136 North Monroe Street
Waterloo, WI 53594
Phone: (920) 478-3025
Fax: (920) 478-2021
www.waterloowi.us

PUBLIC NOTICE OF A COMMITTEE MEETING OF THE CITY OF WATERLOO COMMON COUNCIL

Pursuant to Section 19.84 Wisconsin Statutes, notice is hereby given to the public and news media, that a public meeting will be held to consider the following:

COMMITTEE:	FINANCE, INSURANCE & PERSONNEL COMMITTEE
DATE:	June 15, 2023
TIME:	6:00 p.m.
LOCATION:	Municipal Building Council Chamber, 136 N. Monroe Street

1) CALL TO ORDER AND ROLL CALL

2) APPROVAL OF MEETING MINUTES: May 18, 2023

3) PUBLIC COMMENT

4) OLD BUSINESS
   a) Fire Department-Payroll Processing
   b) Signs from Signmaster
   c) Discussion Regarding 2024 Budget Strategy

5) NEW BUSINESS
   a) May 2023 Financial Statements: Payroll $81,610.00, General Disbursements $252,600.32 and Clerk/Treasurer's Reports [see on municipal website]
   b) Waterloo Fire Department – Repairs to Water Truck Rails.
   c) Lighting at Madison St and Monroe St. Preliminary Continuous Lighting Application with DOT and Estimates to Purchase and Install Lighting.
   d) Televising the Storm Sewer in Waterloo

6) FUTURE AGENDA ITEMS AND ANNOUNCEMENTS

7) ADJOURNMENT

Jeanne Ritter
Clerk/ Deputy Treasurer

Committee Members: Thomas, Weihert and Kuhl

Posted, Emailed & Distributed: 06/7/2023.

PLEASE NOTE: It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may attend the above meeting(s) to gather information. No action will be taken by any governmental body other than that specifically noted. Also, upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request such services please contact the clerk's office at the above location.

CITY OF WATERLOO FINANCE, INSURANCE & PERSONNEL COMMITTEE: MEETING MINUTES
May 18, 2023
[a digital recording of this meeting also serves as the official record]

1. CALL TO ORDER AND ROLL CALL. Thomas called the meeting to order at 6:07 p.m. Members in person: Thomas and Weihert. Remote: Kuhl. Absent: none Other attending in person or remote: Mayor Quimby; Treasurer Nelson; City Clerk Ritter; Police Chief Sorenson, Fire Chief Benisch, 1st Lt J. Butzine, R. Weber and Utilities Superintendent Sorenson.

2. APPROVAL OF MEETING MINUTES: Motion to approve Meeting Minutes: April 20, 2023 and May 4, 2023. [Kuhl/Weihert] VOICE VOTE: Motion carried.

3. PUBLIC COMMENT: none

4. OLD BUSINESS - none

5. NEW BUSINESS
    a. April 2023 Financial Statements: Payroll $ 77,395.69 , General Disbursements $ 589,423.03 and Clerk/Treasurer's Reports [see on municipal website] Motion [Weihert/Kuhl] VOICE VOTE: Motion carried.
    b. City Hall Server Hosting V Purchasing. Purchasing server ($8,486.12) directly from Dell with Taylor Computers installing. (undesignated surplus funds) [C. Kuhl/Weihert] VOICE VOTE: Motion carried.
    c. IT Options and Comparisons. Move IT assistance from InterQuest to Taylor Computers. Motion[Kuhl/Weihert] VOICE VOTE: Motion carried.
    d. Resolution 2023-19 Wire Transfer Policy at City Hall. Recommend to Council [Thomas/Weihert] VOICE VOTE: Motion carried.
    e. Resolution 2023-20 Wire Transfer Policy at Waterloo Water & Light. Motion to send to Waterloo Water & Light Commission then to Council when they review it. [Thomas/Weihert] VOICE VOTE: Motion carried.
    f. Banking Options and Comparisons. Motion to move checking account to Capitol Bank. Right up resolution and have Ehlers review. [Kuhl/Thomas] VOICE VOTE: Motion carried.
    g. 2023-21 2022 Financial Carry-Over Approvals Motion [Kuhl/Weihert] VOICE VOTE Motion carried.
    h. Fire Department-Payroll Processing. Continue discussion next month.
    i. Fire Department Ambulance Chassis and Remount. Motion to approve Chassis purchase (using grant money) [Weihert/Kuhl] VOICE VOTE: Motion carried. Motion to approve Remount (using remainder of grant) $125,911from ARV. [Kuhl/Weihert] VOICE VOTE: Motion carried.
    j. Fire Department Town of Waterloo EMS Agreement. Motion to recommend to Council. [Weihert/Kuhl] VOICE VOTE: Motion carried.
    k. Fire Department Policies and Procedures. Tabled [Thomas/Weihert] VOICE VOTE: Motion carried.
    l. Fire Department Town of Milford Recommend to Council to approve additional area. [C. Kuhl/Weihert]
    m. Signs from Signmaster Tabled [Weihert/Kuhl] VOICE VOTE Motion carried.
    n. Discussion regarding 2024 Budget Strategy Tabled [Weihert/Kuhl] VOICE VOTE: Motion carried.

6. FUTURE AGENDA ITEMS AND ANNOUNCEMENTS
    a. Committee Calendar (for reference)

7. ADJOURNMENT. MOTION: [Kuhl/Weihert] To adjourn. VOICE VOTE: Motion carried. Approximate time 7:05pm

Jeanne Ritter
Clerk/Deputy Treasurer

Signmaster Signs LLC
550 Commercial Ave.
Sun Prairie, WI 53590 US
(608) 834-0959
signmastersigns@gmail.com
www.signmasterllc.com

ADDRESS
City of Waterloo
136 N Monroe St
Waterloo, WI 53594

SHIP TO
City of Waterloo

Estimate 1075

DATE 04/28/2023

ACTIVITY	QTY	RATE	AMOUNT
Refurbish Option 1: Full Refurb. Remove signs bring back to shop, patch all holes and scratches, repaint entirely, Re-Install on existing structure	3	3,000.00	9,000.00T
Refurbish Option 2: Partial Refurb of each sign (some needing more work than others) Should be able to do most or all work on site over multiple days. Repainting only the areas needed. Patching holes and scratches as needed.	1	3,750.00	3,750.00T

Option 2 partially painting signs all colors may not match perfectly as weathering/fading does happen to paint overtime.

Please feel free to call with questions.
Thank you

SUBTOTAL	12,750.00
TAX	0.00
TOTAL	**$12,750.00**

Accepted By

Accepted Date

BUDGET TRUCK & AUTO, INC

Collision Repair | Custom Paint | Vehicle Wraps |
Vinyl Graphics | Paint Protection
2027 W AVALON RD, JANESVILLE, WI 53546
Phone: (608) 756-0861
FAX: (608) 756-0136

WorkFile ID: 4f5f3d08
PartsShare: 7kV4pk
Federal ID: 39-1719220

Estimate

RO Number:

Customer:
WATERLOO FIRE DEPARTMENT
900 INDUSTRIAL LN
WATERLOO, WI 53597
(920) 478-2535

Insurance:

Adjuster:
Phone:
Claim:
Loss Date:
Deductible:

Estimator: Tanya Modos
Create Date: 5/9/2023

PETERBILT 357

VIN: 1XPALA0X9NN213461
License: TENDER95
State:

Interior Color:
Exterior Color:
Production Date:

Mileage In: 113,507
Mileage Out:
Condition:

Vehicle Out:
Job #:

