



**Board of County
Commissioners**
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Office of Support Services
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Director
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Manager

Addendum #1 - Issued on May 8, 2009

Regarding Bids for **Enterprise Network & Switching System - Multi-Purpose Arena (ITB 09-025P)** through Lucas County Administration, bid opening scheduled for May 13, 2009 at 2:00 PM (local time).

This document becomes a fully incorporated part of the specifications, and this letter constitutes legal notice of this requirement.

The entire original Bid Packet including this addendum must be submitted prior to the Bid Opening Date and Time.

Please see attached:

- 1) Highlights From The Mandatory Pre-Bid
- 2) Revised Schedule
- 3) Important Notice To Bidders
- 4) RFI's
- 5) Drawings
- 6) Pre-Bid Sign-In Sheet

LUCAS COUNTY MULTI-PURPOSE ARENA
ENTERPRISE NETWORK AND SWITCHING SYSTEM

BID PACKAGE(ITB): 09-025P

HIGHLIGHTS FROM THE MANDATORY PRE-BID MEETING HELD ON – APRIL 30, 2009

- **Romanoff Electric** will be the installer of hardware on this project (**EDGE SWITCHES and UPS ONLY**).
- The delivery of the equipment to Romanoff Electric should be a positive hand-off with a sign-off of the equipment.
- The service elevator will be available to the Suite Level with access to Intermediate Closets.
- Pricing sheet clarification: ***The Owner reserves the right to accept and/or reject any or all of the Itemized bids. The Owner reserves the right to award Itemized bids to separate bidder/vendors.***
- **Clarification:** The lead Cisco contact manager for this project is **Joye Keller 419-509-3545**. Please ensure you are working with her on manufacturer clarification.

REVISED SCHEDULE:

Equipment Shipment - To immediately follow Letter of Intent
Completion – July 1, 2009

IMPORTANT NOTICE TO BIDDERS

*** IDF DRAWING HAS BEEN ATTACHED AS PART OF THIS ADDENDUM ***

Questions/RFI's/Approved Alternates/Clarifications

Lucas County Multi-Purpose Arena
Enterprise Network Routing and Switching System ITB 09-025P
Pre - Bid Questions (RFI)

**** THERE ARE NO APPROVED ALTERNATES FOR THIS BID PACKAGE ****
**** PLEASE QUOTE AS SPECIFIED ****

1. Is there any required cabling work outside of the Main Communications Room (MC) and each of the Communications Distribution Rooms (IC)?

Answer: ***The cable plant between the MC and the IC is installed. The only cable work will be that which is required for direct operation of the network equipment (i.e. patch cables).***

2. In reference to Section "1.3 Submittals", Paragraph D "As-Built Documents":
Does this need to be included as part of the bid package?

Answer: *"As-Built Documents" may be provided as part of the system commissioning process.*

3. In reference to Section "1.3 Submittals", Paragraph E: Is the to year requirement in this section the standard warranty plus one year?

Answer: *Yes*

4. In reference to Section "2.1 Technical Specifications", Paragraph F.10:
"Product Specification": Cisco Stackable 3560-48PD is recommended, However this switch is not stackable. Should we quote the stackable Catalyst 3750 switch?

Answer: *No, "Stackable" was left in the specification in error. Please provided quotes for Cisco 3650-48PD.*

5. In reference to Section "2.1 Technical Specifications", Paragraph P "Patch Cords", Part 7
"Station Equipment":
You reference a target count of (1800) Cat 6A patch cords. Is this in addition to the (1800) referenced in Part 6 "Communications Rooms" to give a total of (3600)?

Answer: *1800 Total*

6. In reference to Section "2.2 Functional Specifications", Paragraph I "Internet Protocol (IP)...":
It mentions that the contractor shall develop and provide an IP/DHCP Matrix. Is this Matrix required as part of the bid package?

Answer: *The IP/DHCP Matrix will be developed post bid award.*

7. In reference to Section "3.3 Maintenance", Paragraph E "Emergency":
It mentions that response time shall be within 4 hours however the manufacturer maintenance packages quoted in the pricing sheets are for "Next Business Day". Should we quote 4 hour maintenance?

Answer: *No, please provide "Next Business Day" pricing.*

8. In reference to Section G "Pricing Sheet", Miscellaneous Equipment: Section 1 "Fiber Patch Cables" and Section 4 "Category 6A Copper Patch Cables":
Should we show the extend price based on the projections in Section 2.1 Technical Specifications", Paragraph P "Patch Cords", Parts 6 and 7? If so, should we include these projected amounts in the "Equipment Subtotal" amount?

