

**DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION
110 WOOD AND GROVE STREETS
MORRISVILLE, PA 19067**

**CONTRACT NO. T-645A
BUILDINGS & FACILITIES ENERGY CONSERVATION MEASURES
ELECTRICAL/LIGHTING**

ADDENDUM NO. 1

This **Addendum No. 1** gives additional information in connection with **Contract No. T-645A** and is hereby made a part of the Contract. This Addendum is to be signed by the Bidder and this **Page AD1-1** is to be attached to the bid proposal.

This Addendum includes pages AD1-1 through AD1-2 and all associated attachments and is hereby accepted and agreed that it shall become part of the Contract No. T-645A Documents.

DATE: _____ (CONTRACTOR'S NAME)

(SEAL)

BY: _____

ATTEST: _____

CLARIFICATIONS TO CONTRACTOR QUESTIONS

Note: The following statements which are in response to contractor questions are hereby made a part of the contract requirements.

1. The bid specs call for a 5 year material warranty and also a 5 year labor warranty. Typically it is 5 material and 1 for labor. Is this accurate as 5 and 5?
Answer: Yes. The warranty language is accurate per the specifications.
2. Will there be a wage determination given, bid specs just say the highest but usually there is a determination given.
Answer: Prevailing wage determination has been listed on our website same place all other related Bids information will be posted <http://www.drjtbc.org/construction-services/notice-to-contractors/>

CHANGES TO THE CONTRACT DRAWINGS

Note: The following drawings as originally issued (as 5/9/17 Bid Set drawings) are modified as indicated below and these revisions are hereby made a part of the contract requirements.

1. DELETE Drawing E001 and INSERT Drawing E-001, dated May 9, 2017, Revised 5/24/17. Revision to section to Allowable Time Frame for Lane Restrictions.
2. DELETE Drawing E801 and INSERT Drawing E-801, dated May 9, 2017, Revised 5/24/17. Revision made to quantities of L11.

CHANGES TO THE TECHNICAL SPECIFICATIONS

Note: The following specifications as originally issued (as 5/9/16 Bid Set specifications) are modified as indicated below and these revisions are hereby made a part of the contract requirements.

1. REVISE TABLE OF CONTENTS, Page 2:
Add the following: "260943 LED EXTERIOR LIGHT CONTROL"

LIST OF ATTACHMENTS

Contract Drawings:

1. E001 - Dated May 9, 2017, Revised 5/24/17
2. E801 - Dated May 9, 2017, Revised 5/24/17

MISSION STATEMENT

1. Project Mission Statement:
- A. To Implement The Energy Conservation Measures (ECMs) Highlighted In An ASHRAE Level 3 Energy Audit Report As Prepared By Joseph Jingly & Son Inc. For The Following Commission Sites:
- District 1
- New Hope Lambertville
Trenton Morrisville
- District 2
- I-78
Easton-Philipsburg
- District 3
- Portland-Columbia
Delaware Water Gap
Milford-Montague
- B. Upon Completion, All Upgrades Will Function Properly And Efficiently As Designed.

PROJECT SCOPE		
SITE	ECM1: LED FACILITY LIGHTING	ECM2: LED ROADWAY LIGHTING
NEW HOPE LAMBERTVILLE	X	X
I-78 TOLL BRIDGE	X	X
EASTON-PHILIPSBURG	X	X
PORTLAND-COLUMBIA	X	X
DELAWARE WATER GAP	X	X
MILFORD-MONTAGUE	X	X
TRENTON-MORRISVILLE		X

