



Department of Administrative Services

Purchasing and Contracts

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Sabra Smith Newby, Chief Administrative Officer
Adleen B. Stidhum, Purchasing Manager



CLARK COUNTY, NEVADA BID NO. 603522-14 LED FIXTURE AND LED STREET NAME SIGN LAMPS

December 19, 2014

ADDENDUM NO. 2

INVITATION TO BID

1. The Bid Opening date of January 5, 2015 at 3:00:00 p.m. **remains unchanged.**

INSTRUCTION TO BIDDERS

2. **Replace** item no. 21, Deviations to Technical Specifications (page I-4) with the following:

Any deviation taken at the time of or after bid submittal may render the bid non-responsive. If a Bidder is unable to meet the Technical Specifications, Bidder **MUST** complete the attached Exhibit **B** and submit it to the Purchasing Analyst at least five (5) business days prior to the scheduled PRE-BID CONFERENCE. It shall be the sole responsibility of the Bidder to ensure that the Purchasing Analyst has been properly notified, **PRIOR TO THE PREBID CONFERENCE** of the Bidder's deviation to the Technical Specifications.

3. Item no. 35, Contract Renewal (page I-6): **Delete** this item in its entirety.
4. Item no. 37, Contract Renewal (page I-7): **Delete** this item in its entirety.

GENERAL CONDITIONS

5. **Replace** item no. 38, warranty (page II-5) with the following:

SUCCESSFUL BIDDER warrants that the goods and services covered under this bid will conform to applicable specifications, drawings, data and samples, will be merchantable and of good material and workmanship, free from defects and will be fit and sufficient for the purposes intended. **SUCCESSFUL BIDDER** shall guarantee all workmanship, materials, and equipment they have furnished for a period of five (5) years after the final acceptance of the equipment or materials or for the length of the current manufacturer's warranty, whichever is longer. If during the guarantee period, any defect or faulty materials are found, it shall immediately, upon notification by COUNTY, proceed at its own expense to replace and repair same, together with any damage to all finishes, fixtures, equipment, and furnishings that may be damaged as a result of this defective equipment or workmanship. Acceptance or receipt of payment for goods or services shall not constitute a waiver of any warranty.

SPECIAL CONDITIONS

6. Item no. 3, Dealers Report of Sale (page III-1): **Delete** this item in its entirety.
7. **Replace** item 5, Maximum Delivery Time (page III-1) with the following:

Maximum delivery time is 45 calendar day(s). Failure to offer a delivery time within the maximum number of days specified may be considered a substantial deviation and be cause for rejection. Time is of the essence and failure to meet the delivery time specified shall constitute a breach of contract and may result in termination of CONTRACT.

8. Item no. 12, Annual Inventory list. (page III-2): **Delete** this item in its entirety.

9. **Add** item ,Notice of Delivery, (page III-2) with the following:

COUNTY shall be given 3 business day(s) notice prior to delivery. Notify Felecia Allen, telephone number 702-455-7521. Failure to meet the delivery time specified shall constitute a breach of contract and may result in termination of CONTRACT.

TECHNICAL SPECIFICATIONS

10. **Replace** Section IV Technical Specifications (pages IV-1 through IV-6) with the attached revised Technical Specifications (pages IV-1 through IV-4):

Should you have any questions please contact me at (702) 455-1171 or BlancoA@ClarkCountyNV.gov.

ISSUED BY:



ASHLEY BLANCO
Purchasing Analyst

Attachment(s): Revised Section IV Technical Specifications (page IV-1 through IV-4)
Exhibit A Technical Specifications
Exhibit B Deviations to Technical Specifications

Cc: Kaizad Yazdani, Public Works
Jim Benoit, Public Works
Irene Lam, Public Works
Cindy Beauchamp, Public Works

IV - TECHNICAL SPECIFICATIONS

BID NO. 603522-14
LED FIXTURES AND LED STREET NAME SIGN LAMPS
REVISED PER ADDENDUM NO. 2

Name of Firm

INTENT:

The intent of these specifications is to provide a minimum standard for Light Emitting Diode (LED) outdoor roadway lighting at 100'/100' street intersections. Each LED fixture shall be replacing a 400W HPS mounted at a height of 30 to 37 feet. The traffic signal luminaires offered shall be new and unused.

These specifications also provide a minimum standard for Light Emitting Diode (LED) illuminated street name sign tube lamps. Each 8-ft LED tube lamp shall be replacing an 8-ft fluorescent tube. The illuminated street name sign tube lamps offered shall be new and unused.

