Los Angeles Unified School District

LAUSD Wireless LAN (WLAN) Construction Program
Electrical Contractor Industry Forum
October 11, 2013
LAUSD Wireless LAN (WLAN) Construction Program

- Welcome
  Yvette Merriman-Garrett
  Director of Facilities Contracts

- WLAN/LAN-Project Execution
  Greg Garcia
  Director of Facilities Project Execution

- LAN Refresh/WLAN-(ITD):
  David Gomez
  ITI Program/Project Manager

- Contracting Vehicles/Prequalification:
  Judith Reece
  Facilities Contracts Administrator
Today’s Objective

• Increase bidding pool of qualified C10 contractors for LAN AND WLAN projects ranging in size from:

  • Small: $50k to $249k
  • Medium: $250k to $1M
  • Large: Over $1M to $3M
WLAN Program Objectives

• Build campus wide Wireless LAN infrastructures for 536 schools in 18 months

Program Schedule:

• Phase 1 – 47 Schools, Target Completion: August 2013
• Phase 2 – 74 Schools, Target Completion: March 2014
• Phase 3 – 162 Schools, Target Completion: June 2014
• Phase 4 – 151 Schools, Target Completion: Dec 2014
• LAN MODS (AAA, Vector) 102 Schools, Target Completion: Jan-Dec 2014
Scope of Work
Inspection Oversight

• Facilities Technology Management Group (John Padilla)
  • Raceways, WAPs, Exterior Antennas, Switches, Routers, UPS
  • 2 people per Region

• Office of Environmental Health and Safety (OEHS)
  • Installation of conduit and screws for WAPS

• ITD
  • Testing and Configuration

• LAUSD Inspection
  • Installation of MDF
  • Fire Caulking (Ceiling and Wall Penetrations)
  • Open Trenching
Design Scope (Site Surveys)

- LAUSD Field Engineers perform pre-design site surveys to document existing LAN as-built conditions including:
  - Conduit and pathway availability
  - Data rooms and cabinet capacities
  - LAN Equipment models and connections

Typical Project Timeline

### JOC

<table>
<thead>
<tr>
<th>Task</th>
<th>Time</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey</td>
<td>1 Day</td>
<td>LAUSD Field Engineer</td>
</tr>
<tr>
<td>Design</td>
<td>10 Days</td>
<td>Electrical Engineer</td>
</tr>
<tr>
<td>Procurement</td>
<td>20 Days</td>
<td>LAUSD Contracts/LAUSD PEX</td>
</tr>
<tr>
<td>NTP</td>
<td></td>
<td>LAUSD PEX/Contractor</td>
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<tr>
<td>Construct</td>
<td>60-90 Days</td>
<td>ITD</td>
</tr>
<tr>
<td>Configuration</td>
<td>7 Days</td>
<td></td>
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</tbody>
</table>

### Formal

<table>
<thead>
<tr>
<th>Task</th>
<th>Time</th>
<th>Department</th>
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</thead>
<tbody>
<tr>
<td>Survey</td>
<td>1 Day</td>
<td>LAUSD Field Engineer</td>
</tr>
<tr>
<td>Design</td>
<td>10 Days</td>
<td>Electrical Engineer</td>
</tr>
<tr>
<td>Special Pre-qual</td>
<td>2 Weeks</td>
<td>LAUSD Contracts</td>
</tr>
<tr>
<td>Advertise Bid/Award</td>
<td>45 Days</td>
<td>LAUSD Contracts</td>
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<tr>
<td>Construct</td>
<td>90 Days</td>
<td>LAUSD PEX/Contractor</td>
</tr>
<tr>
<td>Configuration</td>
<td>7 Days</td>
<td>ITD</td>
</tr>
</tbody>
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Feedback from Contractors

• Payments
• JOC Prices : 1 Price for Material and Labor
• Durations
Average Number of Days to Pay Invoices

Goal: Timely Payment of Contractors

<table>
<thead>
<tr>
<th>Month</th>
<th>Average Days</th>
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<tbody>
<tr>
<td>Jul-12</td>
<td>21.98</td>
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<tr>
<td>Aug-12</td>
<td>24.29</td>
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<tr>
<td>Sep-12</td>
<td>24.20</td>
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<tr>
<td>Oct-12</td>
<td>25.11</td>
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<tr>
<td>Nov-12</td>
<td>23.54</td>
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<tr>
<td>Dec-12</td>
<td>24.21</td>
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<tr>
<td>Jan-13</td>
<td>25.87</td>
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<tr>
<td>Feb-13</td>
<td>24.56</td>
</tr>
<tr>
<td>Mar-13</td>
<td>20.34</td>
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<tr>
<td>Apr-13</td>
<td>23.18</td>
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<tr>
<td>May-13</td>
<td>22.36</td>
</tr>
<tr>
<td>Jun-13</td>
<td>20.22</td>
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</table>
Information Technology Division (ITD)

- ITD will advertise 112 schools using the Type 2 Formal Bid process within the next 6 to 12 months.

- Type 2 scope of work consists of pathways (raceway/conduit), cabling, trenching/boring, and electrical work. The electrical work typically consists of only 5 to 10% of the total price.

- Type 2 construction work is formally bid and then assigned to the Prime Contractor.

- Each school is bid individually with an average Type 2 cost between $75,000 and $200,000.

- The construction duration on all contracts for Type 2 work will be increased to a 45 or 60 day duration on future bids.

