



Wharton County Junior College

Board of Trustees Agenda Item

Complete and submit this form, along with any supplemental documentation, to the Office of the President by 5:00pm on the seventh day prior to the Board meeting.

Date of Board Meeting: February 21, 2023

Subject: Network Infrastructure Upgrade

Recommendation: Approve the RockIT proposal to upgrade the WCJC network infrastructure at the Wharton Campus.

Background and Rationale:

WCJC's current and future technology needs require an improved network infrastructure and wireless environment. In an effort to modernize and future-proof our various systems, this proposal seeks to upgrade the network on the Wharton Campus through the installation of single mode Fiber from the Security building to the Peace, Library, Science, and Administration buildings. Installation of 12 strand single mode fiber will immediately provide enhanced support for our LEARN telephone and internet services, as well as our fire alarm system. Future needs, including virtualization and supporting a cloud-based solution for the Banner ERP system will also require this upgrade.

Cost and Budgetary Support: \$148,800 (to be transferred from the MIS fund)

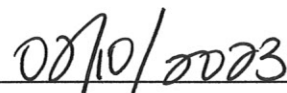
Strategic Priority Alignment:

<input type="checkbox"/> Student Success	<input type="checkbox"/> Community Impact
<input checked="" type="checkbox"/> Resource Optimization	<input checked="" type="checkbox"/> Institutional Excellence


Resource Person(s): Amanda Allen, Ed.D.; VP of Strategy, Enrollment Management, and Technology

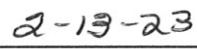
Signatures:


Cabinet-Level Supervisor


Date 02/10/2023

President's Approval:


President


Date 2-13-23



We have prepared a quote for you

**Phase One - Primary Fiber at WCJC Wharton
Campus**

Quote # 002166
Version 3

Prepared for:

WCJC

Mathew Robby
robbym@wcjc.edu

CO-OP Info

TIPS - 200105 Technology Solutions Products and Services

This project is quoted as a whole project. The buildings can not be broken down individually as quotes to be approved.

We recommend contingency be set aside by WCJC for any oversights on projects this size.

Library

Description	Price	Qty	Ext. Price
Professional Services - Cabler Cabler - New 12 strand single mode fiber - Security to Library (includes conduit pathways). <ul style="list-style-type: none"> Approximately 790 linear feet of directionally bored conduit. Approximately 900 linear feet of 12 strand OS2 fiber. Armored cabling will be used inside the building and OSP cabling will be used underground. Corning fiber termination tray and LC termination 	\$44,222.22	1	\$44,222.22
Professional Services - IT - Fixed Consultant II – Network Infrastructure -Cutover of Fiber - Installation of SFPs & Configuration	\$540.00	1	\$540.00
MA-SFP-10GB-LR -FL Fluxlight - 10G Base LR Single-Mode - For Data Networking, Optical Network - 1 x 10GBase-LR Network10	\$42.36	2	\$84.72
Subtotal:			\$44,846.94

Admin

Description	Price	Qty	Ext. Price
Professional Services - Cabler Cabler - New 12 strand single mode fiber - Security to Admin (includes conduit pathways) <ul style="list-style-type: none"> Approximately 450 linear feet of directionally bored conduit. Approximately 1200 linear feet of 12 strand OS2 fiber. Armored cabling will be used inside the building and OSP cabling will be used underground. Corning fiber termination tray and LC termination 	\$29,333.33	1	\$29,333.33
Professional Services - IT - Fixed Consultant II – Network Infrastructure -Cutover of Fiber - Installation of SFPs & Configuration	\$540.00	1	\$540.00
MA-SFP-10GB-LR -FL Fluxlight - 10G Base LR Single-Mode - For Data Networking, Optical Network - 1 x 10GBase-LR Network10	\$42.36	2	\$84.72
Subtotal:			\$29,958.05

Peace

Description		Price	Qty	Ext. Price
Professional Services - Cabler	Cabler - New 12 strand single mode fiber - Security to Peace (includes conduit pathways) <ul style="list-style-type: none"> Approximately 370 linear feet of directionally bored conduit. Approximately 900 linear feet of 12 strand OS2 fiber. Armored cabling will be used inside the building and OSP cabling will be used underground. Corning fiber termination tray and LC termination 	\$26,444.44	1	\$26,444.44
Professional Services - IT - Fixed	Consultant II – Network Infrastructure -Cutover of Fiber - Installation of SFPs & Configuration	\$540.00	1	\$540.00
MA-SFP-10GB-LR -FL	Fluxlight - 10G Base LR Single-Mode - For Data Networking, Optical Network - 1 x 10GBase-LR Network10	\$42.36	2	\$84.72