These specifications shall be construed as minimum requirements. Should the manufacturer's current published data or specifications exceed these, as determined and approved by the Owner, they shall be considered as minimum specifications and be furnished by the Bidder.

If a Bidder is unable to meet the specifications, or comply with any condition described herein, they must complete the attached "Exhibit B" and submit it to the Purchasing and Contracts Department at the scheduled bid opening. It shall be solely the responsibility of the Bidder to insure that the Purchasing and Contracts Department has been properly notified of the Bidder's inability to meet the specifications, prior to the pre-bid conference.

BIDDERS MUST RETURN THE ORIGINAL OR A PHOTOCOPY OF THIS FORM AND MAKE AN ENTRY FOR EACH SPECIFICATION IN THE SPACE PROVIDED OPPOSITE THE SPECIFICATIONS, INDICATING ANY VARIANCES IN THE SPECIFICATION. IF THERE IS NOT ENOUGH SPACE, ATTACH AN ADDITIONAL SHEET OF PAPER.

LOT A – LED FIXTURES (MATERIALS ONLY)

SPECIFICATION NO. 1 – PHOTOMETRIC:		YES	NO	IF NO, SPECIFY
1.1	A normal Correlated Color Temperature (CCT) of 5000°K to 6000°K.			
1.2	A Color Rendering Index (CRI) ≥ 65.			
1.3	A minimum luminaire efficacy ≥ 60 lumen/watts.			
1.4	Photometric measurement shall be documented by an independent test lab report according to IESNA specification.			
1.5	LED light distribution shall be in accordance with IESNA Type III distribution with a true 90° light cutoff.			
1.6	Luminaire must operate at 77°F (25°C) for a minimum of 50,000 hours before the LED light output has decreased to 80% of initial output (L80).			
1.7	LED's in the fixture shall be manufactured by Cree, Nichia or Lumileds.			
1.8	Fixtures installed for a typical intersection lighting for a major/major intersection shall achieve average minimum foot-candle as outlined in IESNA RP-8-00 (2005 Reaffirmed), table 9 (Medium and E _{avg} /E _{min}) within the given limits of the intersection shown in Exhibit A-1. Lighting luminaire arms are 15 ft in length, with fixtures at the mounting height of 30 and 37 ft. Supplier must provide an illuminance study that proves that lighting luminaire standards are met per IESNA RP-8-00 (2005 Reaffirmed), with a light loss factor of 0.94, for both 30-ft and 37-ft heights.			

SPECIFICATION NO. 1 – PHOTOMETRIC:		YES	NO	IF NO, SPECIFY
1.9	Per IESNA TM-15-2007 (Revised) Backlight, Uplight, and Glare (BUG) rating shall be B3 U1 G3 or better. Fixture should be Dark Sky compliant.			

SPECIFICATION NO. 2 – ELECTRICAL:		YES	NO	IF NO, SPECIFY
2.1	Off state power draw of 0 watts (excluding photocell).			
2.2	Power factor of ≥ 0.90 .			
2.3	Maximum LED forward current of ≤ 530 mA.			
2.4	Class 1 or class 2 power supply.			
2.5	UL 1310 class 2, UL 1598 or UL 8750 approved.			
2.6	Operating temperature range of -10°F to 120°F (-23°C to 49°C).			
2.7	Transient voltage/surge suppression protection must meet or exceed the requirements of ANSI/IEEE C.62.41-1991 Class A operation, which consists of seven strikes of a 100 HZ ring wave, 6 KV level, for both common mode and differential mode.			
2.8	Class A sound rating for power supply per ANSI C63.4.			
2.9	Power supply shall meet FCC 47 CFR 15/18.			
2.10	Nominal operating voltage within a range of 120 to 277 volts at 60 HZ ± 3 HZ.			
2.11	Output operating frequency must be ≥ 120 HZ.			
2.12	Fixture shall have a prewired heavy-duty barrier type terminal block, with captive screws capable of terminating three (3) #14 to #10 AWG.			
2.13	Total power consumption of the fixture, including driver/ballast, shall not exceed 258 Watts .			

