RESOURCES COUNCIL
Thursday, November 20, 2025
12:50pm-1:50pm
OC116 and Zoom
Meeting ID: 891 3089 3079
Pass Code: 540597

MINUTES

PRESENT Council Members: Michael Collins (Admin co-chair), Esmeralda Abejar, Kimberly Bell, Travonne Bell, Kacey Boyer, Karina Gigliotti, Azadeh Iglesias (CPRO co-chair), Dan Lambros, Virgil Lee (Faculty co-chair), Edwin Romero, Ameera Chaudhry (ASNC Student Rep)

ABSENT: Kasey Boyer, Sgt David Purser

GUESTS: Cheryl Cox, Jonnathan Duenas, Kevin Harrison, Megan Lindeman, Lorena Rositas, Ray Vasquez

Subject to Brown Act: No

Quorum: 50% + 1

1. Call to Order: 12:51pm

2. Action Items

2.1 Approval of Meeting Agenda

- M/S/C: Romero/Abejar
- Abstentions: None
- Amendments: None

2.2 Approval of Meeting Minutes: October 23, 2025

- M/S/C: Collins/Romero
- Abstentions: None
- Amendments: None

2.3 2025-2030 Resource Council Charter – Michael Collins

- M/S/C: Iglesias/Lambros
- Abstentions: None
- Amendments: None
    - Equity focus portion was questioned and the Strategic co-chairs will all work on this together at a future retreat to be held in the spring. It was recommended that we proceed with document as is.
    - The current committee roster is posted on the webpage and includes the employee titles.
    - The finalized charter will be sent to College Council for recommended approval at their December 11, 2025 meeting.

3. Discussion Items

3.1 District IT/AV Standards – Kevin Harrison

- The initial draft plan was provided for reviewed by councilmembers prior to the meeting. A power point presentation highlighted the district's plan and how they intent on developing future standards across the colleges.

- Categories identified: Classrooms, conference/meeting rooms, & digital signage
    - Classroom Baseline Standard Minimum:
        - Integrated multimedia system, Extron control system w/7"touchscreen, ceiling mounted laser projector, ADA compliant assistive listening systems, ceiling speakers for audio reinforcement, wireless or hand held microphone.
    - HyFlex and Enhanced HyFlex
        - Specialized Learning Environments: Demonstration Spaces, Divisible Classrooms, Lecture Halls.
    - Conference and Meeting Spaces: Small (6 seats), minimum (20 seats), large (50 seats), Study rooms with interactive 4K touchscreen with OPS PC, Multipurpose Room: Flexible layouts with full AV rack and streaming.
        - Core AV Components: Displays, Visual Presenter, Audio, Control Systems, Collaboration, Streaming & Recording, Digital Signage.
    - Instructor Station: Integrated AV rack, ADA compliant cable ramp cover, Multi-inputs ports, and floor box for power/network/AV.
        - Benefits: simplified training and user experience, ensures interoperability across campuses, streamlined maintenance and support, promotes digital equity and access.
- Recommendation for committee action:
    - Endorse the development framework: Recognize the current draft as a working document and authorize its ongoing refinement through district technology support services (TSS)
    - Establish governance oversight: The Resource Committee to guide revisions, ensure college representation and maintain alignment with district and college strategic goals.
    - Adopt and Institutionalize: Approve the standards as the official design and implementation for new construction, modernization, and AV refresh projects.
    - A concern was raised by Academic Senate, was recognizing that these standards are housed at the District, if this is the expectation for our college, we don't have the resources to meet this baseline. Our local process does not necessarily allow for meeting these goals due to ongoing budget issues. Even new construction has limited funding for technology.
        - When we utilize the program review resource funding requests to look to these standards when upgrading and refreshing technology.
        - In future versions of the document, the cost/price point may be included to better help with future planning as needed.
        - Typical AV warranty is 5 year, and the college can extend the life of the equipment beyond to 8-10 years if possible.

4. Information Items

4.1 Grants Report – Karina Gigliotti

- 2024/2025 Grants and External Resource Development Activity final was reviewed
- 2025/2026 Grants and External Resource Development Activity as of Nov 2025 was also reviewed.
    - This fiscal years requested federal grants funding, has yet to be funded to date and the outlook moving forward is uncertain.
    - Private grants requested at approximately $45,000, but we are still waiting for responses and/or approvals.
    - With the government opening back up, there will be more grant submittals for new areas such as AI ethics, various analytics, and college core submissions, etc.

- Other request submissions for: Foundation grants, finish line scholars, improving under grad STEM education, work force innovation and opportunity, dual enrollment (ex: look at how we integrate into math courses, and various support for financial aid equity access post-secondary education funding.
- Requests will remain focused on our college mission and core values.

4.2 Facilities Report

- Construction Update
  - CHP&K Center for Human
    - The CACT building is currently undergoing demolition.
    - The campus may experience temporary inconveniences such as power outages, water shut offs, etc. throughout the project.
    - Current estimated completion date is set for July 2027
    - Secondary effects related to this project: Stem 100, F2 Chiller Plant upgrade, and various, CACT relocation moves.
    - Parking lot D continues to be impacted as needed. The RTA temporary reroute to Mustang Circle should return to College way in January.
  - Library Learning Resources Center (LLRC) & Student Services Project
    - Currently in the initial planning phases are underway with all corresponding constituents providing valuable input on the various ideas for the schematic space design.
    - The college must identify swing space to occupy affected department while the building(s) are built. A temporary location idea has been identified in the field between the new CHPK building and WEQ West end quads.
  - Corona Education Center Project
    - We are just now starting the initial planning stages for Phase 1.
    - Community engagement continues and will shape the development for this project.
    - Target date for completion is currently scheduled for 2030.
    - Phase 1 is funded by measure CC and includes 1 building, parking lot, and hardscape. (Location: Corner of Hamner Ave and Parkridge)
    - Phases 2 and 3 will follow after and a more detailed master plan will be developed. Sustainability and modern design will be the focus and provide the opportunity for net-zero features, solar integration, safe circulation, and modern accessibility implementation.
  - Norco College at Eastvale Project
    - Joint project partnership with city of Eastvale for the entrepreneurship program.
    - The Center for Entrepreneurship will be located in the new Eastvale Civic Center on the 2nd floor of the library building with approximately 5,000 sq ft. that will focus on small business support and student innovation. (Location: Corner of Hamner Ave and Limonite which expands Norco College presence in the heart of Eastvale)
    - The space will support coursework, business plan development, networking and co-working access.
    - Estimated completion date is in the year of 2028

- STEM 100 Renovation Project (CACT Relocation)
  - Phase 1 of construction is estimated to complete in February 2026. Phase 2 is estimated to complete in August/Sept 2026.
  - Some issues affecting the campus during renovation is parking restrictions, planned power shutdowns during such installations as switchgears, etc.
- Solar, EV Charging, Photovoltaic and Battery Energy Storage Project
  - The College is ready after the installation of 2.1 MW solar array + 500 kW battery system, advancing campus energy independence. We are waiting for SCE to complete connectivity and commissioning. Also the District has to finalize and pass a corresponding board policy in regards to the use and payment for charging stations. Anticipation for completion of this task is estimated for end of January 2026.
  - Minor utility trenching will continue through December 12, and the EV stations remain unavailable during construction.
    - A question was raised about expanding the STEM parking lot. At this time there are no plans to do so.
- Mustang Statue Project
  - Estimated installation completion in the winter semester of 2026.
  - Current unveiling is planned for February 24, 2026, as part of the 35th year anniversary celebrations.

- Facilities Update
  - Currently working on Space Planning as the challenges continue on identifying office space for the new faculty once they are hired.

5. Good of the Order

- None

6. Adjournment: 1:57pm

Fall 2025 and Spring 2026 Meeting Dates:

Sept 25	Oct 23	Nov 20*	*(Note: Nov moved up 1 week due to holiday)
Feb 26	Mar 26	Apr 23	May 28

Council & Committee Charter (2025-2030)

Name of Council/ Committee: Resources Council

Description (25-50 words):	Coordinate, discuss, and makes recommendations regarding functions, plans, and activities related to human, physical, technology, and financial resources. The RC provides leadership and retains responsibility for ACCJC Standard III, while serving as a communication link to the rest of the college regarding strategic and operational matters associated with their assigned EMP objectives. The RC makes recommendations to the College Council and the Vice President of Business Services.
Brown Act (Yes or No):	No
Meeting Schedule:	4th Thurs (Fall/Spr): Sept, Oct, Nov, Feb, Mar, Apr, May 12:50pm - 1:50pm In Person and Virtual
Chair(s):	Michael Collins – Administrative Virgil Lee – Faculty Azadeh Iglesias - CPRO
Reports and Recommends to:	College Council
Required Reports and Updates:	Annually review proposed district college budget, including components for the development of the adopted budget, and ensure alignment with the mission, goals, and objectives of the college's Strategic and Education Master Plans Annually review the district Budget Allocation Model and provide recommendations for continuous improvement Recommend and monitor long-range fiscal plan with consideration of priorities consistent with district and college planning. (Multi-year projections, contingency reserves) Reviews general fund revenues and expenditures on a quarterly basis Communicate, through its members, with the college community on fiscal and physical resource issues and recommendations Prioritize annual resource requests for Business Services operational area Oversee the development of the College's Safety and Emergency Preparedness Master Plan, and review of the District's Safety and Emergency Preparedness Master Plan every three years. Oversee the development of the College's Technology Master Plan, and review of the District's Technology Master Plan every three years.

	Support the implementation of the Facilities Master Plan Review the financial, human resource, and facilities impact of potential grant and college development opportunities Receive reports from Business Services operational areas In mid-spring of each academic year, the Resources Council will participate separately in dialogue sessions to 1) self-evaluate the effectiveness of their Scope & Expected Deliverables planning and decision-making processes through the Survey of Effectiveness, 2) self-report on EMP objective progress and appropriate objective assignment, and 3) self-assess the completion of their charter's scope/deliverables during the academic year. The Resources Council will conduct its evaluation of effectiveness and post an executive summary on the Council's website.
Key Performance Indicators/Goals:	Goal 7: (Facilities) Build a comprehensive and inspiring campus integrated into the region that serves as a destination for education, commerce, life, and the arts Goal 8: (Resources) Develop innovative and diversified resources to build and sustain a comprehensive college and achieve our visionary goals
ACCJC Accreditation Standard(s):	Standard III- Infrastructure and Resources
Equity Focus:	
Edition Date:	October 23, 2025
Link to council/committee site with Membership Roster: **https://www.norcocollege.edu/committees/rc/index.html**	

AUDIOVISUAL STANDARDS & DESIGN GUIDELINES

RIVERSIDE COMMUNITY COLLEGE DISTRICT

October 22, 2025

VERSION 1.0

RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT

MORENO VALLEY COLLEGE

NORCO COLLEGE

RCC RIVERSIDE CITY COLLEGE

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Appendix A – Equipment Standards

1.0 Purpose

This Audio Visual (AV) Design Standards and Guidelines document establishes a unified approach to AV technology implementation across the Riverside Community College District (RCCD). It ensures consistent quality, sustainable maintenance, and a common user experience for students, faculty, and staff.

The standards support the district's strategic goals for technology modernization, accessibility, and efficiency, and apply to all facility upgrades and new construction projects. They define a baseline for standardization while allowing flexibility to address the unique needs of individual colleges. Any deviation from these standards must be justified and reviewed by the college AV Specialist and District Technology Support Services (TSS) prior to implementation.

Audiovisual systems include both instructional and informational technologies. Instructional AV supports directly supports teaching and learning through presentation, collaboration, and engagement tools. Informational AV systems such as digital signage enhance campus communications, emergency alerts, and outreach to the diverse communities that make up the district.

These specifications represent the minimum standard for general classrooms. Larger or specialized spaces—such as tiered lecture halls, multipurpose rooms, and conference venues—shall undergo individual review by TSS to determine the appropriate projection brightness, lensing, display technology, and audio design based on room size, lighting, and intended function.

2.0 Room Types

For the purposes of this document, Riverside Community College District (RCCD) categorizes AV-enabled spaces into three primary types: classrooms, meeting rooms, and digital signage locations. This classification establishes a framework for applying technology standards and ensuring a consistent, high-quality user experience across all district facilities.

2.1 Classrooms

2.11 Standard

A Standard Classroom is defined as any instructional space designed for direct, in-person teaching and learning. Each classroom shall be equipped with an integrated multimedia presentation system that enables the instructor to display content from multiple sources, including a fixed instructional computer, a laptop or other personal device, and a document camera.

The system shall provide intuitive control of display, audio, and source selection to ensure a consistent and reliable instructional experience across all district classrooms.

Specific equipment types and specifications are detailed in Section 3.11 – Standard Classroom System Components.

2.12 HyFlex Classroom

A HyFlex Classroom (Hybrid Flexible Classroom) is an enhanced instructional space designed to support both in-person and remote learning simultaneously. These environments enable instructors to engage students regardless of location by integrating audio, video, and content sharing technologies into a unified system.

Specific equipment types, performance standards, and integration requirements are detailed in Section 3.12 – HyFlex Classroom System Components.

2.13 Enhanced HyFlex Classroom

A HyFlex Classroom (Hybrid Flexible Classroom) is an enhanced instructional space designed to support both in-person and remote learning simultaneously. These environments enable instructors to engage students regardless of location by integrating audio, video, and content sharing technologies into a unified system.

In addition to standard HyFlex functionality, Enhanced HyFlex Classrooms shall include a ceiling-mounted microphone array to capture audience participation, a confidence monitor on the rear wall for instructor feedback, and a dedicated streaming or capture device to support live or recorded sessions.

Specific equipment types, integration details, and performance standards are provided in Section 3.13 – Enhanced HyFlex Classroom System Components.

2.14 Demonstration Space

A Demonstration Space is an enhanced instructional environment designed to support both in-person and remote learning, typically used for simulating real=world scenarios, demonstrations, or laboratory experiments.

Each Demonstration Space shall be equipped with an integrated multimedia system capable of displaying content from multiple sources, including a fixed instructional computer, an instructor's laptop or other personal device, and a document camera.

These environments shall feature a more robust matrix switcher and multiple displays that can either mirror the same content or present different sources simultaneously. In addition, they shall include capabilities for streaming and sharing multimedia content with remote participants, including a camera feed of the instructor or demonstration space.

Specific equipment types and details are provided in Section 3.14 – Demonstration Space System Components.

2.15 Divisible Classroom

A Divisible Classroom is a flexible instructional environment designed to operate as a single large space or be partitioned into two or more independent rooms. These spaces support both in-person and remote learning and are configured to accommodate multiple instructional modes depending on class size or event requirements.

The audio visual shall be designed to function as a unified system when the room is combined, or as independent systems when divided. Control system programming shall allow automatic detection or manual selection of room configuration states.

Specific equipment types and details are provided in Section 3.15 – Divisible Classroom System Components.

2.16 Lecture Hall

A Lecture Hall is a large, tiered instructional environment typically designed to accommodate 50 or more students. These spaces are intended to support large group instruction and presentations. The system shall include a high brightness projector, multiple displays, and audio reinforcement.

In addition, they shall include HyFlex capabilities to support remote or asynchronous learning through integration streaming, camera capture, and content sharing technologies.

Specific equipment types and details are provided in Section 3.16 – Lecture Hall System Components

2.2 Conference Room/Meeting Rooms

2.21 Small Conference Room

A Small Conference Room is multimedia-enhanced collaboration space designed to accommodate up to six participants. These rooms support small group meetings, virtual collaboration, and content sharing in both local and remote settings.

Each Small conference room shall be equipped with an interactive LCD display that includes an integrated computer to support presentation, annotation, and video conferencing functions. Wireless connectivity shall be provided to enable users to connect mobile devices for content sharing and collaboration.

Specific equipment types and details are provided in Section 3.21 – Small Conference Room System Components.

2.22 Medium Conference Room

A Medium Conference Room is multimedia-enhanced meeting designed to accommodate up to twenty participants. These rooms support collaborative discussions, presentations, and hybrid meetings involving both in-person and remote participants.

Each Medium Conference Room shall be equipped with an integrated audiovisual system that enables content sharing from multiple sources, including a fixed computer and user provided devices (e.g., laptops, tablets, or mobile phones). The system may be housed within the conference table, a dedicated lectern, or an equipment rack, depending on the room layout and functional requirements.

Specific equipment types and details are provided in Section 3.22 – Medium Conference Room System Components

2.23 Large Conference Room

A Large Conference Room is multimedia-enhanced meeting space designed to accommodate up to fifty participants. These rooms support large group discussions, presentations, and hybrid meetings involving both in-person and remote participants.

Each Large Conference Room shall be equipped with an integrated audiovisual system that enables content sharing from multiple sources, including a fixed instructional computer and user-provided devices (e.g., laptops, tablets, or mobile phones). The system may be housed within a dedicated lectern, or an equipment rack, and may include additional amplification and display components.

Specific equipment types and details are provided in Section 3.23 – Large Conference Room System Components

2.24 Study Room

A Study Room is a small collaborative space designed to support group study, tutoring sessions, and peer-to-peer learning among students. These rooms provide access to audio visual technology that facilitate interactive collaboration and content sharing.

Each Study Room shall be equipped with a wall-mounted interactive LCD touchscreen display featuring an integrated OPS computer and wireless presentation capabilities. A wireless keyboard and mouse shall be provided to enable flexible control and interaction with on screen content.

Specific equipment types and details are provided in Section 3.24 – Study Room System Components

2.25 Multipurpose Room

A Multipurpose Room is a highly adaptable and versatile environment designed to accommodate a broad range of functions beyond a single dedicated purpose. Unlike traditional classrooms or lecture halls, these spaces are designed with flexible features and technologies to support diverse activities.

Each multipurpose Room shall be equipped with an integrated multimedia system capable of displaying content from multiple sources, including a fixed instructional computer, a presenter's laptop or other personal devices, and a document camera. In addition, these spaces shall include a dedicated streaming device to transmit presentations and events to remote audiences.

The audiovisual system shall incorporate a matrix switcher allowing any source to be routed to any display or streaming device. Due to the expanded system design, a full-size equipment rack and dedicated AV closet she provided to house system components and ensure proper ventilation and maintenance access.

Specific equipment types and details are provided in Section 3.25 – Multipurpose Room System Components

2.3 Digital Signage

Digital Signage systems are used throughout district facilities to share timely and relevant information with students, faculty, staff, and visitors. These systems serve multiple purposes, including promoting college student-led events, providing campus announcements, displaying alerts, and communicating available student resources.

Digital signage also supports wayfinding, menu boards, and other informational displays that enhance the overall campus experience. Each display shall be network-connected and capable of centralized content management, remote updates, and automated scheduling.

Specific equipment types and details are provided in Section 3.26 – Digital Signage System Components.

3.0 Room Equipment

This section defines the standard audiovisual equipment and components required for each room type described in Section 2.0

3.11 Standard

Standard Classrooms are designed to support local media presentations controlled from a designated instructor lectern or desk. Multiple input sources shall be available and managed through a touchscreen interface that provides intuitive control over media selection, volume, and display functions.

Image Requirements:
Display screens shall allow for legibility of 12-point font from the farthest seated position, following applicable architectural sightline and accessibility standards.

Image Width:
Image width shall be proportional to height, targeting a 16:9 aspect ratio whenever feasible.

Display Technology Options

Projector Display:
Each classroom should include a ceiling mounted laser projector with a minimum native resolution of 1900 x 1200 (WUXGA) and a minimum brightness of 5,000 ANSI lumens. The image shall be projected onto a wall mounted, motorized, matte-white projection screen.

(Optional variation: Flat-panel displays may be considered in smaller classrooms when projection distances or lighting conditions limit visibility.)

Audio
Media Audio Playback:
Ceiling recessed loudspeakers with sealed back enclosures shall be installed above the student seating area to reproduce media playback and instruction audio evenly across the room.

Audio Reinforcement:
Each classroom shall include an ADA compliant portable assistive listening system. Wireless microphone receivers shall support handheld and lapel microphones. Media and speech audio shall be mixed and distributed through the ceiling-mounted loudspeakers.

Source Devices
Media Lectern:
A standard media lectern shall house all system components required for AV control and presentation. Connections shall terminate in a floor box providing AV, network, and power connectivity with safety cable coverage of at least 15 ft. A durable, ADA compliant cable ramp cover shall be included.

Permanent Video Sources:
An Extron presentation switcher located in the lectern shall manage inputs from a fixed instructional computer with monitor, an HDMI document camera, and a Blu-ray/DVD player.

Mobile Sources:
A multi-input connection device shall support HDMI, USB-C, and Mini-DisplayPort connections for mobile devices. Wireless collaboration tools shall enable screen sharing from laptops, smartphones, and tablets.

System Control
Device Selection:
Media source selection shall be managed through the Extron presentation switcher an a minimum 7-inch touchscreen control panel.

Volume Control:
Audio levels shall be adjusted via the Extron control interface.

Screen Control:
Projection screen up/down commands shall be integrated into the touchscreen interface.

Lighting Control:
For new construction projects, lighting zones shall be integrated into the Extron control system in accordance with the classroom audiovisual standard.

3.12 HyFlex

HyFlex classrooms are designed to support both in-person and remote learning, with audiovisual control centralized at the instructor's lectern. Multiple media source inputs are available, managed through a touchscreen interface.

Wireless lapel and handheld microphones enable instructor mobility and student engagement, while an auto-tracking camera installed on the rear wall allows remote participants to follow the instructor naturally throughout the session.

Image Requirements

Image Height:
Projection screens must allow legibility of 12-point font from the last seated row, in accordance with AVIXA sightline and architectural design standards.

Image Width:
Width should be proportional to height, maintaining a 16:10 aspect ratio where feasible to optimize viewing angles and screen utilization.

Display Technology Option

Projector Display:
Each HyFlex classroom should include a ceiling mounted laser projector with a minimum native resolution of 1900 x 1200 (WUXGA) and a minimum brightness of 5,000 ANSI lumens. The image shall be projected onto a wall mounted, motorized, matte-white projection screen.

Source Devices
Media Lectern:
A standard media lectern shall house all system components required for AV control and presentation. Connections shall terminate in a floor box providing AV, network, and power connectivity with safety cable coverage of at least 15 ft. A durable, ADA compliant cable ramp cover shall be included.

Permanent Video Sources:
An Extron presentation switcher, housed in the lectern, will support input from:

- Built-in PC with Monitor
- HDMI document camera
- Blu-ray/DVD player
- Auto-tracking instructor camera
- Wireless presentation device

Audio
Permanent Audio Sources:
Audio sources will include the built-in computer, Blu-ray/DVD player, and the ceiling mounted microphone array.

Audio Reinforcement:
Each HyFlex Room shall include an ADA compliant portable assistive listening system. Wireless microphone receivers shall support handheld and lapel microphones. Media and speech audio shall be mixed and distributed through the ceiling-mounted loudspeakers.

Mobile Sources:
A multi-input device will provide connectivity for HDMI, USB-C, Mini DisplayPort, and VGA devices. Wireless collaboration tools shall enable screen sharing from laptops, tablets, and mobile phones.