Line	Ver	Operation	Description	Qty	Extended Price $	Part Type	Labor	Type	Paint
1	E01	Repair	PRESSURE WASH FRAME				3.0	Body	
2	E01	Remove/Install	R&I FRAME MOUNTED ITEMS AS NEEDED FOR REPAIRS				2.0	Body	
3	E01	Remove/Install	R&I WHEELS FOR ACCESS				3.0	Body	
4	E01	Remove/Replace	**LUG NUTS SHOULD BE RETIGHTENED AFTER 50 MILES**			OEM	0.0	Body	0.0
5	E01	Repair	HAND SAND FRAME COMPLETE TO REMOVE RUST				35.0	Body	
6	E01	Remove/Replace	APPLY UNDER COATING TO FRAME COMPLETE	20	1,512.00	Other	10.0	Body	
7	E01		SHOP MATERIALS	1	1,500.00	Other			

Estimate Totals	Discount $	Markup $	Rate $	Total Hours	Total $
Parts					3,012.00
Labor, Body			130.00	53.0	6,890.00
Labor, Refinish				0.0	0.00
Subtotal					**9,902.00**
Sales Tax					0.00
Grand Total					**9,902.00**
Net Total					**9,902.00**

Estimate Version	Total $
Original	9,902.00

T = Taxable Item, RPD = Related Prior Damage, AA = Appearance Allowance, UPD = Unrelated Prior Damage, PDR = Paintless Dent Repair, A/M = Aftermarket, Rechr = Rechromed, Reman = Remanufactured, OEM = New Original Equipment Manufacturer, Recor = Re-cored, RECOND = Reconditioned, LKQ = Like Kind Quality or Used, Diag = Diagnostic, Elec = Electrical, Mech = Mechanical, Ref = Refinish, Struc = Structural

RO Number:

PETERBILT 357

Insurance Total $:	0.00
Received from Insurance $:	0.00
Balance due from Insurance $:	0.00
Customer Total $:	9,902.00
Received from Customer $:	0.00
Balance due from Customer $:	9,902.00

Estimate pricing is only valid for 30 days.

A 5% processing fee will be added to any invoice for a credit card payment over $3,000.

T = Taxable Item, RPD = Related Prior Damage, AA = Appearance Allowance, UPD = Unrelated Prior Damage, PDR = Paintless Dent Repair, A/M = Aftermarket, Rechr = Rechromed, Reman = Remanufactured, OEM = New Original Equipment Manufacturer, Recor = Re-cored, RECOND = Reconditioned, LKQ = Like Kind Quality or Used, Diag = Diagnostic, Elec = Electrical, Mech = Mechanical, Ref = Refinish, Struc = Structural

Fire Service, Inc. - Lake Mills
105 S Industrial Dr
Lake Mills, WI 53551
gwellach@fireserviceinc.com
920-945-0166

Fire Service, Inc.
experienced equipment sales & service professionals

Estimate WI-4053
Date: 3/1/2023

Bill To
Waterloo Fire Department (WI)
900 Industrial Ln.
Waterloo, WI 53594
P: 920-478-2535

Remit Payment To
Fire Service Inc.
9545 North Industrial Drive
Saint John, IN 46373

Service Order	Purchase Order	Authorizer
WI-4053		

Item	Description	Quantity	Rate	Amount
Labor	/ Frame rail rust mitigation.			$5,700.00
Parts	Fluid film, rust prevention coating, application supplies. Extra shop supplies for job			$850.00
			Subtotal	$6,550.00
	Shop Supplies			$285.00

Unit: Tender 95 **VIN:** 1XPALA0X9NN213461
Peterbilt357
Chassis: 113,507 Miles
Engine: 645 Hours

Labor	$5,700.00
Parts	$850.00
Subtotal	$6,835.00
Exempt (0.0000% of $0.00)	$0.00
Total	$6,835.00

*: Core charges not included in total. You will be charged for any core that is not in returnable condition. This charge may be applied on a separate invoice.

The details and the estimate for the repairs provided above are based on our first inspection and do not constitute a guarantee that no further work or parts will be required. The estimate is not a guarantee of the final price of the repairs. The total bill of work and final price will be as per the details available on completion of the repairs. Other terms and conditions as applicable. If you authorize us to perform the above repairs, either verbally or in writing, you agree to pay in full for the work performed and parts required.

Customer Signature:_____

Printed Name:_____ **Date:**_____

PRELIMINARY CONTINUOUS LIGHTING PERMIT APPLICATION

Wisconsin Department of Transportation
DT1878 2/2019 s.84.02(4)(c) Wis. Stats.

State Project Number
N/A

Submit 2 copies to the Regional Office of the Wisconsin Department of Transportation, including:

☒ Completed Preliminary Information Form. Provide additional forms as necessary when there are multiple Roadways and/or Roadway Types.

☒ Engineering drawing of the Roadway Plan, or typical section, showing edge of pavement, curb lines, shoulders, etc.

☒ Catalog cut sheets of the Proposed Poles and Luminaries.

Preliminary Information Form (Provide additional forms as necessary for multiple roadways and/or roadway types)

Highway	Lighting Limits
STH 19 (Madison St)	STH 19 (Madison St) & STH 89 (Monroe St)
Applicant Name and Mailing Address (Must be a Government Unit) City of Waterloo 136 North Monroe Street Waterloo, Wisconsin 53594	Project Electrical Engineer Name, Mailing Address and Telephone KL Engineering, Inc. Jacob Joyal, P.E. 5400 King James Way, Suite 200 Madison, WI 53719 608-663-1218
Maintainer Name, Mailing Address and Telephone Barry Sorenson, Superintendent 575 Commercial Ave Waterloo, WI 53594	Project Lighting Engineer Name, Mailing Address and Telephone KL Engineering, Inc. Jacob Joyal, P.E. 5400 King James Way, Suite 200 Madison, WI 53719 608-663-1218

County	Posted Speed Limit	ADT	Cross Section	Roadway Width
Jefferson	25 mph	4900	Rural X Urban	52 ft

Road Class	Area Class	Pavement Class
☒ Major ☐ Minor Arterial ☐ Collector ☐ Other	☒ Commercial ☐ Residential ☐ Intermediate	☐ R1 ☒ R3 ☐ R2 ☐ R4

Based on Roadway information above, provide Design Criteria Values in accordance with AASHTO 2018 Roadway Lighting Guide, Table 3-5a.

Luminaire Description	IES Distribution and BUG Rating	Mounting Height Above Pavement	Watts/Source	Initial Lumens	LLF
PRMD2-72L-335-3K7-2	II B2-U3-G2	24'	75	8,671	0.85

Target Illuminance Values		**Target Luminance Values** (If applicable. See Design Requirements in TGM 11-10-1)		
Average	Uniformity	Average	Veiling Luminance Ratio	Uniformity
1.40 FC	3.0:1 Ave/Min	N/A cd/m sq	N/A Lv(max)/Lavg	N/A Ave/Min N/A Max/Min

The designated applicant applies to the Wisconsin Department of Transportation, Division of Transportation System Development for permission to begin the design to install, operate and maintain, or to contract for the installation, operation and maintenance of highway lighting units within the limits of the right of way of the state trunk highway, all as described above.

The applicant certifies that the Lighting Engineer has explained the WisDOT Lighting Requirements.

The undersigned certifies that s/he is authorized to sign this application on behalf of the designated applicant.

x _____ 5/31/23 Clerk

(Applicant Signature) (Date) (Title)

Applicant: Do Not Write Below This Line

PRELIMINARY PERMIT APPROVAL

Permission is granted to the above applicant to begin the design to install, operate and maintain highway lighting units and associated power lines and poles as described in this application and the attached drawings and specifications, subject to the conditions on the following page of this application.

