

VOICE
DATA
VIDEO

SOUND AND
COMMUNICATIONS
of Northern California

THE VOICE

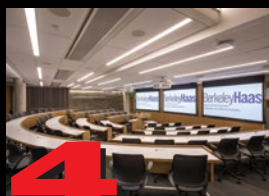
2018
FIRST
QUARTER

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Paganini Communications
Completes Cabling for
HealthRIGHT 360



ICS-Integrated
Communication Systems
AV Classroom Installation
At Haas School Of
Business Fosters Wireless
Visual Collaboration

And
more...



ICS installed the innovative AV technology for a new building on the Haas School of Business Campus at UC Berkeley.

PHOTOS BY NICK ELIAS

ICS-Integrated Communication Systems Installs AV At UC Berkeley Haas School Of Business To Support Digital Learning

ICS-Integrated Communication Systems recently completed the installation of innovative AV technology for a new building on the Haas School of Business Campus at UC Berkeley.

The installation for the Connie & Kevin Chou Hall, a just-built student-centered academic building, is designed to enhance learning and foster collaboration and demonstrates how technology can work to support digital learning. The new academic building will serve as a learning laboratory featuring state-of-the-art technology and flexible spaces aimed at transforming the student experience.

The six-story AV project includes an ICS-installed 10g fiber network which handles all video, audio, and control. The AV systems supports eight tiered lecture spaces; seven flex classrooms; 31 breakout rooms (for impromptu collaboration); a café and a large event space that seats 180. The building is located on the northeast edge of the Haas campus.



PHOTO BY NICK ELIAS

Student study areas utilize the Solstice Screen Sharing Software System, allowing multiple students to share their screens on a display at the same time.

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A publication of the National Electrical Contractors Association (NECA) and the International Brotherhood of Electrical Workers (IBEW) of Northern California.

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Paganini Communications Completes Cabling For HealthRIGHT 360, Integrated Care Center For Low Income And Homeless People

Paganini Communications Team List
HealthRIGHT 360

OWNER:
HealthRIGHT 360
Erik Sagerdahl, IT manager

ARCHITECT:
HDR Architects

GENERAL CONTRACTOR:
Hathaway Dinwiddie

ELECTRICAL CONTRACTOR:
Paganini Electric Corporation, San Francisco

LOW VOLTAGE CONTRACTOR:
Paganini Communications, San Francisco

PAGANINI COMMUNICATIONS PROJECT TEAM:
Shane Brown, Project Manager/Estimator
David Pellegrini, Lead Senior Tech
George Katout, Project Lead

THE VOICE AND DATA CABLING INSTALLERS FROM INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS (IBEW) LOCAL 6, SAN FRANCISCO

Paganini Communications recently completed the cabling infrastructure for the new headquarters of HealthRIGHT 360, the Integrated Care Center serving low-income and homeless people in San Francisco, California. Paganini Electric Corporation served as the electrical contractor for the project.

The 5-story, 50,000 square foot building is located at 1563 Mission Street. The center provides comprehensive medical and social services to address the multilayered needs of low income and homeless people.

HealthRIGHT 360 opened the doors of the new center in August 2017. Hathaway Dinwiddie was the general contractor and HDR was the Architect.

HealthRIGHT 360 was formed in 2011, with the merger of the Haight Ashbury Free Medical Clinic and Walden House, both of which originated in the Haight Ashbury District of San Francisco in the 1960's to help homeless and runaway adolescents with substance use issues. HealthRIGHT 360's Integrated Care

Center offers comprehensive treatment services under one roof, including primary medical care, dentistry, mental health services, substance use disorder treatment, housing referral, employment opportunities, and adult education..

Paganini used Cat 6 unshielded twisted pair cable for the structured cabling project, wiring a redundant fiber backbone system that runs between the five floors and goes through the IDF rooms, which are stacked on each floor. The system is redundant so that if one part of the fiber backbone system is damaged, there is a backup to continue service.

Using 175,000 feet of cabling throughout the building, Paganini installed 150-200 cable drops per floor. The fourth floor, which is primarily office space, has 250 cable drops. The first floor serves as the reception and intake area. Various departments are split up through the remaining floors, with the fourth floor serving primarily as offices.



PHOTO BY BLAKE MARVIN

Paganini Communications installed the structured cabling in the building's Outpatient Program facilities.