System Control
Device Selection:
All media sources will be managed via an Extron presentation switcher and touch panel interface (minimum 7”). The input panel will include HDMI, USB-C, Mini-DP, and power outlets for personal device connection.

Volume Control:
Audio levels will be adjusted directly from the Extron control interface.

Screen Control:
Projection screen up/down controls shall be integrated into the Extron interface for user convenience.

Lighting Control:
For new construction, classroom lighting shall be integrated into the Extron control system as part of the district audiovisual standard.

3.13 Enhanced HyFlex

Enhanced HyFlex classrooms are designed to support both in-person instruction and remote learning environments, controlled from a centralized instructor's lectern. Multiple media source inputs will be available with intuitive touch screen selection and controls.

A ceiling mounted microphone array will capture both the instructor and student audio, eliminating the need for handheld or lapel microphones.

An auto-tracking camera will follow the instructor's movement throughout the room, paired with a rear mounted confidence monitor that allows the instructor to view remote participants and presentation content. A dedicated streaming appliance shall be installed in the AV equipment rack to ensure reliable recording and live streaming.

Image Requirements:
Screens must allow legibility of 12-point font from the last seated row, while adhering to appropriate architectural sightline standards.

Image Width: Width should maintain a proportional 16:10 aspect ratio relative to image height for optimal viewing.

Display Technology Options

Projector Display:
Each Enhanced HyFlex classroom should include a ceiling mounted laser projector with a minimum native resolution of 1900 x 1200 (WUXGA) and a minimum brightness of 5,000 ANSI lumens. The image shall be projected onto a wall mounted, motorized, matte-white projection screen.

Source Devices
Media Lectern:
A standard media lectern shall house all system components required for AV control and presentation. Connections shall terminate in a floor box providing AV, network, and power connectivity with safety cable coverage of at least 15 ft. A durable, ADA compliant cable ramp cover shall be included.

Permanent Video Sources:
An Extron presentation switcher, housed in the lectern, will support input from:

- Built-in PC with Monitor
- HDMI document camera
- Blu-ray/DVD player
- Auto-tracking instructor camera
- Wireless presentation device

Audio
Permanent Audio Sources:
Audio sources will include the built-in computer, Blu-ray/DVD player, and the ceiling mounted microphone array.

Audio Reinforcement:
Each classroom shall include an ADA compliant portable assistive listening system. Wireless microphone receivers shall support handheld and lapel microphones. Media and speech audio shall be mixed and distributed through the ceiling-mounted loudspeakers.

Mobile Sources:
A multi-input device will provide connectivity for HDMI, USB-C, Mini DisplayPort, and VGA devices. Wireless collaboration tools shall enable screen sharing from laptops, tablets, and mobile phones.

System Control
Device Selection:
All media sources will be managed via an Extron presentation switcher and touch panel interface (minimum 7”). The input panel will include HDMI, USB-C, Mini-DP, and power outlets for personal device connection.

Volume Control:
Audio levels will be adjusted directly from the Extron control interface.

Screen Control:
Projection screen up/down controls shall be integrated into the Extron interface for user convenience.

Lighting Control:
For new construction, classroom lighting shall be integrated into the Extron control system as part of the district.

3.14 Demonstration Space

Demonstration spaces are designed to support both the local media presentations and remote learning environments, controlled from a designated instructor's lectern.

Multiple source inputs and display outputs are available, with touchscreen-based selection and control. A matrix switcher/router enables the instructor to route any input source to any display or streaming device as needed.

A ceiling mounted microphone array captures instructor and participant audio, eliminating the need for wireless lapel or handheld microphones and promoting a more collaborative interaction between in person and remote participants.

Image Requirements

Image Height:
Projection screens must allow legibility of 12-point font from the last seated row, in accordance with AVIXA sightline and architectural design standards.

Image Width:
Width should maintain a proportional 16:10 aspect ratio relative to image height for optimal viewing.

Display Technology Options

Projector Display:
Each Demonstration Space should include a ceiling mounted laser projector with a minimum native resolution of 1900 x 1200 (WUXGA) and a minimum brightness of 5,000 ANSI lumens. The image shall be projected onto a wall mounted, motorized, matte-white projection screen.

Wall-Mounted LCD/OLED Display:
Wall-Mounted flat-panel displays shall be LED or OLED, 55 inches or larger depending on room size. Displays must support a minimum 4K resolution (3,840 x 2,160), 16:9 aspect ratio, contrast ratio of at least 1,000,000:1, and refresh rate of 120Hz or higher. Multiple displays may be installed as required by the instructional use case.

Audio
Media Audio Playback:
Ceiling-recessed speakers with sealed back enclosures shall be installed above student seating areas to ensure uniform and clear audio playback.

Audio Reinforcement:
An ADA-complaint portable assistive listening system shall be available in each classroom to support accessibility. A ceiling mounted microphone array captures all audio for both in-room reinforcement and streaming applications, removing the need for wireless handheld or lapel microphones.

Source Devices
Media Lectern:
A standard media lectern shall house all system components required for AV control and presentation. Connections shall terminate in a floor box providing AV, network, and power connectivity with safety cable coverage of at least 15 ft. A durable, ADA compliant cable ramp cover shall be included.

Permanent Video Sources:
An Extron presentation switcher, house in the lectern, will support input from:

- Built-in PC with Monitor
- HDMI document camera
- Blu-ray/DVD player
- Auto-tracking instructor camera
- Wireless presentation device

Permanent Audio Sources:
Audio sources will include the built-in computer, Blu-ray/DVD player, and the ceiling mounted microphone array.

Mobile Sources:
A multi-input device will provide connectivity for HDMI, USB-C, Mini DisplayPort, and VGA devices. Wireless collaboration tools shall enable screen sharing from laptops, tablets, and mobile phones.

System Control
Device Selection:
All media sources will be managed via an Extron presentation switcher and touch panel interface (minimum 7”). The input panel will include HDMI, USB-C, Mini-DP, and power outlets for personal device connection.

Volume Control:
Audio levels will be adjusted directly from the Extron control interface.

Screen Control:
Projection screen up/down controls shall be integrated into the Extron interface for user convenience.

Lighting Control:
For new construction, classroom lighting shall be integrated into the Extron control system as part of the district audiovisual standard.

3.15 Divisible Classroom

Divisible classrooms are flexible learning environments designed to accommodate combined or separate instructional use through movable wall partitions. These spaces support both local and remote learning, providing independent audiovisual control for each section while maintaining the capability to operate as one large integrated room.

Each section will include a dedicated instructor lectern equipped with a touch-screen control, allowing seamless switching between single room or multi-room modes. The AV system will be designed and programmed to detect and adapt to room configurations automatically or via user selection. The expanded system will require a dedicated equipment closet with one or more full size AV racks to house equipment.

Image Requirements

Image Height:
Screens must allow for the legibility of 12-point from the last seated row, while conforming to AVIXA sightline and architectural standards.

Image Width: Width should maintain a proportional 16:10 aspect ratio relative to image height for optimal viewing.

Display Technology Options

Projector Display:
Each Divisible Classroom should include a ceiling mounted laser projector with a minimum native resolution of 1900 x 1200 (WUXGA) and a minimum brightness of 5,000 ANSI lumens. The image shall be projected onto a wall mounted, motorized, matte-white projection screen.

Wall-Mounted LCD/OLED Display:
Wall-Mounted flat-panel displays shall be LED or OLED, 55 inches or larger depending on room size. Displays must support a minimum 4K resolution (3,840 x 2,160), 16:9 aspect ratio, contrast ratio of at least 1,000,000:1, and refresh rate of 120Hz or higher. Additional displays may be installed to support multi-zone visibility when the room is divided.

Audio
Media Audio Playback:
Ceiling-recessed speakers with sealed back enclosures shall be installed above student seating areas to ensure uniform and clear audio playback.

Audio Reinforcement:
An ADA-complaint portable assistive listening system shall be provided to ensure accessibility. A combination of ceiling-mounted microphone arrays and wireless lapel/handheld microphones shall provide audio capture and reinforcement for both combined and divided configurations. Media and speech audio signals shall be mixed and played through the ceiling recessed speakers.

Source Devices
Each room section shall include a dedicated media lectern for system control and connectivity. Connections shall terminate at floor boxes supporting AV, network, and power with a minimum 15 ft. cable reach. All major AV processing and routing components shall reside in a dedicated equipment closet with full size racks to support flexibility and scalability.

Permanent Video Sources:
An Extron presentation switcher, housed in the lectern, will support input from:

- Built-in PC with Monitor
- HDMI document camera
- Blu-ray/DVD player
- Auto-tracking instructor camera
- Wireless presentation device

Permanent Audio Sources:
Audio sources will include the built-in computer, Blu-ray/DVD player, and the ceiling mounted microphone array.

Mobile Sources:
A multi-input device will provide connectivity for HDMI, USB-C, Mini DisplayPort, and VGA devices. Wireless collaboration tools shall enable screen sharing from laptops, tablets, and mobile phones.

System Control
Device Selection:
Media source selection shall be managed through an Extron presentation switcher with multiple touch panel interfaces (minimum 7”0, one per divisible section. They system shall intelligently detect and adjust routing based on partition status or user control selection.

Volume Control:
Audio levels will be adjusted directly from the Extron control interface, with master-level control available when rooms are combined.

Screen Control:
Projection screen and displays shall include up/down controls and on/off functionality integrated into the Extron control interface

Lighting Control:
For new construction only, lighting control shall be integrated into the Extron control system as part of the district audiovisual standard.

3.16 Lecture Hall

Lecture halls are large-format instructional spaces designed to serve a high number of students. The audiovisual system shall provide robust presentation, audio reinforcement, and hybrid learning capabilities to support both in-person and remote instruction.

Each lecture hall will include, at minimum:

- A high-brightness projection system
- Audio reinforcement for instructors and presenters
- The ability to present multimedia content from a fixed instructor PC, laptop, document camera, and other compatible devices

Lecture halls will often incorporate HyFlex functionality, including auto-tracking cameras, ceiling microphone arrays, and streaming appliances, to facilitate synchronous and asynchronous learning activities.

Image Requirements

Image Height:
Screens must allow for the legibility of 12-point from the last seated row, while conforming to AVIXA sightline and architectural standards.

Image Width: Width should maintain a proportional 16:10 aspect ratio relative to image height for optimal viewing.

Display Technology Options

Projector Display:
Each Lecture Hall classroom should include a ceiling mounted laser projector with a minimum native resolution of 1900 x 1200 (WUXGA) and a minimum brightness of 5,000 ANSI lumens. The image shall be projected onto a wall mounted, motorized, matte-white projection screen suitable for large audiences.

Audio
Media Audio Playback:
Ceiling-recessed speakers with sealed back enclosures shall be installed above student seating areas to ensure uniform and clear audio playback.

Audio Reinforcement:
An ADA-compliant portable assistive listening system shall be provided to ensure accessibility for all participants. Wireless microphone receivers shall support handheld and lapel microphones for instructor and guest speaker use. Media and speech audio shall be combined and distributed through the ceiling speaker system for consistent, balanced sound reinforcement across the hall.

Source Devices
Each room section shall include a dedicated media lectern for system control and connectivity. Connections shall terminate at floor boxes supporting AV, network, and power with a minimum 15 ft. cable reach. All major AV processing and routing components shall reside in a dedicated equipment closet with full size racks to support flexibility and scalability.

Permanent Video Sources:
An Extron presentation switcher, house in the lectern, will support input from:

- Built-in PC with Monitor
- HDMI document camera
- Blu-ray/DVD player
- Auto-tracking instructor camera
- Wireless presentation device

Permanent Audio Sources:
Audio sources will include the built-in computer, Blu-ray/DVD player, and the ceiling mounted microphone array.

Mobile Sources:
A multi-input device will provide connectivity for HDMI, USB-C, Mini DisplayPort, and VGA devices. Wireless collaboration tools shall enable screen sharing from laptops, tablets, and mobile phones.

System Control
Device Selection:
All media sources shall be managed through an Extron presentation switcher and a touch panel interface (minimum 7”). The input panel shall provide HDMI, USB-C, Mini-DP, and power connections for instructor devices.

Volume Control:
Audio levels will be adjusted directly from the Extron control interface.

Screen Control:
Projection screen controls (up/down and on/off) shall be integrated into the Extron interface.

Lighting Control:
For new construction only, lighting control shall be integrated into the Extron control system as part of the district audiovisual standard.

3.2 Conference/Meeting Rooms

3.21 Small Conference Room

Small Conference Rooms are multimedia-enhanced spaces designed to accommodate up to six participants for meetings, presentations, and collaborative work.

Each room shall be equipped with a wall-mounted interactive LCD or OLED touchscreen display featuring an onboard OPS computer, wireless keyboard, and mouse. These displays shall support multimedia presentations, touch enabled annotation, and wireless connectivity for user devices such as laptops, tables, and smartphones.

Image Requirements

Image Height:
The display shall be an LCD or OLED interactive flat panel ranging from 75 inches or larger sized appropriately to room dimensions.

Minimum specifications:

- Resolution 4K UHD (3,840 x 2,160)
- Aspect Ratio: 16:9
- Contrast Rate: Minimum 1,000,000:1
- Refresh Rate: Minimum 120Hz
- Inputs: At Least 3 HDMI and 1 USB input

The display shall include:

- Minimum 10-point touch capability
- Preinstalled interactive software annotation tools
- Integrated wireless collaboration system for screensharing and BYOD.

- Wall-mounted configuration, positioned to maintain ADA compliance and ergonomics visibility for all participants

Audio
Media Audio Playback:
Audio playback shall be provided by the display's integrated loudspeakers, delivering clear speech and media sound appropriate for a small meeting environment.

Source Devices
Permanent Audio Sources:
The interactive touchscreen monitor shall function as a stand-alone system, powered by its onboard OPS computer. It shall also support wireless connectivity for external devices (laptops, tables, or smartphones).

Permanent Audio Sources:
Audio shall originate from the display's onboard system and associated multimedia playback applications.

Mobile sources:
Built-in wireless collaboration tools shall allow participants to share content wirelessly from personal devices including laptops, tablets, and smartphones.

System Control
Device Selection:
Media source selection shall be managed directly through the interactive display interface.

Volume Control:
Audio levels shall be adjusted using the display's built-in volume controls or the system volume slider with the onboard computer.

Screen Control:
Not applicable.

Lighting Control:
Not applicable.

3.22 Medium Conference Room

Medium Conference Rooms are multimedia-enhanced collaboration spaces designed to accommodate up to twenty participants. These rooms shall feature an integrated audiovisual system capable of supporting multimedia presentations from the built-in computer as well as user-provided devices connected via ports integrated into the conference table or wall.

The system shall allow seamless switching between sources, provide high-quality audio and video for in-person and remote collaboration, and support wireless content sharing for laptops, tablets, and mobile devices.

Image Requirements
Image Height:
This displayed image shall provide clear legibility of 12-point font from the farthest seated position, while maintaining proper architectural sightlines and ergonomic viewing angles.

Image Width:
Width shall be proportional to height, targeting a 16:10 aspect ratio where feasible to ensure optimal image geometry and content compatibility.

Display Technology Options
Projector Display:
Each room may include a ceiling-mounted laser projector with a minimum resolution of 1900 x 1200 (WUXGA) and a minimum brightness of 5,000 ANSI lumens. The image shall be projected onto a wall-mounted, motorized matte-white projection screen appropriately to the space.

Wall-Mounted Display:
Flat-panel shall be LED or OLED, starting at 55 inches or larger, depending on room size and viewing distance.

Minimum specifications:

- Resolution: 4K UHD (3,840 x 2,160)
- Aspect Ratio: 16:9
- Contrast Ratio: 1,000,000:1 or greater
- Refresh Rate: 120 Hz or higher

Interactive Flat-Panel Display:
Where interactive capabilities are desired, the display shall be LCD or OLED, ranging from 55 inches or larger, with:

- Resolution: 4K UHD (3,840 x 2,160)
- Aspect Ratio: 16:9
- Contrast Ratio: 1,000,000:1 minimum
- Refresh Rate: 120 Hz
- Touch Capability: Minimum 10-point multi-touch
- Inputs: At least three HDMI and on USB input
- Software: Preinstalled interactive software with annotation tools and wireless collaboration support

Displays shall be wall-mounted in accordance with ADA and ergonomic standards.

Audio
Media Audio Playback:
Ceiling-recessed speakers with sealed back enclosures shall be installed to provide balanced media playback and voice reinforcement coverage throughout the room.

Audio Reinforcement:
An ADA-compliant portable assistive listening system shall be provided to ensure accessibility. Wireless microphone receivers shall support handheld or lapel microphones for presenters or remote conferencing needs. Media and speech audio shall be combined and distributed through the ceiling-mounted speaker system for consistent clarity.

Source Devices
Media Cabinet/Equipment Rack:
All audiovisual equipment necessary for system operation and control shall be housed in a standard AV rack, located in a lectern, conference table, casework, or dedicated closet, depending on the room design. Connections shall terminate at a floor box or wall plate that supports AV, network, and power infrastructure.

Permanent Video Sources:
An Extron presentation switcher, housed in the equipment rack, lectern, or table casework, shall support connections for:

- Built-in computer with monitor
- Wireless presentation device

Permanent Audio Sources:
Audio signals shall originate from the built-in computer and any associated media devices.

Mobile Sources:
A multi-input device shall enable HDMI, USB-C, Mini DisplayPort, and VGA connections for laptops, tablets, and cameras.
Built-in wireless collaboration tools shall allow users to share content wirelessly from personal devices.

System Control
Device Selection:
Media source selection shall be managed via an Extron presentation switcher integrated with a touch panel interface (minimum 7”). Input panels shall provide HDMI, USB-C, Mini-DP, and power connectivity for portable devices.

Volume Control:
Audio levels shall be adjusted through the Extron control interface.

Screen Control:
Projection screen or displays shall include power and on/off controls integrated into the Extron system interface.

Lighting Control:
For new construction project only, lighting controls shall be integrated into the Extron system as part of the district audiovisual standard.

3.23 Large Conference Room

Large Conference Rooms are multimedia-enhanced collaboration spaces designed to accommodate up to fifty participants. These rooms shall be equipped with an integrated audiovisual system capable of sharing multimedia presentations from a built-in PC and user-supplied devices connected through ports integrated into the conference table or wall.

Each room shall support hybrid and remote collaboration, including auto-tracking cameras, ceiling-mounted microphone arrays, and streaming devices for seamless participation by remote attendees.

Image Requirements
Image Height: Displayed images shall allow legibility of 12-point font from the farthest seated position while maintaining proper sightline and architectural considerations.

Image Width:
Width shall be proportional to height, maintaining a 16:10 aspect ratio where feasible for optimal viewing and presentation clarity.

Display Technology Options
Projector Display: Each large conference room shall include a ceiling-mounted laser projector with a minimum native resolution of 1900 × 1200 (WUXGA) and a minimum brightness of 5,000 ANSI lumens. The projected image shall display on a wall-mounted, motorized, matte-white projection screen sized appropriately to the room.

Flat-Panel Display (Optional / Supplemental): Rooms may include LED or OLED wall-mounted flat-panel displays of 75 inches or larger, depending on viewing distance and layout.

Minimum specifications:

- Resolution: 4K UHD (3,840 × 2,160)
- Aspect Ratio: 16:9
- Contrast Ratio: 1,000,000:1 or greater
- Refresh Rate: Minimum 120 Hz

These displays may supplement the projection system or serve as confidence or secondary displays for presenters and remote conferencing.

Audio
Media Audio Playback:
Ceiling-recessed speakers with sealed back enclosures shall provide uniform audio coverage for media playback across the room.

Audio Reinforcement:
An ADA-compliant portable assistive listening system shall be provided to ensure accessibility. Wireless microphone receivers shall support handheld and lapel microphones, and a ceiling-mounted microphone array shall capture speech for remote conferencing. Media and speech audio shall be combined and distributed through the ceiling speaker system for consistent, intelligible reinforcement.

Source Devices
Media Cabinet / Equipment Rack: All audiovisual components required for operation and control shall be housed in

a standard Middle Atlantic AV rack located in a podium, casework, or dedicated equipment closet, depending on room design. Connections shall terminate at a floor box or wall plate that supports AV, network, power, and safety cable coverage. A durable ADA-compliant cable ramp cover shall be provided to protect exposed cables and maintain accessibility compliance.

Permanent Video Sources:
An Extron presentation switcher, located within the equipment rack, lectern, or table casework, shall support connections for:

- Built-in computer with monitor
- Wireless presentation device

Permanent Audio Sources:
Audio shall originate from the built-in computer and associated streaming or conferencing devices.

Mobile Sources:
A multi-input connection device shall support HDMI, USB-C, Mini DisplayPort, and VGA connections for laptops and cameras. Wireless collaboration tools shall allow users to present from laptops, tablets, or smartphones.

System Control
Device Selection:
Media source selection shall be managed via an Extron presentation switcher integrated with a touch panel interface (minimum 7"). Input panels shall provide HDMI, USB-C, Mini-DP, and power connections for instructor or participant devices.

Volume Control:
Audio levels shall be adjusted through the Extron control interface.

Screen Control:
Projection screen up/down and power controls shall be integrated into the Extron interface.

Lighting Control:
For new construction projects only, lighting controls shall be integrated into the Extron system as part of the district audiovisual standard.

3.24 Study Room

A Study Room is a small collaborative space designed to support group study, project collaboration, and interactive learning among students. The room shall include an integrated wall-mounted interactive LCD touchscreen display that allows users to connect wirelessly from a laptop, tablet, or mobile device.

Image Requirements

Image Heights:
The image height shall allow participants to clearly read 12-point font from the farthest seated position in the room, while maintaining appropriate architectural sightlines and ergonomics.

Image Width:
The image width shall be proportional to height, targeting a 16:10 aspect ratio wherever possible.

Display Technology Options

Interactive Flat Panel Display (IFPD):

- Type: LCD panel with LED edge lighting or OLED display
- Size: Minimum 75 inches diagonal, scaled appropriately to room dimensions
- Resolution: Minimum 4K (3,840 × 2,160)
- Aspect Ratio: 16:9
- Contrast Ratio: ≥ 1,000,000:1
- Refresh Rate: ≥ 120 Hz
- Inputs: Minimum of 3 HDMI and 1 USB
- Touch Capability: Minimum 10-point touch
- Features: Preinstalled interactive software with annotation tools and integrated wireless collaboration system
- Mounting: Wall-mounted interactive direct-view display (minimum 1900 × 1200 pixels for 16:9 images)

Audio

Media Audio Playback:
Audio shall be provided via the display’s integrated speakers, suitable for small-group playback levels.

Permanent Audio Sources:
Audio playback shall originate from the display’s internal operating system and integrated applications.

Mobile Audio Sources:
Wireless collaboration features shall support audio transmission from user devices such as laptops, smartphones, and tablets.

Source Devices
Permanent Video Sources: The interactive touchscreen display shall operate as a standalone system with built-in wireless connectivity, allowing users to present from personal devices without additional hardware.