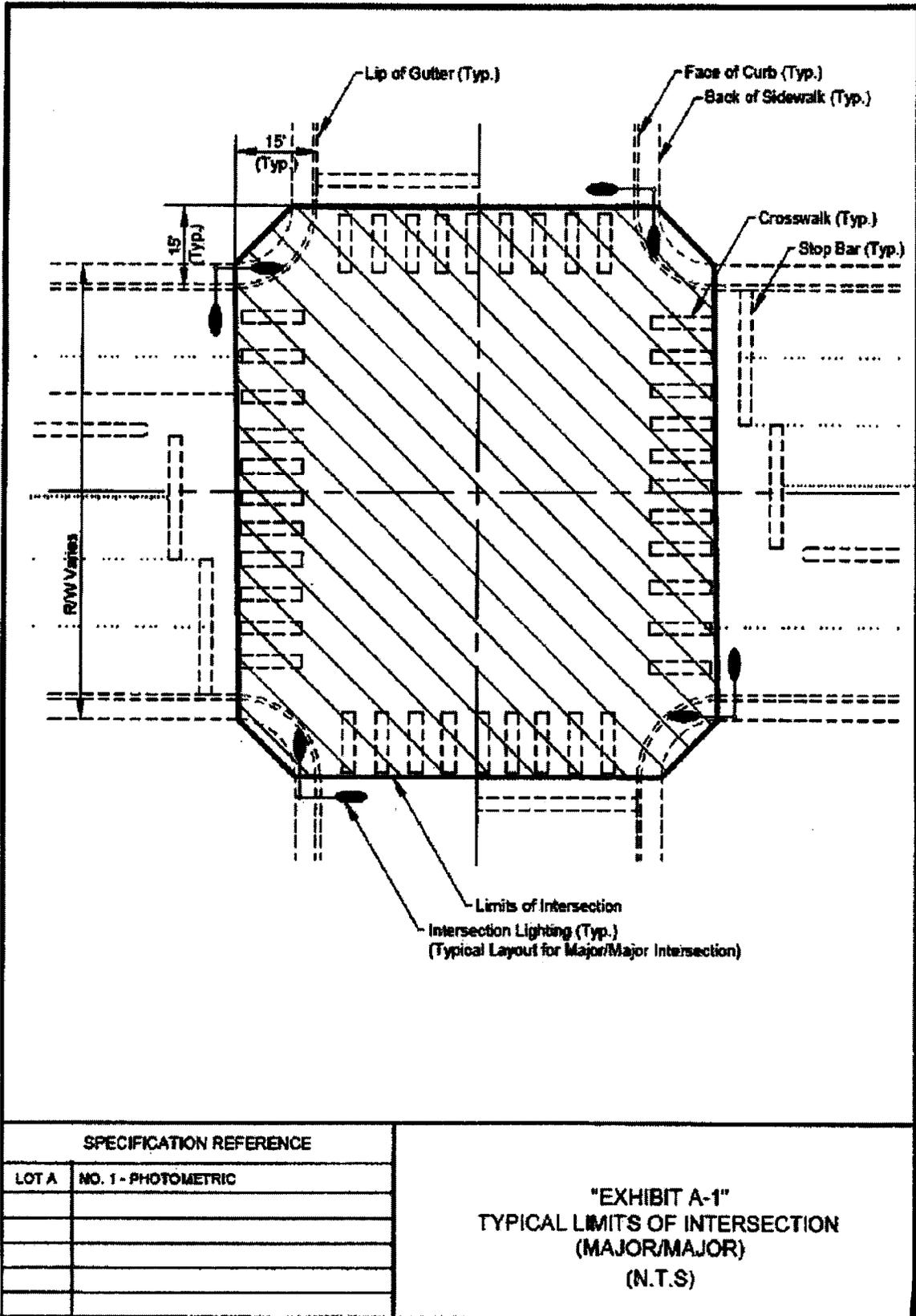
SPECIFICATION NO. 3 – HOUSING:		YES	NO	IF NO, SPECIFY
3.1	Luminaires shall be painted with 2 finish coats of high gloss gray enamel or polyurethane powder coating, free of lead and mercury.			
3.2	Constructed of die cast aluminum. Stamped and formed aluminum housings shall not be submitted.			
3.3	Lens shall be made of high impact acrylic.			
3.4	Driver(s) mounted internally and replaceable.			
3.5	All parts to be corrosion resistant.			
3.6	Fixture shall have heat sink integrated into fixture body, and be resistant to debris buildup that may cause degraded heat dissipation. No fans, pumps or liquids are allowed. Light engines with integrated heat sinks will not be accepted.			
3.7	Fixture weight ≤ 50 Lbs.			
3.8	Fixture must withstand a minimum vibration of 2Gs per ANSI C136.31-2001.			
3.9	Fixture shall have a photoelectric receptacle, 3-prong twist-lock per ANSI C136.10. The receptacle (socket) will need to be able to rotate to face north direction without the use of tools.			
3.10	The fixture shall have a slip-fitter capable of adapting to 1-1/4-inch through 2-inch pipe bracket without rearrangement of parts and be adjustable $+5^{\circ}$ degrees from horizontal. There shall be no more than four (4) 9/16-inch hex bolts to secure fixture to pipe. Bolts shall be secured from bottom of fixture and mounted internally.			