Answer: *Yes*

9. Do we need to provide the Hardware, Software and Labor to install a Network Management application and station as part of our bid response?

Answer: *Yes, refer to pricing sheet.*

10. Do we need to provide the Hardware, Software and Labor to install a Out of Band Management network and capability as part of our bid response?

Answer: *Yes, refer to pricing sheet.*

11. Is Lucas County going to specify the length and color of the patch cords required in the Bid Specification?

Answer: *Yes, all patch cables should be Category 6a and green in color. One third of the total patch cable count will be 1 Foot in length. One third of the total patch cable count will be 2 Feet in length. One third of the total patch cable count will be 4 Feet in length.*

12. In the Bid you state that "The Contractor shall coordinate, evaluate, and determine network bandwidth requirements for all systems connected to the Converged Data Network". Will Lucas County be providing the application definitions or is it assumed that the contractor will conduct a study of the existing application requirements prior to completing the final design?

Answer: *The contractor may be asked to conduct a study and/or coordinate existing information with regards to application requirements prior to completing the systems final design.*

13. Since there has been some changes in regards to the design, pricing and requirements are you going to extend the Bid due date?

Answer: *There have been no changes to the design, pricing and requirements since the bid package was issued therefore the bid due date will not be extended.*

14. Is this project tax exempt? What was the purpose of the "previously awarded sows" in the Bid?

Answer: *The project is tax-exempt and the Previously Awarded Scope of Work was only there for reference.*

15. Analysts International has another question regarding the "Submittals" section. Other than the "Project Data - A & B" section do we have to submit the remaining data requested "Shop Drawings, Wiring Diagrams, As-Built Diagrams and Application Documentation as part of our Bid Response? Or is the data in this section considered part of delivery?

Answer: *This information will be part of the project deliverables.*

16. From the section with the trade contract agreement

Section 3.6 in regards to fines and penalties for missing contract schedule dates:

With the high end equipment being purchased on this bid there is a substantial lead time from the manufacturer that we as the contractor have no direct control over. I need to make sure we are not held liable financially if the lead time from the manufacturer pushes the date of installation back beyond construction schedule (middle of June expected install).

Answer: *The Trade Agreement may not be modified so make sure you read and accept the terms. Section 3.6 will apply.*

17. CX4's - we need clarification on how they are going to be used.

Answer: *The 3560's will be interconnected.*

18. Upgrades will down the chassis without redundant supervisor blades.

Answer: *Redundancy is achieved through dual Cores.*

19. Redundant power supplies, on edge require RPS. (Clarification)

Answer: *Correct, not all closets will require RPS (To be determined once the bid is awarded).*

a.) The Nexus blades use SFP Plus modules - these are not the same form factor as the: X2-10GB-CX4 (10GBASE-CX4 X2 Module)

The X2-10GB-CX4 (10GBASE-CX4 X2 Module) - are X2 Modules that can connect 2 switches on Copper CX4 Cables. (Example: 3560E to 6509E) Each side would have a CX4 Module and they would use a CX4 InfiniBand Cable. Is it your intention to connect 8 switches to the Nexus on copper?

It is our recommendation that you remove the count of (16) X2-10GB-CX4's and change the number of needed Quantity (32) : (X2-10GB-LR / X2-10GB-ER / X2-10GB-SR), and use Fiber to connect to the Nexus.

Answer: *Please bid as specified (Final interconnect to be determined once the bid is awarded).*

b.) Per bid spec the upgrades will not work on the Nexus platform without dual supervisors. Would you like to increase the supervisor count to (2) per chassis?

Two supervisor modules are required in a Cisco Nexus 7000 Series system for high availability with active standby redundancy, where one supervisor module is operationally active, and the standby device serves as a hot backup. Out-of-band access to both supervisors is available from either CMP."