SPECIAL EMPHASIS, CONCERNS AND LIMITATIONS

Special Emphasis, Concerns & Limitations

- Communication
 - The Engineer And Commission Shall Be Notified Immediately Upon Discovery Of A Problem Or Conflict. Contractor Shall Promptly Identify One Or More Proposed Solutions But Shall Not Proceed Until So Authorized.
 - Coordinate The Location And Orientations Of All Equipment With Other Trades.
- Construction
 - Submittals (Shop Drawings) Shall Be Provided For Each Piece Of Purchased Equipment. Ensure Thoroughness And Accuracy Of The Submittals. The Contractor Shall Provide A Stamp On The Shop Drawings Stating That They Conform To The Specifications.
 - Long Lead Items Must Be Ordered Promptly To Ensure Timely Deliveries.
 - All Work Must Follow The Proposed Layout Shown In The Construction Drawings.
 - All Work Shall Be Performed During Normal Working Hours Unless Noted Otherwise Elsewhere.
- Contractors' Responsibilities
 - Before Submitting Their Bid, The Contractor Shall Visit The Job Site And Examine And Fully Acquaint Themselves With The Existing Job Conditions.
 - The Contractor Shall Furnish And Install All Supports, Hangers, Boxes, As Required, And Shall Perform Demolition And Modification Work As Required, To Make A Complete And Operable System Without Additional Cost To Owner.
 - Contractor Shall Coordinate His Work With Field Conditions.
 - Any Work By Any Party As A Result Of Failure To Familiarize Himself Or Coordinate Work Is The Responsibility Of The Contractor And Shall Be Provided At No Cost To The Owner.
 - Make Final Connections For Complete And Operational Building Upon Completion.
 - Make Every Attempt To Ensure Thoroughness And Accuracy Of The Submittals. If Shop Drawings Are Not Approved Following A Maximum Of Two (2) Reviews, The Contractor / Subcontractor Will Be Backcharged For The Engineer's Effort.
- Limitations On Downtime
 - All Roadway Lighting Including The Fixtures Being Replaced On A Daily Basis Shall Be Energized And Functional By 3:00PM Daily.
 - The Buildings Will Be Occupied Throughout Construction, Coordinate Daily Areas Of Work And Interruptions With The Commission.
- Traffic Control
 - The Contractor Shall Furnish All Necessary Traffic Control Devices As Required By The Latest Publication Of MUTCD (Manual On Uniform Traffic Control Devices), NJDOT And/Or PennDOT Publication 213, Work Zone Traffic Control Manual, For Lane Closures Within The Commission, NJDOT And/Or PennDOT And Other Public Right-of-Ways.
 - With Proper Coordination And Commission Notification, One (1) Travel Lane Can Be Closed In Accordance To The Below Schedule. No Lane Closures Will Be Allowed On Commission's Observed Holidays Listed In The Specifications. In Addition; No Lane Closures Will Be Allowed The Commission Business Day Before And The Commission Business Day After Commission's Observed Holidays.
 - Truck Mounted Attenuator Is Required To Be Set-Up And Used Inside And Throughout The Duration Of Every Lane And Every Shoulder Closure.
 - A Certified Traffic Control Coordinator (TCC) Or A Certified American Traffic Safety Services Association (ATSSA) Must Supervise All Traffic Control Operations.
 - Shoulder Closure Is Allowed At Any Time Except Commission Holidays, Business Day Before And Business Day After Commission Holidays.
 - Sample Temporary Traffic Control Plans Will Be Made Available For Review Upon Request For Reference Purposes Only.
 - Contractor Shall Submit Specific Traffic Control Plans Signed And Sealed By A Professional Engineer Licensed In The State Of PA And / Or State Of NJ For Review By The Engineer Prior To Commencement Of The Work.

DESIGN CRITERIA AND ADDITIONAL PROJECT REQUIREMENTS

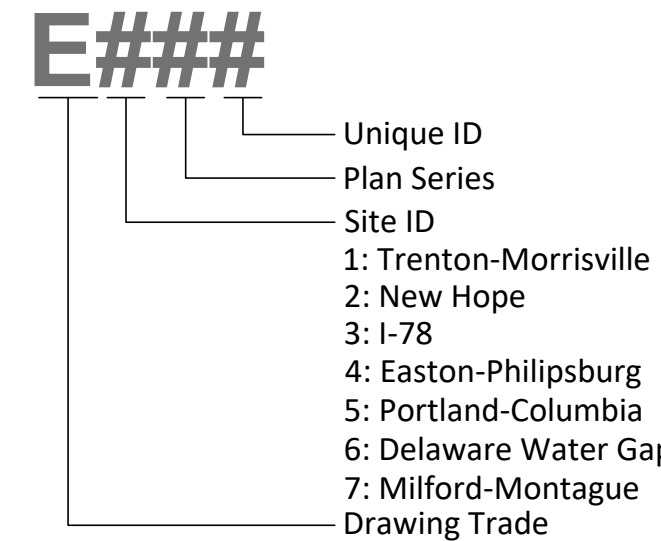
Applicable Codes And References

- The Entire Installation Shall Comply With All Local And State Codes, Including Amendments To Said Codes, And Other Authorities Having Jurisdiction.
- International Building Code, 2015 Edition
 - National Electrical Code, 2014 Edition
 - ASHRAE 90.1 Energy Standards, 2013 Edition
 - Illuminating Engineering Society Of North America (IESNA)
 - American Association Of State Highway And Transportation Officials (AASHTO)
 - Federal Highway Administration (FHWA)

DOCUMENT ORGANIZATION

Drawings Organization

- E Sheets



Drawing Sequence

Drawings Start With The General Information Sheet, The Planviews, Followed By All Other Pertinent Information. Where Effective, Supplemental Information Is Included Directly On The Planviews.

Miscellaneous

- The Term 'Sheet' Or 'Drawing' Is Used Interchangeably.
- Printing Of The Plans Is Often Reduced, So A Graphic Scale Is Provided On Each Sheet.
- For Items That Are Plans, Details, And Other Graphic Items, Titles Are At The Bottom Of The Item Described. For Items That Are Predominately Text Such As Schedules, Titles Are At The Top Of The Item Described.
- Shading Of An Area Often Is Used To Emphasize An Area To The Reader. Some Of The Possible Purposes Of This Emphasis Can Be:
 - Defining A Topics Boundary Without Conflicting With Other Linework.
 - Help To Emphasize The Existence Of A Part Plan Of The Area.
 - Differentiate Line Work In Congested Areas

How Notes Are Used

- General Notes - One Or More In List Form Which Are Not Indicated Specifically On A Plan, Section, Elevation, Or Detail.
- Notes For This Drawing - General Notes Located Only On The Drawing That Applies.

Addenda & Revisions

- Some Addenda And Revisions Are Identified On The Drawings Using A . The Number In The Triangle Links To The Revision Block In The Title Block Section.
- Sometimes The Most Recent Change Is Clouded To Provide Increased Clarity.

ALLOWABLE TIME FRAMES FOR LANE RESTRICTIONS

Bridge	TOLL BRIDGES		
	Monday - Friday	Saturday	Sunday
Trenton-Morrisville (Route 1)	9:30am to 2pm (one lane closed) 11pm to 5am (one lane closed)	All Day (one lane closed) 11pm to 5am (two lanes closed)	All Day (one lane closed) 11pm to 5am (two lanes closed)
New Hope - Lambertville (Route 202)	11pm to 5am (the next day) 10pm to 3pm (the next day)	All Day	All Day
Easton - Phillipsburg (Route 22)	10pm to 2pm (the next day) EB - 10am to 5am (the next day)	All Day	All Day
I-78	WB - 10pm to 12 noon (the next day) EB & WB - 11pm to 5am (the next day)	EB - 10am Friday to 5am Monday WB - 10pm Friday to 12noon Monday EB & WB - 11pm Saturday to 7am Sunday	EB - 10am Friday to 5am Monday WB - 10pm Friday to 12noon Monday EB & WB - 11pm Saturday to 5am Monday
Portland - Columbia	10pm to 3pm (the next day)	no lane restrictions permitted	no lane restrictions permitted
Delaware Water Gap (Interstate 80)	9am to 2pm & 10pm to 5am (the next day)	no lane restrictions permitted	no lane restrictions permitted
Milford - Montague	10pm to 3pm (the next day)	no lane restrictions permitted	no lane restrictions permitted

CM:

JOSEPH JINGOLI & SON, INC.
100 Lenox Drive, Suite 100
Lawrenceville, New Jersey 08648
www.jingoli.com

1	05/24/2017	ADDENDUM #1
1	5/09/2017	BID SET



DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION
MORRISVILLE, PENNSYLVANIA

BUILDINGS AND FACILITIES ENERGY CONSERVATION MEASURES
ELECTRICAL / LIGHTING

GENERAL INFORMATION SHEET - 1

SCALE: AS SHOWN	CONTRACT NO. T-645A	DRAWING NO. E001
DATE: MAY 09, 2017		

This Drawing is The Property Of DLB Associates Consulting Engineers, P.C. It Was Prepared Exclusively For This Particular Project And is Limited To This Project Only. Unauthorized Reproduction Or Other Use Of These Drawings Or Ideas is Prohibited.