PHOTO BY NICK ELIAS

Paganini Communications wired the server room and MDF room, located on the first floor.



PHOTO BY NICK ELIAS

Paganini Communications installed an average 150-200 cable drops per floor within the five-story building.



PHOTO BY NICK ELIAS

Paganini Communications wired a redundant fiber backbone system that runs between the five floors, and goes through the IDF rooms, which are stacked on each floor.



PHOTO BY BLAKE MARVIN

Paganini Communications installed the cabling in the clinic work area, along with various departments on the remaining floors.

The ICS AV Installation At Haas School Of Bu

The ICS-installed Solstice screen sharing software system wire simultaneous sharing; the Primeview LED video wall, in the e



Event Control Room

Enables the AV system and facilitates the transfer of content to any other lecture space within the building.



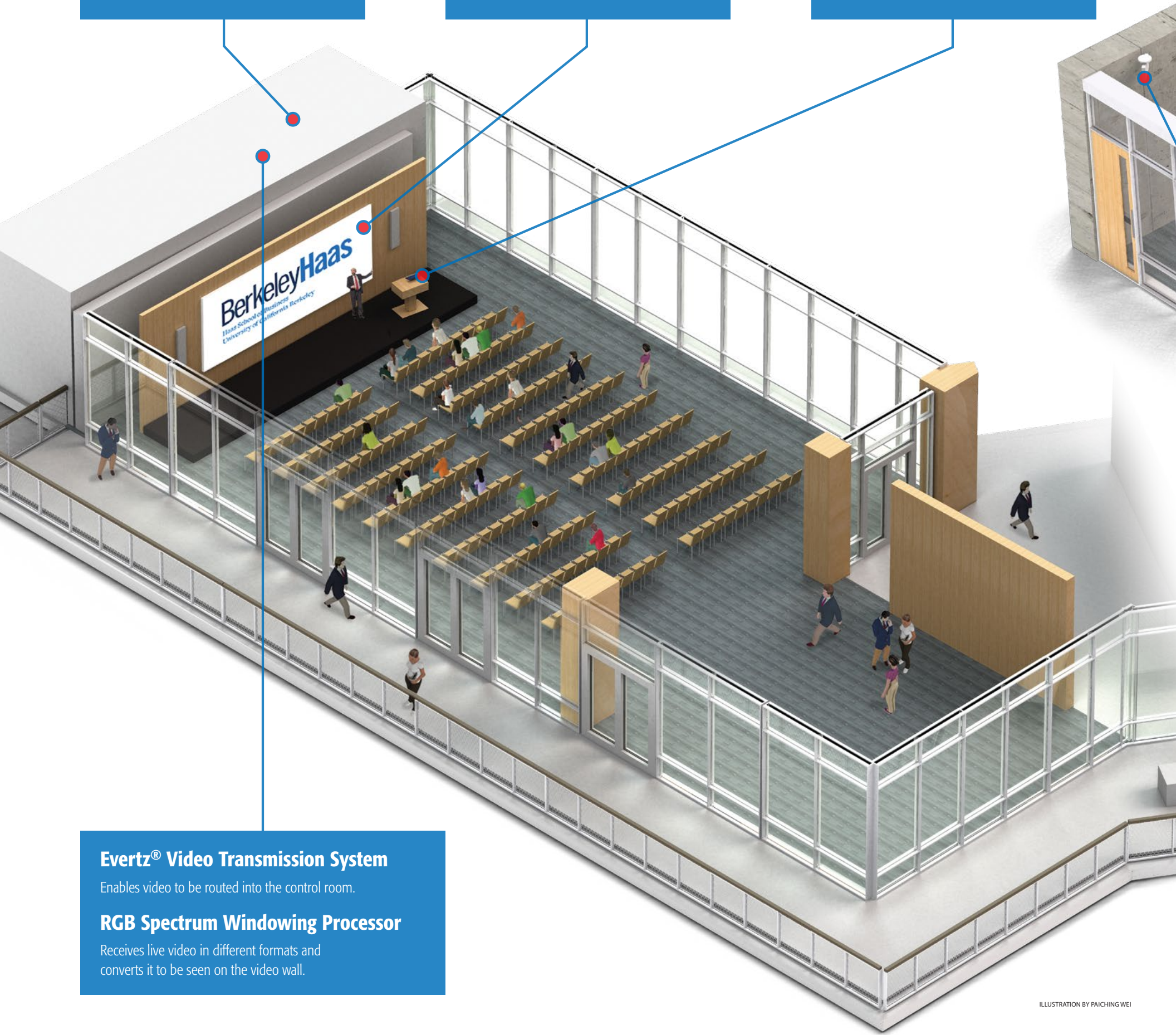
Primeview Video Wall

This 22' x 9.5' video wall was created using video tiles seamed together.



