applicable Specifications, including, without limitation, installation in applications in which ambient temperatures are within the range of specified operating temperatures and operation within the electrical values shown on the Specifications. Hubbell shall have no responsibility under this Warranty for any failure of the Products that results from external causes including without limitation: acts of nature; physical damage; exposure to adverse or hazardous chemicals or other substances; use of reactive cleaning agents and/or harsh chemicals to clean the Products; environmental conditions; vandalism; fire; power failure, improper power supply, power surges or dips, and/or excessive switching; fatigue failure or similar phenomena resulting from induced vibrations, harmonic oscillation or resonance associated with movement of air currents around the Product; animal or insect activity; fault or negligence of the purchaser of the Products, any end user of the Products and/or any third parties not engaged by Hubbell, improper or unauthorized use, installation, handling, storage, alteration, maintenance or service, including failure to abide by any product classifications or certifications, or failure to comply with any applicable standards, codes, recommendations, product specification sheets, use of Products with products, processes or materials supplied by the purchaser of the Products, any end user or third parties, or any other occurrences beyond Hubbell's reasonable control. In addition, Hubbell shall have no responsibility under this Warranty for any substantial deterioration in the Product finish that is caused by failure to clean, inspect or maintain the finish of the Products. During the Warranty Period some staining, chalking or fading may occur. This is normal aging of the finish and is not a manufacturing defect; therefore it is not covered by this Warranty. Neither polycarbonate nor acrylic material used in the Products is warranted against yellowing, as yellowing may naturally occur over time due to normal aging. If the Products are used on existing foundations, anchorages or structures, the purchaser of the Products and/or any end user is solely responsible for the structural integrity of such existing foundations, anchorages or structures and all consequences arising from their use. Hubbell does not offer warranties for poles not manufactured by Hubbell. Any non-Hubbell poles shipped by Hubbell are subject to the applicable warranty provided by such manufacturer. Hubbell is not responsible for any costs or expenses relating to defective pole claims, repairs or replacements on such non-Hubbell poles.

Adequate records (as determined by Hubbell in its sole discretion) of operating history, maintenance, and/or testing must be kept by the end user and provided to Hubbell upon request to substantiate that the Products have failed to comply with the terms of this Warranty. The Products are not warranted against costs that may be incurred in connection with changes or modifications to the Products required to accommodate site conditions and/or faulty building construction or design. In addition, the Products are not warranted against cost resulting from installation of third party components, failures of third party supplied components, or failures of Hubbell supplied Products caused by third party supplied components. This Warranty is not applicable to any product(s) which are not installed and operated in accordance with the current edition of The National Electric Code (NEC), the Standards for Safety of Underwriters’ Laboratory, Inc. (UL), or the standards for the American National Standards Institute (ANSI), and with Hubbell instructions and guidelines for the Product. THIS WARRANTY IS VOID WITH RESPECT TO ANY PRODUCT IF THE PRODUCT IS NOT USED FOR THE PURPOSE FOR WHICH IT WAS DESIGNED OR IF ANY REPAIRS OR ALTERATIONS ARE MADE BY ANY PERSON NOT AUTHORIZED BY HUBBELL IN WRITING.

Except as otherwise set forth herein, Hubbell does not warrant ballasts, battery packs, lamps, photocells, occupancy sensors, low voltage indicators, fuses, surge suppressors, surge protection devices, high intensity discharge (“HID”) components and other third party devices that are not manufactured by Hubbell, which are covered by the applicable third party manufacturer warranty (if any). Such third party manufacturer shall be solely responsible for the costs related to any claims associated with any such devices.