LIGHTING FIXTURE SCHEDULE - BUILDINGS AND TOLL PLAZAS (CONTINUED)										FIXTURE TOTALS							
TYPE	DESCRIPTION	PHOTO	MOUNTING	VOLTAGE	LAMP TYPE	WATTAGE PER UNIT	MANUFACTURER	CATALOG NUMBER	NHL	I-78	E-P	P-C	DWG	M-M	IF AND WHERE DIRECTED	TOTAL	TYPE
U	6" DIAMETER LED DOWNLIGHT, STEEL MOUNTING FRAME, ELLIPTICAL UPPER REFLECTOR, MICRO PRISM LENS, CLEAR DIFFUSE FINISH, INSECT SHIELD, WET LOCATION		RECESSED	120-277	LED 4000K	18.8	LITHONIA OR APPROVED EQUAL	REAL6C D6 A ESL 1500L 40K .655C 120 PFMW ISH REMODEL FRAME 6VLR 1500L	13	4	0	0	0	0	2	19	U
V	8" DIAMETER LED CYLINDER, ALUMINUM HOUSING, WET LOCATION		SURFACE	120-277	LED 4000K	14	CON TECH OR APPROVED EQUAL	CYL8240KMVDCXWCLR-BZ	4	0	0	0	0	0	1	6	V
W	12" X 12" SQUARE LED FIXTURE, RETROFIT ALUMINUM HOUSING, REGRESSED ALUMINUM DOOR, SOLITE LENS, WET LOCATION		RECESSED	120-277	LED 4000K	47	SPECTRUM LIGHTING OR APPROVED EQUAL	SR12SQLEDOA44L40KE1/RM/BH27 RT1212MWSOWL	14	24	0	0	0	12	5	65	W
X	12-11/16" X 12-11/16" SQUARE LED FIXTURE CAST ALUMINUM HOUSING, PRISMATIC POLYCARBONATE REFRACTOR, BLACK FINISH, SURFACE CONDUIT BOX, WET LOCATION		SURFACE	120-277	LED 4000K	50	FAIL-SAFE OR APPROVED EQUAL	H12D-LD4-SOW-40-CLR-BK-UNV-EDC1-SCBS-VRSO	0	0	30	20	30	0	8	88	X
N1	2' X 4' LED VOLUMETRIC TROFFER, STEEL HOUSING, ACRYLIC LINEAR PRISMATIC DIFFUSER, WHITE FINISH		RECESSED	120-277	LED 3500K	39	LITHONIA OR APPROVED EQUAL	ZVT14 40L ADP E21 LP35	0	8	0	0	0	0	1	9	N1
N2	2' X 4' LED VOLUMETRIC TROFFER, STEEL HOUSING, ACRYLIC LINEAR PRISMATIC DIFFUSER, WHITE FINISH		RECESSED	120-277	LED 3500K	52	LITHONIA OR APPROVED EQUAL	ZVT14 60L ADP E21 LP35	3	0	0	3	0	5	1	12	N2

GENERAL NOTES:

- REFER TO SPECIFICATIONS FOR ATTIC STOCK / SPARE PART INFORMATION.
- THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF ALL LIGHTING FIXTURES INCLUDING: LUMINAIRE DATA, PHOTOMETRIC REPORTS, LAMP INFORMATION, AND ACCESSORIES IDENTIFIED ABOVE.