Crestron Touch Panel

Presets on the touch panel enable video wall operations.



Evertz® Video Transmission System

Enables video to be routed into the control room.

RGB Spectrum Windowing Processor

Receives live video in different formats and converts it to be seen on the video wall.

ILLUSTRATION BY PAICHING WEI

Business Fosters Wireless Visual Collaboration

Seamlessly connects laptops and mobile devices to any display for event space, LED video tiles create crystal clear bright images.



Mic With Touch LED Ring

Each pair of students has a mic to allow them to connect into the system. The Touch LED ring is used to turn the mic off and on.



Evertz® IP video

Distributes the lecture using the new HDMI IP switching and distribution system.



Optex Redscan Tracking Device

An infrared laser system that uses cameras in two corners of the room to track teachers recording their interactions with students during lectures.



Solstice Screen Sharing Software System

Enables multiple users to connect simultaneously to a shared display over Wi-Fi or Ethernet. Students log in by entering an access code. The system fosters collaboration and decision making.



Panopto Video Conference System

Used for lecture capture. Students can remote access past and present lecture content.

PHOTO BY NICK ELIAS



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ICS installed all of the audio visual in the tiered classrooms, including projectors, speakers, video conference capability, as well as lecture capture and screen sharing technology.

AV Installation By ICS-Integrated Communication Systems At UC Berkeley Haas School Of Business Supports Digital Learning

"ICS is proud to support Berkeley-Haas in its focus to advance the learning environment for higher education through these forward-thinking AV installations," said Aaron Colton, CEO of ICS-Integrated Communication Systems. "This project has been identified as a technology and learning model for other business schools on the UC and Cal State campuses."

The project architect is Perkins+Will. TEECOM is the technology consultant. The ICS project manager is Mark Berlo.

ICS expedited collaboration among students and faculty members through the installation of a Solstice wireless presentation system in

all the classrooms and breakout rooms (used for group study). Solstice, manufactured by Mersive Technologies Inc., enables multiple users operating a range of devices to connect simultaneously to a shared display over a Wi-Fi or Ethernet network by entering their access code.

With a Solstice-enabled display in the room, up to eight simultaneous users can instantly connect, share, and control the display, which fosters collaboration and decision making. The content is projected onto the screen and microphones (equipped with touch LED rings) capture student interaction as well as the entire classroom's feedback.

The system incorporates an Optex® Redscan tracking device, an infrared laser system that uses cameras in two corners of the room to track teachers recording their interactions with students during lectures. The Evertz® IP video records the lecture, using the new HDMI IP switching and distribution system.

The tiered lecture spaces are also equipped with video conference capability and lecture capture technology. A feature rich Panopto® video conference system is installed in the tiered lecture spaces. It has the ability for students to remotely access past and present lecture content. The Panopto records all of the

PHOTO BY NICK ELIAS



ICS installed the audio-visual processing equipment in a podium at the front of each tiered classroom.

PHOTO BY NICK ELIAS



Teachers can preview up to eight students' screens via the Solstice Screen Sharing Software System, in order to determine which should be seen by the class.

PHOTO BY NICK ELIAS



All of the rooms in the building contain a Crestron controller which displays when the room is available or scheduled to be used.

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PHOTO BY NICK ELIAS



The event space is equipped with a 22' x 9.5' Primeview LED video wall, which uses LED video tiles.

metadata information for the video capture automatically, based on the teacher log in, the scheduling of the room, and the content for the class. The students can then go back and review the lecture online at their own convenience.

The event space, located on the top floor, is equipped with a 22' x 9.5' LED video wall manufactured by Primeview that transmits clear, crisp bright images. This large format display was created using LED video tiles. The space is designed to accommodate a variety of uses, such as student meetings, presentations, and entertainment.