CONTINUOUS LIGHTING

Permit Number	Date Issued – m/d/yyyy	Approved for Division of Transportation System Development
		X

(Signature)

Highway Lighting Installation Permit Conditions

1. The installation, including all wiring, supports, equipment, roadway clearance, etc., shall be in accordance with pertinent statutes, codes, and regulations as well as good trade and engineering practice, and shall be properly maintained.
2. The installation, operation, and maintenance of the highway lighting facilities shall be at the expense of the permittee. Alterations in any part of the installation as are required at any time by the Wisconsin Department of Transportation shall be made by the permittee at his/her own expense within 60 days.
3. Construction and maintenance operations shall be performed without closing the highway to traffic except as may be specifically authorized by authorized representatives of the governmental agency maintaining the highway. Unless otherwise authorized, two-way traffic shall be maintained at all times. Proper barricades, signs, flags, lights, and flagpersons shall be provided and maintained at all locations in accordance with the Manual on uniform Traffic Control Devices.
4. The permittee shall not interfere with the normal use of the adjoining land by the owners in the installation, alteration, maintenance, or removal of the facilities authorized by this permit.
5. A concrete base, if used, shall not extend more than four (4) inches above ground level at any point.
6. The highway lighting facilities installed by authority of this permit may be removed by the permittee, following 30 days written notice to the Wisconsin Department of Transportation, but such removal shall be subject to the conditions governing the installation of the lighting and associated electric power lines.
7. Any excavations necessitated by the proposed work shall be effectively backfilled and subsequent settlements after backfilling repaired to the satisfaction of the highway authority. Roadway surfaces, pavements, structures, vegetation, or other highway facilities damaged shall be repaired or restored to the satisfaction of the highway authority. Temporary sheeting and shoring shall be used as necessary to prevent soil caving in any trenches and tunnels.
8. Following any work on the highway right of way incident to an installation, alteration, or removal under this permit, the permittee shall restore the right of way to its condition previous to the work by the permittee, said restoration to meet with the approval of the Wisconsin Department of Transportation.
9. No trees or shrubs shall be cut, trimmed, or branches cut or broken in the construction or maintenance of the line without the consent of the owner of the trees or shrubs.
10. Any brush, trash, waste, or rubbish resulting from construction or maintenance of the line shall be removed from the highway right of way.
11. All wood and debris from any elm trees or other diseased trees which have been trimmed in performance of the work permitted under this permit shall be disposed of in accordance with approved Wisconsin Department of Transportation's procedure, a copy of which may be obtained from the approving district office.
12. The permittee shall immediately notify the district office when the installation has been completed.
13. Any special provisions attached shall be considered as part of this permit.

    ☒ Special Provisions are attached, please explain:

    None

FINAL CONTINUOUS LIGHTING PERMIT APPLICATION

DT1879 10/2013 s.84.02(4)(c) Wis. Stats.

Wisconsin Department of Transportation

State Project Number
N/A

Submit 2 copies to the Regional Office of the Wisconsin Department of Transportation, including:

- ☒ Copy of Preliminary Highway Lighting Permit Application.
- ☒ Completed Final Information Form. Provide additional forms as necessary when there are multiple Roadways and/or Roadway Types.
- ☒ Engineering Drawings of the completed Roadway Plan, showing, edge of pavement, curb lines, shoulders, etc., along with location and placement of poles and luminaries, power source, wiring, luminaries, junction boxes and all items described in the Permitted Lighting Guidelines.
- ☒ Catalog cut sheets of the Proposed Poles and Luminaries.
- ☒ Voltage Drop Calculations
- ☒ Computer design computations as described in the Permitted Lighting Guidelines.
- ☒ Specifications and related documents.

Project Location (Provide additional forms as necessary for multiple roadways and/or roadway types)

Highway	Lighting Limits
STH 19 (Madison St)	STH 19 (Madison St) & STH 89 (Monroe St)

Final Information Form (Provide additional forms as necessary for multiple roadways and/or roadway types)

Calculated Values

Pole Quantity	Material and Class	Mast Arm Length	Base Type	Wiring
1	Aluminum	8'	☐ Breakaway ☒ Bolt Down ☐ Direct Bury	☐ Overhead ☒ Underground

Luminaire Quantity	IES Distribution and BUG Rating	Luminaire Mounting Height Above Pavement	Watts/Source	Initial Lumens	Light Loss Factor
1	II B2-U3-G2	24'	75	8,671	0.85

Illuminance Values		Luminance Values			
Average	Uniformity	Average	Veiling Luminance Ratio	Uniformity	
1.40 FC	3.0:1 Ave/Min	N/A cd/m sq	N/A Lv(max)/Lavg	N/A Ave/Min	N/A Max/Min

The designated applicant applies to the Wisconsin Department of Transportation, Division of Transportation System Development for permission to install, operate and maintain, or to contract for the installation, operation and maintenance of highway lighting units within the limits of the right of way of the state trunk highway, all as described above.

The applicant certifies that if the proposed lighting is located in another unit of government, written consent has been obtained as required by Wisconsin Statutes from the other unit of government in which the proposed lighting units and associated power line extensions are located, and that such consent is currently valid and covers all of the proposed work.

The undersigned certifies that s/he is authorized to sign this application on behalf of the designated applicant.

X Jane Ritter 5-31-23 Clerk

(Applicant) (Date) (Title)

The Lighting Engineer certifies that the design meets all the Roadway Lighting Design Criteria described in the Permitted Lighting Guidelines.

X 5/30/23 LIGHTING ENGINEER

(Engineer) (Date) (Title)

Applicant: Do Not Write Below This Line

FINAL PERMIT APPROVAL

Permission is granted to the above applicant to install, operate and maintain highway lighting units and associated power lines and poles as described in this application and the attached drawings and specifications, subject to the conditions on the following page of this application.

CONTINUOUS LIGHTING

Permit Number	Date Issued	Approved for Division of Transportation System Development
		X _____ (Signature)

Highway Lighting Installation Permit Conditions

1. The installation, including all wiring, supports, equipment, roadway clearance, etc., shall be in accordance with pertinent statutes, codes, and regulations as well as good trade and engineering practice, and shall be properly maintained.
2. The installation, operation, and maintenance of the highway lighting facilities shall be at the expense of the permittee. Alterations in any part of the installation as are required at any time by the Wisconsin Department of Transportation shall be made by the permittee at his/her own expense within 60 days.
3. Construction and maintenance operations shall be performed without closing the highway to traffic except as may be specifically authorized by authorized representatives of the governmental agency maintaining the highway. Unless otherwise authorized, two-way traffic shall be maintained at all times. Proper barricades, signs, flags, lights, and flagpersons shall be provided and maintained at all locations in accordance with the Manual on uniform Traffic Control Devices.
4. The permittee shall not interfere with the normal use of the adjoining land by the owners in the installation, alteration, maintenance, or removal of the facilities authorized by this permit.
5. A concrete base, if used, shall not extend more than four (4) inches above ground level at any point.
6. The highway lighting facilities installed by authority of this permit may be removed by the permittee, following 30 days written notice to the Wisconsin Department of Transportation, but such removal shall be subject to the conditions governing the installation of the lighting and associated electric power lines.
7. Any excavations necessitated by the proposed work shall be effectively backfilled and subsequent settlements after backfilling repaired to the satisfaction of the highway authority. Roadway surfaces, pavements, structures, vegetation, or other highway facilities damaged shall be repaired or restored to the satisfaction of the highway authority. Temporary sheeting and shoring shall be used as necessary to prevent soil caving in any trenches and tunnels.
8. Following any work on the highway right of way incident to an installation, alteration, or removal under this permit, the permittee shall restore the right of way to its condition previous to the work by the permittee, said restoration to meet with the approval of the Wisconsin Department of Transportation.
9. No trees or shrubs shall be cut, trimmed, or branches cut or broken in the construction or maintenance of the line without the consent of the owner of the trees or shrubs.
10. Any brush, trash, waste, or rubbish resulting from construction or maintenance of the line shall be removed from the highway right of way.
11. All wood and debris from any elm trees or other diseased trees which have been trimmed in performance of the work permitted under this permit shall be disposed of in accordance with approved Wisconsin Department of Transportation's procedure, a copy of which may be obtained from the approving district office.
12. The permittee shall immediately notify the district office when the installation has been completed.
13. Any special provisions attached shall be considered as part of this permit.