Mobile Sources: Users shall connect wirelessly through the display's built-in collaboration tools for screen sharing and content presentation.

System Control
Device Selection: Media source selection shall be managed directly through the interactive display interface.

Volume Control: Audio volume shall be adjusted via the display's built-in controls or through the connected device's system volume

Screen Control: Not applicable

Lighting Control: Not applicable

3.25 Multipurpose Room

A multipurpose room is a highly adaptable and versatile space designed to accommodate a wide variety of functions beyond a single, dedicated purpose. Unlike traditional classrooms or lecture halls, it is engineered with flexible features and technology to host diverse activities, from large-scale academic and social events to small collaborative sessions. It shall be outfitted with an integrated multimedia system capable of viewing media from a fixed PC, a presenter's laptop or other device, or a document camera. Multiple auto-tracking PTZ cameras shall be mounted on the walls to capture various presentation angles. Additionally, these spaces will include a dedicated multimedia streaming device to enable live streaming and recording of presentations to remote locations. A matrix switcher shall allow routing of any source to any display or streaming device. The larger audiovisual system will necessitate a full-size rack and a minimum 42" x 48" equipment closet to house it.

Image Requirements
Image Height:
Screens must allow for the legibility of 12-point font from the last seated row, while adhering to appropriate architectural standards.

Image Width:
Width should be proportional to height, targeting a 16:10 aspect ratio as closely as possible.

Display Technology Options

Projector Display:

A ceiling-mounted laser projector with a minimum native resolution of 1900 x 1200 (WUXGA) and a minimum brightness of 5,000 ANSI lumens shall be provided. The image will be projected onto a wall-mounted, motorized, matte-white projection screen sized appropriately for the room.

Wall-Mounted LCD Display:

Displays shall be LED or OLED, starting at 75 inches or larger depending on room size. They must support a minimum 4K resolution (3,840 x 2,160), a 16:9 aspect ratio, a contrast ratio of at least 1,000,000:1, and a refresh rate of 120Hz or higher. Panels shall be wall-mounted with a minimum resolution of 1900 x 1200 for 16:10 images.

Audio

Media Audio Playback:

Ceiling-recessed speakers with sealed back enclosures shall be installed above seating areas to provide even media audio playback.

Audio Reinforcement:

A ceiling-mounted microphone array shall complement wireless lapel or handheld microphones, providing a collaborative environment between in-person and remote attendees. Media and speech audio shall be combined and played through the ceiling-recessed speakers. An ADA-compliant portable assistive listening system shall be available to ensure audio clarity and accessibility.

Source Devices

Equipment Housing:

A standard media lectern shall house a dedicated room PC, document camera, and Extron touchscreen control panel. The system will be installed in a rack located within a standard 42” x 48” equipment closet. Connections to the lectern shall terminate at a floor box supporting AV, network, and power.

Permanent Video Sources:

An Extron presentation switcher, housed in a dedicated equipment rack, shall support connections for a built-in computer with monitor, an HDMI document camera, auto-tracking cameras, and a wireless presentation device.

Permanent Audio Sources:

Audio shall originate from the built-in computer, wireless microphones, and ceiling-mounted microphone array

Mobile Sources:
A multi-input device shall enable HDMI, USB-C, Mini-DP, and VGA connections for mobile devices such as laptops or cameras. Wireless collaboration tools shall allow users to present from laptops, tablets, or smartphones.

System Control
Device Selection:
Media source selection shall be managed via an Extron presentation switcher and a touchscreen interface (minimum 10 inches).

Volume Control:
Audio levels shall be adjusted through the Extron control panel.

Screen Control:
The Extron system shall include screen control, with on/off functionality integrated into the interface.

Lighting Control:
For new construction projects only, lighting shall be integrated into the Extron control system as part of the audiovisual standard.

3.3 Digital Signage

Digital signage systems provide dynamic visual communication for campus announcements, event promotion, emergency alerts, and wayfinding. To ensure consistency, reliability, and ease of maintenance across all facilities, all digital signage deployments shall adhere to the following standards.

System Overview
Digital signage equipment shall utilize a centralized content management system (CMS) that allows remote scheduling, monitoring, and updating of content. The CMS must support multiple display zones, content templates, and integration with external data sources such as calendar systems or emergency alert platforms. All signage endpoints must connect via the institution's data network using approved VLAN configurations and authentication protocols.

Display Hardware
Displays shall be commercial-grade, 24/7-rated flat panel units with a minimum brightness of 500 nits. Display size and placement shall be selected based on viewing distance and location requirements. Both landscape and portrait orientations must be supported. Displays shall be mounted using UL-listed brackets, ensuring compliance with ADA and building code requirements. Outdoor or high-brightness areas shall utilize weather-rated, sunlight-readable displays.

Media Players
Media players shall be networked digital signage devices certified by the CMS vendor. They must support 1080p or higher video playback, HTML5 content, and image-based media. Players shall be remotely manageable for monitoring, firmware updates, and troubleshooting. Media players must comply with institutional network security policies and support remote reboot, content verification, and automated health reporting.

Power and Network
All displays and media players shall be powered from dedicated electrical circuits or Power over Ethernet (PoE) if supported, and connected through surge-protected outlets. Each device shall have a minimum 1 Gbps network connection. Wired Ethernet connections are preferred over wireless for maximum reliability. Cabling shall be concealed, neatly managed, and terminated in accordance with AV and IT infrastructure standards.

Maintenance and Support
Digital signage systems shall include built-in health monitoring features with automatic alerts for player or display failures. Firmware, software, and content templates shall be updated periodically to maintain security, stability, and compatibility. All signage equipment shall be installed in a manner that allows safe and easy access for maintenance, without disrupting nearby operations or aesthetics.

4.0 AV System Equipment Requirements

These specifications represent the minimum standards for general classrooms across the Riverside Community College District (RCCD). Spaces such as tiered lecture halls, multi-purpose rooms, conference areas, and other large venues shall be individually reviewed by District Technology Support Services (TSS) to determine appropriate projector brightness, lensing, and display technology requirements based on room size, ambient light conditions, and intended use.

4.1 Video Projectors

All projectors shall be laser-illuminated and rated at a minimum of 5,000 ANSI lumens. Resolution: Minimum of 1900 x 1200 pixels (WUXGA) with a 16:10 aspect ratio. Performance Standard: Projected image systems shall comply with AVIXA (InfoComm) 3M-2011 – Projected Image System Contrast Ratio. Grade: Equipment shall be commercial/business grade, supporting continuous operation and network monitoring. Additional Considerations: For larger instructional or divisible spaces, projector brightness and lens selection shall be reviewed and approved by TSS.

4.2 Projection Screens

Screens shall be wall-mounted, motorized, and constructed with matte-white viewing surfaces for optimal image quality. Screen operation shall be integrated into the room control system for automated deployment. Screen size and placement shall be determined in accordance with ANSI/INFOCOMM V202.01:2016 – Display Image Size for 2D Content and the room’s seating geometry.

4.3 Flat Panel Displays

Standard LCD Displays:
Displays shall be LED-backlit LCD or OLED panels, 75" or larger, depending on room dimensions and viewing distance. Resolution: Minimum 4K UHD (3840 x 2160) at 16:9 aspect ratio. Contrast Ratio: Minimum 1,000,000:1. Refresh Rate: 120 Hz or higher. Must support a minimum native resolution of 1900 x 1200 for 16:10 formatted content when required. Mounting shall be wall-mounted or cart-mounted per space type and ADA compliance.

Interactive LCD Displays:
Displays shall be LED-edge-lit LCD or OLED, sized 75" and larger per space requirements. Resolution: Minimum 4K (3840 × 2160). Aspect Ratio: 16:10.Contrast Ratio: Minimum 1,000,000:1 with 120 Hz refresh rate. Minimum 10-point touch capability with preinstalled interactive and annotation software. Integrated wireless collaboration system required for multi-device content sharing. Shall include minimum connectivity: (3) HDMI inputs, (1) USB input. OPS (Open Pluggable Specification) onboard PC required, factory-installed by the display manufacturer with at least: Intel i7 processor, 8 GB RAM, 1 TB SSD storage.

4.4 Audio Reproduction Systems
4.5 Video System and Source Equipment
4.6 Audio Visual Control System
4.7 Specialty Audio Visual Equipment
4.8 Assistive Listening Systems
4.9 Digital Signage

5.0 Instructor Lectern Requirements

The instructor’s lectern shall include a built in AV rack to house the built in PC, and Extron control system, as well as the touch panel for control, document camera, and multi-input device for portable device sharing.

6.0 Supported Manufacturers

To ensure consistency, compatibility, and long-term support across all district facilities, the following manufacturers are approved for use in audiovisual system design, procurement, and implementation. These manufacturers have been evaluated based on reliability, integration capability, product support, and alignment with district technical standards.

6.1 Video Projectors

- Panasonic – Standard and large-venue laser projection systems
- Epson – Short-throw laser projectors for classrooms and confined spaces

6.2 Projection Screens

- Da-Lite – Motorized and fixed-frame projection screens

6.3 Flat Panel Displays

- Samsung – Commercial-grade 4K UHD displays for signage and classrooms
- Panasonic – Professional-grade interactive and non-interactive displays
- Newline – Interactive flat-panel displays with OPS compatibility

6.4 Audio Reproduction Systems

- Shure – Wireless microphone systems for lecture and conference environments
- JBL – Ceiling and wall-mounted loudspeakers for classroom and performance spaces

6.5 Video System and Source Equipment

- Mersive Solstice – Wireless collaboration and presentation platform

6.6 Audiovisual Control System

- Extron – Control processors, touch panels, and switching system

6.7 Specialty Audiovisual Equipment

- Lumens – Document cameras
- Mediasite – Lecture capture and streaming encoders
- BrightSign – Digital signage and media playback device

6.8 Assistive Listening Systems

- Listen Technologies (Listen Tech) – ADA-compliant assistive listening systems

6.9 Digital Signage Systems

- BrightSign – Digital signage media players
- Carousel CMS – Centralized content management system

6.10 Lecterns and Furniture

- Spectrum Industries – Instructor lecterns, podiums, and integrated AV furniture

Appendix A – Equipment Standards

Manufacturer	***Description***	***Part Number***	***Description***
Aver	Aver Camera Wall Mount	COMSVCMNT	Aver Camera Wall Mount
Aver	Aver PTZ330UV2 Pro AV	PTZ330UV2	Aver Non-Tracking Pan-Tilt-Zoom Camera
Aver	Aver Autotracking Camera TR335V3	PATR335V3	AVER Autotracking camera
Aver	RS-232 DIN 8 to D-Sub 9 Cable	064AOTHERBPK	Aver control dongle
Belkin	Multiport to HDMI Digital AV Adapter	B2B166	Belkin Multi input cable
Belkin	Belkin 24W Dual Port USB Wall Charger	WCB002dq	Belkin USB powersupply for input cable
Biamp	AVB Server IO DSP	TESIRA SERVER-IO AVB	modular, networkable, digital signal processor that provides scalable audio I/O and extensive audio manipulation capabilities for large-scale, professional audio-video systems using the AVB protocol
Biamp	Biamp Tesira EX-MOD	Tesira EX-MOD	modular, rack-mountable audio expander device that connects to a Tesira DSP over an AVB network to provide up to twelve customizable, remotely placed channels of analog input and/or output.
Biamp	Biamp Tesira Forte X1600 DSP	BIATESIRAFORTEX1600	DSP featuring 16 channels of AEC, multi-network audio support
Biamp	EX-AEC	Tesira EX-AEC	modular audio expander device for the Biamp Tesira audio Server

Biamp	EX-IN	Tesira EX-IN	Modular audio expander with 4 non-AEC, microphone or line-level audio signals
Biamp	EX-UBT to connect USB to PC	Tesira EX-UBT	modular audio expander expander for the Tesira system, focused on digital audio connectivity. It acts as an AVB/USB Expander with integrated Bluetooth wireless technology.
Biamp	POE injector	POE-INJ	Biamp Power Over Ethernet Injector for Biamp devices
Biamp	SCM-1 Cobranet card	Tesira SCM-1 CK	Cobranet networking component for Tesira server
Biamp	SEC-4 inputs cards	TESIRA SEC-4	4-channel mic/line analog input card for Tesira Server
Biamp	SOC-4 output cards	Tesira SOC-4	modular analog output card for the Biamp Tesira Server
Biamp	Tesira EX-IO	Tesira EX-IO	compact, half-rack, 4-channel audio expander that uses PoE+ to provide two channels of mic/line input and two channels of mic/line output over an AVB network
Biamp	Tesira Parlé TCM-XA White	910.0499.900	AVB-enabled, low-profile ceiling microphone and PoE+ amplifier
Biamp	Tesira Parlé TCM-XEX White	910.0500.900	expansion ceiling microphone that utilizes Beamtracking technology to extend the audio coverage of an existing Tesira Parlé TCM-X or TCM-XA system

Biamp	TesiraCONNECT TC-5	TesiraCONNECT TC-5	5-port device for Tesira systems that provides power (PoE+) and AVB media networking
Biamp	TesiraFORTE AVB VT	TesiraFORTE AVB VT	rack-mountable digital audio server with 12 analog inputs, 8 analog outputs, Acoustic Echo Cancellation (AEC) on all inputs, and integrated VoIP, POTS, and USB audio
Brightsign	XD235 with pre-installed 32GB Micro SD card	XD235-32GB	Standard I/O Professional 4K player with a pre-installed 32GB microSD card
C2G	25ft Cat6 Network Patch Ethernet Cable Yellow	27195	25-foot yellow Cat6 Snagless Ethernet network patch cable
C2G	6.6ft USB A to B Cable Black	28102	6.6-foot black USB 2.0 cable with a Type-A male connector and a Type-B male connector
C2G	6.6ft USB TYPE A MALE TO MALE	28106	6.6-foot black USB 2.0 cable with male Type-A connectors on both ends
C2G	6.6ft USB TYPE USB A to C	28832	6-foot black USB-C male to USB-A male cable
C2G	Cables2go Extension	CG03115	6-foot, 18 AWG black power extension cord with a NEMA 5-15P male plug on one end and a NEMA 5-15R female receptacle on the other
Chief	Ceiling plate kit	KITPD0203	projector ceiling mount kit that includes a universal projector mount (RPAU), a ceiling plate (CMS115), and an adjustable 2-to-3-foot extension column (CMS0203)

Chief	Chief Above Tile Suspened Ceiling kit w/ 3" fixed pipe	CMA440	above-tile suspended ceiling kit designed to provide a secure anchor point for mounting projectors
Chief	Chief RPA Elite Projector Security Mount	RPMA1	universal projector security mount
Chief	Extra-Large Fusion® Micro-Adjustable Tilt Wall Mount	XTM1U	X-Large Fusion micro-adjustable tilt wall mount designed for 55" to 100" flat-panel displays
Chief	Large Fusion® Fixed Wall Display Mount	LSA1U	Large Fusion universal fixed wall mount for 42" to 86" flat-panel displays, featuring a low 2" profile
Christie	ILS lens 2.0-2.8:1 SX+/1.8-2.6:1 HD	118-100113-01	Intelligent Lens System (ILS) zoom projector lens for Christie M and J Series projectors
Christie	M 4K25 RGB Projector	M 4K25	RGB Projector is a 25,000 lumen, 4K UHD, 3DLP pure RGB laser projector for large venues
Cisco	Small Business 110 Series Unmanaged Switch	CBS110-8T-D	an unmanaged switch providing eight Gigabit Ethernet ports
Crown	DCI 4/300 audio amplifier	DCI4300	4-channel amplifier providing 300 watts per channel both low-impedance (2-16 Ohm) and high-impedance (70V/100V)
Dalite	Advantage Contour Electrol 164" Diagonal w/26" additonal drop	34524L	Dalite motorized projection screen
Dalite	CONTOUR 137D 72.5X116 MW CUSTOM VIEWING AREA 71''x113.5''	70192LSC	Dalite motorized projection screen
Dalite	Contour 180D DM with Custom Black Drop and LVC 108"H x 144"W 60" total Black drop at top	70196LC	Dalite motorized projection screen

Dalite	Contour Electrol 16:10 189" Diagonal 100"x160" Screen	70196L	Dalite motorized projection screen
Dalite	Contour Electrol 10' 16:10 137" Diagonal 72.5"x116" Screen	70192LS	Dalite motorized projection screen
Dalite	Contour Electrol 11.5' 16:10 164" Diagonal 87"x139" Screen	37578L	Dalite motorized projection screen
Dalite	Contour Electrol 8.5' 16:10 123" Diagonal 65"x104" Screen	20877LS	Dalite motorized projection screen
Dalite	Contour Electrol 9' 16:10 130" Diagonal 69"x110" Screen	37574LS	Dalite motorized projection screen
Denon	Denon Blu-ray player	DN-500BD-MKII	professional-grade, 1U rackmount media player that supports playback of Blu-ray, DVD, and CD discs
ELO	Elo 1502L Touch Screen - No Stand	E125496	15.6-inch, Full HD touchscreen monitor featuring PCAP 10-touch technology
Epson	100" Whiteboard for Projection and Dry Erase (16:9)	V12H006A02	combination projection screen and dry-erase whiteboard
Epson	Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	V12HA06A05	Adjustable, ultra-short throw wall mount with a telescopic arm
Epson	Epson Brightlink 1485Fi Interactive Projector	V11H919520	1080p 3LCD Interactive Laser ultra-short throw projector
Epson	Epson Projector Replacement Air Filter	V13H134A56	replacement air filter for Epson projector
Epson	Interactive Touch Module	V12H007A23	Interactive Touch Module accessory that adds finger-touch capabilities to Epson projectors
Extron	Air Filter Kit XPA Ultra FX - 10pk	70-1341-01	Replacement Air Filter Kit for use with Extron XPA Ultra FX Series audio power amplifiers

Extron	Audio Amplifier XPA U 4004 FX	60-2034-01	four-channel, 400-watt per channel, audio power amplifier with configurable outputs for simultaneously driving 8 Ω, 4 Ω, 70 V, and 100 V speaker loads
Extron	DisplayPort M-HDMI F Active, 6"	26-713-01	6-inch active adapter cable that converts a DisplayPort source to an HDMI output
Extron	DTP Crosspoint 108 4k 10x8 Seamless 4k Scaling Presentation Matrix switcher	60-1381-01	10x8 matrix switcher that integrates 4K scaling, DTP twisted pair extension, audio DSP with AEC, an audio power amplifier, and an IPCP Pro xi control processor
Extron	DTP Crosspoint 86 4K IPCP Q MA 70	60-1382-93	8x6 matrix switcher featuring 4K scaling, DTP extension, a built-in IPCP Pro control processor, ProDSP audio with AEC, and an integrated 100-watt, 70-volt mono power amplifier
Extron	DTP HDMI 4K 230 Rx	60-1271-13	digital twisted pair receiver that extends 4K HDMI video, audio, and bidirectional control signals up to 230 feet
Extron	DTP HDMI 4K 230 Tx	60-1271-12	digital twisted pair transmitter that sends 4K HDMI video, audio, and bidirectional control signals up to 230 feet
Extron	DTP T SW4 HD 4K	60-1625-01	Four-input HDMI switcher with an integrated DTP transmitter that automatically selects and sends 4K video, audio, and control signals up to 330 feet

Extron	Extron Cable Cubby 202 AAP Bracket	70-1043-01	AAP bracket designed for the Cable Cubby 202 enclosure, allowing it to hold up to two single-space Extron AAP AV connectivity modules
Extron	Extron Cable Pass-Through AAP	70-267-01	Cable Pass-Through AAP with a right-sided orientation and grommets included, designed to allow AV, data, or control cables to be pulled through
Extron	Extron Cable Pass-Through AAP	70-270-01	Cable Pass-Through AAP with a Left-sided orientation and grommets included, designed to allow AV, data, or control cables to be pulled through
Extron	Extron Double Blank AAP	70-090-12	AAP in black used to cover unused openings in compatible Extron AAP mounting frames
Extron	Cable Cubby 222 US	60-1927-02	compact, furniture-mountable access enclosure for AV connectivity and power
Extron	HDMI Pro/25	26-650-25	25-foot HDMI Pro Series cable
Extron	HDMI Ultra/12	26-663-12	12-foot HDMI Ultra Series cable
Extron	HDMI Ultra/16	26-663-06	6-foot HDMI Ultra Series cable
Extron	HDMI Ultra/3	26-663-03	3-foot HDMI Ultra Series cable
Extron	IN1808 IPCP Q MA 70	60-1615-93	eight-input 4K/60 seamless presentation switcher with an integrated control processor and a 100-watt Class D mono amplifier for 70-volt systems

Extron	IN1806	60-1663-01	Six Input 4K/60 Seamless Presentation Switcher that features a high-performance Vector 4K scaling engine, DisplayPort and HDMI inputs, and mirrored HDMI and DTP2 outputs for extending video, audio, and control signals
Extron	IN1808	60-1615-01	eight-input seamless presentation switcher with advanced 4K/60 scaling and DTP2 extension for switching and distributing high-resolution digital video and audio signals.
Extron	IN1808 IPCP Q SA	60-1615-92	eight-input 4K/60 seamless presentation switcher featuring an integrated control processor and a Class D stereo amplifier
Extron	IPCP Pro 360Q xi	60-1916-01	Quad-Core control processor with multiple control ports and dedicated AV LAN ports
Extron	IPCP Pro 550	60-1418-01	IP Link Pro control processor designed for centralized AV system control
Extron	MBU 123 Low-Profile Mount Kit	70-212-01	low-profile mount kit used for discreetly installing Extron 1U high, 1/8, 1/4, and 1/2 rack-width products under surfaces
Extron	MBU 125 1/4 & 1/2 Rack Width Low-Profile Mount Kit	70-077-01	low-profile mount kit used for discreetly installing Extron quarter-rack and half-rack, two-piece enclosure products under surfaces

Extron	MediaPort 200	60-1488-01	HDMI and Audio to USB Scaling Bridge designed to integrate professional AV sources and systems with software-codec conferencing applications
Extron	OCS 100C Occupancy Sensor	60-1664-01	dual-technology ceiling occupancy sensor
Extron	PI 115 - Power Injector for Pro Series Control Systems	60-1233-02	a single port power injector for XTP Extender or control systems
Extron	PS 1242 12 V, 4.2 A, Quarter Rack	70-1246-01	an external 12 VDC, 4.2 A desktop power supply
Extron	RSB 129 Rack Shelf	60-604-02	a 1U, 9.5-inch deep basic rack shelf
Extron	Network AAP	70-491-11	a single-space AAP featuring two female-to-female RJ-45 barrel connectors for a pass-through connection
Extron	TLI Pro 201 Touchlink	60-1669-01	a TouchLink Interface that enables a third-party 4K touchscreen display with HDMI input/output and PoE+ to function as a point of control and video preview within an Extron Pro Series control system.
Extron	TLP Pro 1025T	60-1565-02	10-inch tabletop TouchLink Pro Touchpanel
Extron	TLP Pro 725T	60-1562-12	7-inch black tabletop TouchLink Pro Touchpanel
Extron	Two XTP DTP 24 Couplers AAP	70-1051-11	double-space AAP in black that contains two XTP DTP 24 couplers

