

Scope of Work

Project: Alice Birney Elementary Telecenter U Installation

Bid No.: 26-09VR

District: Colton Joint Unified School District

Date: October 27, 2025

1. Project Overview

This project involves the removal of the existing Simplex communication system and the installation of a Rauland Telecenter U IP-based speaker/message board/clock solution. The upgraded system will provide a modern, reliable critical communication platform for classrooms, offices, and exterior campus areas.

2. Scope of Services

2.1 Demolition & Removal

- Remove the existing Simplex system, including cabling and speakers not compatible with new IP-based infrastructure.

2.2 Equipment Installation

- Install all **owner-supplied Rauland Telecenter U system components** in accordance with the supplied equipment list.
- Provide and install **Auxiliary Module** for monitoring company/door lock integration.
- Provide and install **UPS** for backup power (provided by owner if available).
- Install **Patton box** for telephone integration.

2.3 Classroom & Interior Speakers

- Install **fifty (50) IP modules**, landing on newly installed switches in the nearest IDFs.
- Replace classroom devices with **speaker/message-board/clock combination units**.
- Replace non-classroom interior speakers with **8-ohm speakers**.

2.4 Exterior Speakers & Coverage

- Install **five (5) additional exterior speakers** and **three (3) horns** to cover outdoor dead zones.
- Provide and install **eight (8) Zone Page Module/Amplifier devices** to connect exterior speakers/horns.
 - Devices to be rack-mounted in Rooms 13, 26, and 36.
 - Devices to be wall-mounted in Rooms 5, 6, 12, 20, and the Library.

2.5 Administrative & Safety Devices

- Install **status light** in the kitchen to alert staff of critical events.
- Provide and install **two (2) Administrative Consoles** in the front office.
- Install **one (1) bank-style panic button** for emergency alerts.
- Install **music module** and **Bluetooth device** in the front office.

4. Customer Responsibilities

- **District is supplying all Rauland Telecenter U equipment and system materials.**
- Provide **2 programmed data drops** in the following locations:
 - Library, Rooms 5, 6, 12, 13, 26, 20, & 36, and front office (where the music module & Bluetooth will be installed).
- Provide **1 programmed data drop** in the following locations:
 - Front office (for speaker), cafeteria near the student door, and all remaining classrooms not requiring 2 drops.
- Provide **1 UPS per IDF** if the speakers are to remain operable during a power outage.

5. Contractor Responsibilities

- **Installer Qualifications:** An experienced Rauland Certified Installer who is an authorized representative of equipment manufacturer for both installation and maintenance and currently employed by an authorized Rauland education distributor of equipment required for this Section. Provide the following certifications at time of Bid.
- **Contractor shall furnish all installation materials** required for proper system installation, including but not limited to: mounting hardware, cabling, connectors, patch panels, racks, and miscellaneous consumables.
- Install all owner-supplied equipment, ensure system functionality, provide documentation, and coordinate with campus IT for switch connectivity.

6. Equipment & Materials (Owner-Supplied)

QTY	Vendor	Model No.	Description
8	Rauland	350012	Overlay Kit Sm Push Button (10)
1	Rauland	351003GSA	Power Supply w/ Battery Backup GSA
8	Rauland	R5KM8PRT	R5k 8-Port Ethernet Switch
1	Rauland	603101	Classroom Breakout Mod 10 Pack

QTY	Vendor	Model No.	Description
1	Rauland	TCC2000	Telecenter Campus Controller
50	Rauland	TCC2011B	TCU Classroom Speaker Module
1	Rauland	TCC2033	Telecenter Campus Auxio Module
2	Rauland	TCC2045	Telecenter Campus IP Console
1	Rauland	TCC2055	Telecenter Campus Prog Module
1	Rauland	TCC2088	Telecenter Campus Status Light
1	Rauland	TCC2099	Universal Mounting Kit
1	Rauland	TCC2986	Status Light Trim Plate (10 pack)
1	Rauland	TCC2987	Status Light Removal Tool
39	Rauland	TCC3011S	TCU Small Message Board
8	Rauland	TCC3022	TCU Zone Page Amplifier Module
39	Rauland	TCC4PB	4-Button Call Switch
39	Rauland	TCC4PBCC	4-Button Call Switch Cover
2	Rauland	TCU3000SW	TCU License – Controller
39	Rauland	ACC3011S	Message Board Speaker Baffle
39	Rauland	ACC3011SBB	Surface Mount Back Box
11	Rauland	ACCWB8RJ	Surface Mount Spkr Assy 8 Ohm RJ45
2	Rauland	BAFKIT2X2L8RJ	8 Ohm 2x2 Spkr Assy w/ RJ45
0.5	Tripp-Lite	SMART15600RMU	UPS System, 1.5KVA rack mount
0.50	Amesco	HUSK-20	Husk-20 Bank Button/ Hold Up Switch
0.5	Belden	2413 T32A1000 SGE	Cat 6 Nonbonded-Pair Cables 4-Pair, U/UTP Plenum
0.25	Belden	OSP6AU 0101000	Cat 6A OSP Cable, 4 Pair, U/UTP, Gel Filled
0.5	West Penn	25226B	25226B 2C 14AWCG Plenum Cable
0.45	West Penn	25290B	25290B 2C 22AWG SHLD Cable CMP

QTY	Vendor	Model No.	Description
1.0	Belden	9512-1901	9512-1901 1U 19RM Cable Organizer
10	Panduit	UTPSP3VLY CAT	UTPSP3VLY Cat6 24 AWG UTP Copper Patch Cord, 3ft, Violet
10	Panduit	JB1DWH-A	Single Gang Low Voltage Junction Box- White
10	Panduit	CF5WH-E	Pan-Way Wiremold Coupler Fitting For LD5 White
10	Panduit	DCF5WH-X	Pan-Way Wiremold Drop Ceiling Entrance fitting for LD5 White
10	Panduit	LD5WH6-A	LD5 Surface Raceway Channel; 6ft; White
0.5	Panduit	R800 1057	Bluetooth Stereo Direct Box (B&H Photo & Video)
0.35	Patton	SN55412JS2J04VEU	SN5541/2JS2JO4V/EUI Smartnode FXO VoIP Gateway
25	Caddy	CAT21HPBA	Cable Support Hook 32 CAT6/50 CAT5E
1	Secure	VW-75005-BK	¾ Inch Continuous Black Hook and Loop Wrap (5 Yards)
1	Secure	AH-07050-BU	7 inch Plenum Rated Cable Tie (100-Pack)

7. Deliverables

- Fully installed and operational Rauland Telecenter U IP critical communication system.
- As-built documentation including device locations and network terminations.
- Basic training for administrative and technical staff.

8. Schedule

- **Project Start:** To Be Determined
- Timeline subject to material availability and site access.

9. Acceptance Criteria

- System passes functionality and performance testing.
- Coverage confirmed in classrooms, offices, and designated outdoor areas.
- Client sign-off upon completion of training and demonstration.