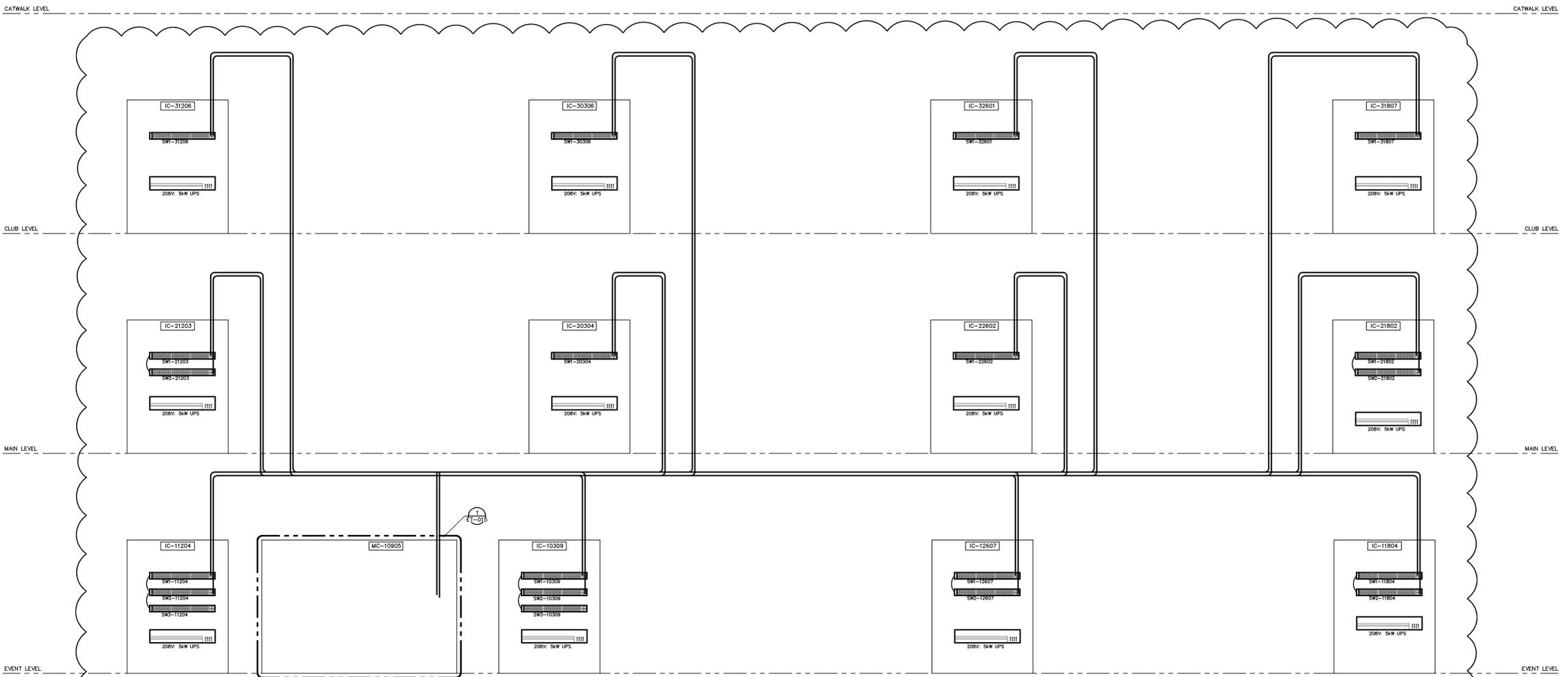
http://www.cisco.com/en/US/prod/collateral/switches/ps9441/ps9402/ps9512/Data_Sheet_C78-437758.html

Answer: *This is not a requirement, bid 1 supervisor per N7k.*

c.) The bid calls for redundant power supplies on the edge. The edge 3560E's can only have redundant power if we use the RPS unit. An RPS unit provides an additional power cable to the 3560E as a 'DC' power connection, in case the 'AC' connection fails. An RPS unit has multiple connections and a single RPS unit can provide up to 6 backup 'DC' connections, however, it can't provide power to all 6 at the same time.

Answer: *Correct, these switches are spread out across closets not all closets will require RPS (To be determined once the bid is awarded).*

QUAD '1' QUAD '2' QUAD '3' QUAD '4'



GENERAL NOTES:

- REFER TO SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS.
- REFER TO SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS.
- REFER TO ET0-14 NETWORK TOPOLOGY ONE-LINE.



HNTB
 HNTB Ohio Architecture, Inc.
 The HNTB Companies
 ARCHITECTS
 ENGINEERS
 PLANNERS
 715 Kirk Drive
 Kansas City, Missouri 64105
 (816) 472-1201 Fax (816) 472-4060

The Collaborative Inc.
 500 Madison Avenue
 Toledo, OH 43604
 PH (419) 242-7405 FAX (419) 242-7400
 Poggenmeyer Design Group
 1168 North Main Street
 Bowling Green, OH 43402
 PH (419) 302-7037 FAX (419) 353-0187
 M-E Engineers, Inc.
 10055 W. 43rd Avenue
 Wheatridge, Colorado 80033
 PH (303) 421-6655 FAX (303) 421-0331
 FP&C, Inc.
 One West Parkway, Suite 200
 Kansas City, Missouri 64112
 PH (816) 631-3777 FAX (816) 631-3378

KEY NOTES:
 (SOME KEY NOTES MAY NOT APPLY TO THIS SHEET.)