Extron	USB Extender Plus R	60-1471-13	USB Extender Plus R Receiver when paired with a transmitter, extends and/or switches USB peripheral signals over a single CATx cable
Extron	USB Extender Plus T	60-1471-12	USB Extender Plus T Transmitter when paired with a Receiver, extends and/or switches USB peripheral signals over a single CATx cable
Extron	USB Plus Matrix Controller	42-267-01	provides a simple management interface for creating and controlling USB matrix switching systems of up to 64 Extron USB Extender Plus Series transmitters and receivers
Extron	USB-C to HDMI adapter	USBC-HDF/0.5	USB-C male to HDMI female adapter cable designed to connect USB-C sources supporting DisplayPort Alt Mode to HDMI displays
Extron	USBC-A/6	26-723-06	USB-C to USB-A cable (USBC-A/6) that supports SuperSpeed USB 5 Gbps data transfer
Extron	XPA 4002 Two Channel Amp - 400 Watts/Ch	60-1244-01	two-channel amplifier that delivers 400 watts rms per channel into 4 ohms, or 800 watts bridged into 8 ohms

Extron	XTP 3200 Frame	60-1546-01	XTP II CrossPoint 3200 Frame, a modular digital matrix switcher configurable from 4x4 up to 32x32 for routing 4K video, audio, bidirectional control, and Ethernet signals over twisted pair
Extron	XTP CP 4i 4K Four Input Board, XTP - 26W Remote Power Capable	70-940-31	four-input board for an XTP CrossPoint matrix switcher that receives 4K video, audio, bidirectional control, and Ethernet signals over shielded CATx cable and can supply 26 watts of remote power to XTP endpoints.
Extron	XTP CP 4o 4K Four Output Board, XTP - 26W Remote Power Capable	70-943-31	4K four-output board for an XTP CrossPoint matrix switcher that transmits video, audio, bidirectional control, and Ethernet signals over shielded CATx cable up to 330 feet and can supply 26 watts of remote power to XTP receivers.
Extron	XTP CP 4o SA	70-944-01	four-output, single-slot board for an XTP CrossPoint matrix switcher that provides four independent analog stereo audio outputs
Extron	XTP DTP 24/25	26-702-25	25-foot pre-terminated, non-plenum shielded twisted pair
Extron	XTP DTP 24P/75' cable	26-695-75	75-foot pre-terminated, plenum shielded twisted pair

Extron	XTP II CP 4i HD 4K PLUS	70-1112-01	four-input board for an XTP II CrossPoint matrix switcher that provides four HDMI inputs with stereo audio
Extron	XTP II CP 4o HD 4K PLUS	70-1113-01	four-output board for an XTP II CrossPoint matrix switcher that provides four HDMI outputs with stereo audio
Extron	XTP II CrossPoint 1600 Frame w/ RPS	60-1545-11	modular digital matrix switcher frame, configurable up to 16x16 I/O, featuring a 50 Gbps backplane that supports high-performance switching and extension of video, audio, control, and Ethernet
Extron	XTP R HD 4K	60-1524-13	XTP HDMI receiver that extends 4K video, embedded audio, bidirectional control (RS-232 and IR), and Ethernet signals up to 330 feet
Extron	XTP SR HD 4K	60-1524-02	XTP HDMI scaling receiver that uses Vector 4K technology to scale HDMI video up to 4K and extends video, embedded audio, RS-232, IR, and Ethernet up to 330 feet (
Extron	XTP T HD 4K	60-1524-12	XTP HDMI transmitter that extends 4K video, audio, bidirectional control (RS-232 and IR), and Ethernet up to 330 feet

Extron	XTP T USW 103 4K	60-1717-12	three-input multi-format switcher and integrated XTP transmitter that automatically selects between DisplayPort, HDMI, or VGA sources and extends 4K video, audio, control, and Ethernet up to 330 feet
Extron	XTP T UWP 202 4K NL	60-1530-12	two-input decorator-style wallplate transmitter for HDMI and VGA that extends 4K video, audio, and bidirectional RS-232/IR control signals up to 330 feet
Furman	Furman M4315-PRO	M4315-PRO	1U rack-mountable power management system that provides 15 Amp power conditioning, with BlueBOLT IP
JBL	JBL Control 26CT Speakers	CONTROL26CT	6.5" two-way coaxial ceiling loudspeaker which includes a multitap transformer for use with 70V or 100V
Listen Systems	LCS-121-01 Wi-Fi/RF Advanced System	LCS-121-01	Wi-Fi/RF Advanced System that provides a dual-technology assistive listening solution by broadcasting audio over both 72 MHz RF (to dedicated receivers) and Wi-Fi
Logitech	Logitech Rally Bar Mini	960-001336	an all-in-one video conferencing bar featuring a 4K UHD camera, AI-driven audio/video
Logitech	Logitech TV Mount For Video Bars	952-000041	TV Mount for Rally Video Bars, a VESA-compatible bracket used to securely mount Logitech Rally Bar

Logitech	MK710 Wireless Desktop Keyboard and mouse	920-002416	Wireless Desktop Combo, a full-size wireless keyboard and mouse set
Lumens	Lumens DC 172 - document camera	DC172	4K document camera with a flexible gooseneck arm, HDMI pass-through
Mersive	Solstice Pod Gen3 Power Supply	SP-8301-E	12V DC, 2A power supply unit for the Mersive Solstice Pod Gen3
Mersive	Solstice Pod Gen3 with perpetual Unlimited Enterprise software license (unlimited users) and 5 years	SP-8000-E5	Gen3 Solstice Pod hardware platform with the Unlimited Enterprise Edition software license for wireless collaboration and content sharing
Middle Atlantic	Middle Atlantic 9 Outlet	PD-915RC-20	15-amp, 1U horizontal rackmount power strip with nine outlets
Middle Atlantic	PTRK Series Portable Rolling Rack 27RU	PTRK-2726	a 27U portable rolling rack with a 26-inch depth, locking casters, and front and rear keyed doors
Netgear	Netgear 24x1G PoE+ 480W 2x1G and 4xSFP+ Managed Switch	GSM4230PX	1U managed network switch from the M4250 AV Line, featuring 24 Gigabit PoE+ ports with a 480W budget, four 10G SFP+ uplinks
Netgear	Netgear 12x2.5G and 2xSFP+ Managed Switch Managed Switch	MSM4214X	managed network switch from the M4250 AV Line, featuring 12 Multi-Gigabit (2.5G) Ethernet ports and two 10G SFP+ uplink ports

Netgear	Netgear 8x1G PoE+ 110W 1x1G and 1xSFP Managed Switch	GSM4212PX	managed Ethernet switch from the M4250 AV Line, featuring 8 Gigabit PoE+ ports (240W budget), 2 additional Gigabit Ethernet ports, and 2 10G SFP+ uplink ports
Newline	65" 4k UHD Interactive Display	TT-6524ZPro	65-inch, Google EDLA-Certified 4K LED multi-touch interactive display with an embedded Android 13 OS, an 8-microphone array, and USB-C connectivity
Newline	75" 4k UHD Interactive Display	TT-7524ZPro	75-inch, Google EDLA-Certified 4K LED multi-touch interactive display with an embedded Android 13 OS, an 8-microphone array, and USB-C connectivity
Newline	86" 4k UHD Interactive Display	TT-8624ZPro	86-inch, Google EDLA-Certified 4K LED multi-touch interactive display with an embedded Android 13 OS, an 8-microphone array, and USB-C connectivity
Newline	Intel OPS i7 16gb RAM 1TB SSD	EPR8A67160-000	Open Pluggable Specification (OPS) on-board computer featuring an Intel Core i7 processor, 16GB RAM, and a 256GB SSD
Newline	OPS Hard Drive Upgrade - 1tb SSD	EPR8A6S999-000	1TB Solid State Drive (SSD) upgrade module designed to increase the storage capacity of Newline's Open Pluggable Specification (OPS) on-board computers

Panasonic	Panasonic 65" Display	TH-65SQE1W	65-inch 4K UHD LED-backlit LCD professional display designed for digital signage and commercial use, supporting 24/7 operation
Panasonic	Panasonic PT-RZ790LBU7 Laser DLP HD Projector	PT-RZ790LBU7	7,000 ANSI lumens, WUXGA (1920×1200 resolution) 1-Chip DLP laser projector
Panasonic	Projector Fixed Zoom Lens	ET-DLE250	power zoom lens for Panasonic DLP projectors, to provide a flexible long-throw projection distance with a 2.5-4.0:1 throw ratio
Panasonic	Projector Fixed Zoom Lens	ET-DLE350	power zoom lens for select Panasonic DLP projectors, providing a long-throw projection distance typically with a 3.6-5.4:1 throw ratio
Panasonic	PT-VMZ51U HD Projector	PT-VMZ51U	WUXGA (1920 × 1200) 3LCD laser projector, 5,200 lumens, with1.6x zoom and lens shift
Samsung	75" Professional display QM75C series	QM75C	75-inch 4K UHD commercial digital signage display with 500 nits of brightness and a non-glare panel designed for 24/7 operation
Shure	Shure UA845UWB Ultra-Wide Band Antenna Distribution System	UA845UWB	active ultra-wide band antenna and power distribution system that allows up to four wireless receivers to share a single pair of antennas while amplifying the RF signal and distributing power to the receivers

Shure	Wireless System with SLXD2/58 Handheld Transmitter, SLXD1 Bodypack Transmitter and WL185 lavalier microphone	SLXD124/85-J52	digital wireless combo microphone system operating in the J52 band that includes an SLXD4 receiver, an SLXD2 handheld transmitter with an SM58 capsule, an SLXD1 bodypack transmitter, and a WL185 cardioid lavalier microphone
Shure	Wireless System with ULXD2/58 Handheld Transmitter, ULXD1 Bodypack Transmitter and WL185 lavalier microphone	SHULXD124DG5	Dual Channel Combo Wireless System, is a professional digital wireless system that includes a dual-channel receiver, an SM58 handheld transmitter, and a bodypack transmitter for lavalier or instrument use
Sonic Foundry	Mediasite RL-940 Streaming Media encoder	MS-RL-940	a rack-mountable Mediasite RL940 MultiView Recorder designed for automated, high-volume video capture and streaming
Sonic Foundry	Mediasite Customer Assurance	MSL-SSS-S09	Mediasite Customer Assurance Support and Maintenance Plan for a Mediasite Rich Media RL Recorder
Spectrum Furniture	Link Lectern	55115	a mid-sized, fixed-height mobile podium with options for an integrated rack cube
Spectrum Furniture	Freedom XRS Elite Lectern	55418	an electrically height-adjustable podium designed with a large worksurface and an integrated 14RU equipment rack

Spectrum Furniture	Freedom One eLift Lectern	55542	an electrically height-adjustable podium with an ergonomic worksurface that is designed to integrate with a separate AV equipment rack.
Spectrum Furniture	IMC 29” Acrylic Door Black	68103B	a black, clear acrylic locking door designed to be an optional security front panel for the 29" H equipment rack of the Instructor Media Console (IMC)
Spectrum Furniture	IMC 29” equipment rack	68107	the 29" H (14RU) Equipment Rack for the Instructor Media Console (IMC)
Spectrum Furniture	IMC 29” radius corner cherry/black	68106CHB	a Wild Cherry and Black laminate 29" H Radius Corner Worksurface component for the Instructor Media Console (IMC)
Spectrum Furniture	IMC 29” Wall Filler Panel	68101	29" H Wall Filler Panel for the Instructor Media Console (IMC)
Spectrum Furniture	IMC Double worksurface Cherry/Black	68201CHB	a Wild Cherry laminate Double Worksurface component with a Black edgeband for the Instructor Media Console (IMC)
Spectrum Furniture	IMC Single Work Surface	68200CHB	a Wild Cherry laminate Single Worksurface component with a Black edgeband for the Instructor Media Console (IMC)
Spectrum Furniture	Rack Mount Pull out shelf	97503	a 21 3/4" deep Rack Mount Pull-Out Shelf that occupies 2 rack units (RU)

Tannoy	Tannoy VX12Q 12" PowerDual Full-Range Loudspeaker with Q-Centric Waveguide	VX12Q	passive, 12-inch PowerDual full-range loudspeaker with a Q-Centric waveguide that provides a tight 75° x 40° dispersion
Tannoy	VX VMB WALL HANGING MOUNT	8001 2800	pole-mount top hat accessory for the Tannoy V12 loudspeaker series
Tannoy	Yoke Horizontal for VX12	TA-VX12.2YOKE-BK	black yoke accessory bracket that allows for angular adjustment of compatible Tannoy VX series loudspeakers
Tannoy	Tannoy Qflex 24	80040121	a powered, digitally steerable column array loudspeaker featuring 24 channels of integrated DSP
Tascam	MZ-123BT Line Mixer	MZ-123BT	1U rack-mountable multi-zone audio mixer with Bluetooth and microphone inputs
Trendnet	Gigabit Power Over Ethernet Plus Injector	TPE-115GI	a Gigabit PoE+ Injector that combines electrical power and data onto a single Ethernet cable
Vaddio	RoboSHOT 30E HDBT OneLINK HDMI PTZ Camera System	999-99630-100W	professional PTZ camera bundle that uses HDBaseT technology to extend power, HD video, and control over a single network cable
Vaddio	Thin Profile Wall Mount for RoboSHOT PTZ Cameras	535-2000-240W	wall mount bracket designed for use with various Vaddio RoboSHOT PTZ cameras

Vaddio	Vaddio AV Bridge MatrixMIX Production System	999-5660-500	professional AV production kit that includes an 8x2 video mixer and an 11x7 audio mixer, along with a PCC MatrixMIX Camera Controller for live event streaming
Vaddio	Vaddio TeleTouch 27" USB Touch-Screen Multiviewer	999-80000-027	Touch-Screen Multiviewer Display that provides an intuitive Full HD user interface for video switching and camera control in live production environments
Vaddio	DocCAM 20 HDBT OneLINK HDMI System	999-9968-200	a recessed in-ceiling Full HD document camera with 20x optical zoom and a OneLINK HDMI interface for transmitting video, power, and control over a single Cat cable
Vaddio	Single 1/2 Rack Mounting Kit	998-6000-004	a Single 1/2 Rack Mounting Kit used to securely mount one compatible Vaddio half-rack width device

RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT

MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

Norco College
Center for Human Performance & Kinesiology Project

Site Location & Secondary Effects

CHP+K Project

- Two-story building 56,284 GSF (38,791 ASF); 69% efficiency

Secondary Effect #1 Project

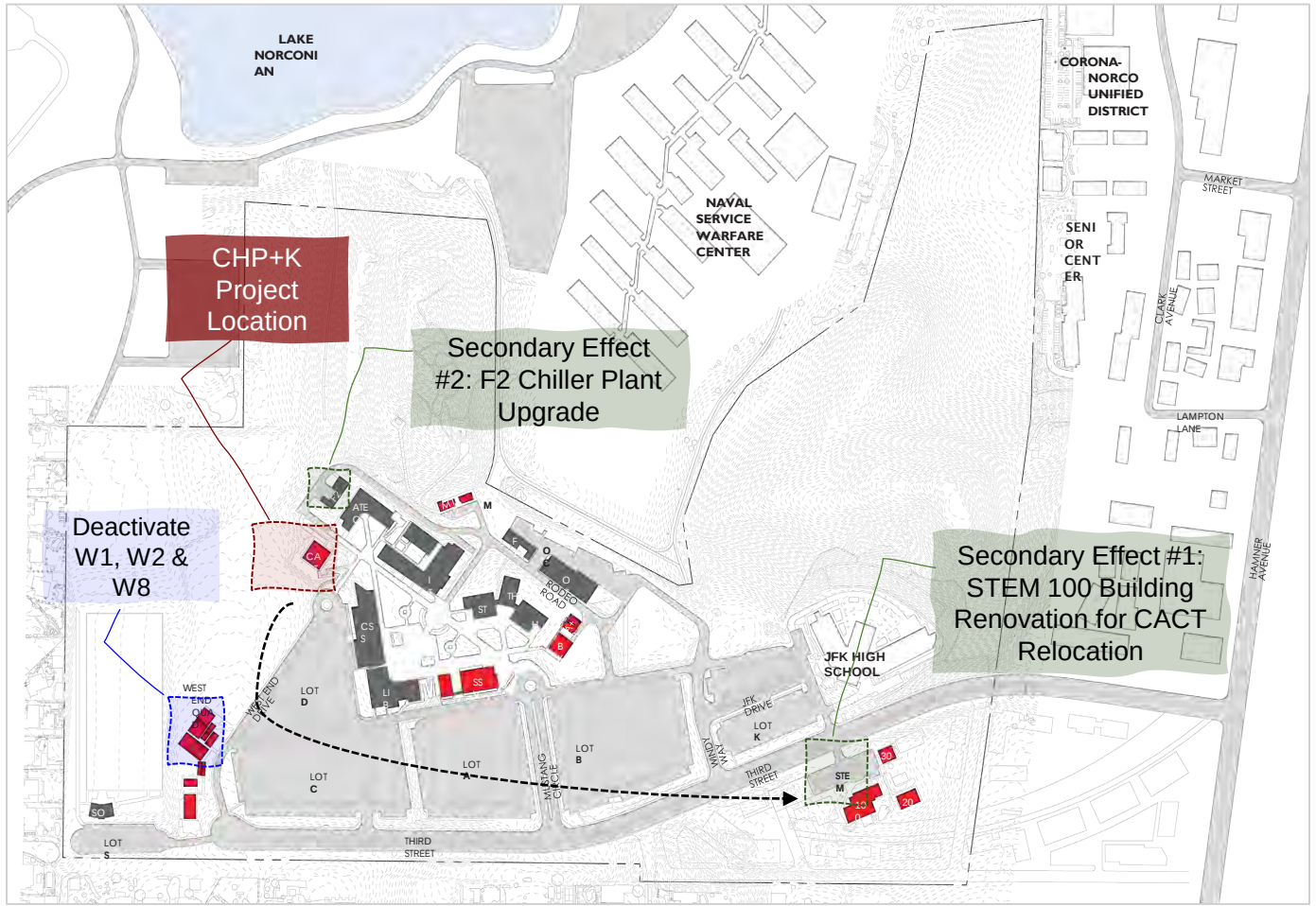
- Requires demolition of existing CACT (Center for Applied Competitive Technology) building
- CACT machine lab programs to be relocated to STEM 100

Secondary Effect #2 Project

- F2 Chiller Upgrade to support the new building

Note:

- Campus parking will not be impacted.
- Deactivate and demolish Multi-Purpose W1 & W2 and West End Quad W8
- Challenges: Coordination with STEM renovation and chiller upgrade; labor and equipment overlap with BESS.
- Campus interruptions: Utility work at West Quad; noise and dust near Athletics complex.
- Note: Chiller Plant Upgrade supports new facility – no major parking impact expected.



Center for Human Performance & Kinesiology (CHP+K)

- **Project Duration:** July 1, 2025 – June 30, 2027
- **Challenges:** Coordination with STEM renovation and chiller upgrade; labor and equipment overlap with BESS.
- **Campus interruptions:** Utility work at West Quad; noise and dust near Athletics complex.
- **Note:** Chiller Plant Upgrade supports new facility – no major parking impact expected.

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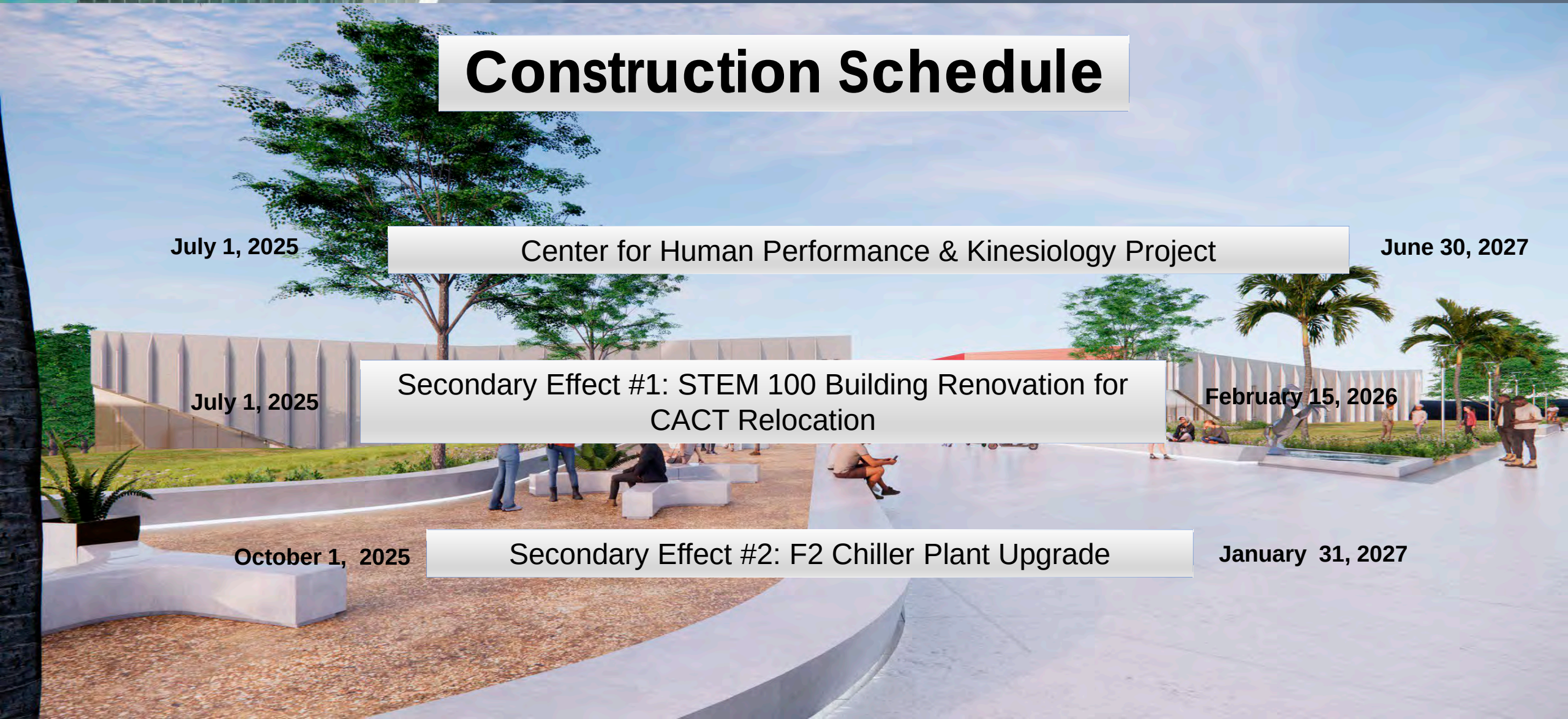
Construction Schedule



July 1, 2025	Center for Human Performance & Kinesiology Project	June 30, 2027
July 1, 2025	Secondary Effect #1: STEM 100 Building Renovation for CACT Relocation	February 15, 2026
October 1, 2025	Secondary Effect #2: F2 Chiller Plant Upgrade	January 31, 2027

RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT

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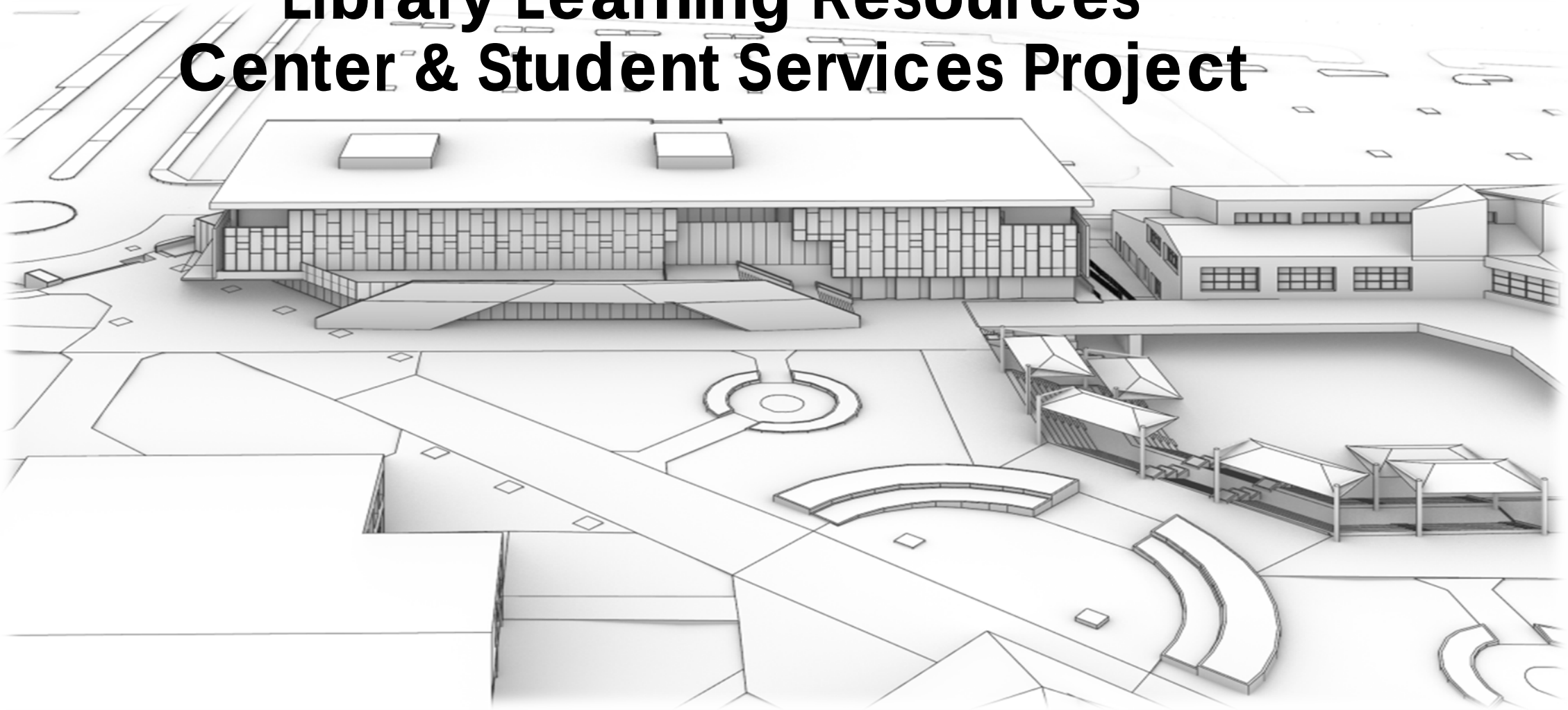
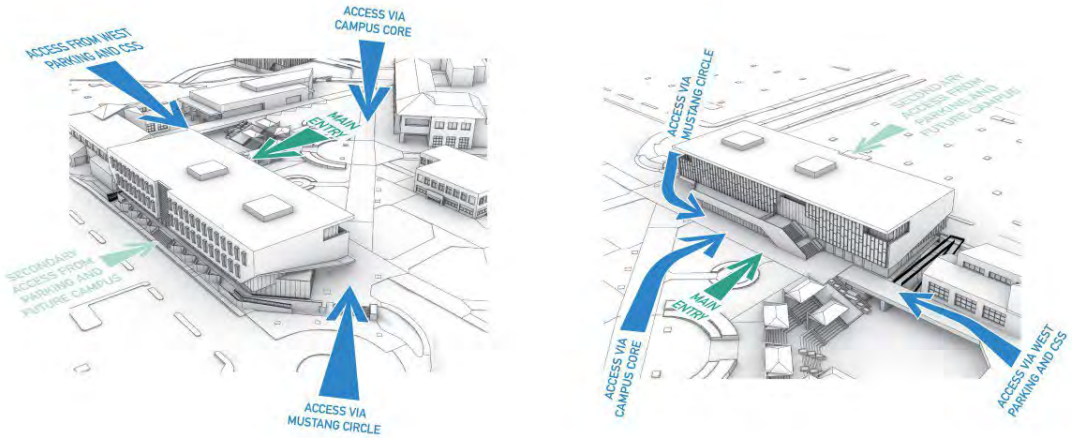
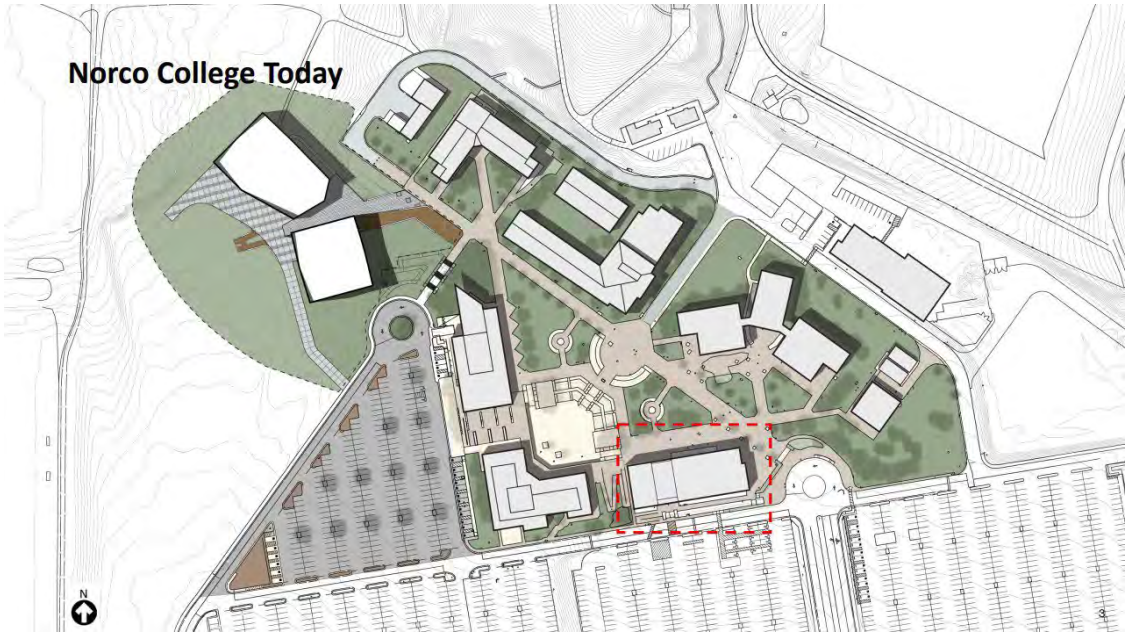
Norco College
Library Learning Resources Center & Student Services Project



Library Learning Resources Center & Student Services Project Visuals

Site Circulation





Educational Program & Guided Pathway Support

Current Status

- Library was built in **1995**
- Capacity Load Ratio is at **50%** in 2025-26 (space deficit)
- **Enrollment growth** hinders the **College's ability** to deliver library and learning services
- The library's **technology and infrastructure** are outdated and do not meet the needs of students and faculty

Solutions

- The new facility form the core area of **campus life** by consolidating programs housed in the SSV/CRC
- It will **expand and modernize** spaces, interdisciplinary computer labs, audio/visual media, offices, and student support services
- It will provide students with **upgraded resources** for information access, space for individual and group study, library services, faculty/student offices, and media services

LLRC & SSV Proposed Floor Plans

Floor Plans – Level 1: Option 01

Floor Plans – Level 1: Options 02

Floor Plans – Level 2

Floor Plans – Level 3

Site Location & Secondary Effects

LLRC Project

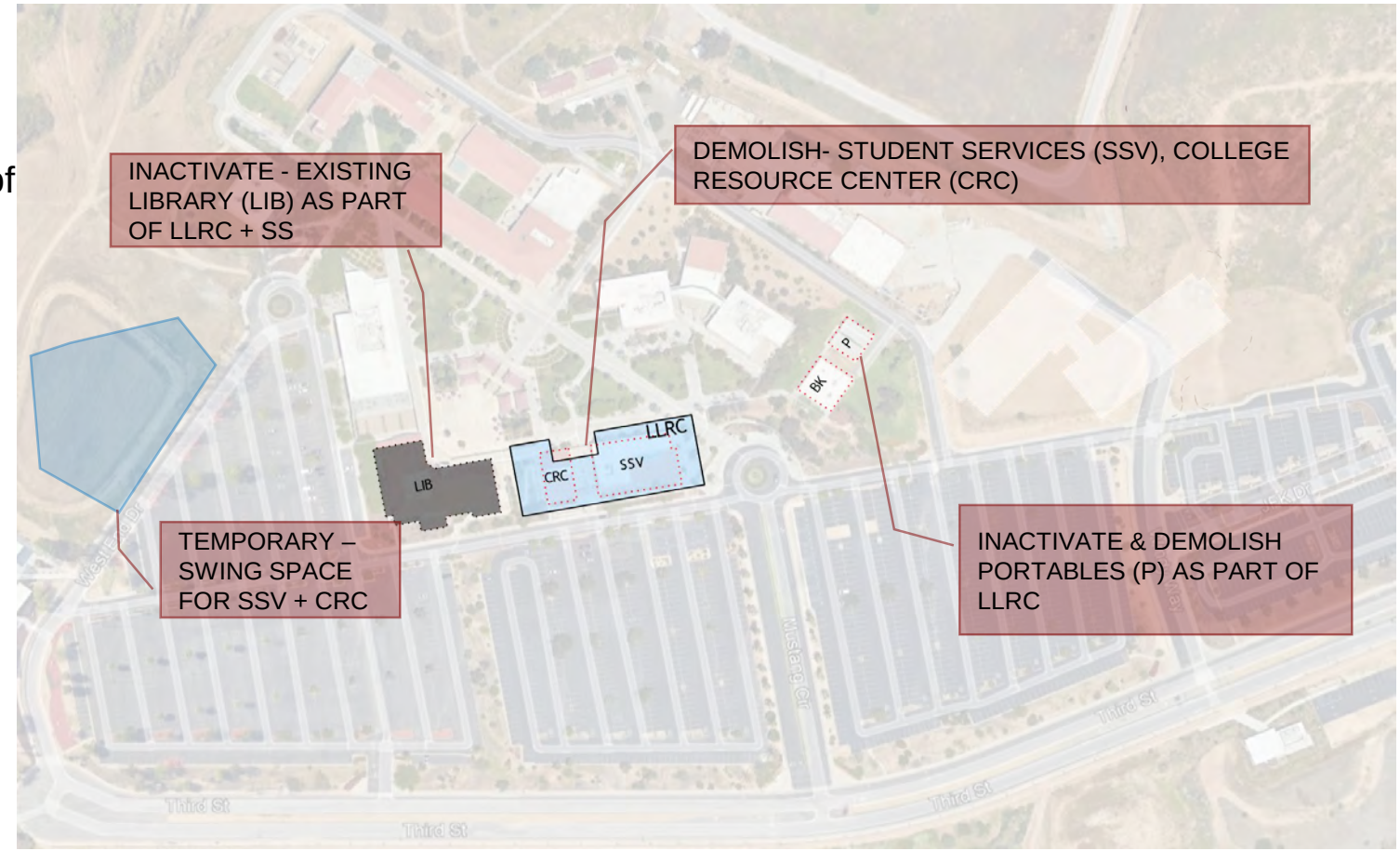
- Three-story building **71,739 GSF** (**46,252 ASF**)
- New LLRC + SS will be constructed on **footprint** of SSV/CRC
- **Demolish** Student Support Services, College Resource Center, and Portables A & B
- Old Library building **will be inactivated** when the new LLRC becomes operational

Secondary Effect Project

- Swing Space (Temporary Modulars) for SSV/CRC during construction

Future Project:

- Old Library renovation – **not** part of Measure CC



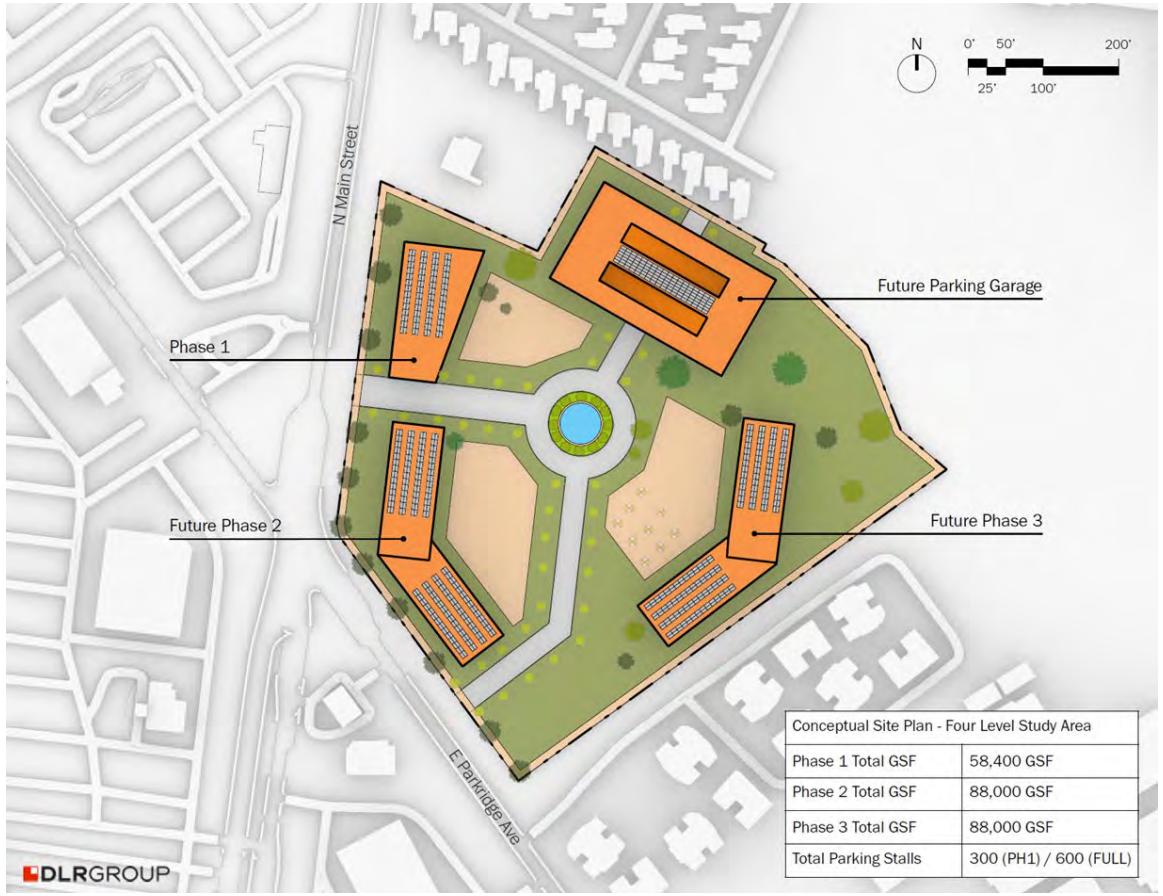
LLRC + Student Services Project – Challenges & Impacts

- **Challenges:** Swing space setup during demolition of CRC/SSV; infrastructure relocation complexity.
- **Campus interruptions:** Temporary relocation of Student Services; noise and traffic rerouting.
- **Completion Target:** 2027 (coordinated with STEM and CHP+K completion).
- **Future Opportunity:** Old Library renovation as part of long-term modernization phase.

LLRC+SS Project Schedule

Milestone	Due Date
Start Preliminary Plans (PP)	07/01/2025
Complete Preliminary Plan (PP)	12/31/2025
Start Working Drawings (WD)	03/01/2026
Complete Working Drawings (WD)	10/01/2026
DSA Final Approval	06/01/2027
Advertise Bid for Construction	07/15/2027
Award Construction Contract	11/01/2027
Advertise Bid for Equipment	01/01/2029
Complete Project and Notice of Completion	10/01/2029
Occupancy	**Fall 2029**

Corona Education Center



Conceptual Site Plan - Four Level Study Area	
Phase 1 Total GSF	58,400 GSF
Phase 2 Total GSF	88,000 GSF
Phase 3 Total GSF	88,000 GSF
Total Parking Stalls	300 (PH1) / 600 (FULL)

Corona Education Center Impacts

1) Planning & Approvals

•Permits and approvals timeline: Typical sequence—feasibility study, environmental review (e.g., CEQA/NEPA in the U.S.), schematic design, design development, construction documents, bidding, and construction. Expect 6–24+ months for approvals depending on jurisdiction and environmental considerations.
•Environmental impact: Assess noise, air quality, stormwater management, native habitat, and wetlands. Mitigation may affect site design and cost.
•Community engagement: Early outreach with neighbors, local businesses, and city/county officials can reduce opposition, streamline approvals, and identify concerns (traffic, safety, hours of operation).
•Funding and budgeting: Capital campaigns, state funding, bonds, and potential incentives for sustainable design or workforce development programs. Determine lifecycle costs vs. upfront costs.

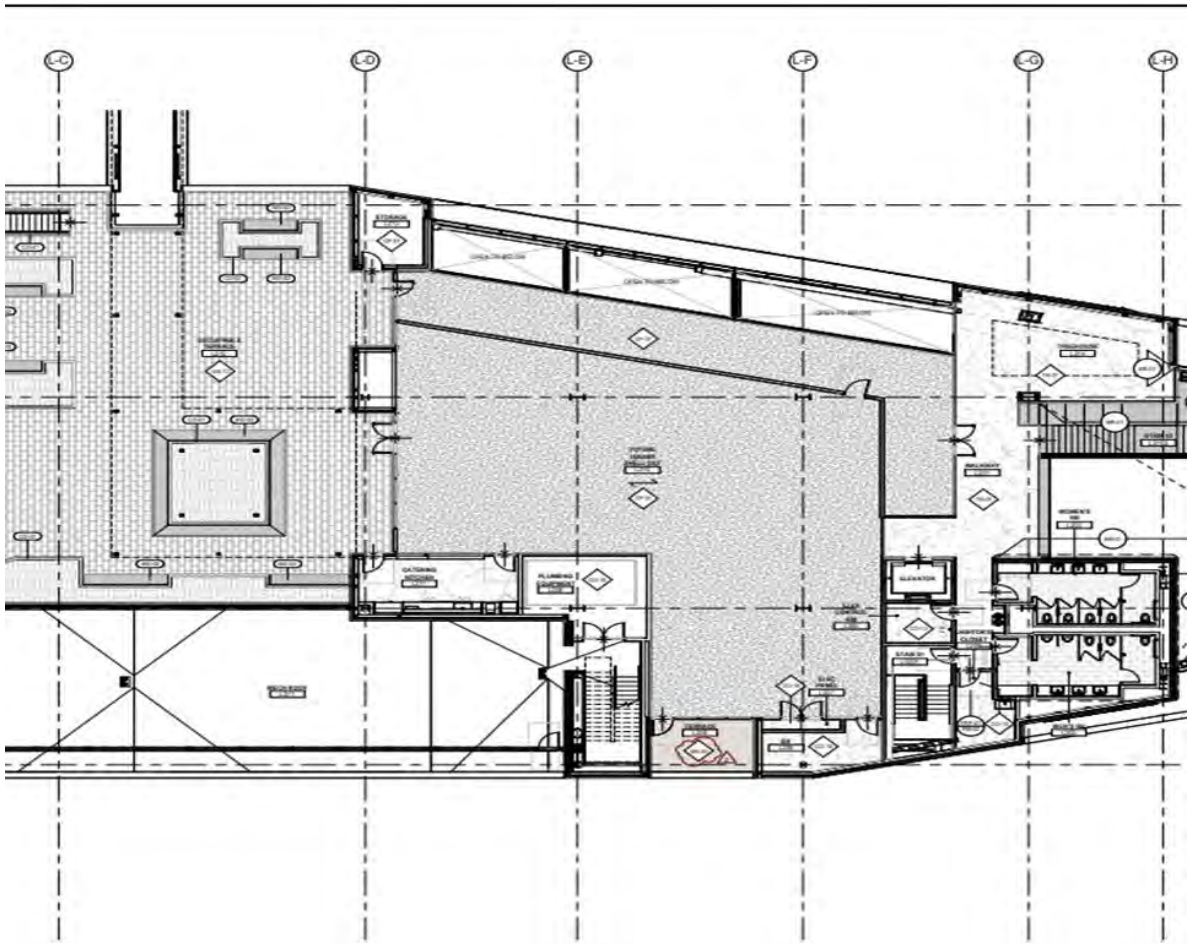
2) **Site and Design Considerations**

•Site selection advantages of an empty lot:
• Opportunity for modern, energy-efficient campus layout optimized for circulation, safety, and accessibility.
• Potential to incorporate sustainable design from the ground up (net-zero goals, solar canopies, rainwater harvesting).
• Flexibility for phased construction if budget or enrollment growth forecasts are uncertain.
•Accessibility and safety:
• Compliance with ADA, ADA, sightlines, lighting, and clear wayfinding.
• Safe, multi-modal access (pedestrian, bicycle, transit, and parking). Consider proximity to transit hubs to reduce car reliance.
•Campus integration:
• Plan for integration with adjacent facilities (parking structures, student housing if applicable, and crime prevention through environmental design).