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LED LAMP SCHEDULE										LAMP TOTALS							
TYPE	DESCRIPTION	MOUNTING	VOLTAGE	LAMP TYPE	WATTAGE PER UNIT	MANUFACTURER	CATALOG NUMBER	NHL	I-78	E-P	P-C	DWG	M-M	IF AND WHERE DIRECTED	TOTAL	TYPE	
L4	4' T8 LED LAMP	DIRECT	120-277	LED 3500K	12	GREEN CREATIVE OR APPROVED EQUAL	32T8/4F/835/DIR	80	68	0	0	4	0	10	162	L4	
L5	A-21 LED LAMP	DIRECT	120	LED 3000K	12	GE OR APPROVED EQUAL	LED12A21/830FE	10	4	81	15	13	13	10	146	L5	
L6	4' T5 LED LAMP	DIRECT	120-277	LED 3500K	24	GREEN CREATIVE OR APPROVED EQUAL	24T5HO/4F/835/DIR	0	0	0	0	108	0	10	118	L6	
L7	HIGH POWER LED LAMP (REPLACES 175 WATT METAL HALIDE LAMP)	MOGUL BASE	120-277	LED 4000K	50	REMPHOS OR APPROVED EQUAL	RPT-LEDSSG2-5600LM-4000K-E-39	37	0	2	0	0	0	4	43	L7	
L8	LED PL LAMP	4 PIN CFL DIRECT	120-277	LED 3500K	8.5	GREEN CREATIVE OR APPROVED EQUAL	8.5PLH/835/DIR	45	0	0	0	0	0	4	49	L8	
L9	LED PAR 30 LAMP	PAR 30 DIRECT	120	LED 2700K	12.5	GREEN CREATIVE OR APPROVED EQUAL	E12.5PAR30G4DIM/927FL40	42	0	2	0	0	0	4	48	L9	
L10	LED DECORATIVE	MED BASE DIRECT	120	LED 2700K	5.5	GREEN CREATIVE OR APPROVED EQUAL	5.5B11DIM/827/E26	8	0	0	0	0	0	1	9	L10	
L11	HIGH POWER LED LAMP (REPLACES 400 WATT METAL HALIDE LAMP)	MOGUL BASE	120-277	LED 4000K	125	REMPHOS OR APPROVED EQUAL	RPT-LEDSSG2-1900LM-4000K-E-39	0	0	0	14	0	0	1	15	L11	

GENERAL NOTES:

- CONTRACTOR SHALL VERIFY THAT ALL LED DIRECT REPLACEMENT LAMPS ARE COMPATIBLE WITH THE EXISTING FLUORESCENT BALLASTS.
- CONTRACTOR SHALL REPLACE ANY DEFECTIVE FLUORESCENT BALLASTS AND LAMP SOCKETS THAT ARE DAMAGED.
- CONTRACTOR TO VERIFY THAT THE NEW LED REPLACEMENT LAMPS FOR THE COMPACT FLUORESCENT LAMPS ARE COMPATIBLE WITH THE EXISTING SOCKETS AND PROVIDE THE CORRECT LAMP TO MATCH THE SOCKET.
- CONTRACTOR TO VERIFY THAT THE NEW LED REPLACEMENT LAMPS FOR THE HID LAMPS ARE COMPATIBLE WITH THE EXISTING SOCKETS (MEDIUM OR MOGUL) AND PROVIDE THE CORRECT LAMP TO MATCH THE SOCKET.
- FOR LED REPLACEMENT LAMPS FOR HID FIXTURES, CONTRACTOR SHALL REMOVE THE EXISTING BALLAST FROM THE FIXTURE AND WIRE THE LINE VOLTAGE DIRECTLY TO THE SOCKET.
- CONTRACTOR TO VERIFY THAT THE NEW LED REPLACEMENT LAMPS FOR THE INCANDESCENT FIXTURES WILL FIT IN THE EXISTING LIGHT FIXTURES AND PROVIDE A COMPARABLE LED LAMPS THAT WILL FIT.
- REFER TO SPECIFICATION FOR ATTIC STOCK / SPARE PART INFORMATION.

CM:	JOSEPH JINGOLI & SON, INC. 100 Lenox Drive, Suite 100 Lawrenceville, New Jersey 08648 www.jingoli.com
1	05/24/2017 ADDENDUM #1
1	5/09/2017 BID SET

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265 Industrial Way West, Eatontown, N.J. 07724

DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION
MORRISVILLE, PENNSYLVANIA

BUILDINGS AND FACILITIES ENERGY CONSERVATION MEASURES
ELECTRICAL / LIGHTING

SCHEDULES

SCALE: AS SHOWN
DATE: MAY 09, 2017

CONTRACT NO.
T-645A

DRAWING NO. **E801**