☒ Special Provisions are attached, please explain:

None

KL Engineering
[A] Better Experience

5/26/23

STREET LIGHTING: ILLUMINATION CRITERIA

Project Information

County: Jefferson

Highway: STH 19

Lighting Limits: Intersection of STH 19 (E Madison St) & STH 89 (N Monroe St)

Intersection Class: Major/Collector

Area Class: Commercial

Ped Conflicts: Low

Pavement Class: R3

Design Criteria Values

Luminaire Type	Luminaire Description	IES Distribution & BUG Rating	Mounting Height	Watts	Lumens	LLF
Existing Decorative Pendant	AAL Promenade: PRMD-T3-48LED-3K-700	III B2-U0-G2	24'	112 W	6,128	.85
Proposed Decorative Pendant	AAL Promenade: PRMD2-72L-335-3K7-2	II B2-U3-G2	24'	75.5 W	8,671	.85

Target Illuminance

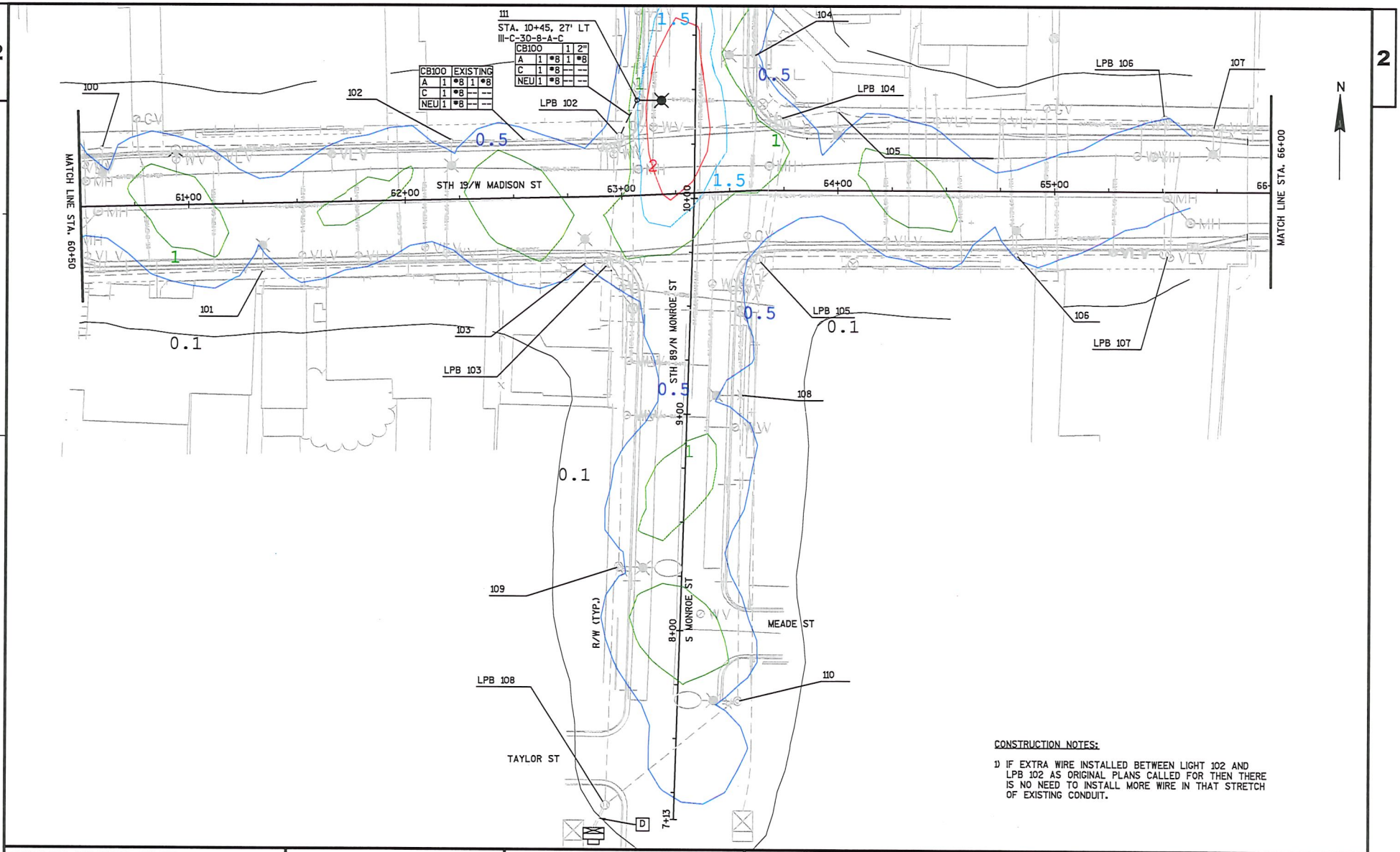
Average: 1.4 fc

Uniformity: 3.0:1

*Values based on IES RP-8-21 – Full Intersection Lighting (Major/Collector, Low Ped)

Results Summary From AGi 32

Madison/Monroe Intersection			
Visual Output	**Target**	**Existing**	**Proposed**
Average (fc)	1.4	0.87	1.27
		62%	91%
Average/Min	3.0:1	2.18:1	3.02
Min	0.50	0.4	0.42



CONSTRUCTION NOTES:

1) IF EXTRA WIRE INSTALLED BETWEEN LIGHT 102 AND LPB 102 AS ORIGINAL PLANS CALLED FOR THEN THERE IS NO NEED TO INSTALL MORE WIRE IN THAT STRETCH OF EXISTING CONDUIT.

PROJECT NO: 3050-02-72	HWY: STH 19	COUNTY: JEFFERSON	LIGHTING PLAN	SHEET	E

FILE NAME : G:\KUNKEL\22116 - WATERLOO_STH 19\CIVIL 3D\SHEETS PLAN\023601_LP.DWG PLOT DATE : 5/30/2023 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

architectural arealighting

PRMD

DECORATIVE & POST TOP

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

FEATURES

- Reliable, uniform, glare free illumination
- Types 1, 2, 3, 4W, 5Q, and 5W distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral surge suppression
- Upgrade Kits

See Certification Specifications

PROMENADE

Promenade PRMD2

SPECIFICATIONS

CONSTRUCTION

- All housing components aluminum 360 alloy, sealed with continuous silicone rubber gaskets
- Standard configurations do not require a flat lens, optional lenses is tempered glass
- All internal and external hardware is stainless steel
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat
- Optical bezel finish is match the luminaire housing

LED/OPTICS

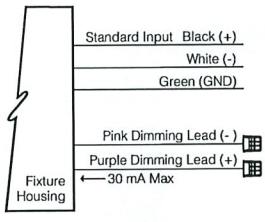
- Optical cartridge system consisting of a die cast heat sink, LED engine, TIR optics, gasket and bezel plate
- Cartridge is easily disassembled to replace components. Optics are held in place without the use of adhesives
- Molded silicone gasket ensures a weather-proof seal around each individual LED
- Features revolutionary individual LED optical control based on high performance TIR optical designs
- House Side Shield is available on Standard and Clear Lens options except any Type 5 distribution. House Side Shield is not available for any distribution using a Diffused Lens

INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

ELECTRICAL

- Luminaires have integral surge protection, UL recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J
- Drivers are UL recognized with an inrush current maximum of <20.0 Amps maximum at 230VAC
- 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control



- Driver and surge suppressor are mounted to a prewired tray with quick disconnects that may be removed from the gear compartment

CERTIFICATIONS

- ETL listed under UL 1598 and CSA C22.2 No. 250.0-08 for wet locations
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020