Subtotal: **\$27,069.16**

Science

Description		Price	Qty	Ext. Price
Professional Services - Cabler	Cabler - New 12 strand single mode fiber - Security to Science (includes conduit pathways) <ul style="list-style-type: none"> Approximately 50 linear feet of directionally bored conduit. Approximately 825 linear feet of 12 strand OS2 fiber. Armored cabling will be used inside the building and OSP cabling will be used underground. Corning fiber termination tray and LC termination 	\$11,777.78	1	\$11,777.78
Professional Services - IT - Fixed	Consultant II – Network Infrastructure -Cutover of Fiber - Installation of SFPs & Configuration	\$540.00	1	\$540.00
MA-SFP-10GB-LR -FL	Fluxlight - 10G Base LR Single-Mode - For Data Networking, Optical Network - 1 x 10GBase-LR Network10	\$42.36	2	\$84.72

Subtotal: **\$12,402.50**

Reynolds

Description		Price	Qty	Ext. Price
Professional Services - IT - Fixed	Consultant II – Network Infrastructure -Cutover of Fiber - Installation of SFPs & Configuration.	\$540.00	1	\$540.00
MA-SFP-10GB-LR -FL	Fluxlight - 10G Base LR Single-Mode - For Data Networking, Optical Network - 1 x 10GBase-LR Network10	\$42.36	2	\$84.72

Reynolds

Description	Price	Qty	Ext. Price
Subtotal:			\$624.72

Security

Description	Price	Qty	Ext. Price
MA-SFP-10GB-LR -FL Fluxlight - 10G Base LR Single-Mode - For Data Networking, Optical Network - 1 x 10GBase-LR Network10	\$42.36	34	\$1,440.24
MA-SFP-1GB-TX-FL 1 GbE SFP Copper Module	\$32.50	2	\$65.00
5P3000RT 5P 3000VA LCD+ RT 120V 2U PERP	\$1,791.74	2	\$3,583.48
Network-M2 GIGABIT NTWK CARD	\$393.69	2	\$787.38
F92ERLNLNSNM001 1M 2FIBER OS2 LC/LC DUPLEX CABL 1.6MM RISER	\$39.72	70	\$2,780.40
SRSHELF2PDP 2U RACK ENCLOSURE FIXED SHELF SHEL CANTILEVER 2/4POST COMPATIBLE DEEP	\$79.05	2	\$158.10
UTP28SP10OR 10FT ORANGE CAT6 SD COPPER CABL PATCH CORD EA	\$13.58	4	\$54.32
EA-5002-C 24 (5-20) OUTLET SWITCHED PDU 120V 30A - BLACK	\$2,031.25	2	\$4,062.50
ZA35-A1200-71 Chatsworth Server Cabinet	\$5,000.00	1	\$5,000.00
Professional Services - Cabler Rack/Cabinet-Replacement Labor	\$906.25	1	\$906.25
Professional Services - Cabler 4-Post-Server Cabinet Install Labor Only	\$593.75	1	\$593.75
Professional Services - Cabler Armored-OS2-Run+Install	\$1,500.00	1	\$1,500.00
Professional Services - IT - Fixed Equipment-Install and Configuration of Listed Equipment	\$7,560.00	1	\$7,560.00
Professional Services - IT - Fixed Project-Management-Labor	\$5,400.00	1	\$5,400.00
Subtotal:			\$33,891.42

► Main Campus Scope of Work

Cabling Scope

- Install underground pathways for Singlemode Fiber as indicated to the Peace, Library, Science and Admin

Buildings on the Fiber Layout Map Provided by RockIT.

- Singlemode Fiber run from Security Building to Peace, Library, Science, and Admin buildings, terminated and tested.
- Install 4 post cabinet in security building.
- Move ISP fiber into cabinet in Security building.
- Terminate all fiber into new cabinet in Security building.
- Cabling equipment to include:

Corning fiber termination components
Panduit copper termination components
Chatsworth 4 post rack enclosures
Chatsworth 2 post rack and vertical cable managers

Networking Scope

- Split core switch stack in Library and reconfigure as distribution node.
- Move 1 MS425 core switch from library to Security Building to configure as new core.
- Move firewall and IPS from library into new cabinet in security building.
- Connect SFPs/fiber on both ends for all new fiber runs and for the Reynolds Building.

Assumptions

- WCJC will install L5-30 receptacles where necessary.
- WCJC will remove equipment from areas to make them accessible to install in.
- WCJC will assist in identifying legacy ISP/Telco equipment and remove where possible.
- Weekend long downtime at the Richmond campus will be acceptable to perform the installation tasks.
- Access will be provided to the location throughout scheduled times.
- Single mode OS2 run between buildings will use existing pathway.
- Site must be ready for equipment installation before visit.
- WCJC to provide access to areas for installation.
- WCJC will need to procure the proper permits if any deemed necessary.
- WCJC is to provide accurate maps of underground utilities for boring purposes.
- Additional visits may require a change order.

Phase One - Primary Fiber at WCJC Wharton Campus

Prepared by:

RockIT Consulting LLC.



Nicky Stavinoha
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Prepared for:

WCJC

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Wharton, TX 77488
Mathew Robby

robbym@wcjc.edu

Quote Information:

Quote #: 002166

Version: 3

Delivery Date: 02/08/2023

Expiration Date: 01/26/2023

Quote Summary

Description	Amount
Library	\$44,846.94
Admin	\$29,958.05
Peace	\$27,069.16
Science	\$12,402.50
Reynolds	\$624.72
Security	\$33,891.42

Total: \$148,792.79

Taxes, shipping, handling and other fees may apply. We reserve the right to cancel orders arising from pricing or other errors.

RockIT Consulting LLC.

WCJC

Signature:



Name:

Nicky Stavinoha

Title:

Senior Sales / Account Manager

Date:





02/08/2023

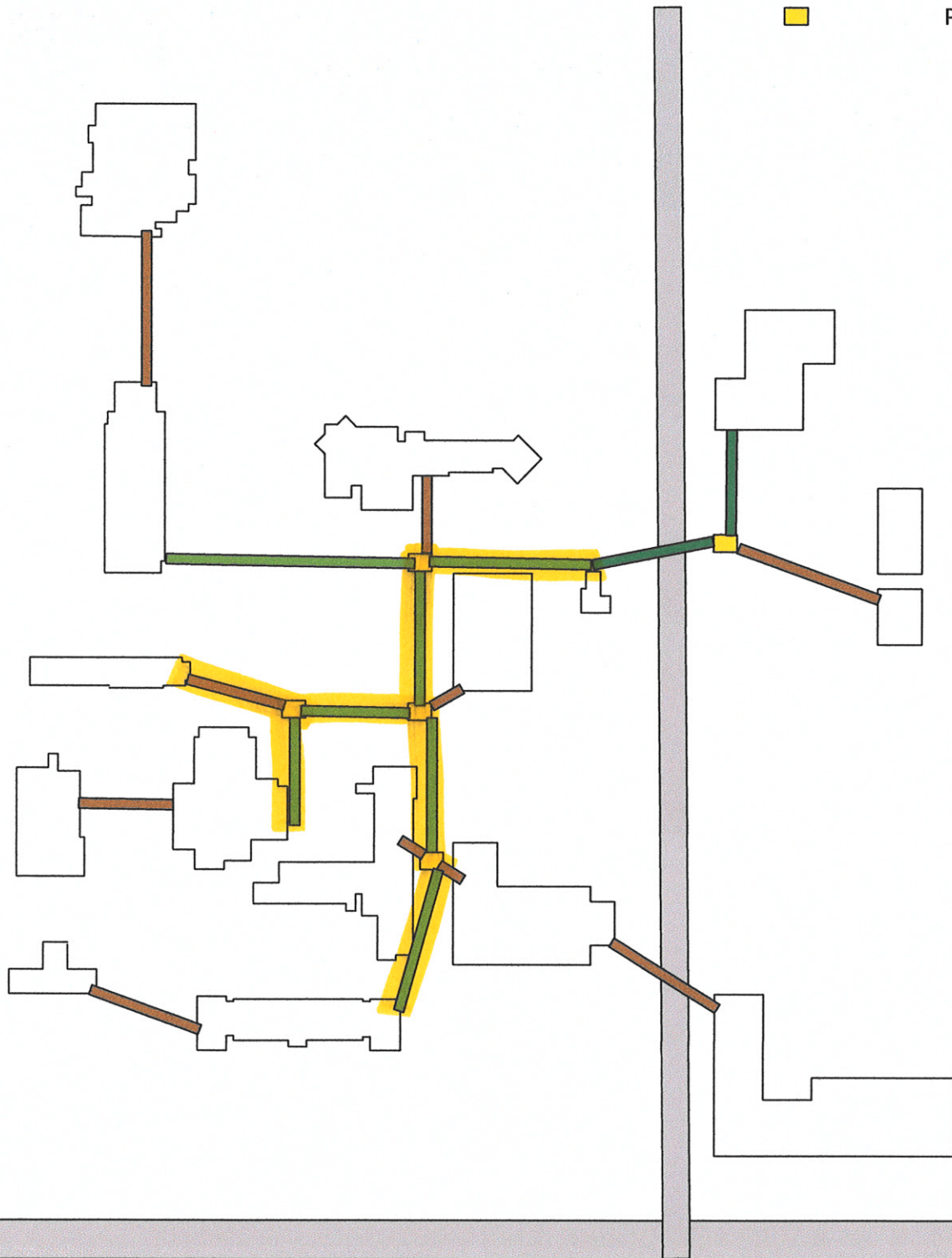
Signature:

Name:

Mathew Robby

Date:

-  Backhaul Track
-  Existing Underground
-  Ties Through Backhaul Track
-  Pullbox



Notes

This is a rough map and should be used to demonstrate potential pathways only.

For internal use only.



Potential Fiber Pathways

For:	WCJC		
Date:	10/28/2022	Rev:	0001