Remedy: If the Product(s) fail to comply with the terms of this Warranty and the end user (and the purchaser of the Product(s) if different from the end user) has fully complied with all of the obligations under this Warranty and the Terms and Conditions of Sale for Hubbell Lighting, Inc. (which are available at www.hubbellighting.com/terms_and_conditions) including, without limitation, payment in full in respect of the Products, Hubbell, at its sole option, will repair or replace the Product(s) with the same or a functionally equivalent Product(s) or component part(s). Specifically, Hubbell will repair the Product, replace with a similar or like Product (as determined by Hubbell in its sole discretion), or issue a credit to the purchaser which may be used for future Hubbell product purchases. (The amount of such credit shall be calculated by Hubbell at its sole discretion). Hubbell reserves the right to use new, reconditioned, refurbished,

repaired or remanufactured products or parts in the repair or replacement of any Product covered by this Warranty. This Warranty excludes any and all removal or reinstallation costs and expenses including, without limitation, labor and equipment required to remove and/or reinstall original or replacement Product(s) or parts, shipping costs to return nonconforming Products(s) or any damage that may occur during the return of any Product(s) to Hubbell. This Warranty only extends to the Products as delivered to, and is for the sole and exclusive benefit of, the end user of the Products at the original location. This Warranty may not be transferred or assigned by the end user. The repair, issuing of future purchase credit or replacement of any Products or component part within the Products is the sole and exclusive remedy for failure of the Products to comply with the terms of this Warranty and does not extend the Warranty period. Warranty claims regarding Products must be submitted in writing within thirty (30) days of discovery of the defect or failure to an authorized Hubbell customer service representative. Products or component parts may be required to be returned for inspection and verification of non-conformance by Hubbell, but no Products or component parts will be accepted for inspection, verification or return unless accompanied by a completed return materials authorization form which can be obtained only from an authorized Hubbell customer service representative. Hubbell is not responsible for any costs and expenses incurred in connection with the shipment of Products to Hubbell, but Hubbell shall bear all cost and expense incurred in connection with the shipment of replacement Products to the end user.

NO OTHER WARRANTIES: THE FOREGOING WARRANTY TERMS ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND HUBBELL EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED RELATING DIRECTLY OR INDIRECTLY TO THE PRODUCT(S), WHETHER ORAL, WRITTEN, OR ARISING BY COURSE OF DEALING OR USAGE OF TRADE, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY HUBBELL OR ANY EMPLOYEE, AGENT, DISTRIBUTOR OR OTHER SUPPLIER OF HUBBELL PRODUCTS SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THE WARRANTY. NO EMPLOYEE, AGENT, DISTRIBUTOR OR OTHER SUPPLIER OF HUBBELL PRODUCTS HAS THE AUTHORITY TO MODIFY OR AMEND THIS WARRANTY WITHOUT EXPRESS WRITTEN AUTHORIZATION FROM HUBBELL.




LIMITATION OF LIABILITY: IN NO EVENT SHALL HUBBELL'S TOTAL LIABILITY IN RESPECT OF ANY AND ALL CLAIMS OF ANY KIND WHETHER IN CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE ARISING OUT OF OR IN CONNECTION WITH, OR RESULTING FROM HUBBELL'S PERFORMANCE OR BREACH OF THIS WARRANTY, OR FROM HUBBELL'S SALE, DELIVERY, RESALE, REPAIR, OR REPLACEMENT OF ANY PRODUCT(S) OR THE FURNISHING OF ANY SERVICE, EXCEED THE PURCHASE PRICE ALLOCABLE TO THE PRODUCT(S) THAT GIVE RISE TO THE CLAIM, AND ANY AND ALL SUCH LIABILITY SHALL TERMINATE UPON THE EXPIRATION OF THE WARRANTY PERIOD. IN NO EVENT SHALL HUBBELL BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, MULTIPLE OR PUNITIVE DAMAGES, EVEN IF INFORMED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER AS THE RESULT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR ANY OTHER THEORY, INCLUDING WITHOUT LIMITATION LABOR OR EQUIPMENT REQUIRED TO REMOVE AND/OR REINSTALL ORIGINAL OR REPLACEMENT PARTS, LOSS OF TIME, PROFITS OR REVENUES, LACK OR LOSS OF PRODUCTIVITY, LOSS OF USE OF THE PRODUCT(S) OR ANY ASSOCIATED EQUIPMENT, INTEREST CHARGES OR COST OF CAPITAL, COST OF SUBSTITUTE EQUIPMENT, FACILITIES, SYSTEMS, SERVICES OR DOWNTIME COSTS, DAMAGE TO OR LOSS OF PROPERTY OR EQUIPMENT, ANY INCONVENIENCE, COST OR DAMAGE ARISING OUT OF ANY DELAY IN PERFORMING, FAILURE TO PERFORM OR OTHER BREACH OF THE FOREGOING WARRANTY OR OBLIGATIONS UNDER SUCH WARRANTY, OR CLAIMS OF THIRD PARTIES AGAINST THE PURCHASER OF THE PRODUCTS OR THE END USER, ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, USE OF, INABILITY TO USE, OR THE REPAIR OR REPLACEMENT OF THE PRODUCTS.