WARRANTY

- 5 year warranty

KEY DATA	
LUMEN RANGE	5,800-18,500
WATTAGE RANGE	50-159
EFFICACY RANGE (LPW)	95-142
INPUT CURRENT RANGE (mA)	225-700 mA
WEIGHT	34 lbs/15.4 kg
EPA	1.19

architectural arealighting

PRMD

DECORATIVE & POST TOP

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ORDERING GUIDE

Example: PRMD2-72L-345-5K7-4W-BL-TRA2M-CL-HS-AD5-UNV

CATALOG #

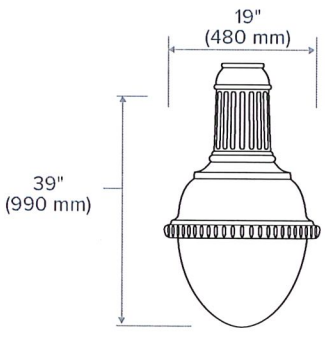
HOUSING

PRMD2

Housing		LED Quantity		Lumen output		CCT/CRI		Distribution		Finish	
PRMD2	Promenade	72L	72 LED	~~225~~	~~445mA, MicroCore Equivalent~~	~~AMB~~	~~Amber 595nm Peak~~[1]	1	Type I	BLS	Black Gloss Smooth
				335	335mA, 8,500 lumens	3K7	3000K, 70 CRI	2	Type II	BLT	Black Matte Textured
				~~345~~	~~700mA, MicroCore Equivalent~~	4K7	4000K, 70 CRI	3	Type III	DBS	Dark Bronze Gloss Smooth
				500	500mA, 12,000 lumens	5K7	5000K, 70 CRI	4W	Type IV Wide	DBT	Dark Bronze Matte Textured
				700	700mA, 16,000 Lumens			5Q	Type V Square	~~GTT~~	~~Graphite Matte Textured~~
								5W	Type V Wide	LGS	Light Grey Gloss Smooth
										~~LGT~~	~~Light Grey Matte Textured~~
										PSS	Platinum Silver Gloss Smooth
										VGT	Verde Green Matte Textured
										WHS	White Gloss Smooth
										WHT	White Matte Textured
										Color Option	
										CC [2]	Custom Color

Mounting	Optional Lens	Options	Voltage
Pole Mount Arms	DL Diffused Lens	HS House Side Shield	UNV 120-277V
Bolts to a 4"/100mm DIA. or 5"/125mm DIA. pole		FTG Flat Glass Lens	
TRA2M TRA2L		VSR Visor	
TRA5D TRA6D		SF Single Fuse (120,277)	
SLA8D SLA22DL		DF Double Fuse (208,240)	
SLA3 (4"/100mm DIA. poles only)			
Slips over a 4"/100mm DIA. pole or tenon			
TRA4 TRA4-2			
TRA7 TRA7-2			
TRA8 TRA8-2			
TRA9 TRA9-2			
SLA4 SLA4-2			
SLA9			
Slips over a 4"/100mm DIA. pole or tenon			
SLA7 SLA7-2			
SLA17 SLA17-2			
Wall Mount			
WMA2M WMA2L			
WMA35D WMA36D			
WMA37 WMA38			
WMA39 WMA4			
WMA6 WMA8			
WMA9D WMA10			
WMA11 WMA12			
WMA16 WMA17			
WMA18 WMA22D			
Other Mounting			
MAT Cast adapter to side mount to a 2 3/8" 61mm DIA.mast arm			
PMS Pendant mount with 48"1220 stem, canopy and swivel			
PMC Pendant mount with 48"/1220mm of brass chain in fixture finish			

DIMENSIONS



Notes:

1 Turtle Friendly

2 Consult factory for custom color, marine and corrosive finish options

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PRMD

DECORATIVE & POST TOP

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CATALOG #:

DELIVERED LUMENS

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

LUMINAIRE PERFORMANCE – CLEAR LENS

LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)
72	225	Microcore Equivalent	Clear Lens	1	6643	1	3	1	132.9	6861	1	3	1	137.2	7118	1	3	2	142.4
				2	6097	1	3	2	121.9	6298	1	3	2	126.0	6534	1	3	2	130.7
				3	6017	1	3	2	120.3	6215	1	3	2	124.3	6448	1	3	2	129.0
				4W	5939	1	3	2	118.8	6134	1	3	2	122.7	6364	1	3	3	127.3
				1-HS	3935	0	3	1	78.7	4064	0	3	1	81.3	4216	0	3	1	84.3
				2-HS	3134	0	3	1	62.7	3237	0	3	1	64.7	3358	0	3	1	67.2
				3-HS	3079	0	3	1	61.6	3180	0	3	1	63.6	3299	0	3	1	66.0
				4W-HS	2816	0	3	1	56.3	2909	0	3	1	58.2	3018	0	3	1	60.4
				5Q	6383	2	3	1	127.7	6593	2	3	1	131.9	6840	2	3	1	136.8
				5W	5813	3	3	2	116.3	6004	3	3	2	120.1	6229	3	3	2	124.6
	335	8500		1	9447	1	3	2	125.2	9758	1	3	2	129.3	10123	1	3	2	133.4
				2	8671	2	3	2	114.9	8957	2	3	2	118.7	9292	2	3	2	122.4
				3	8557	2	3	2	113.4	8839	2	3	2	117.1	9170	2	3	2	121.5
				4W	8445	1	3	3	111.9	8723	1	3	3	115.6	9050	1	3	3	120.2
				1-HS	5595	1	3	1	74.2	5780	1	3	1	76.6	5996	1	3	1	79.4
				2-HS	4457	1	3	1	59.1	4604	1	3	1	61.0	4776	1	3	1	63.2
				3-HS	4379	1	3	1	58.0	4523	1	3	1	59.9	4692	1	3	1	62.1
				4W-HS	4005	1	3	1	53.1	4137	1	3	1	54.8	4292	1	3	1	57.3
				5Q	9077	3	3	2	120.3	9376	3	3	2	124.3	9727	3	3	2	129.2
				5W	8266	3	3	2	109.5	8538	3	3	2	113.2	8858	3	3	2	117.6
	345	Microcore Equivalent		1	9649	1	3	2	124.0	9966	1	3	2	128.1	10339	1	3	2	132.9
				2	8857	2	3	2	113.8	9148	2	3	2	117.6	9491	2	3	2	122.0
				3	8740	2	3	2	112.3	9028	2	3	2	116.0	9366	2	3	2	120.4
				4W	8626	1	3	3	110.9	8910	1	3	3	114.5	9243	1	3	3	118.8
				1-HS	5715	1	3	1	73.5	5903	1	3	1	75.9	6124	1	3	1	78.7
				2-HS	4552	1	3	1	58.5	4702	1	3	1	60.4	4878	1	3	1	62.7
				3-HS	4472	1	3	1	57.5	4619	1	3	1	59.4	4792	1	3	1	61.6
				4W-HS	4091	1	3	1	52.6	4225	1	3	1	54.3	4384	1	3	1	56.3
				5Q	9271	3	3	2	119.2	9576	3	3	2	123.1	9935	3	3	2	127.7
				5W	8443	3	3	2	108.5	8721	3	3	2	112.1	9047	3	3	2	116.3
	500	12,000		1	13320	2	3	2	115.8	13758	2	3	2	119.6	14273	2	3	2	124.1
				2	12227	2	3	2	106.3	12629	2	3	3	109.8	13102	2	3	3	113.9
				3	12066	2	3	3	104.9	12463	2	3	3	108.4	12930	2	3	3	112.4
				4W	11908	2	3	3	103.5	12300	2	3	3	107.0	12761	2	3	3	111.0
				1-HS	7890	1	3	2	68.6	8149	1	3	2	70.9	8454	1	3	2	73.5
				2-HS	6284	1	3	1	54.6	6491	1	3	1	56.4	6734	1	3	1	58.6
				3-HS	6174	1	3	2	53.7	6377	1	3	2	55.5	6616	1	3	2	57.5
				4W-HS	5647	1	3	2	49.1	5833	1	3	2	50.7	6052	1	3	2	52.6
				5Q	12799	3	3	2	111.3	13220	3	3	2	115.0	13715	3	3	2	119.3
				5W	11655	4	3	3	101.4	12039	4	3	3	104.7	12490	4	3	3	108.6
	700	16,000		1	17334	2	3	3	108.6	17904	2	3	3	112.2	18575	2	3	3	116.4
				2	15911	3	3	3	99.7	16434	3	3	3	103.0	17050	3	3	3	106.8
				3	15702	2	3	3	98.4	16219	2	3	3	101.6	16826	3	3	3	105.8
				4W	15497	2	3	4	97.1	16006	2	3	4	100.3	16606	2	3	4	104.0
				1-HS	10267	1	3	2	64.3	10605	1	3	2	66.4	11002	1	3	2	68.9
				2-HS	8178	1	3	2	51.2	8447	1	3	2	52.9	8763	1	3	2	54.9
				3-HS	8034	1	3	2	50.3	8299	1	3	2	52.0	8609	1	3	2	53.9
				4W-HS	7349	1	3	2	46.0	7591	1	3	2	47.6	7875	1	3	2	49.3
				5Q	16656	3	3	2	104.4	17204	4	3	3	107.8	17848	4	3	3	111.8
				5W	15168	4	3	3	95.0	15667	4	3	3	98.2	16254	4	3	3	101.8