SPECIFICATION NO. 2 – ELECTRICAL:		YES	NO	IF NO, SPECIFY
3.11	The optical assembly of the fixture shall have a minimum IP-65 rating to protect internal components.			
3.12	The maximum effective projected area (calculated from either side) shall not exceed 1.2 square foot. (slim, low profile design to optimize for wind loading).			
3.13	Maximum dimension 41" long X 19" wide X 10" tall.			
3.14	Fixture shall have bird guard or wildlife intrusion protection.			
3.15	Fixture shall have tool-less entry.			
SPECIFICATION NO. 4 – FIXTURE IDENTIFICATION:		YES	NO	IF NO, SPECIFY
4.1	Each fixture shall have the manufacturer's name, trademark, model number, serial number, date of manufacture (month/year), and lot number permanently marked on inside of each unit.			
4.2	The wattage of the fixture must be able to be detected visibly from an observer standing at ground elevation at base of pole. (See Exhibit A-2).			
4.3	Operating characteristics shall be permanently marked inside each unit: Voltage rating, power rating (in watts and volt-ampere) and fixture efficiency rating (LER).			
4.4	Each LED fixture shall be permanently marked with correlated color temperature (CCT) rating in Kelvin, color rendering index (CRI) and wattage driver current.			
SPECIFICATION NO. 5 – MEASUREMENTS AND PERFORMANCE:		YES	NO	IF NO, SPECIFY
5.1	IESNA LM-79-08 Approved method for electrical and photometric measurements of solid-state lighting products.			
5.2	IESNA LM-80-08 Approved method for measuring lumen maintenance of LED lighting sources.			
5.3	IESNA data files shall be submitted for each fixture type, and also must include photometric test results for both 30 foot and 37 foot mounting heights for intersection as depicted in exhibit A-1.			
SPECIFICATION NO. 6 – WARRANTY:		YES	NO	IF NO, SPECIFY
<p>A warranty must be provided for the replacement or repair of the fixture due to any electrical failure, which includes light source and power supplies/drivers, for a minimum of five (5) years after final acceptance of the materials. All other components shall have a warranty for a minimum of one (1) year after final acceptance. Contractor shall provide all warranty documents to Clark County Public Works Traffic Management Divisions at time of product delivery. Documents shall contain project name, bid number of the project, manufacturer, brand, model, contact information for warranty claim, and quantity of fixtures delivered. Warranty replacement of fixture shall be delivered no more than sixty (60) calendar days upon notification by Clark County Public Works.</p>				

LOT B – LED STREET NAME SIGN LAMPS (MATERIALS ONLY)				
SPECIFICATION NO. 1 – PHOTOMETRIC:		YES	NO	IF NO, SPECIFY
1.1	A normal Correlated Color Temperature (CCT) of 4000°K to 5000°K.			
1.2	A Coloring Rendering Index (CRI) ≥ 80.			
1.3	180° light distribution.			
1.4	Bi-directional (dual side's illumination).			
SPECIFICATION NO. 2 – ELECTRICAL:		YES	NO	IF NO, SPECIFY
2.1	Power factor ≥ 0.92.			
2.2	Operating voltage 120 VAC.			
2.3	Frequency 50-60 Hz.			
2.4	Total power consumption shall be 40 watts maximum per tube lamp connector/receptacle.			
2.5	UL 1310 class 2, UL 1598 and/or UL 8750 approved.			
2.6	Radio frequency (RF) emission > 50 kilohertz.			
SPECIFICATION NO. 3 – LED TUBE LAMP:		YES	NO	IF NO, SPECIFY
3.1	Full light output at initial turn on.			
3.2	Operating temperature range from -10°F to 120°F (-23°C to 49°C).			
3.3	Must fit into a single pin T-12 fluorescent lamp receptacle for an 8-ft illuminated street name sign enclosure.			
3.4	Lamp shall have a Fa8 lamp single-pin contacts.			
3.5	Rated life ≥ 70,000 hours.			
3.6	Tube lens shall be polycarbonate.			
3.7	Luminaire must operate at 77°F (25°C) for a minimum of 50,000 hours before the LED light output has decreased to 70% of initial output (L70).			
3.8	Shall have internally built-in drivers. No external drivers are accepted.			
3.9	8-foot tube lamp shall have light output of minimum 2,500 lumens per tube lamp.			
SPECIFICATION NO. 4 – WARRANTY:		YES	NO	IF NO, SPECIFY
<p>A warranty must be provided for the replacement or repair of the tube lamp due to any electrical failure, which includes light source and power supplies/drivers, for a minimum of five (5) years after final acceptance of the materials. All other components shall have a warranty for a minimum of one (1) year after final acceptance. Contractor shall provide all warranty documents to Clark County Public Works Traffic Management Divisions at time of product delivery. Documents shall contain project name, bid number of the project, manufacturer, brand, model, contact information for warranty claim, and quantity of fixtures delivered. Warranty replacement of tube lamp shall be delivered no more than sixty (60) calendar days upon notification by Clark County Public Works..</p>				