Right to Modify or Discontinue Warranty: This Warranty is effective for the purchases of Products on or after the effective date set forth herein and is in consideration of and is expressly subject to and conditioned by the terms set forth herein. Hubbell reserves the right to modify or discontinue this Warranty without notice provided that any such modification or discontinuance will only be effective with respect to any Products purchased after such modification or discontinuance.

Effective December 1, 2017


EXHIBIT A

HUBBELL LIGHTING – C&I OUTDOOR FIXTURES LIMITED WARRANTY

HUBBELL LIGHTING ARCHITECTURAL OUTDOOR FIXTURES			
HUBBELL LIGHTING BRAND	LED¹	NON-LED	SPECIAL CONDITIONS AND EXCEPTIONS
	5 years	1 year	<u>Exterior Housing Paint Finish</u> : 5 year warranty on all paint finishes for LED fixtures and poles <u>Copper and Bronze Landscape Components</u> : 25 year warranty <u>Composite In-Grade Components</u> : 7 year warranty <u>Aluminum Landscape Components</u> : 3 years for components not in direct contact with soil; 1 year for components in direct contact with soil <u>HID-to-LED Retrofit Kits</u> : 5 year warranty; 1 year warranty on re-used metal housing (additional conditions may apply) <u>Pole Warranty</u> : 3 year warranty
	5 years	1 year	<u>Exterior Housing Paint Finish</u> : 5 year warranty on all paint finishes for LED fixtures and poles <u>HID-to-LED Retrofit Kits</u> : 5 year warranty; 1 year warranty on re-used metal housing (additional conditions may apply) <u>Pole Warranty</u> : 3 year warranty
	5 years	1 year	<u>Exterior Housing Paint Finish</u> : 5 year warranty on all paint finishes for LED fixtures and poles <u>Pole Warranty</u> : 3 year warranty

¹ Includes LED arrays and LED drivers but excludes surge protection devices and other integral controls described in the Warranty. Devices and components manufactured by Hubbell and included with the Products are warranted separately; the terms of such warranties are located at www.hubbellighting.com/resources/warranty.

HUBBELL LIGHTING COMMERCIAL OUTDOOR FIXTURES

HUBBELL LIGHTING BRAND	LED ²	NON-LED	SPECIAL CONDITIONS AND EXCEPTIONS
	5 years	1 year	<u>Exterior Housing Paint Finish</u> : 5 year warranty on all paint finishes for LED fixtures and poles <u>Pole Warranty</u> : 1 year warranty
	5 years	1 year	<u>Exterior Housing Paint Finish</u> : 5 year warranty on all paint finishes for LED fixtures and poles <u>12V LED Lightscaper Fixtures</u> : 3 year warranty <u>Pole Warranty</u> : 1 year warranty
	5 years	1 year	<u>Exterior Housing Paint Finish</u> : 5 year warranty on all paint finishes for LED fixtures and poles <u>Pole Warranty</u> : 1 year warranty
	5 years	1 year	<u>Exterior Housing Paint Finish</u> : 5 year warranty on all paint finishes for LED fixtures and poles <u>Pole Warranty</u> : 1 year warranty
	5 years	1 year	<u>Exterior Housing Paint Finish</u> : 5 year warranty on all paint finishes for LED fixtures and poles <u>Pole Warranty</u> : 1 year warranty
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	5 years	1 year	<u>Exterior Housing Paint Finish</u> : 5 year warranty on all paint finishes for LED fixtures and poles <u>Pole Warranty</u> : 1 year warranty

² Includes LED arrays and LED drivers but excludes surge protection devices and other integral controls described in the Warranty. Devices and components manufactured by Hubbell and included with the Products are warranted separately; the terms of such warranties are located at www.hubbellighting.com/resources/warranty.