Corona Education Center

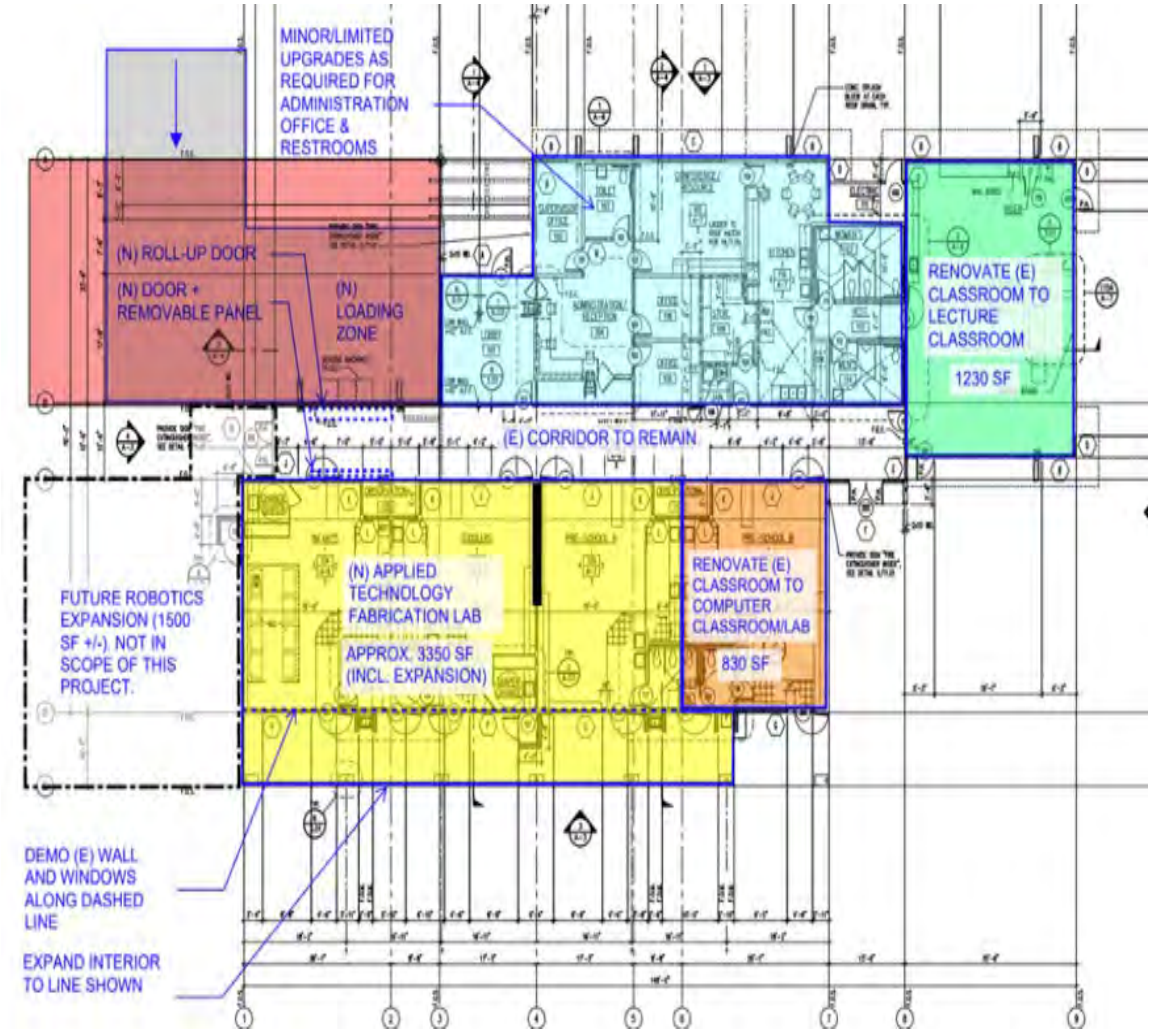
- 9.6-acre site that will serve as an extension of Norco College with a focus on Science and Allied Health Programs.
- Educational master planning, Vision and Strategic Plans (EMVSP) and development of the Infrastructure and Facilities Master Plan for the site.
- $135 million Corona Education Center (CEC) development will be funded by Measure CC.
- Project completion in 2030

Norco College@Eastvale



- Locating Norco College's Center for Entrepreneurship at the City of Eastvale Civic Center, Library and Innovation Center
- Serving the entrepreneur and small business needs of our service area
- Partnering with the City of Eastvale to connect and empower students to develop business plans, network, complete coursework, and serve as the hub for small business development within our service area.
- 5000 sq. feet of dedicated space on the second floor of the City's Library and Innovation Center.
- Estimated project completion 2028

STEM 100 Renovation Project



- The existing STEM Building 100 was constructed in 2004 as the Early Childhood Education Center.
- Throughout the years this building has been converted to a STEM Center use, utilizing the existing layout and systems from the original design, and by providing new offices spaces.
- The total building square footage is approximately 8,235 square feet.

STEM 100 Renovation (CACT Relocation)

- Start: July 10, 2025 | Phase 1 Completion: February 15, 2026 | Phase 2 Completion: August 30, 2026
- Phase 1 Completion: February 15, 2026 | Phase 2 Completion: August 30, 2026
- Challenges: Compressed construction window; coordination with equipment vendors; concurrent MEP work.
- Campus interruptions: Parking restrictions and power interruptions during switchgear installation.
- Key Milestones: Interior Demo → MEP Rough-In → Finishes → Switchgear Installation → Commissioning.

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Norco College Photovoltaic and Battery Energy Storage Project

Norco College Photovoltaic and Battery Energy Storage Project

- The project includes a 2.1-megawatt (MW) ground-mounted solar array covering approximately six acres on the hillside northeast of campus.
- A new alternating current (AC) station and 12-kilovolt (KV) underground transmission line will connect the solar array to a new 500-kilowatt battery energy storage system (BESS) and switchboard at the site of the existing fuel cell, which will be demolished.
- The new system will integrate with existing campus electrical infrastructure and support upcoming EV charging stations, enhancing energy reliability and efficiency.
- This project advances Norco College's commitment to sustainability, cost savings, and clean energy innovation.

EV, Solar & Battery Energy Storage System (BESS) Project

- **Challenges:** SCE design delays; underground utility relocation work; late interconnection approval.
- **Campus interruptions:** Utility trenching from Nov. 10 to Dec 12, 2025, near Operation Center; unavailable EV chargers for use due to delay in construction.

Schedule Summary:

- **Underground Work:** Nov. 17–Dec.12, 2025
- **SCE Connection Tentatively Scheduled for:** Nov. 24–30, 2025
- **Board Approval:** December 2025, for EVCS Parking and Use AP, and EV Provider Power Charge
- **Go-Live (Solar, BESS, EV):** January 26, 2026

Norco College Construction Schedule Overview

Construction Schedule (2025–2027)

- Center for Human Performance & Kinesiology (CHP+K): July 1, 2025 – June 30, 2027
- STEM 100 Building Renovation (CACT Relocation): July 1, 2025 – February 15, 2026
- F2 Chiller Plant Upgrade: October 1, 2025 – January 31, 2027

All projects are coordinated to minimize campus disruption and align with long-term modernization goals.

Space Planning Outlook (2026–2027)

- **Challenges:** Faculty office shortages, swing spaces for construction, limited classified workspace.
- **Opportunities:** Reconfigure existing underused spaces (Surveying Underway).
- **Faculty Offices:** ST 120, A 105, WEQ 2A (all vacant); a new portable building at STEM housing 12-offices to be online by Summer/Fall 2026. Potentially use one of the 12 offices as a swing office space and or for mental health.
- **Classified:** 2 open spaces in Student Life; 2 open positions in LRC; convert LIB 101 into flexible swing space.

2024-2025 GRANTS AND EXTERNAL RESOURCE DEVELOPMENT ACTIVITY REPORT
September 30 - 2024

NEW AWARDS

Funding Opportunity	Date Awarded	Total	Director, Manager or Principal Investigator	Title	Project Description	Start/End Dates	
NASA Community College Aerospace Scholars-NASA	10/30/2023	$25,000	Jessiah Ruiz	NASA	The NASA MUREP grant is driving this program and provides the funding to the University of California, San Diego (UCSD) and Norco College would be a suawardee. UCSD Disseminates this funding to the community colleges with an initial seed money of $25,000 to our campus for the first year and an additional $12,500 each additional year afterward. Our campus would be the 10th	Spring 2024-Spring 2025	
Finish Line Scholars 2024-2025	10/19/2023	$150,000	Dr. Maria Gonzalez Dr. Kaneesha Tarrant	Finish Line Scholars 2024-2025	The Finish Line Scholars supports scholarships and emergency financial aid. The scholarships are intended to help students go all-in to reach the finish line of their educational goal. Our grant request aligns with the college's 22022-2025 Student Equity Plan; our commitment is to dismantle institutional barriers and close	07/1/24-6/30/25	
College Corps	2/14/2024	$1,817,760	Dr. Ariel Davis	College Corps	College Corps implementation grants include funds to support program administration and living allowance for Fellows.	07/01/2024-06/30/2025	
Century Circle	2/7/2024	$5,000	Dr. Rad Khosrow & Farshid Mirzaei	Century Circle Program Information and Funding	Being an institution that places high value on the academic and personal success of students in and outside of the classroom and where meeting studetns' needs drivers all decisions regarding	07/01/24 - 06/30/25	
Century Circle	2/26/2024	$5,000	Damon Nance	Century Circle Program Information and Funding	We request the IT-84 Plus CE funding to continue supporting our students in achieving academic success. We ask $5,000 to purchase approximately 36 TI-84 Plus CE calculators. These efforts align with	07/01/24-06/30/25	
Everyday Entrepreneur Program (EE)	3/11/2024	$5,000	Adam Martin	Everyday Entrepreneur Program	Our application proposes that Norco College participate in the EE program to foster entrepreneurial spirit within our community, providing students, faculty, and local entrepreneurs with the	07/01/24-06/30/26	
K-16	4/1/2024	$1,000,000	Ashley Etchison	Pending	The proposed Inland Empire K-16 Regional Education Collaborative project will build upon Norco College's efforts to establish a 2+2+2 pathways in engineering from high school to community college to	07/01/24-06/30/26	
Catalyst Fund	4/15/2024	$10,000	Kimberly Thomas	MustangsEat	The proposed project will be requesting funds for basic needs and wellness. These areas include textbooks assistance, access to school supplies and equipment, transportaion resources, and wellness	07/01/24-06/30/25	
Department of Education-Title V Grant-Part A	6/13/2023	$3,000,000	Gustavo Oceguera Tenisha James RCCD Grants Office	Echale Ganas	The Federal Department of Education provides Title V grants to Hispanic Serving Institutions to implement any of the following allowable activities: innovative and customized instruction course development; articulation agreement and student support program	10/1/23-9/30/28	
Federal Department of Education-Upward Bound Math & Science	7/1/2023	$1,500,000	Miriam Carrillo Gustavo Oceguera		Norco College was awarded a five-year Upward Bound Math and Science Program for Norte Vista High School. The program is intended to provide fundamental support to 50+ participants in their preparation for college entrance in STEM majors. The program will provided opportunities for participants to	9/1/2023-8/30/28	
AI Grand Challenge Grant	9/10/2024	$ 239,051.35	Ashlee Johnson	AI Grand Challenge Grant "Sub to UCR"	The AI Grand Challenge grant supports education by leveraging AI for teaching and learning. This grant helps to address two equity gaps found within the Engineerning program: success and Retention for Hispanic Males.	01/01/2025 - 12/31/2027	
RCCD Private Foundation	10/26/2024	$5,000	Dr. Greg Ferrer, Dr. Brady Kerr, and Ms. Claudia Figueroa	DEI	Norco College seeks funding to support its Diversity, Equity, Inclusion, and Accessibility (DEIA) Committee, which advocates for individuals from diverse cultural, ethnic, and experiential backgrounds to enrich the campus community.	03/01/25-02/28/26	
Southern California Edison International	12/4/2024	$25,000	Dr. Doussett	Norco College's STEM Strong	With the support of this grant, we aim to adopt a more holistic approach to serving our STEM students by fostering collaboration across campus programs and enhancing professional development opportunities.	01/01/25-12/30/25	No Institutional Commitment
Foundation for California Community Colleges	1/15/2025	$10,000	Ashley Etchison	Community Connect 2025 "Vita"	Community Connect Grants 2025 Norco College. This grant is designed to promote CalEITC and YCTC and provide free tax preparation services.	02/01/2025 - 3/31/25	
RCCD Private Foundation	2/26/2025	$5,000	Dr. Hayley Ashby	Student Artwork	Funding was reqeustes to support the acquistion and preservation of student created artwroks for display in the library student rooms.	03/20/2025 - 03/19/2026	No Institutional Commitment
Total New Awards		**$7,801,811**					

PENDING SUBMISSIONS

Funding Opportunity	Date Submitted	Total	Proposal Development Leads	Title	Project Description	Start-End Dates
Firehouse	Pending	$20,000	Justin	Pending	Pending	10/01/25 - 04/01/26
NSF: Growing Research Access for Nationally Transformative Equity and Diversity (GRANTED)	Pending	$3,000,000	Dr. James	Pending	Improve data literacy at Norco College through training related to data governance and coaching to advance the research agenda.	01/01/26-12/31/31
Total Pending		**$3,020,000**				

APPLICATIONS IN PROGRESS 07/01/2024 - 03/20/2025

Funding Opportunity	Due Date	Maximum Award	Proposal Development Lead(s)	Title	Project Description and Notes	Start-End Dates	
Department of Education	7/15/2024	$ 1,430,545.00	Ms. Hortencia Cuevas	DOE SSS Traditional Grant (Prime) "Funded"	Norco College proposes to offer services to 180 students through its Student Support Services Program (SSSP). The program's primary focus is to provide guiance and wrap-around support services to first-time college students and address any obstacles preventing	08/01/2025-09/30/2030	1,430,545
Department of Education	7/15/2024	$ 1,361,820.00	Ms. Hortencia Cuevas	DOE SSS STEM Grant (Prime) "Funded"	Norco College proposes to offer services to 120 students through its Student Support Services Program (SSSP). The program's primary focus is to provide guiance and wrap-around support services to first-time college students and address any obstacles preventing	08/01/2025-09/30/2030	1361820

Department of Education	7/15/2024	$ 1,361,820.00	Dean Sonia Gonzalez	DOE SSS Veteran's Grant (Prime) Not funded	Norco College proposes to offer services to 120 students through its Student Support Services Program (SSSP). The program's primary focus is to provide guiance and wrap-around support services to first-time college students and address any obstacles preventing	08/01/2025-09/30/2030	2792365
Department of Education	7/15/2024	$ 1,361,820.00	Ms. Hortencia Cuevas	DOE SSS Disable Grant (Prime) Not funded	Norco College proposes to offer services to 120 students through its Student Support Services Program (SSSP). The program's primary focus is to provide guiance and wrap-around support services to first-time college students and address any obstacles preventing	08/01/2025-09/30/2030	
Department of Education	8/5/2024	$ 948,994.00	Dr. Tarrant, Dean Rosio Becerra & Kimberly Thomas	Norco College's Basic Needs Project (Prime) Not funded	Norco College will address the basic needs of its students and improve student success, meaning advances in retention, graduation, and transfer. Using community resources and businesses to achieve enhanced support stimulates the local	01/01/2025-12/31/2027	
AI Grand Challenge Grant	9/10/2024	$ 239,051.35	Ashlee Johnson	AI Grand Challenge Grant "Sub to UCR" Funded	The AI Grand Challenge grant supports education by leveraging AI for teaching and learning. This grant helps to address two equity gaps found within the Engineering program: success and Retention for Hispanic Males.	01/01/2025 - 12/31/2027	No Institutional Commitment
AI Grand Challenge Grant	9/10/2024	$ 47,520.00	Caroline Hutchings	AI Grand Challenge Grant "Sub to Berkely" Not Funded	Our application proposes to use AI to help close equity gaps in STEM courses at Norco College by providing resources to aid student learning during and after lectures. AI tools will be utilized to fill the need for online student tutor services. AI will also be used to increase AI inside and outside of the classroom to improve students' experiences and increase their success	01/01/2025-03/31/2028	
Veterans Mental Health Demonstration	9/20/2024	$150,000	Dean Sonia Gonzalez	Veteran's Mental Health Demonstration Not Funded	Funding has been requested to support activities to inform student veterans of available services. Services include 1) outreach activities to inform student veterans of available services; 2) workshops and wellness groups to help student veterans learn essential skills to manage their mental wellness, as well as specialty workshops as requested; 3) direct clinical services, including individual and group	07/01/2025-06/30/2029	
National Science Foundation-Advanced Technological Education (ATE)	10/3/2024	$ 1,000,000.00	Ashley Etchison Juan Gonzalez	Prime Not Funded	The primary goal of the NSF grant is to reestablish the Accelerated Career Education (ACE) Program. The main goal of ACE is to increase the number of students and incumbent workers entering and	7/1/25-6/30/29	
NSF: Racial Equity in STEM Education: NSF 22-634 (Collaborator with Cal State Fullerton)	10/8/2024	$1,150,984	Ashley Johnson	Racial Equity in STEM Not Funded	These gaps in the literature and in practice suggest that there is an opportunity to identify unique motivation and identity profiles for Black and Latinx students to inform the development of Culturally-Responsive Motivational Climates, which are inclusive settings	07/01/24-06/30/29	
RCCD Private Foundation	10/26/2024	$5,000	Dr. Greg Ferrer, Dr. Brady Kerr, and Ms. Claudia Figueroa	DEI Funded	Norco College seeks funding to support its Diversity, Equity, Inclusion, and Accessibility (DEIA) Committee, which advocates for individuals from diverse cultural, ethnic, and experiential backgrounds to enrich the campus community	03/01/25-02/28/26	No Institutional Commitment
California Community Colleges Not Funded	12/20/2024	$180,000	Dean Daniela McCarson	Foster Youth College Access Demonstration Project Not funded	Our goal is to ensure foster youth receive wraparound support via the professional staff, peer mentors, Basic Needs and Wellness, and community partners to address a variety of needs among our foster youth.	01/01/25-12/30/27	
Southern California Edison International	12/4/2024	$25,000	Dr. Doussett	Norco College's STEM Strong Funded	With the support of this grant, we aim to adopt a more holistic approach to serving our STEM students by fostering collaboration across campus programs and enhancing professional development opportunities	01/01/25-12/30/25	No Institutional Commitment
Foundation for California Community Colleges	1/15/2025	$10,000	Ashley Etchison	Community Connect 2025 "Vita" Funded	Community Connect Grants 2025 Norco College. This grant is designed to promote CalEITC and YCTC and provide free tax preparation services.	02/01/2025 - 3/31/25	
RCCD Private Foundation	2/26/2025	$5,000	Dr. Hayley Ashby	Student Artwork Funded	Funding was reqeustes to support the acquistion and preservation of student created artwroks for display in the library student rooms.	03/20/2025 - 03/19/2026	No Institutional Commitment
California Community Colleges	2/28/2025	912765/675,918	Dean Kylie Campbell	Rising Scholars Funded	Our application proposes to increase associate degree completions, support transitions to baccalaureate programs, and expand career technical education pathways for students at the California Rehabilitation Center and on campus	07/01/25 - 06/30/28	
RCCD Private Foundation	2/28/2025	$5,000	Caroline Hutchings	STEM Student Conference Funded	To further enhance student learning and career readiness, Norco College seeks funding to expand opportunities for our students to attend the Red Rock Student Data Science Conference in Utah. This conference is designed for our students to access advanced	03/20/25-03/19/25	
National Science Foundation-STEM Scholarships	3/4/2025	$2,000,000	Caroline Hutchings, Bibiana Lopez, and Svetlana Borissova	S-STEM Mentoring Students Through Gateway Courses (S-STEM MSGC) (Not Funded)	NC will provide evidence-based intervetions and support services to augment low-income student retention rates and academic performance.	01/01/26-12/31/30	
RCCD Private Foundation	Pending	$5,000	Dr. Tammara Cummings	Debunking Girl Math (Funded)	Create a Podcast for students to better understand the concept in Economics.	10/01/25-09/30/26	

9 Federal Grants (2 funded, 7 not funded, 0 pending)	**Requested: $10,765,983** Not Funded: $7,973,618 Pending: $0.00 **Awarded: $2,792,365**
4 State Grants (2 funded, 2 not funded, 0 pending)	**Requested: $1,379,336** Not funded: $227,520.00 Pending: $0.00 **Awarded: $1,151,816.35**
5 Non-Profit (5 funded)	**Requested: $55,000** **Awarded: 55,000** Not Funded: $0.00 Pending: $0,000
Total Requested in Grants	**$12,200,319**
Total Funded	**$3,999,181,35**

2030 Educational Master Plan Goals

Goal 1: (Access) Expand college access by doubling current headcount and FTES

Goal 2: (Success) Implement Guided Pathways

Goal 3: (Equity) Close all student equity gaps

Goal 4: (Professional Development) Implement Professional Development around Guided Pathways and equity framework; foster a culture of ongoing improvement

Goal 5: (Workforce and Economic Development) Reduce working poverty and the skills gap

Goal 6: (Community Partnerships) Pursue, develop and sustain collaborative partnerships

Goal 7: (Programs) Become the regional college of choice by offering a comprehensive range of programs that prepare students for the future and meet employer workforce needs

Goal 8: (Effectiveness, Planning and Governance) Develop institutional effectiveness and integrated planning systems and governance structures to support ongoing development and continuous improvement as we become a comprehensive college

Goal 9: (Workplace) Expand workforce to support comprehensive college and develop/sustain an excellent workplace culture

Goal 10: (Facilities) Build a comprehensive and inspiring campus integrated into the region that serves as a destination for education, commerce, life and the arts

Goal 11: (Operations) Implement professional, intuitive, and technology-enhanced systems

Goal 12: (Resources) Develop innovative and diversified resources to build and sustain a comprehensive college and achieve its visionary goals

IN PROGRESS

Funding Entity	Sponsor	PI	Estimated Award Amount/Length of Project	Description	Due Date
College Futures	Unlocking Economic Mobility for Adult Learners Initiative	Ashley Etchison & Kylie Campbell (Collaboration with Corona School	$500K	Letter of Intent	10/24/2025
College Corps		Dr. Ariel Davis	$1.8+/ 3 years	Letter of Intent (Full proposal 11/24/25)	11/20/2025
RCCD Foundation	Century Grant	Rosio Bacerra	1000/ 12 months	Mustang Costume	11/1/2025
Foundation CCC	Finish Line Scholars Program	Anthony Puccio	$150K/12 months	Student Scholarships	12/5/2025
National Science Foundation	Center for Undergraduate Research Mathematics	Caroline Hutchings	7000/6 months	Subaward "Faculty Stipends"	12/6/2025
FIPSE: Fund for the Improvement of Postsecondary Education-Special Projects	Department of Education	Caroline Hutchings	1000000/4 years	AI	12/3/2025
Improving Undergradute STEM Education	National Science Foundation	Kevin	600000/4years	Dual Enrollment, professional Development	12/10/2025
Firehouse		Justin Czerniak	20000/six months	Emergency Food	1/8/2026