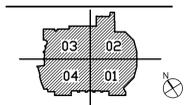
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LUCAS COUNTY MULTI-PURPOSE ARENA

500 Jefferson Ave
 Toledo, Ohio

PREPARED FOR
 Board of Lucas County Commissioners



CONSTRUCTION DOCUMENTS

BID PACKAGE NAME: ARCHASYS/STMS
 BID PACKAGE NUMBER:

DATE	APRIL 30, 2008	
ISSUED FOR	CONSTRUCTION DOCUMENTS	
HNTB PROJECT NO.	41937	
DRAWN BY	M.E.	
CHECKED BY		
APPROVED BY		
REVISION	DATE	DESCRIPTION
1	05/30/08	ADDENDUM 01
2	06/16/08	ADDENDUM 03

NETWORK
 TOPOLOGY
 ONE-LINE
 DIAGRAM SCALED
 CONNECTIVITY
ET-014
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ACCESS LAYER SWITCH SCHEDULE

Switch No.	Room No.	Level	EQUIPMENT			POWER		CONFIGURATION				CORE	NOTES		
			Part No.	Type	Ports	PS1	PS2	POE	UPLINK	UPLINK RED.	BACKPLANE CORE				
1	SW1-11204	11204	EVENT	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G		64GBPS	1	
2	SW2-11204	11204	EVENT	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G		64GBPS	2	
3	SW3-11204	11204	EVENT	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1 & 2	
4	SW1-10309	10309	EVENT	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G		64GBPS	1	
5	SW2-10309	10309	EVENT	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G		64GBPS	2	
6	SW3-10309	10309	EVENT	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1 & 2	
7	SW1-12607	12607	EVENT	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1	
8	SW2-12607	12607	EVENT	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	2	
9	SW1-11804	11804	EVENT	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1	
10	SW2-11804	11804	EVENT	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	2	
11	SW1-21203	21203	CONCOURSE	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1	
12	SW2-21203	21203	CONCOURSE	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	2	
13	SW1-20304	20304	CONCOURSE	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1 & 2	
14	SW1-22602	22602	CONCOURSE	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1 & 2	
15	SW1-21802	21802	CONCOURSE	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1	
16	SW1-21802	21082	CONCOURSE	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	2	
17	SW1-31206	31206	CLUB	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1 & 2	
18	SW1-30306	30306	CLUB	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1 & 2	
19	SW1-32601	32601	CLUB	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1 & 2	
20	SW1-31807	31807	CLUB	3750E - 48PD	MANAGED	48	NOTE 1	765W	A	YES	10G	10G	64GBPS	1 & 2	

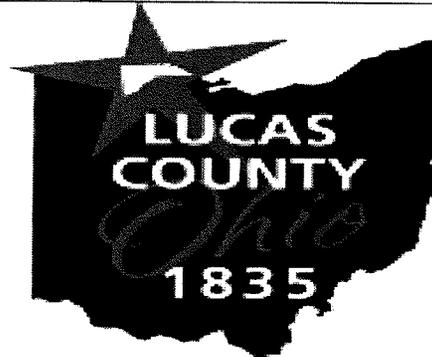
GENERAL NOTES:
 1. CONTRACTOR TO VERIFY VLAN ASSIGNMENTS WITH OWNER

C-047 RECEIVED 6/18/2008

Mandatory Pre-Bid - Enterprise Network & Switching Meeting Sign-In Sheet

Project: Lucas County Multi-Purpose Arena

Date: April 30, 2009 @9:00 am



NAME	COMPANY	PHONE No.	E-MAIL ADDRESS
Kevin Horvath	AT&T	440/392-0590	kh2171@att.com
Jason Humphreys	AT&T	614/223-5841	jh3613@att.com
T. Belzak	AT&T	313/719-0056	tb5813@att.com
KEITH BARRA	ANALYSTS INT.	248 232-5132	KBARRA@ANALYSTS.COM
Brian Schrage	Analysts Int	313 460 8505	BSCHRAGE@ANALYSTS.COM
Kyle Decker	LOGOS Communications	419 636 0238	KDECKER@LOGOSINC.COM
Marcus Dehler	Doan Pyramid	216-584-2695	MDEHLER@DOANPYRAMID.COM
JOE PERKINS RIDD	LAISE Technology	419 356 0190	JOE.PERKINS@LAISE.COM
MIKE MARTIN	NETECH CORP	248-773-0467	MMARTIN@NETECHCORP.COM
ERIC LACY	DMC	419-535-2900	eric.lacy@dmctechgroup.com
LOU LOTZ	AMR	(248) 336-0267	lloz2@amr-group.net

