

1510 W. Adams Fiber Splicing
Arizona Department of Administration

PIJ ID:	AD14013	Project Start Date:	3/25/2014	Project End Date:	5/16/2014
Agency Contact:	Gary Hensley	Phone:		Email:	
Project Manager:	Allan Gazza	Phone:		Email:	

Project Change Request (Amendment)

Date Submitted:	5/1/2014	Prepared by:	Allan Gazza
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Affected Areas: (Check all that apply)	Project End Date <input checked="" type="checkbox"/>	Development Cost <input checked="" type="checkbox"/>	Project Scope <input checked="" type="checkbox"/>
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NOTE: The appropriate revised pages from the Project Investment Justification (PIJ) document MUST accompany this form.

Currently Recorded Dates/Costs				Requested Revisions To Dates/Costs			
Start Date	End Date	Development Cost	Total Cost	Start Date	End Date	Development Cost	Total Cost
03/25/14	05/16/14	\$ 46,051	\$ 46,051	03/25/14	06/07/14	\$ 93,754	\$ 92,385

Change Description (AS IS - TO BE)

Change Order 1 - During fiber splicing of 432 strand fiber to new 144 strand fiber that connects to the AZNet II patch panels it was discovered the patch panel connectors were defective and not allowing connection. Team Fishel proceeding with testing the patch panels and connectors and their analysis revealed that the anaerobic connectors have failed. The result of the failure was determined to be a result of improper installation of connectors on the fiber resulting in epoxy being able to leak into the fiber strands. Team Fishel had to cut the defective connectors from the patch panel, and hard splice the fiber eliminating the patch panel. This temporary hard splicing was done to restore services to the agencies until a permanent solution to install new connectors could be completed.

-----Change Order 2 - Team Fishel will convert the existing 144 Strand patch panels that had defective anaerobic connectors in Change Order 1 to fusion spliced pigtailed patch panels. This will involve installation of 48 Corning cassette type splice trays loaded with splice protectors to retrofit the existing chassis already installed in the SDC. Team Fishel will also install fourty eight 12 strand SC Single Mode connectors which will involve 576 fiber splices. All 576 splices will be tested using Optical Time Domain Reflectometer (OTDR) for required One way fiber optic test results.

-----Change Order 3 - Team Fishel will shorten two 12 strand fiber cables in splice case located under the floor in the SDC WAN room to eliminate excess cable that has micro-bends. They will manually work out an micro-bends that are still present in the shortend fiber. New 1 ¼" inner duct from floor penetration in floor to the splice case will be placed over the fiber for protection. They will test the fiber using a raw fiber adapter and perform OTDR one way test to verify exceptable fiber Decibal (dB) losses prior to splicing.

Business Justification Summary

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Team Fishel had to provide a temporary solution to bring all the service impacted agencies back online after it was discovered the fiber patch panels in the new AZNet II meet location had defective anaerobic connectors that failed after 1 year of being installed. Team Fishel identified all four fiber patch panels that need to be used to complete this project have 70% of connectors that do not function properly. This temporary solution needs to be removed and receive permanent fusion splicing done on the fiber so the patch panels can be used to provide a long-term sustainable fiber infrastructure. The micro-bend in the fiber needs to be eliminated to prevent in-service connection interruptions, and reduce the financial impact of emergency restoration. An in-service connection interruption on this fiber could cause Department of Corrections to go into a lock-down condition for an extended time period until services are restored. Additional DPS (Capitol Police Division) officers will be required to provide additional security to buildings that are affected by the fiber splicing. This service is required due to badge readers, and Fire Alarm monitoring services being disconnected during the fiber splicing activities.

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List Known Dependencies/Risks/Constraints

1. Agencies availability to have service interruption outside of agency black out windows
2. Communication to all agencies (DPS, GSD, and agencies affected during this activity)
constraints of completing work prior to end of fiscal year for funding change orders and project completion.

3. Time

Submitted by (Printed Name)

Chief Information Officer (Printed Name & Signature)

Allan J. Gazza

Aaron V. Sandeen

Attach CIO signature for Cost changes. Email from CIO acceptable for other changes. Complete all information above this line.

(For ASET Use Only)

Reviewed by:

Review Date:

Approved by:

Approved Date:

Comments: