Proposed Studio Plan: Fiber Optic Upgrades

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Introduction

This project will demonstrate the skills needed to design and facilitate the creation of an extension to a new studio space designated for multiple applications within the department's needs. It will also provide the skills needed for negotiating budgets and trade offers in our ever-evolving industry.

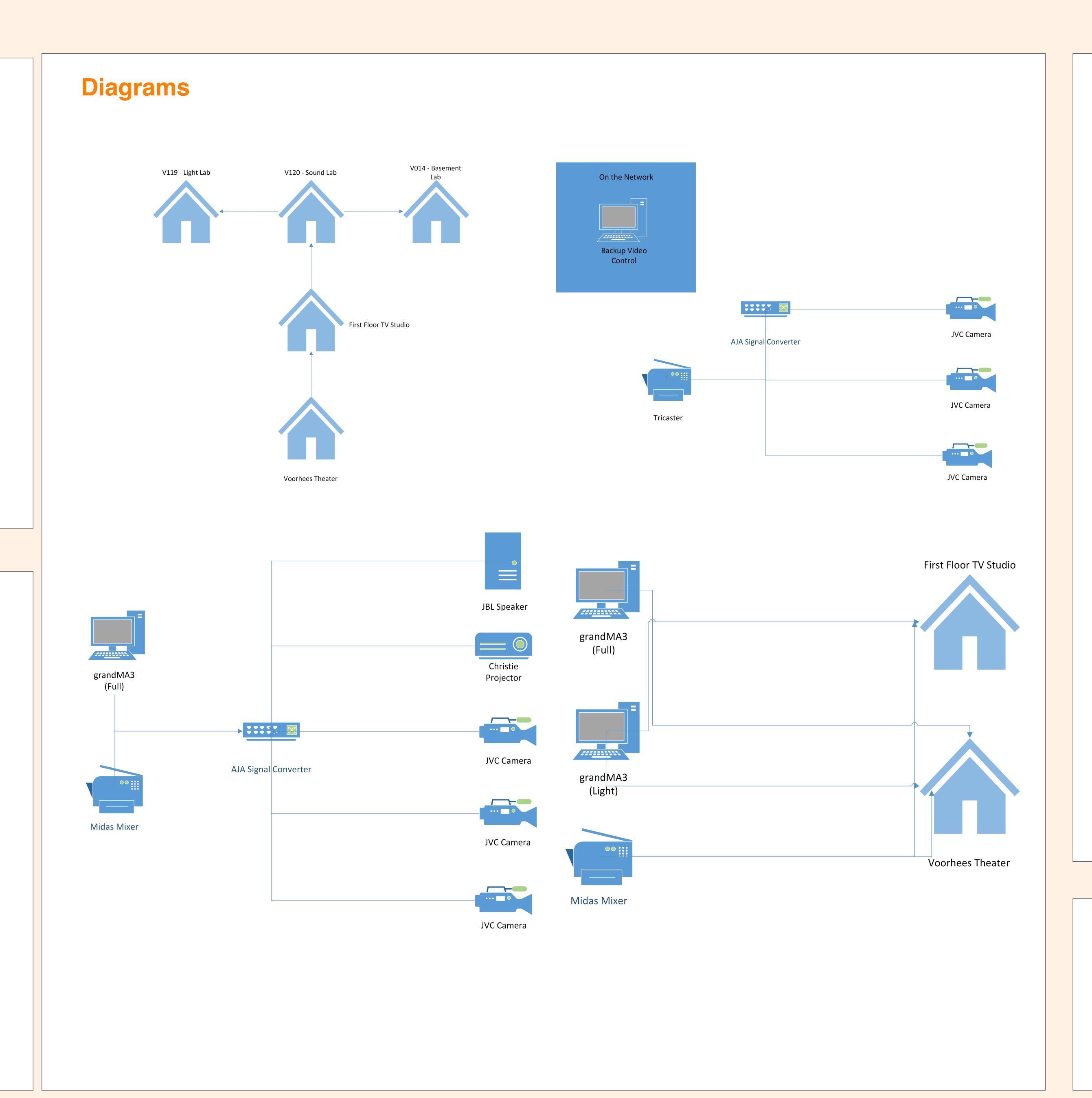
The department's video studio is currently shared space in the NAMM building. Talk is underway to move this studio back to a room on the first floor in the Voorhees building. If this happens, an important aspect of the project for the future would be to be able to use the theater as a production space connected to the control room in the new studio, as well as the lighting and sound labs in V119 and V120. This project would be a proposal to create those connections, most likely via fiber optic connections.

Methods

- Meetings with stakeholders to understand the needs and goals.
- Researching appropriate technologies to accomplish those goals.
- Specifying and pricing those technologies for potential future purchase.

Deliverables

- Usage scenarios
- System diagrams (per scenario)
- Scale drawings
- Equipment and technology specifications
- Pricing in departmental purchase form format



Proposed Budget

Quantity	Material	Unit Cost	Extended Cost
	1 Midas M32 LIVE 40-hannel Digital Mixer	\$3,699.00	\$3,699.00
	2 JBL PRX One Powered Column PA Speaker	\$1,599.00	\$3,198.00
	2 Clear-Com DX410 Digital Wireless Intercom	\$10,980.00	\$21,960.00
	2 NewTek Tricaster 2 Elite	\$27,995.00	\$55,990.00
	6 JVC GY-HM250 UHD 4K Streaming Camcorder	\$1,745.00	\$10,470.00
	2 grandMA3 (Full size)	106,110	\$212,220.00
	2 grandMA3 (Light)	\$80,640.00	\$161,280.00
	1 vMix Software License	\$700.00	\$700.00
	4 AJA FiDO Quad-Channel 3G-SDI to ST Fiber Mini Converter	\$1,699.00	\$6,796.00
	4 Raspberry Pi Zero 2 W	\$15.00	\$60.00
	Fiber Optic Cable: 1 Gb/s @ 550m or Less @ 1300nm/1 Gb/s @ 2 300m or Less @ 850nm	\$1,032.97	\$2,065.94
		\$1,032.97	\$2,003.94
		Subtotal	\$478,438.94
		5% Incidental Fee	\$23,921.95
		9% State Tax	\$43,059.50
		Total	\$545,420.39

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My parents, for trying to understand what I do
My friends, for keeping my spirits up