The solicitation identified in Block 1A is amended as set forth in Block 3. Hour and date specified for receipt of offers ☒ is extended, ☐ is not extended. Offerors must acknowledge receipt of this amendment prior to the hour and dated specified in the solicitation or as amended, by one of the following methods: (a) by completing Block 4 and returning copy of the amendment; (b) by acknowledging receipt of this amendment on the Solicitation Offer and Award Sheet, Block 13. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.

3. DESCRIPTION OF AMENDMENT

Solicitation 1-17-C129 for Unlit Fiber Paths between National and Dulles Airports is hereby amended as follows:

A. Specifications document is hereby replaced in its entirety by the attached to update the termination address at Ronald Reagan Washington National Airport.

B. Set of drawings available for viewing. In order to receive a link the contractors must first sign a non-disclosure agreement, after which they will receive a link to review the drawings. Send the request to Felipe.Dominguez@mwaa.com.

C. Solicitation submission due date is hereby extended to 2:00 PM (EST) October 11, 2017 at the address indicated in the Solicitation.

D. All other items remain unchanged.

Except as provided herein, all terms and conditions of the document referenced in Block 1A, as heretofore changed, remain unchanged and in full force and effect.
SPECIFICATIONS
Amendment 001

Airports Authority Enterprise Unlit Fiber Paths between Reagan National and Dulles International Airports and Tysons Tower

01 Background

The Metropolitan Washington Airports Authority (Airports Authority) seeks a qualified Internet Service Provider (ISP) to provide diverse unlit fiber (dark fiber) pathways between Reagan National (DCA) and Dulles International (IAD) Airports and the Tysons Tower location providing protected SONET and unprotected Ethernet WDM services between the sites.

02 Purpose

The Airports Authority requires dark fiber to support its Enterprise wide leased synchronous optical network (SONET) replacement project.

03 Requirements

The Contractor shall provide dark fiber in accordance with the following requirements:

a. **Start of Services:** ARO (as soon as feasible after award) but no later than 9 months after award.

b. **Right To Use:** The vendor shall provide Indefeasible Right of Use (IRU) for a period of 10 years for each of the circuits listed below.

c. **Connection Type:** Single mode fiber, Non-Zero Dispersion Shifted Fiber (NZDSF) meeting or exceeding the following specifications:

d. **The contractor shall deliver dark fiber as follows:**

Circuit #1: Reagan National Airport, AHN1 Reagan National Airport, 2504 Abingdon Drive Arlington, VA 22202 ("Shops Building") to Dulles International Airport, 45021 Compass Court Sterling, VA 21066 ("Building 8").

<table>
<thead>
<tr>
<th>Span 1</th>
<th>Estimated Distance</th>
<th>Assumed Loss</th>
<th>Maximum allowed Loss</th>
<th>Fiber type</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCA Shops to IAD Bldg 8</td>
<td>35km</td>
<td>8.75db</td>
<td>14db Modeled as SMF-28, will also support NZDSF</td>
<td></td>
</tr>
</tbody>
</table>

Circuit #2 From 8675 Leesburg Pike, Tysons Corner, VA 22812 (inside hut/radio tower located in the cloverleaf loop, West of Route 7 and South of Route 267) to Dulles International Airport, Concourse B, Sterling, VA 21066 ("room BG-441/A1-L1-441")

<table>
<thead>
<tr>
<th>Span 2</th>
<th>Estimated Distance</th>
<th>Assumed Loss</th>
<th>Maximum allowed Loss</th>
<th>Fiber type</th>
</tr>
</thead>
<tbody>
<tr>
<td>IAD Concourse B to Tysons Tower</td>
<td>35km</td>
<td>8.75db</td>
<td>14db Modeled as SMF-28, will also support NZDSF</td>
<td></td>
</tr>
</tbody>
</table>
Circuit #3 From 8675 Leesburg Pike, Tysons Corner, VA 22812 (inside hut/radio tower located in the cloverleaf loop, West of Route 7 and South of Route 267) to Reagan National Airport, 2001 Smith Boulevard, Arlington, VA 22202 (Terminal B/C room C1-567)

<table>
<thead>
<tr>
<th>Span 3</th>
<th>Estimated Distance</th>
<th>Assumed Loss</th>
<th>Maximum allowed Loss</th>
<th>Fiber type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tysons Tower to DCA B&amp;C</td>
<td>35km</td>
<td>8.75db</td>
<td>14db</td>
<td>Modeled as SMF-28, will also support NZDSF</td>
</tr>
</tbody>
</table>

e. **Hardware Requirements:** Fiber termination panel

The selected vendor will contact the Airports Authority’s Network Operations Department to coordinate connection and start up activities, ongoing requirements and issues, and any other technical interaction necessitated by this contract. Contact information for that office will be provided upon award or as necessary. All fiber build must conform to the Airport Authority’s Airport Authority Policy Guidelines for Inside and Outside Plant Infrastructure found here: "http://www.mwaa.com/business/airport-business-operations-information".

04 **Network Diagram**

The vendor shall configure the dark fiber handoff interface utilizing single mode optics with an LC or SC style connector.

05 **Service Level Agreement (SLA)**

It is the Airports Authority’s desire to obtain and maintain a high level of circuit availability at a reasonable cost. The contractor SLA shall meet the following recovery objectives 24 hours a day, 7 days a week, 365 days a year:
5.1 In the event of a complete outage, circuit (interface or protocol non-operational), the contractor response time from initial report or detection of circuit down shall be 30 minutes. The contractor shall dispatch necessary resources to restore fiber path to service in the most expedient manner. At a minimum, hourly reports shall be provided as to the nature of the outage and efforts underway to restore service.

5.2 In the event of circuit impairment, either impaired throughput or impaired circuit operation (circuit intermittently flapping up/down), the contractor response time from initial report or detection of impairment shall be 30 minutes. At a minimum, hourly reports shall be provided as to the nature of the outage and efforts underway to restore service.

06 Design
The contractor shall provide the proposed full dark fiber design along with operating parameters (one electronic copy and one paper copy) to the Airports Authority for approval.

07 Systems Acceptance Test (SAT)
The contractor shall engage the Airports Authority in developing a dark fiber acceptance test. Each circuit, #1, #2 and #3 will require full fiber characterization to be performed to validate each fiber for splices, bends, and other impairments. Characterization shall include: End to End loss, Optical Time Domain Reflectometry, Polarization Mode Dispersion, and Chromatic Dispersion, in both directions.

7.1 The contractor shall provide a completed dark fiber pathways systems acceptance test document (one electronic copy and one paper copy) upon completion of leased dark fiber installation, test and turn-up.

08 Documentation
The contractor shall provide final documentation (one electronic copy and one paper copy) of the dark fiber design and operating parameters after Airports Authority acceptance of the ISP dark fiber pathways.

09 Deliverables
a) Design (see 06).
b) SAT Documentation.
c) As-Built Documentation.