APPLICATIONS IN PROGRESS 07/01/2025 - 11/20/2025

Funding Opportunity	Due Date	Maximum Award	Proposal Development Lead(s)	Title	Project Description and Notes	Start-End Dates
Department of Education (Federal)	7/3/2025	$1,285,000	Sandra Popident	BOOST-Building Opportunities for Online Student Transformation (Not-Funded)	The goal of the Building Opportunities for Online Student Transformation is to develop a sustainable infrastructure for online teaching and learning that ensures students have access to high-quality insturctional programming that leads to degree/certificate attainment, entry into workforce, and/or transfer to baccalaureate programming	07/01/26-06/30/31
National Association for Community College (State)	8/1/2025	$20,000	Adam Martin	Everyday Entrepreneur Program	Moving into Level II, the college plans to create a sustainable entrepreneurial ecosystem with mentorship, expanded curriculum, and stronger ties to local businesses and organizations. These efforts aim to scale access, support underserved students, and position Norco College as a hub for inclusive innovation in the Inland Empire	01/01/2026-12/31/2026
Foundation for California Community Colleges (Private)	9/5/2025	$20,000	Ashley Etchison	VITA (Not-Funded)	Norco College has been able to expand our free tax services year over year though volunteers. Last year, through the grant, we were able to bring on additioanl faculty allowing the center to increase hours and serve more students and community members. We would like to further increase our	01/01/26 - 06/30/26
Golden State Opportunity (Private)	9/5/2025	$20,000	Ashley Etchison	VITA (Funded)	Norco College has been able to expand our free tax services year over year though volunteers. Last year, through the grant, we were able to bring on additioanl faculty allowing the center to increase hours and serve more students and community members. We would like to further increase our	01/01/26 - 06/30/27
RCCD Foundation	10/1/2025	$5,000	Hortencia Cuevas and Dallas	MLK Day of Service 2026	This year MLK Day of services will continue to align with the district's values, specifically Heritage and Collegiality. Norco College's MLK Day of services is rooted in providing service to our local communities, through campus and commuity collaboration.	01/01/2026 - 03/30/2026
Chabot Las Positas Community College District Agreement (State)	11/1/2025	$14,395	Amy Blandford	Mentorship	Student Mentorship	12/1/2025
1 Federal Grants (funded, not funded, 0 pending)			Requested: $1,285,000 Not Funded: $1,285,000 Pending: $0.00 Awarded: $0			
2 State Grants (1 funded, not funded, 0 pending)			Requested: $34,395.00 Not funded: $0 Pending: $20,000 Awarded: $14,395.00			
Non-Profit (funded)			Requested: $45,000 Awarded: 0 Not Funded: $0.00 Pending: $0,000			
Total Requested in Grants			**$1,364,396**			
Total Funded			**$34,395**			

(1:1 matching) Level 2

2030 Educational Master Plan Goals

Goal 1: (Access) Expand college access by doubling current headcount and FTES

Goal 2: (Success) Implement Guided Pathways

Goal 3: (Equity) Close all student equity gaps

Goal 4: (Professional Development) Implement Professional Development around Guided Pathways and equity framework; foster a culture of ongoing improvement

Goal 5: (Workforce and Economic Development) Reduce working poverty and the skills gap

Goal 6: (Community Partnerships) Pursue, develop and sustain collaborative partnerships

Goal 7: (Programs) Become the regional college of choice by offering a comprehensive range of programs that prepare students for the future and meet employer workforce needs

Goal 8: (Effectiveness, Planning and Governance) Develop institutional effectiveness and integrated planning systems and governance structures to support ongoing development and continuous improvement as we become a comprehensive college

Goal 9: (Workplace) Expand workforce to support comprehensive college and develop/sustain an excellent workplace culture

Goal 10: (Facilities) Build a comprehensive and inspiring campus integrated into the region that serves as a destination for education, commerce, life and the arts

Goal 11: (Operations) Implement professional, intuitive, and technology-enhanced systems

Goal 12: (Resources) Develop innovative and diversified resources to build and sustain a comprehensive college and achieve its visionary goals

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Norco College
Center for Human Performance & Kinesiology Project

Site Location & Secondary Effects

CHP+K Project

- Two-story building 56,284 GSF (38,791 ASF); 69% efficiency

Secondary Effect #1 Project

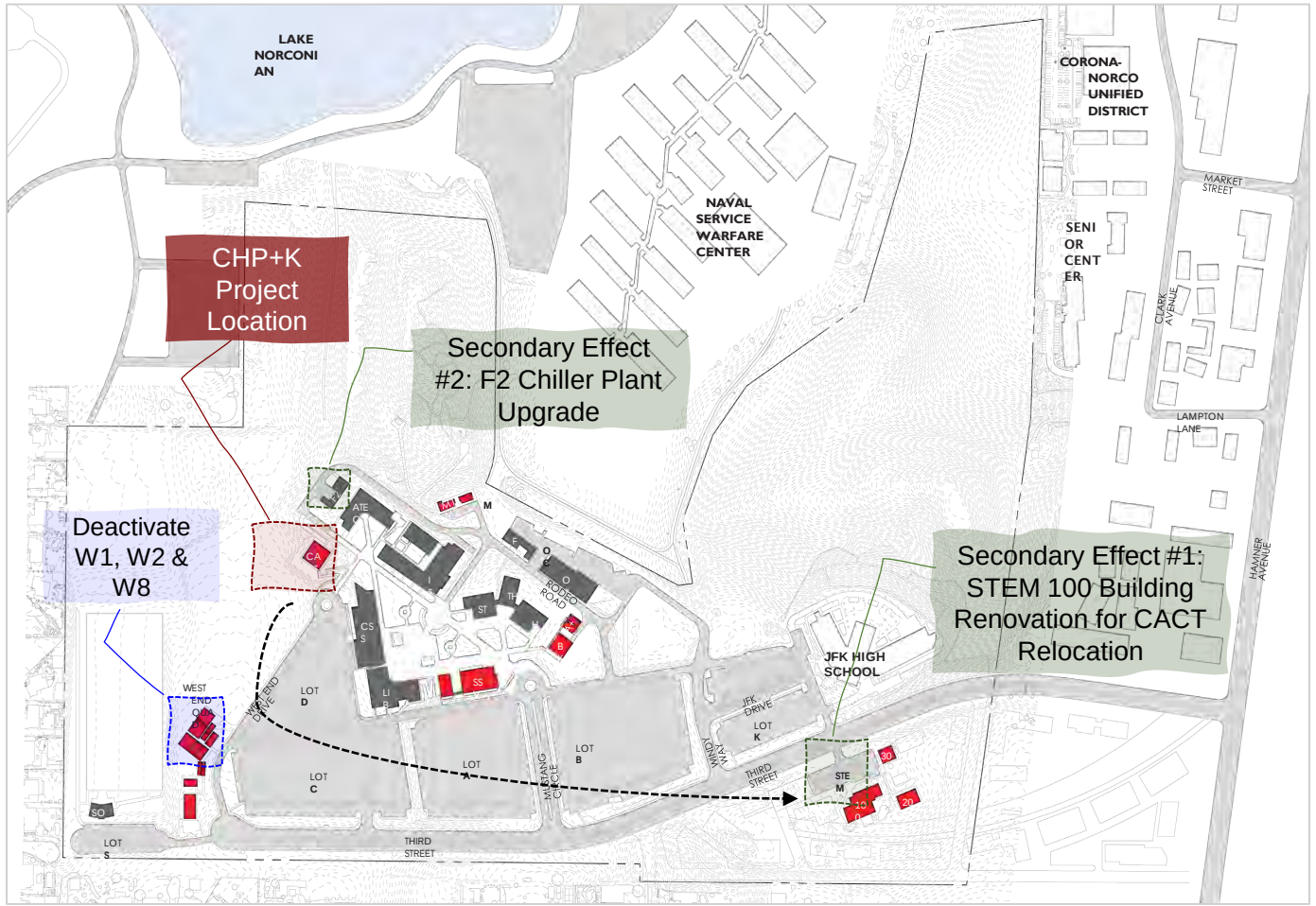
- Requires demolition of existing CACT (Center for Applied Competitive Technology) building
- CACT machine lab programs to be relocated to STEM 100

Secondary Effect #2 Project

- F2 Chiller Upgrade to support the new building

Note:

- Campus parking will not be impacted.
- Deactivate and demolish Multi-Purpose W1 & W2 and West End Quad W8
- Challenges: Coordination with STEM renovation and chiller upgrade; labor and equipment overlap with BESS.
- Campus interruptions: Utility work at West Quad; noise and dust near Athletics complex.
- Note: Chiller Plant Upgrade supports new facility – no major parking impact expected.



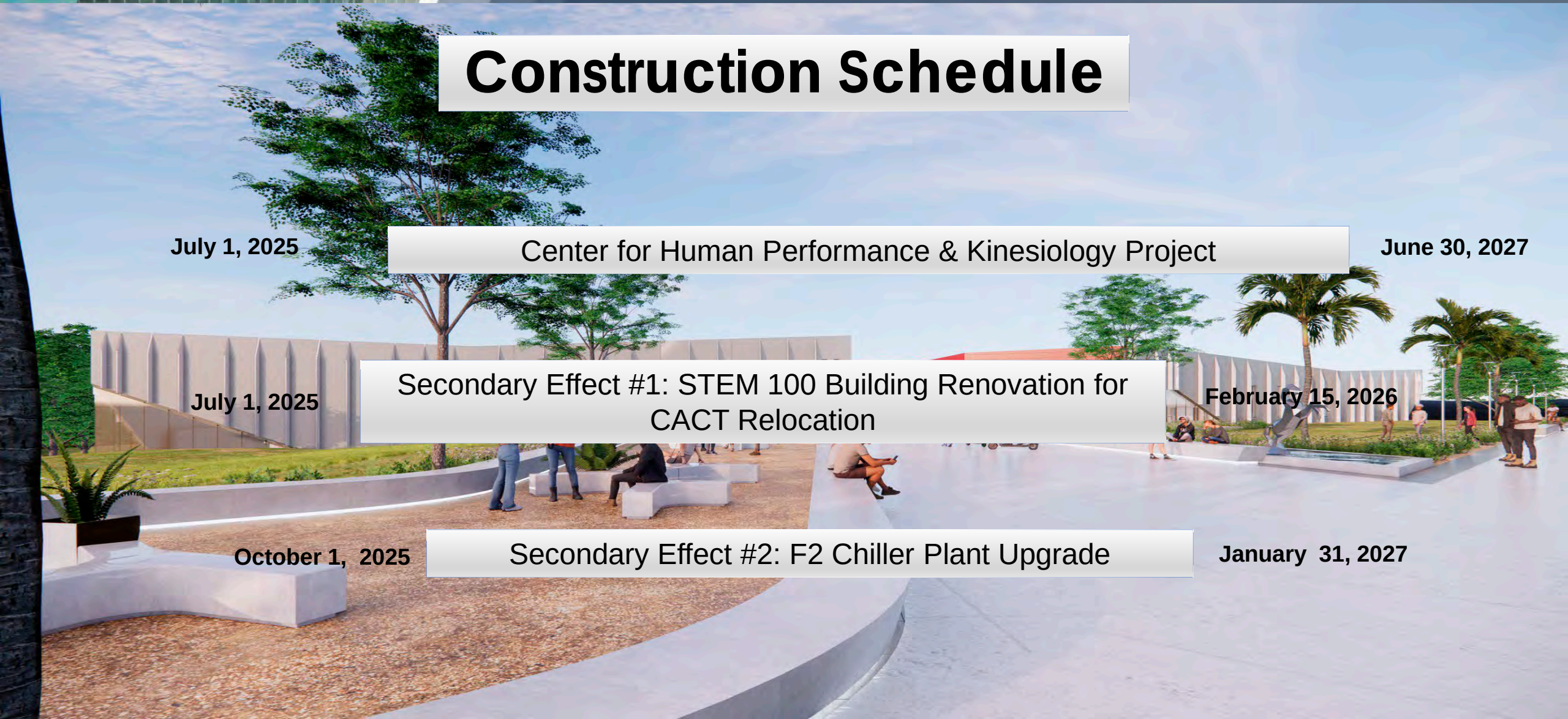
Center for Human Performance & Kinesiology (CHP+K)

- **Project Duration:** July 1, 2025 – June 30, 2027
- **Challenges:** Coordination with STEM renovation and chiller upgrade; labor and equipment overlap with BESS.
- **Campus interruptions:** Utility work at West Quad; noise and dust near Athletics complex.
- **Note:** Chiller Plant Upgrade supports new facility – no major parking impact expected.

RCCD | RIVERSIDE COMMUNITY COLLEGE DISTRICT

MORENO VALLEY COLLEGE | NORCO COLLEGE | RIVERSIDE CITY COLLEGE

Construction Schedule



July 1, 2025	Center for Human Performance & Kinesiology Project	June 30, 2027
July 1, 2025	Secondary Effect #1: STEM 100 Building Renovation for CACT Relocation	February 15, 2026
October 1, 2025	Secondary Effect #2: F2 Chiller Plant Upgrade	January 31, 2027

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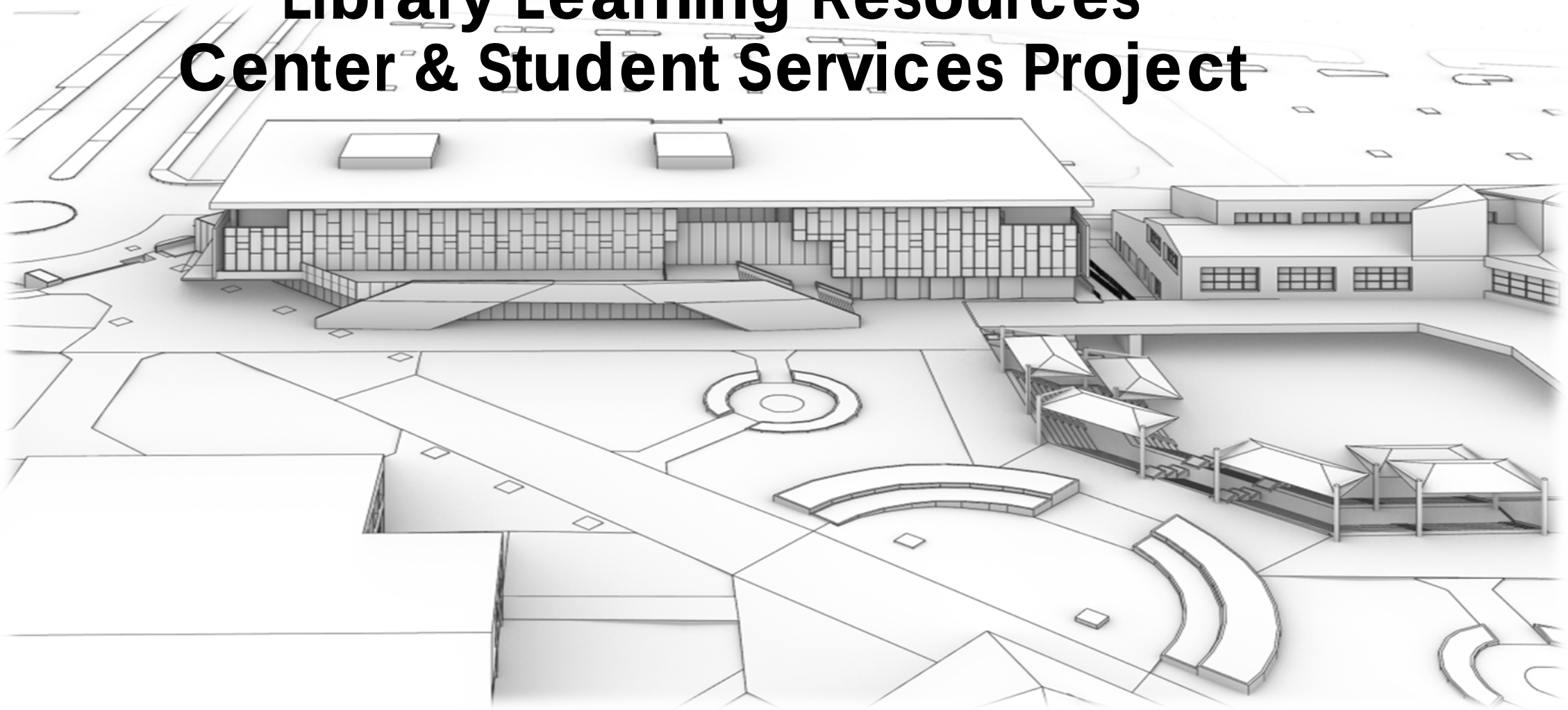
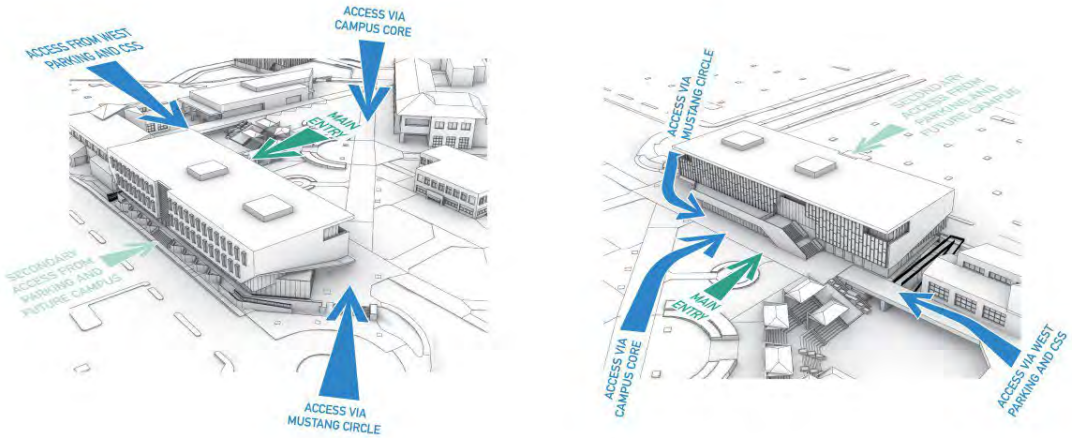
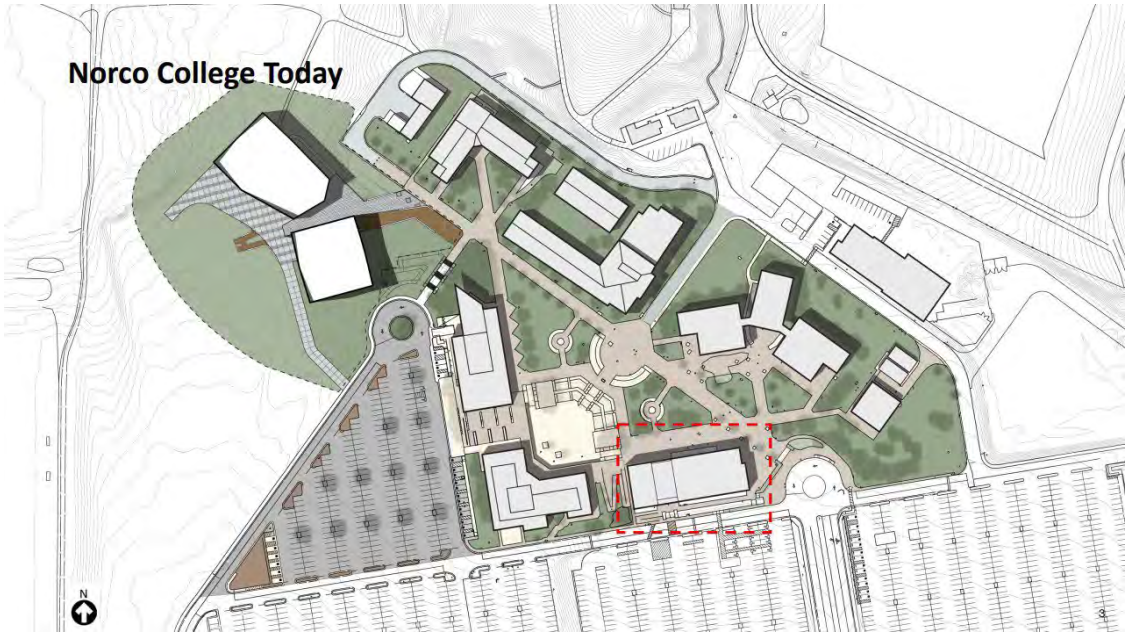
Norco College
Library Learning Resources Center & Student Services Project



Library Learning Resources Center & Student Services Project Visuals

Site Circulation





Educational Program & Guided Pathway Support

Current Status

- Library was built in **1995**
- Capacity Load Ratio is at **50%** in 2025-26 (space deficit)
- **Enrollment growth** hinders the **College's ability** to deliver library and learning services
- The library's **technology and infrastructure** are outdated and do not meet the needs of students and faculty

Solutions

- The new facility form the core area of **campus life** by consolidating programs housed in the SSV/CRC
- It will **expand and modernize** spaces, interdisciplinary computer labs, audio/visual media, offices, and student support services
- It will provide students with **upgraded resources** for information access, space for individual and group study, library services, faculty/student offices, and media services

LLRC & SSV Proposed Floor Plans

Floor Plans – Level 1: Option 01

Floor Plans – Level 1: Options 02

Floor Plans – Level 2

Floor Plans – Level 3

Site Location & Secondary Effects

LLRC Project

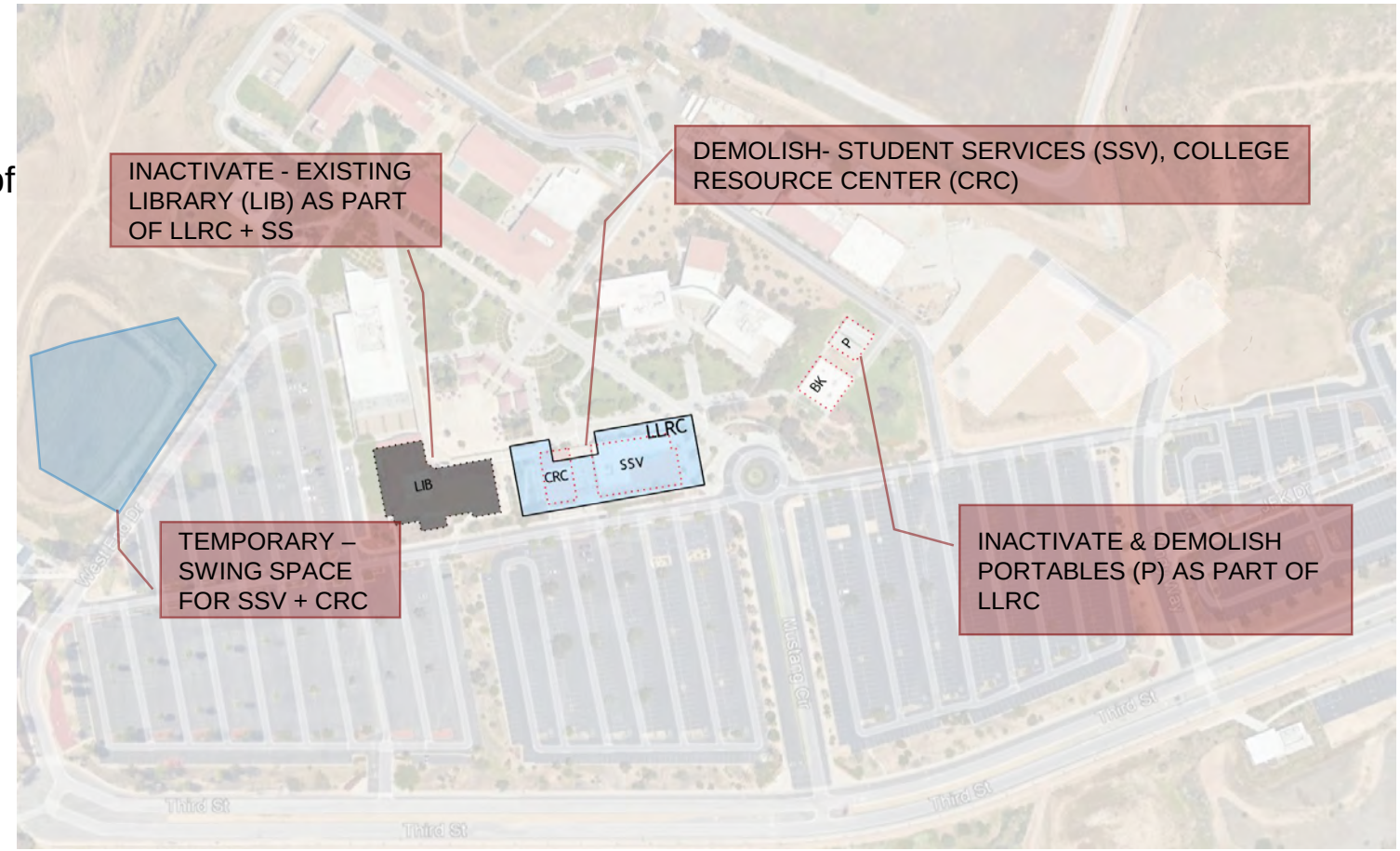
- Three-story building **71,739 GSF** (**46,252 ASF**)
- New LLRC + SS will be constructed on **footprint** of SSV/CRC
- **Demolish** Student Support Services, College Resource Center, and Portables A & B
- Old Library building **will be inactivated** when the new LLRC becomes operational