DATE: | LOCATION:

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CATALOG #:

DELIVERED LUMENS

LUMINAIRE PERFORMANCE – FLAT GLASS LENS

LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)
72	225	Microcore Equivalent	Flat Glass Lens	1	5768	1	0	1	115.4	5957	1	0	1	119.1	6182	1	0	1	123.6
				2	5293	1	0	1	105.9	5468	1	0	1	109.4	5673	1	0	1	113.5
				3	5220	1	0	2	104.4	5392	1	0	2	107.8	5593	1	0	2	111.9
				4W	5149	1	0	2	103.0	5318	1	0	2	106.4	5517	1	0	2	110.3
				1-HS	3416	0	0	1	68.3	3529	0	0	1	70.6	3660	0	0	1	73.2
				2-HS	2723	0	0	1	54.5	2812	0	0	1	56.2	2917	0	0	1	58.3
				3-HS	2674	0	0	1	53.5	2761	0	0	1	55.2	2865	0	0	1	57.3
				4W-HS	2445	0	0	1	48.9	2526	0	0	1	50.5	2620	0	0	1	52.4
				5Q	5538	2	0	1	110.8	5720	2	0	1	114.4	5934	2	0	1	118.7
				5W	5041	3	0	1	100.8	5207	3	0	1	104.1	5402	3	0	1	108.0
	335	8,500		1	8203	1	0	1	108.7	8472	1	0	1	112.3	8790	1	0	2	116.5
				2	7527	2	0	2	99.7	7775	2	0	2	103.0	8067	2	0	2	106.9
				3	7674	1	0	2	101.7	7928	1	0	2	105.1	8224	1	0	2	109.0
				4W	7322	1	0	3	97.0	7563	1	0	3	100.2	7846	1	0	3	104.0
				1-HS	4858	1	0	1	64.4	5018	1	0	1	66.5	5206	1	0	1	69.0
				2-HS	3872	0	0	1	51.3	3999	1	0	1	53.0	4149	1	0	1	55.0
				3-HS	3802	1	0	2	50.4	3927	1	0	1	52.0	4075	1	0	1	54.0
				4W-HS	3478	1	0	1	46.1	3592	1	0	1	47.6	3727	1	0	1	49.4
				5Q	7876	3	0	1	104.4	8135	3	0	1	107.8	8439	3	0	1	111.8
				5W	7169	3	0	2	95.0	7405	3	0	2	98.1	7683	3	0	2	101.8
	345	Microcore Equivalent		1	8378	1	0	1	107.7	8654	1	0	1	111.2	8978	1	0	2	115.4
				2	7689	2	0	2	98.8	7942	2	0	2	102.1	8239	2	0	2	105.9
				3	7582	1	0	2	97.5	7831	1	0	2	100.7	8125	2	0	2	104.4
				4W	7478	1	0	3	96.1	7725	1	0	3	99.3	8014	1	0	3	103.0
				1-HS	4962	1	0	1	63.8	5125	1	0	1	65.9	5318	1	0	1	68.4
				2-HS	3955	1	0	1	50.8	4085	1	0	1	52.5	4238	1	0	1	54.5
				3-HS	3883	1	0	1	49.9	4011	1	0	1	51.6	4162	1	0	1	53.5
				4W-HS	3552	1	0	1	45.7	3669	1	0	1	47.2	3806	1	0	1	48.9
				5Q	8044	3	0	1	103.4	8309	3	0	1	106.8	8620	3	0	1	110.8
				5W	7323	3	0	2	94.1	7564	3	0	2	97.2	7847	3	0	2	100.9
	500	12,000		1	11566	1	0	2	100.6	11947	1	0	2	103.9	12394	1	0	2	107.8
				2	10615	2	0	2	92.3	10963	2	0	2	95.3	11374	2	0	2	98.9
				3	10822	2	0	2	94.1	11177	2	0	2	97.2	11596	2	0	2	100.8
				4W	10324	2	0	3	89.8	10664	2	0	3	92.7	11063	2	0	3	96.2
				1-HS	6850	1	0	1	59.6	7076	1	0	1	61.5	7340	1	0	1	63.8
				2-HS	5459	1	0	1	47.5	5639	1	0	1	49.0	5850	1	0	1	50.9
				3-HS	5361	1	0	1	46.6	5538	1	0	1	48.2	5745	1	0	1	50.0
				4W-HS	4903	1	0	1	42.6	5065	1	0	1	44.0	5254	1	0	1	45.7
				5Q	11105	3	0	2	96.6	11470	3	0	2	99.7	11899	3	0	2	103.5
				5W	10109	3	0	2	87.9	10441	3	0	2	90.8	10832	4	0	2	94.2
	700	16,000		1	15052	2	0	2	94.3	15547	2	0	2	97.4	16128	2	0	2	101.1
				2	13812	2	0	2	86.5	14267	2	0	2	89.4	14801	3	0	3	92.7
				3	14083	2	0	2	88.2	14545	2	0	2	91.1	15090	2	0	2	94.3
				4W	13435	2	0	3	84.2	13877	2	0	3	86.9	14397	2	0	4	90.2
				1-HS	8915	1	0	1	55.9	9208	1	0	1	57.7	9553	1	0	1	59.9
				2-HS	7105	1	0	1	44.5	7339	1	0	1	46.0	7614	1	0	1	47.7
				3-HS	6977	1	0	2	43.7	7207	1	0	1	45.2	7476	1	0	2	46.8
				4W-HS	6380	1	0	2	40.0	6591	1	0	2	41.3	6837	1	0	2	42.8
				5Q	14451	3	0	2	90.5	14926	3	0	2	93.5	15485	3	0	2	97.0
				5W	13155	4	0	3	82.4	13588	4	0	3	85.1	14097	4	0	3	88.3