The video wall features an RGB Spectrum windowing processor, which can receive multiple live video streams in different formats, and convert them to be seen on the video wall in any one of four different windows that can be created.

Most of the video wall operations are set up through presets on a Crestron touch panel. The event space uses the Evertz® video transmission/distribution system, which is patched into the control room.

ICS installed a QSC QSYS audio redundant Core DSP system using Dante IP audio for transport. The entire AV system is interconnected to a matrix of centralized control rooms which facilitates the ability to transmit the activities in any teaching space to any other lecture spaces within the building.

For more information about ICS-Integrated Communication Systems (ICS) and its audio video services, contact Justin Gamble, Director of the AV Division (justin.gamble@ics-integration.com) or call 408-491-6000.

ICS-Integrated Communication Systems Team List

**Haas School of Business Campus,
Connie & Kevin Chou Hall, UC Berkeley**

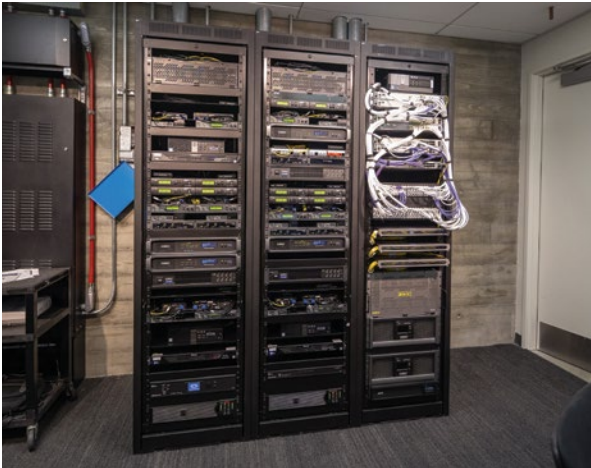
- OWNER:**
University of California, Berkeley, gifted from the Partnership for HAAS Preeminence
- ARCHITECT:**
Perkins+Will
- GENERAL CONTRACTOR:**
Vance Brown Builders
- AUDIO VIDEO CONTRACTOR:**
ICS-Integrated Communication Systems, San Jose
Mark Berlo, Project Manager
- AUDIO VIDEO INSTALLERS FROM INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS (IBEW) LOCAL 332, SAN JOSE:**
David McKinnon, Lead Senior Technician
Jarod Fontaine, Co-Lead, Senior Technician

PHOTO BY NICK ELIAS



The building's centralized IDF rooms contain all of the components of the audio video system, and facilitate the ability to transmit the activities to any teaching or lecture space.

PHOTO BY NICK ELIAS



ICS installed the audio video system through centralized control rooms, which facilitates the ability to transmit the activities in any teaching or lecture space.

PHOTO BY NICK ELIAS



The event space Primeview LED video wall is controlled through a Crestron touch panel.



PHOTO BY BLAKE MARVIN

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HealthRIGHT 360's Integrated Care Center provides comprehensive medical and social services to address the multilayered needs of low income and homeless people.

Paganini wired the server room and MDF room, located on the first floor. Paganini also wired each of the five IDF rooms. Six technicians from The International Brotherhood of Electrical (IBEW) Workers Local 6 in San Francisco worked on the project. In addition, Paganini installed the cabling for the wireless access points.

Paganini Project Manager Shane Brown coordinated with Erik Sagerdahl, HealthRIGHT 360's IT manager, to finalize the details of the project. Sagerdahl said that due to the nature of the design of the building, he worked with Paganini Communications to construct 'easy paths' to get the cabling to other rooms.

"Paganini fully tested the system so that we were

ready to go," said Sagerdahl. "They did a great job. They were responsive and professional."

Brown said the main challenge of the job was the "compressed working environment." "It is a small footprint and there were a lot of trades on the job site working in a small area," he said. "Working around the other trades was the most difficult part. We were moving materials around and trying to stay out of people's way."

Paganini Communications and Paganini Electric Corporation (www.pagcos.com) are headquartered in San Francisco and provide electrical construction and low voltage systems throughout the Bay Area. Vice President Larry Andrini can be reached at LarryA@pagcos.com or 415.575.3900.



PHOTO BY BLAKE MARVIN

Paganini Communications installed the cabling for the wireless access points.

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