- The typical bidding timeline from bid advertisement to Notice of Award is 35 days.
Contracts

Project Execution
• Job Order Contract
  • Bidder agrees to a fixed period, fixed unit price, and indefinite quantity contract that provides for the use of job orders for public works or maintenance projects
  • Bidder bids an Adjustment Bid Factor (ABF) which is used as a multiplier against Construction Task Catalog (i.e. 1.000 ABF x quantity x unit cost)
  • JOC Request for Proposals include JOC-Specific Prequalification
• Bundled Formal -Design-Bid-Build
  • Applies to larger bundled projects for Middle/High Schools
  • Requires WLAN Bundling Program RFQ prequalification

Information Technology Division (ITD)
• Formal Design-Bid-Build
• Awarded bids are novated to Prime Contractor
• Contracts are managed by Vector and AAA Solar
• Requires LAN Modernization Project-Specific Prequalification
Prequalification

All contractors must be Prequalified by the District*

• Requires a current and 3-year average Experience Modification Rate (EMR) of 1.0 or less
• Contractor Performance Score- Compliance with District requirements (sum of Field and Compliance Components)
• Processing time for questionnaires is 21 days.

In addition, Project or Program specific prequalification is required (allow 3 days for processing):

ITD LAN Modernization and Telecommunication Project-Specific Prequalification

• Requires C10 or C-7 license
• Must have successfully performed at least three telecommunications, LAN or other low voltage system projects within the last four years

WLAN Bundling Program RFQ

• Applies to larger bundled projects for Middle/High schools
• Requires C10 licensed contractor must have successfully self-performed either one prime or subcontract public works project valued at $2M or more

Job Order Contract WLAN/LAN Modernization RFP

• Applies to JOC Electrical and WLAN/LAN Modernization Contracts
• Requires C10 licensed contractor must have successfully performed three C10 or C-7 public works projects within the last five years

Can be completed online via Vendor Portal. For information, visit the Prequalification website at http://www.laschools.org/new-site/prequalification/. Vendor registration is required.
LAUSD Contacts

Contracts
Prequalification Unit
Anthony Gomez, Assistant Manager
8525 Rex Road
Pico Rivera, CA 90660
Ph: (562) 654-9007
Fax: (562) 654-9498
E-mail: prequalification@laschools.org
Website: http://www.laschools.org/new-site/prequalification/

Job Order Contract Unit
Christy Guzman, Assistant Manager
8525 Rex Road
Pico Rivera, CA 90660
Ph: (562) 654-9007
Fax: (562) 654-9498
E-mail: jobordercontracts@laschools.org
Website: http://www.laschools.org/new-site/bidding-opportunities/joc/

Formal Contracts
Debbie Duvernay, Assistant Manager
8525 Rex Road
Pico Rivera, CA 90660
Ph: (562) 654-9406
Fax: (562) 654-9047
E-mail: formalcontracts@laschools.org
Website: http://www.laschools.org/new-site/bidding-opportunities/formal

Project Execution/ITD

Project Execution
North/Valley Region:
Construction Manager (Sr.): Tim Milstead
Cell: (213) 276-4855 E-mail: tim.milstead@lausd.net
OAR: Phil Abell
Cell: (213) 598-3673 E-mail: philip.abell@lausd.net
OAR: Matt Blain
Cell: (213) 984-4959 E-mail: matthew.blain@lausd.net

Central Region:
Sr. Project Manager II: Peter Contis
Cell: (310) 502-9684 E-mail: peter.contis@lausd.net
OAR: Justin Devers
Cell: (213) 503-6420 E-mail: justin.devers@lausd.net
OAR: Miguel Renteria
Cell: (213) 400-1488 E-mail: miguel.renteria@lausd.net

South Region:
Sr. Project Manager II: Leighton Hickman
Cell: (213) 219-3740 E-mail: leighton.hickman@lausd.net
OAR: Ilya Veyts
Cell: (213) 760-0130 E-mail: ilya.veyts@lausd.net
OAR: Arturo Alvarez
Cell: (213) 505-8043 E-mail: arturo.alvarez@lausd.net

ITD
Craig Sorbom
333 S. Beaudry Avenue
Los Angeles, CA 90017
Ph: (213) 241-1231 Fax: (213) 241-6843
E-mail: craig.sorbom@lausd.net
References

1. Job Order Contracting
   http://www.laschools.org/new-site/bidding-opportunities/joc/

2. JOC Resources
   http://www.laschools.org/new-site/bidding-opportunities/joc/resources

3. Assembly Bill (AB) 2580 and Public Contract Code (PCC) 20919 – legislation and statutes are included in the RFP package

4. Prevailing Wage / Labor Compliance Program (LCP)
   http://www.laschools.org/new-site/labor-compliance/

5. Project Stabilization Agreement (PSA)
   http://www.laschools.org/new-site/project-stabilization/

6. Small Business Enterprise (SBE)
   http://www.laschools.org/new-site/small-business/

7. Owner Controlled Insurance Program (OCIP)
   http://www.laschools.org/fcs/cc/pq/file-storage/?folder_id=1045824

8. District’s technical specifications available online at
   http://www.laschools.org/documents/?folder_id=219598873
Q&A
**Back-up**

**Project Execution/ITD WLAN Deliverable**

- Upgrade to new Core Switch with 10GB Uplinks to Power-Over-Ethernet (POE) switches for Wireless Access Point (WAP) connections

- Upgrade router and add new wireless controllers

- Add 10GB scalable fiber backbone to new POE switches

- Build complete pathway infrastructure for all WAP cabling

- Migrate all existing network switches into new Core Switch

- Replace high failure rate networking equipment (switches) where necessary

- Install OPTEMAN (proprietary AT&T Scalable Fiber Network) infrastructure for new high speed Wide Area Network (WAN) connections