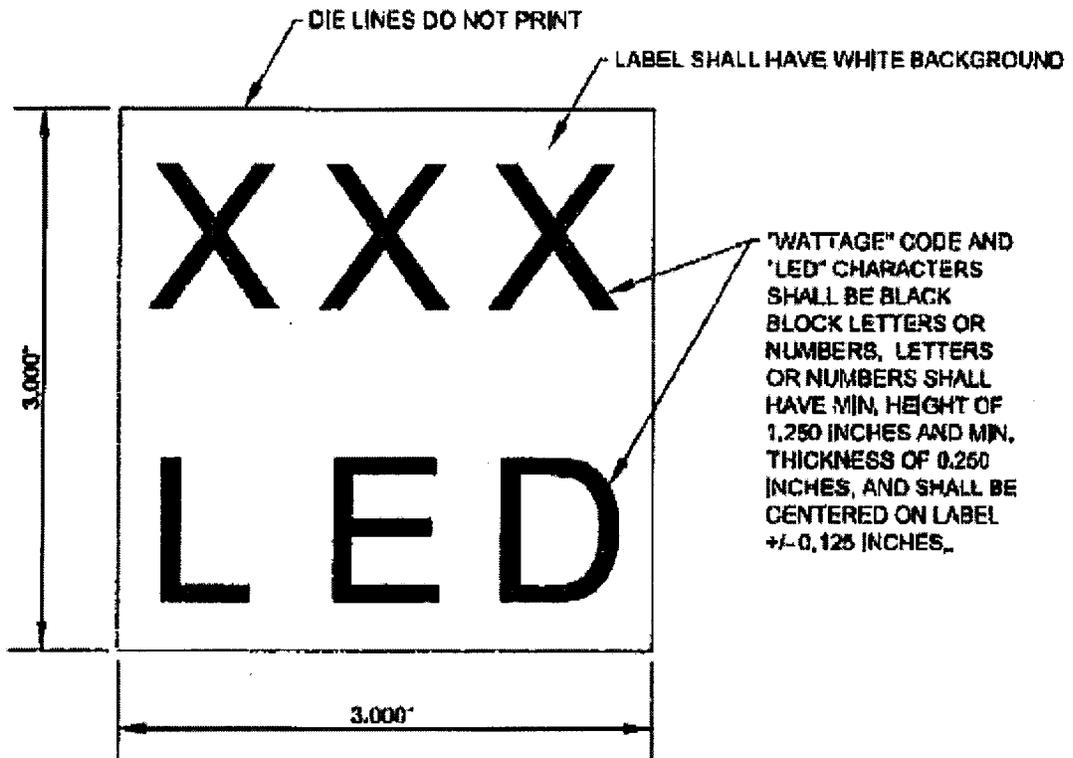
EXHIBIT A

BID NO. 603522-14
LED FIXTURE AND LED STREET NAME SIGN LAMPS



SPECIFICATION REFERENCE	
LOT A	NO. 1 - PHOTOMETRIC

"EXHIBIT A-1"
TYPICAL LIMITS OF INTERSECTION
(MAJOR/MAJOR)
(N.T.S)



SPECIFICATION REFERENCE	
LOT A	NO. 4 - FIXTURE IDENTIFICATION

"EXHIBIT A-2"
WATTAGE LABEL
(N.T.S)