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DELIVERED LUMENS

LUMINAIRE PERFORMANCE – DIFFUSED DROP LENS

LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)
72	225	Microcore Equivalent	Diffused Drop Lens	3	5186	1	3	3	103.7	5357	1	3	3	107.1	5558	1	3	3	111.2
				5W	5010	2	3	2	100.2	5175	2	3	2	103.5	5368	2	3	3	107.4
	335	8,500		3	7376	2	3	3	97.7	7618	2	3	3	100.9	7904	2	3	3	104.7
				5W	7125	3	3	3	94.4	7359	3	3	3	97.5	7635	3	3	3	101.1
	345	Microcore Equivalent		3	7533	2	3	3	96.8	7781	2	3	3	100.0	8073	2	3	3	103.8
				5W	7277	3	3	3	93.5	7516	3	3	3	96.6	7798	3	3	3	100.2
	500	12,000		3	10400	2	4	4	90.4	10742	2	4	4	93.4	11144	2	4	4	96.9
				5W	10046	3	3	3	87.4	10376	3	4	3	90.2	10765	3	4	3	93.6
	700	16,000		3	13637	3	4	5	85.4	14085	3	4	5	88.2	14613	3	4	5	91.5
				5W	12973	3	4	4	81.3	13400	3	4	4	83.9	13902	3	4	4	87.1

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PHOTOMETRY

PRMD2-72L-700-4K7-1

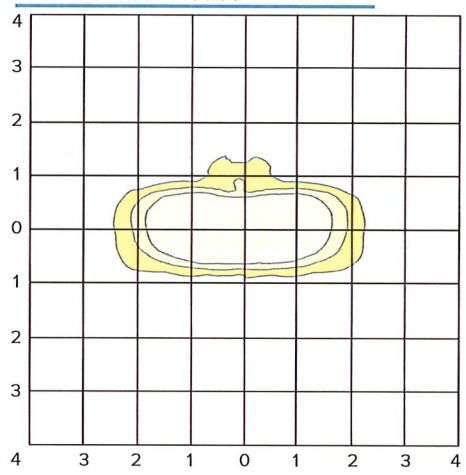
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**17904**
Watts	**159.6**
Efficacy	**112.2**
IES Type	**I**
BUG Rating	**B2-U3-G3**
Mounting Height	**30 ft**
Grid Scale	**30 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	14466	81%
Downward House Side	2829	16%
Downward Total	17295	97%
Upward Street Side	180	1%
Upward House Side	429	2%
Upward Total	609	3%
Total Flux	17904	100%

ISOFOOT CANDLE PLOT



30' Mounting Height

1.0 FC
0.5 FC
0.2 FC

PRMD2-72L-700-4K7-3

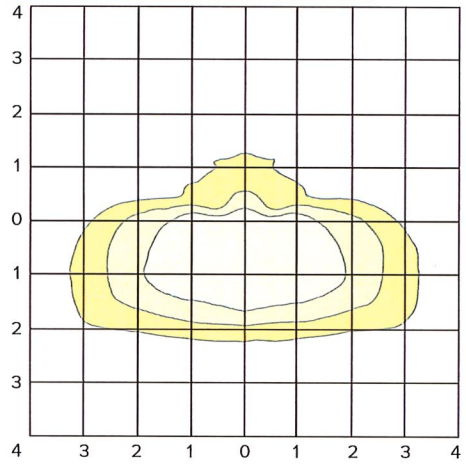
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**16219**
Watts	**159.6**
Efficacy	**101.6**
IES Type	**III**
BUG Rating	**B2-U3-G3**
Mounting Height	**30 ft**
Grid Scale	**30 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	12576	77%
Downward House Side	3313	20%
Downward Total	15889	97%
Upward Street Side	180	1%
Upward House Side	365	2%
Upward Total	545	3%
Total Flux	16434	100%

ISOFOOT CANDLE PLOT



30' Mounting Height

1.0 FC
0.5 FC
0.2 FC

PRMD2-72L-700-4K7-5Q

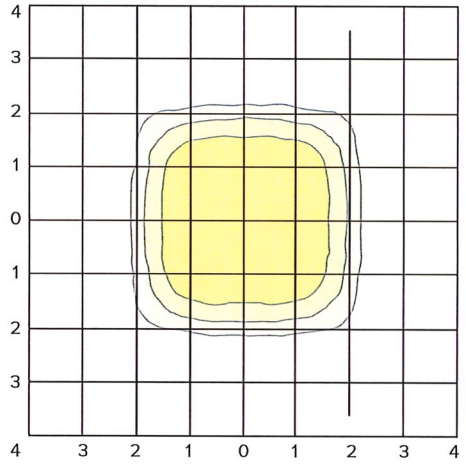
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**17204**
Watts	**159.6**
Efficacy	**107.8**
IES Type	**VS**
BUG Rating	**B4-U3-G3**
Mounting Height	**30 ft**
Grid Scale	**30 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	12769	79%
Downward House Side	2912	18%
Downward Total	15681	97%
Upward Street Side	161	1%
Upward House Side	377	2%
Upward Total	538	3%
Total Flux	16219	100%

ISOFOOT CANDLE PLOT



30' Mounting Height

1.0 FC
0.5 FC
0.2 FC

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PRMD

DECORATIVE & POST TOP

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

PHOTOMETRY

PRMD2-72L-700-4K7-2

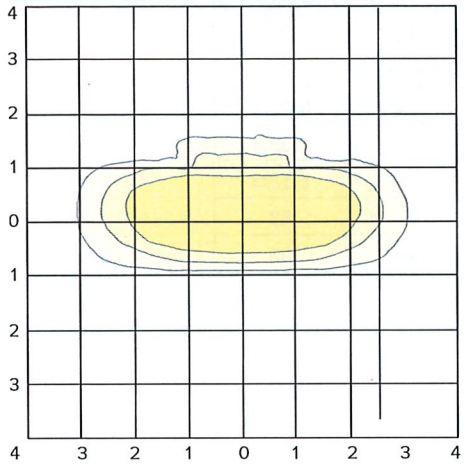
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**15979**
Watts	**159.1**
Efficacy	**100.4**
IES Type	**II**
BUG Rating	**B3-U4-G3**
Mounting Height	**30 ft**
Grid Scale	**30 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	13182	82%
Downward House Side	2292	14%
Downward Total	15474	97%
Upward Street Side	141	1%
Upward House Side	391	2%
Upward Total	532	3%
Total Flux	16006	100%

ISOFOOT CANDLE PLOT



30' Mounting Height

1.0 FC
0.5 FC
0.2 FC

PRMD2-72L-700-4K7-4

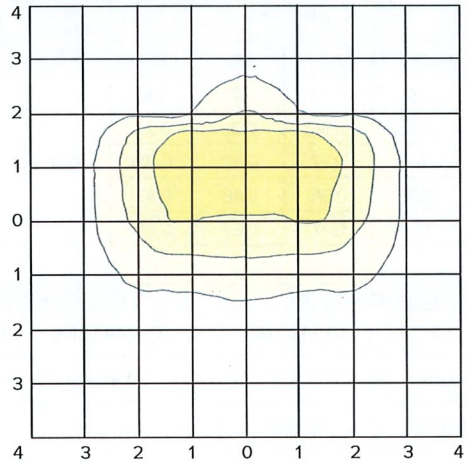
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**15625**
Watts	**159.1**
Efficacy	**98.2**
IES Type	**IV**
BUG Rating	**B3-U3-G3**
Mounting Height	**30 ft**
Grid Scale	**30 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8309	48.3%
Downward House Side	8309	48.3%
Downward Total	16618	96.6%
Upward Street Side	293	1.7%
Upward House Side	293	1.7%
Upward Total	586	3.4%
Total Flux	17204	100%

