

MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
INTELLIGENT TRANSPORTATION SYSTEMS COMMITTEE

April 2, 2003
MAG Cholla Room, 2nd Floor
302 North First Avenue
Phoenix, Arizona

MEMBERS ATTENDING

Jim Book, Glendale	Amy Corathers for Bruce Dressel,
*Alan Sanderson, Mesa	Scottsdale
Mike Mah, Chandler	Jim Decker, Tempe
Mike Sutton for Bruce Ward, Gilbert	Tim Wolfe, ADOT
Yogesh Mantri for Nicolaas Swart, Maricopa County	Scott Nodes, Peoria
Bob Steele, Phoenix	Chuck Hydeman, Goodyear
Bob Ciotti, RPTA	*Mary Kihl, ASU
*Terry Conner, DPS	Alan Hansen, FHWA
Bob Maki, Surprise	Cindy Lizarraga for Dennis Murphy, Phoenix Aviation
	*Punya Khanal, Avondale

OTHERS PRESENT

Debbie Cotton, Phoenix	Meifu Wang, FHWA
Mike Nevarez, Phoenix Transit	Audrey Skidmore, MAG
Xiao Qin, MAG	David Haines, Kimley-Horn Associates
Sarath Joshua, MAG	Don Tappendorf, Kimley-Horn Associates

* Not present or represented by proxy

1. Call to Order

Chairman Jim Book called the meeting to order at 9:35 AM.

2. Call to Audience

Chairman Book made a call to the audience providing an opportunity to members of the public to address the ITS Committee. There was no comment from the audience.

3. Approval of March 5, 2003 Meeting Minutes

Chuck Hydeman moved and Robert Maki seconded, and it was unanimously carried to approve the minutes of the March 5, 2003 ITS Committee meeting.

4. Program Managers Report

The following is a summary of the report to the committee provided by Sarath Joshua:

- Update on ITS On-Call RFQ – This project and the list consultants recommended by the committee was approved by the Regional Council on March 26, 2003. The second phase of the RFQ process has been initiated and MAG is currently awaiting responses from the selected consultants.

5. Application by the City of Phoenix for TIP Close-out funds for Fiber Optic Backbone Project

Bob Steele presented the scope of this proposed project to establish a telecommunication backbone to support a number of ITS applications within Phoenix and other surrounding communities. He pointed out that the following facilities would be connected by this backbone:

Deer Valley Airport to Skyharbor Airport
ADOT TOC to ADOT HQ
Transit and LRT system connections to ADOT
DPS to Phoenix PD
Phoenix Fire to ADOT TOC

ITS field components that will be connected are: 43 traffic signals; one DMS at 19th Ave north of Thunderbird

Project Details: a total of 21 miles; 8 miles of new conduit and 13 miles within existing conduit that city has access to via agreements with various telecomm providers. Capacity of fiber backbone will be either 144 strands or two 96 strands single mode fiber optics. Branches will be 12 or 24 SMFO.

Project Status: Original DCR was delivered in Nov 2002. Draft EA delivered in Feb 2003

PS&E has been completed at 60 percent. Plans are to advertise for construction in Fall 2003

Estimated cost of Phase A \$3.7m

Bob Steele called for proposals from member agencies interested partnering in Phases B and C. These phases will involve fiber along Loop 101 back to downtown Phoenix. Parts of that will go along SR 51 to Camelback and down 44th St to Washington.

A new method of installing fiber called maxcell will be used. This will provide a lot of flexibility to how conduit capacity is utilized. Phase A is too far along to change but Phoenix is open to suggestion on the scopes for Phases B and C.

Tim Wolfe indicated that use of ADOT conduit along SR 51, through a Phoenix-ADOT partnership, would be limited strictly for public agency use.

In response to a question by Chairman Book asked if this project was initially planned to be locally funded. Mike Frisbie explained that the project was initially submitted as

locally funded but it is now seeking funds, as it will have more of a regional impact.

In response to a question by Mike Mah on where closeout funds come, Sarath Joshua indicated that deferred projects and unobligated funds make up the total. He asked if the Tempe ITS project would obligate. Jim Decker replied that the Tempe Parking Management System project is considered obligated. He indicated that efforts are underway to utilize the funds for transit/LRT ITS applications.

Jim Decker stated the proposed Phoenix project needs to coordinate better with other regional fiber projects such as Transit WAN. Chairman Book expressed concern that if the project is to be recommended by the MAG ITS Committee, some assurances are needed that the project will be obligated in time. Mike Frisbie and Bob Steele assured that this project is not being promoted as an ITS project.

Alan Hansen stated that FHWA is seeing many fiber optic projects coming and is concerned because FHWA is unable to see the connections between all the proposed projects without a lot of redundancy.

Debbie Cotton said that she is responsible for designing the Wide Area Network for the Phoenix Transit's Vehicle Management System. She further stated that there are no plans to install fiber as part of that project. She indicated that current plans are to utilize Qwest for communications for the VMS project, and that will cost several hundred dollars per site.

Bob Steels commented that this has come up at an AZTech meeting and that ADOT volunteered a staff member to keep track of all communications projects.

David Haines commented that the Regional Community Network project provides the larger regional vision to interconnect all the MAG member agencies utilizing existing regional connections.

The time frames for Phases B and C have not been discussed.

Jim Decker moved and Scott Nodes seconded that the proposed Fiber Optic Backbone project be recommended by the MAG ITS Committee.

Discussion: Bob Maki stated that he needed more information before he could act on this project. Alan Hansen recommended a subcommittee to oversee telecommunications connections to avoid creating parallel redundant fiber corridors. Mike Mah asked how the total cost was arrived at and possible regional benefits. Bob Steel indicated that the full potential of the project for regional benefits have not been fully explored.

A voice vote was taken and the motion carried unanimously.

6. Update on Regional Community Wide Area Network Study

David Haines of provided a brief presentation of this proposed project. It consists of 3 components: public sector facilities; community component; and communications service provider component.

Public sector included a regional public sector telecomm need identified. A tiered ring topology was used. The backbone will consist of SONET OC-48 rings in parallel with 3GB Ethernet.

Five phases were identified:

Phase 1:ADOT TOC, Glendale and MAG (and Valley Metro)

Phase 2 Existing fiber

Phase 3: Planned fiber

Phase 4: All other agencies

Phase 5: Second regional hubs for redundancy

Audrey Skidmore stated that there is no funding identified for this at this time. She stated that this project will be seeking regional funds. Phase 1-4 \$ 27 m; Phase 5 \$9m. Costs were based on national unit costs. Cost savings from this project has been estimated at \$680,000 per year from current uses.

7. Status Reports by Committee Members

Amy Corathers indicated that Indian School Road project evaluation is close to being finalized. Chuck Hydeman reported that Litchfield Road fiber is being installed. Under Phase 2 fibers being installed in Estrella Parkway. Goodyear is also considering moving the TOC project from 2007 to 2004 as a cost saving measure. Scott Nodes announced a Transportation Security workshop to be held on April 29th in Scottsdale.

8. Next Meeting Date

Next meeting date was announced as 9:30 AM on Wednesday May 7, 2003. The Concept of Operations project meeting was announced as 10:30 AM on the same day.

9. Adjournment

Chairman Book adjourned the meeting at 10:30 AM.