ISOFOOT CANDLE PLOT



30' Mounting Height

1.0 FC
0.5 FC
0.2 FC

PRMD2-72L-700-4K7-5W

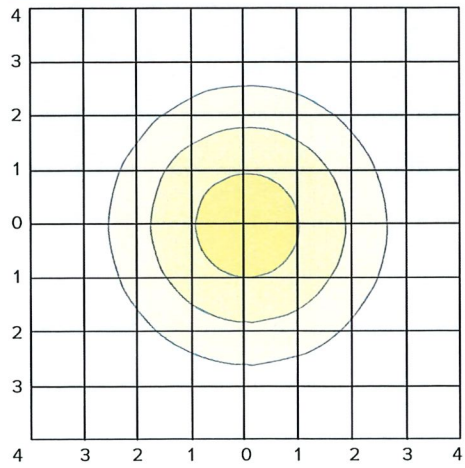
LUMINAIRE DATA

Description	**4000 Kelvin, 70CRI**
Delivered Lumens	**15365**
Watts	**159.1**
Efficacy	**97**
IES Type	**VS**
BUG Rating	**B4-U3-G2**
Mounting Height	**30 ft**
Grid Scale	**30 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	7573	48.3%
Downward House Side	7573	48.3%
Downward Total	15146	96.7%
Upward Street Side	260	1.7%
Upward House Side	260	1.7%
Upward Total	520	3.3%
Total Flux	15667	100%

ISOFOOT CANDLE PLOT



30' Mounting Height

1.0 FC
0.5 FC
0.2 FC

architectural arealighting

PRMD

DECORATIVE & POST TOP

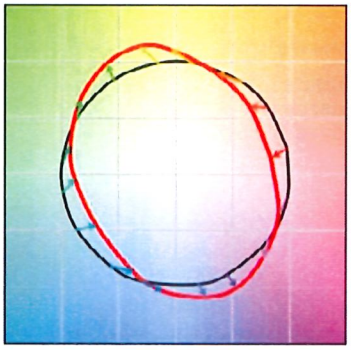
DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

TM-30 DATA

COLOR VECTOR GRAPHIC



Reference Illuminant — Test Source

TEST SOURCE

MBM TEST RESULTS	
CCT (K)	3947
CIE Ra	72
Duv	0.0004
x	0.3831
y	0.3793
Rf	68
Rg	99

ELECTRICAL DATA

Electrical											Dimming				
Light Engine	System Watts	System Current	Line Voltage		Amps AC				Min. Power Factor	Max THD (%)	Dimming Range	Source current out of 0-10V		Absolute voltage range on 0-10V (+)	
			VAC	HZ	120	208	240	277				Min	Max	Min	Max
72L	50.0	225 mA	120-277	50/60	0.42	0.24	0.21	0.18	>0.9	20	10% to 100%	0mA	1mA	0V	10V
	75.5	335 mA			0.63	0.36	0.31	0.27							
	77.8	345 mA			0.65	0.37	0.32	0.28							
	115.0	500 mA			0.96	0.55	0.48	0.42							
	159.6	700 mA			1.33	0.77	0.67	0.58							

AMBER MULTIPLIER	
CCT	MULTIPLIER
5000K	1
AM	0.1727

2700K MULTIPLIER	
CCT	MULTIPLIER
5000K	1
2700K	0.897

LENS OPTION MULTIPLIER	
CLEAR LENS	DIFFUSED LENS
0.9032	0.8619

VOLTAGE DROP CALCULATOR - LUMINAIRE CIRCUITS - 120V PHASE TO GROUND

PROJECT: 3050-02-72
Service Location: station 18+25 LT - CB100 - WisDOT

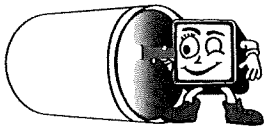
TOTAL AMPS ON SERVICE	5.29

Circuit Descriptions:

LINE A — 19 & 89 - West
LINE B — 19 & 89 - East

CIRCUIT NUMBER:			Line A				0.2		0.31		0.49		0.78	
Lamp Wattage	*X 1.0*	Pole	Watts	Voltage	Amps	Distance	Drop #2	% Drop #2	Drop #4	% Drop #4	Drop #6	% Drop #6	Drop #8	%Drop #8
112	112	109	635	120	**5.29**	125	0.13	0.11	0.21	0.17	0.32	0.27	0.52	0.43
224	224	103	523	120	4.36	160	0.14	0.12	0.22	0.18	0.34	0.28	0.54	0.45
75	75	NEW	299	120	2.49	80	0.04	0.03	0.06	0.05	0.10	0.08	0.16	0.13
112	112	102	224	120	1.87	90	0.03	0.03	0.05	0.04	0.08	0.07	0.13	0.11
112	112	100	112	120	0.93	170	0.03	0.03	0.05	0.04	0.08	0.06	0.12	0.10
				TOTALS	**5.29**	**625.0**	0.38	**0.31**	0.58	**0.49**	0.92	**0.77**	1.47	**1.23**
						END VOLTAGE	119.62		119.42		119.08		118.53	

CIRCUIT NUMBER:			Line B				0.2		0.31		0.49		0.78	
Lamp Wattage	*X 1.0*	Pole	Watts	Voltage	Amps	Distance	Drop #2	% Drop #2	Drop #4	% Drop #4	Drop #6	% Drop #6	Drop #8	%Drop #8
112	112	110	560	120	**4.67**	100	0.09	0.08	0.14	0.12	0.23	0.19	0.36	0.30
224	224	108	448	120	3.73	150	0.11	0.09	0.17	0.14	0.27	0.23	0.44	0.36
112	112	105	224	120	1.87	160	0.06	0.05	0.09	0.08	0.15	0.12	0.23	0.19
112	112	107	112	120	0.93	180	0.03	0.03	0.05	0.04	0.08	0.07	0.13	0.11
				TOTALS	**4.67**	**590.0**	0.30	**0.25**	0.46	**0.39**	0.73	**0.61**	1.16	**0.97**
						END VOLTAGE	119.70		119.54		119.27		118.84	



The Expediters Inc
139 N Main St
Dousman, WI 53118
1-800-657-0879

Invoice

Date	Invoice #
5/11/2023	3555

Bill To

Waterloo Utilities
575 Commercial Ave.
Waterloo, WI 53594

Project

2023 Storm Sewer Televising
E. Madison St.
Waterloo, WI.

P.O. No.
Verbal Chad Y.

Description	Qty	Rate	Amount
Televise 4,298' LF of 12"-30" Storm Sewer	4,298	1.25	5,372.50

Department Approval _____ Date _____
Clerk/Treasurer Approval _____
Vendor Number _____
Acct Dist _____ $ _____
Acct Dist _____ $ _____
Acct Dist _____ $ _____

Terms-Net Upon Receipt

Total $5,372.50

589-19
Street - Storm

City of Waterloo Finance, Insurance & Personnel Committee -- Annual Calendar

revised: 3/27/2021 -- by Committee Chair

☐ **Meeting night: 3rd Thursday of month at 6:00 pm**
☐ **Monthly recurring: review of disbursements, payroll and treasurer's reports**

JANUARY ☐ Review of Department Heads as needed
FEBRUARY ☐ Review of potential closure of Tax Incremental District No. 4
MARCH
APRIL ☐ § 53-12 Review of debt schedules & debt refunding opportunities.
MAY ☐ Addressing items raised in financial audit.
JUNE ☐ Mayor's Budget start date; build Council consensus for budget policy objectives; practice two-year budgeting. ☐ Tax Incremental Finance Districts, review. ☐ Impact Fees, review.
JULY ☐ Addressing items raised in worker compensation audit. ☐ Review and recommend Current Year Budget Amendment #1 (Jan. – June)
AUGUST ☐ Budget deliberation.
SEPTEMBER ☐ § 53-14 Updating capital improvement plan. ☐ Budget deliberation.
OCTOBER ☐ Initial review of calendar year insurance renewal policies. ☐ Final Committee budget recommendation to full City Council. ☐ 2020 Clerk/Treasurer Evaluation, review.
NOVEMBER ☐ Final review of calendar year insurance renewal policies.
DECEMBER ☐ WPPA Contract multi-year contract, renewal (when applicable) ☐ Review and recommend Current Budget Amendment #2 (July – Dec.)