Secondary Effect Project

- Swing Space (Temporary Modulars) for SSV/CRC during construction

Future Project:

- Old Library renovation – **not** part of Measure CC



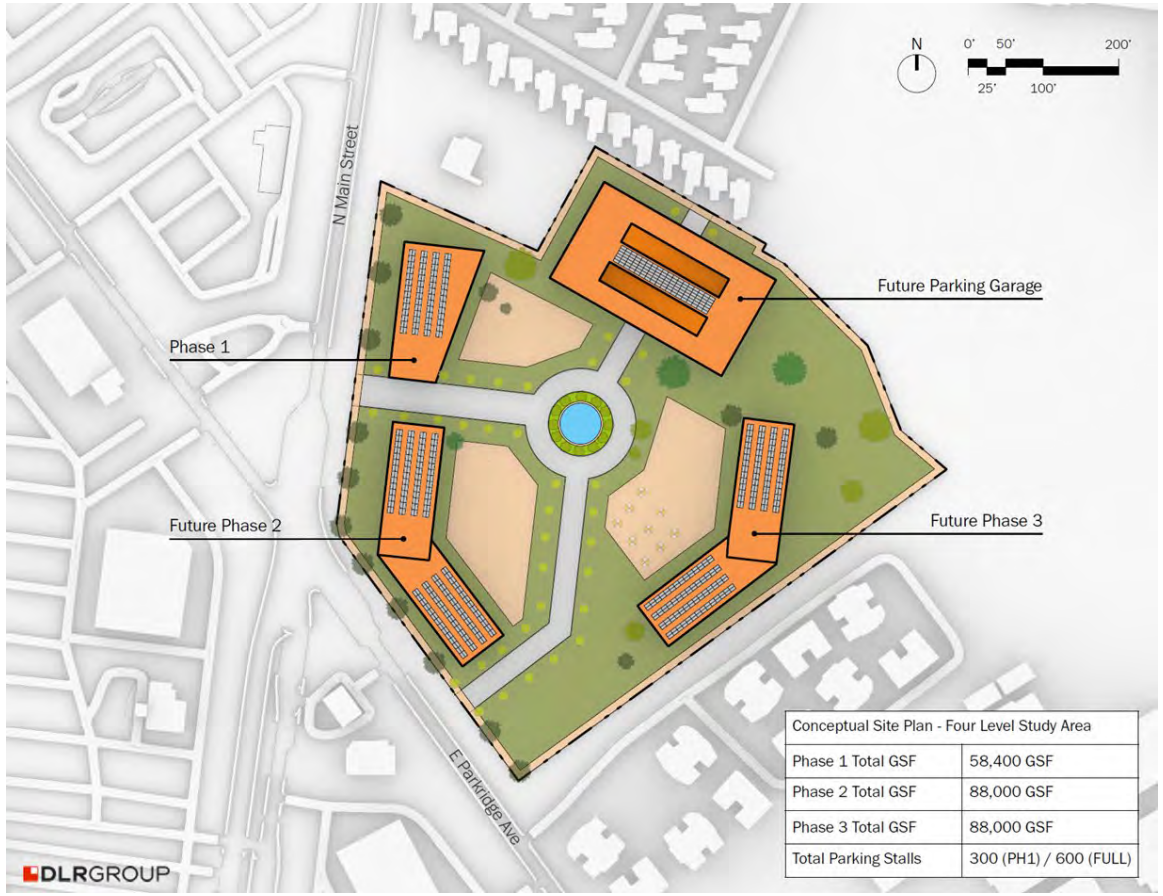
LLRC + Student Services Project – Challenges & Impacts

- **Challenges:** Swing space setup during demolition of CRC/SSV; infrastructure relocation complexity.
- **Campus interruptions:** Temporary relocation of Student Services; noise and traffic rerouting.
- **Completion Target:** 2027 (coordinated with STEM and CHP+K completion).
- **Future Opportunity:** Old Library renovation as part of long-term modernization phase.

LLRC+SS Project Schedule

Milestone	Due Date
Start Preliminary Plans (PP)	07/01/2025
Complete Preliminary Plan (PP)	12/31/2025
Start Working Drawings (WD)	03/01/2026
Complete Working Drawings (WD)	10/01/2026
DSA Final Approval	06/01/2027
Advertise Bid for Construction	07/15/2027
Award Construction Contract	11/01/2027
Advertise Bid for Equipment	01/01/2029
Complete Project and Notice of Completion	10/01/2029
Occupancy	**Fall 2029**

Corona Education Center



Conceptual Site Plan - Four Level Study Area	
Phase 1 Total GSF	58,400 GSF
Phase 2 Total GSF	88,000 GSF
Phase 3 Total GSF	88,000 GSF
Total Parking Stalls	300 (PH1) / 600 (FULL)

Corona Education Center Impacts

1) Planning & Approvals

•Permits and approvals timeline: Typical sequence—feasibility study, environmental review (e.g., CEQA/NEPA in the U.S.), schematic design, design development, construction documents, bidding, and construction. Expect 6–24+ months for approvals depending on jurisdiction and environmental considerations.
•Environmental impact: Assess noise, air quality, stormwater management, native habitat, and wetlands. Mitigation may affect site design and cost.
•Community engagement: Early outreach with neighbors, local businesses, and city/county officials can reduce opposition, streamline approvals, and identify concerns (traffic, safety, hours of operation).
•Funding and budgeting: Capital campaigns, state funding, bonds, and potential incentives for sustainable design or workforce development programs. Determine lifecycle costs vs. upfront costs.

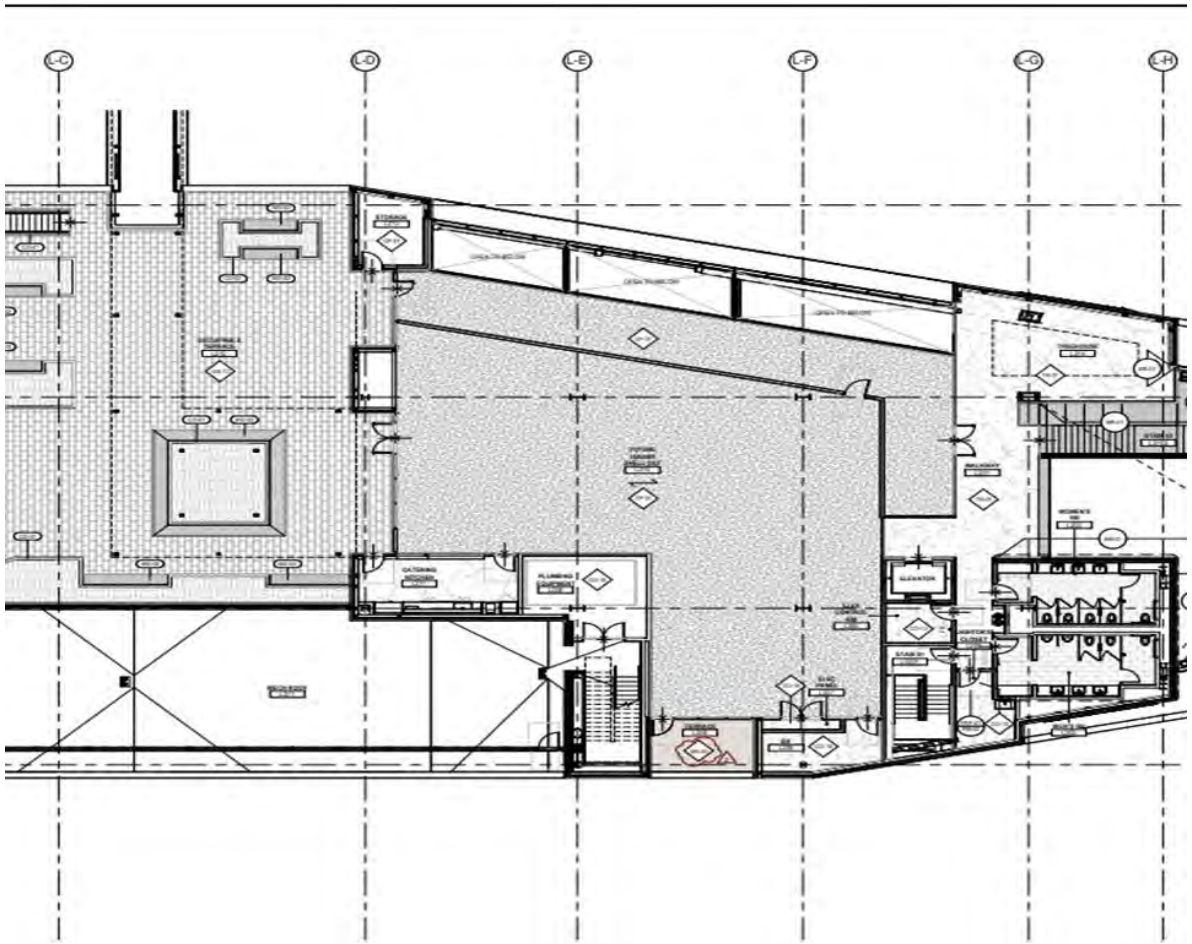
2) **Site and Design Considerations**

•Site selection advantages of an empty lot:
• Opportunity for modern, energy-efficient campus layout optimized for circulation, safety, and accessibility.
• Potential to incorporate sustainable design from the ground up (net-zero goals, solar canopies, rainwater harvesting).
• Flexibility for phased construction if budget or enrollment growth forecasts are uncertain.
•Accessibility and safety:
• Compliance with ADA, ADA, sightlines, lighting, and clear wayfinding.
• Safe, multi-modal access (pedestrian, bicycle, transit, and parking). Consider proximity to transit hubs to reduce car reliance.
•Campus integration:
• Plan for integration with adjacent facilities (parking structures, student housing if applicable, and crime prevention through environmental design).

Corona Education Center

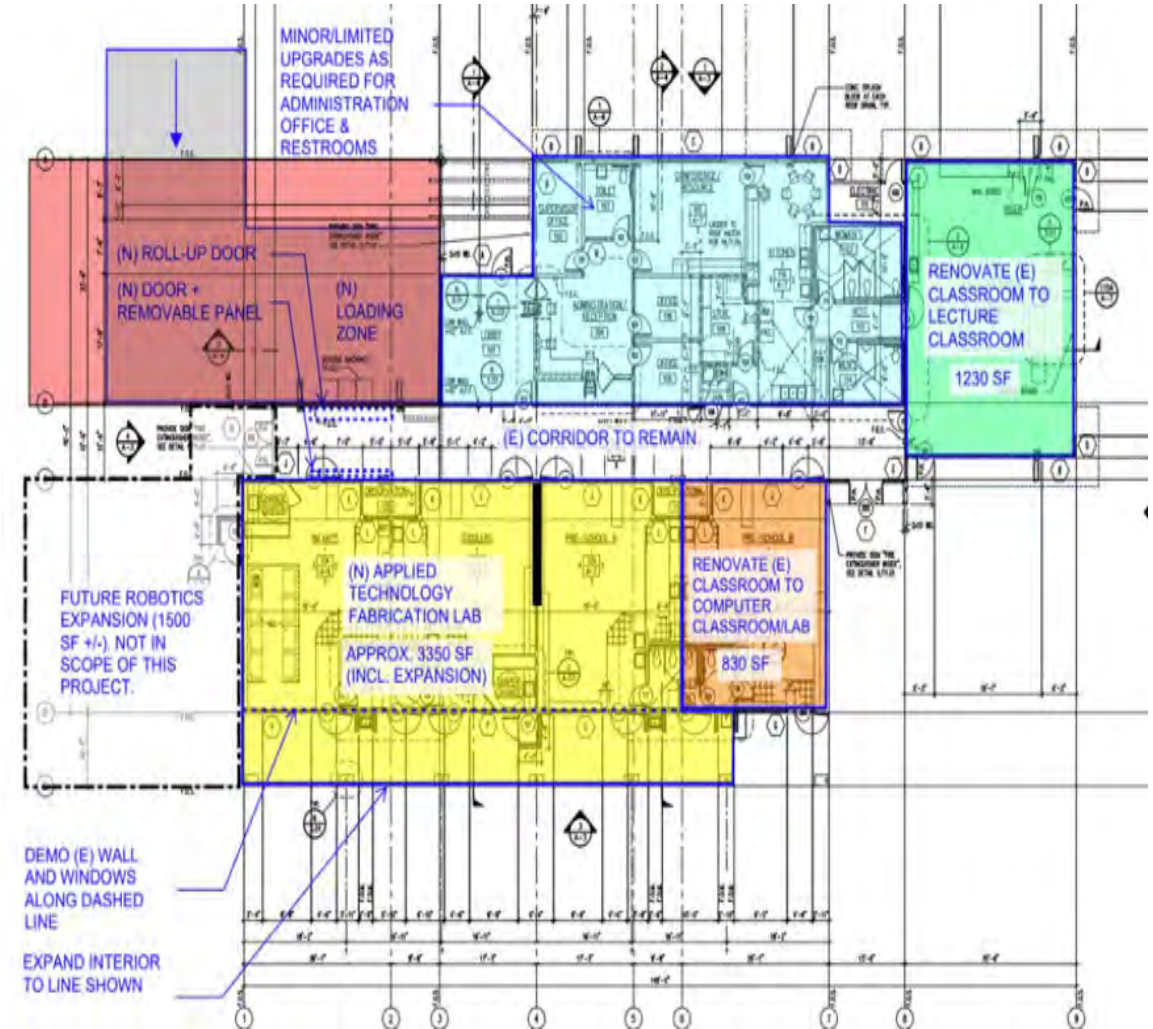
- 9.6-acre site that will serve as an extension of Norco College with a focus on Science and Allied Health Programs.
- Educational master planning, Vision and Strategic Plans (EMVSP) and development of the Infrastructure and Facilities Master Plan for the site.
- $135 million Corona Education Center (CEC) development will be funded by Measure CC.
- Project completion in 2030

Norco College@Eastvale



- Locating Norco College's Center for Entrepreneurship at the City of Eastvale Civic Center, Library and Innovation Center
- Serving the entrepreneur and small business needs of our service area
- Partnering with the City of Eastvale to connect and empower students to develop business plans, network, complete coursework, and serve as the hub for small business development within our service area.
- 5000 sq. feet of dedicated space on the second floor of the City's Library and Innovation Center.
- Estimated project completion 2028

STEM 100 Renovation Project



- The existing STEM Building 100 was constructed in 2004 as the Early Childhood Education Center.
- Throughout the years this building has been converted to a STEM Center use, utilizing the existing layout and systems from the original design, and by providing new offices spaces.
- The total building square footage is approximately 8,235 square feet.

STEM 100 Renovation (CACT Relocation)

- Start: July 10, 2025 | Phase 1 Completion: February 15, 2026 | Phase 2 Completion: August 30, 2026
- Phase 1 Completion: February 15, 2026 | Phase 2 Completion: August 30, 2026
- Challenges: Compressed construction window; coordination with equipment vendors; concurrent MEP work.
- Campus interruptions: Parking restrictions and power interruptions during switchgear installation.
- Key Milestones: Interior Demo → MEP Rough-In → Finishes → Switchgear Installation → Commissioning.

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Norco College Photovoltaic and Battery Energy Storage Project

Norco College Photovoltaic and Battery Energy Storage Project

- The project includes a 2.1-megawatt (MW) ground-mounted solar array covering approximately six acres on the hillside northeast of campus.
- A new alternating current (AC) station and 12-kilovolt (KV) underground transmission line will connect the solar array to a new 500-kilowatt battery energy storage system (BESS) and switchboard at the site of the existing fuel cell, which will be demolished.
- The new system will integrate with existing campus electrical infrastructure and support upcoming EV charging stations, enhancing energy reliability and efficiency.
- This project advances Norco College's commitment to sustainability, cost savings, and clean energy innovation.

EV, Solar & Battery Energy Storage System (BESS) Project

- **Challenges:** SCE design delays; underground utility relocation work; late interconnection approval.
- **Campus interruptions:** Utility trenching from Nov. 10 to Dec 12, 2025, near Operation Center; unavailable EV chargers for use due to delay in construction.

Schedule Summary:

- **Underground Work:** Nov. 17–Dec.12, 2025
- **SCE Connection Tentatively Scheduled for:** Nov. 24–30, 2025
- **Board Approval:** December 2025, for EVCS Parking and Use AP, and EV Provider Power Charge
- **Go-Live (Solar, BESS, EV):** January 26, 2026

Norco College Construction Schedule Overview

Construction Schedule (2025–2027)

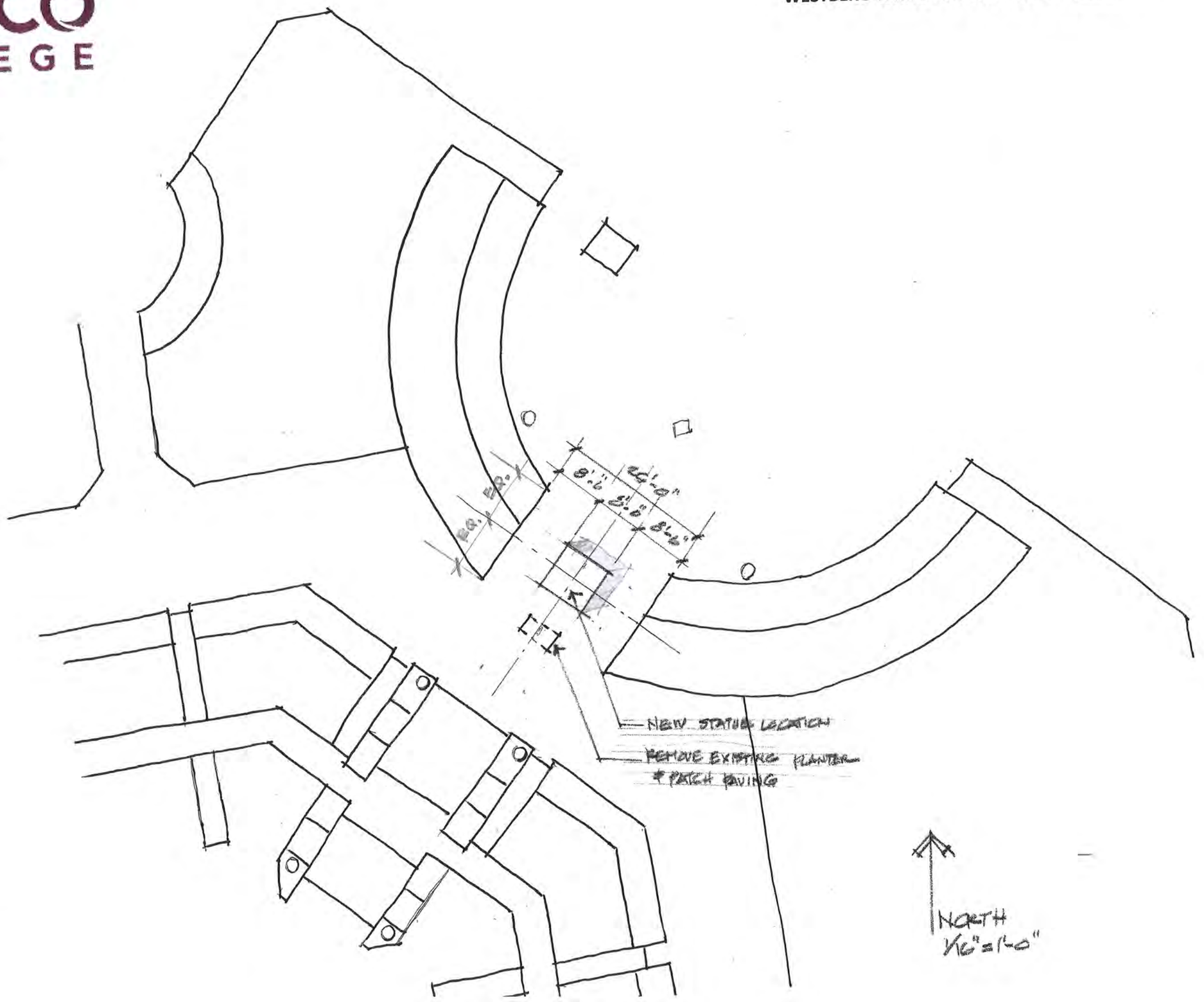
- Center for Human Performance & Kinesiology (CHP+K): July 1, 2025 – June 30, 2027
- STEM 100 Building Renovation (CACT Relocation): July 1, 2025 – February 15, 2026
- F2 Chiller Plant Upgrade: October 1, 2025 – January 31, 2027

All projects are coordinated to minimize campus disruption and align with long-term modernization goals.

Space Planning Outlook (2026–2027)

- **Challenges:** Faculty office shortages, swing spaces for construction, limited classified workspace.
- **Opportunities:** Reconfigure existing underused spaces (Surveying Underway).
- **Faculty Offices:** ST 120, A 105, WEQ 2A (all vacant); a new portable building at STEM housing 12-offices to be online by Summer/Fall 2026. Potentially use one of the 12 offices as a swing office space and or for mental health.
- **Classified:** 2 open spaces in Student Life; 2 open positions in LRC; convert LIB 101 into flexible swing space.

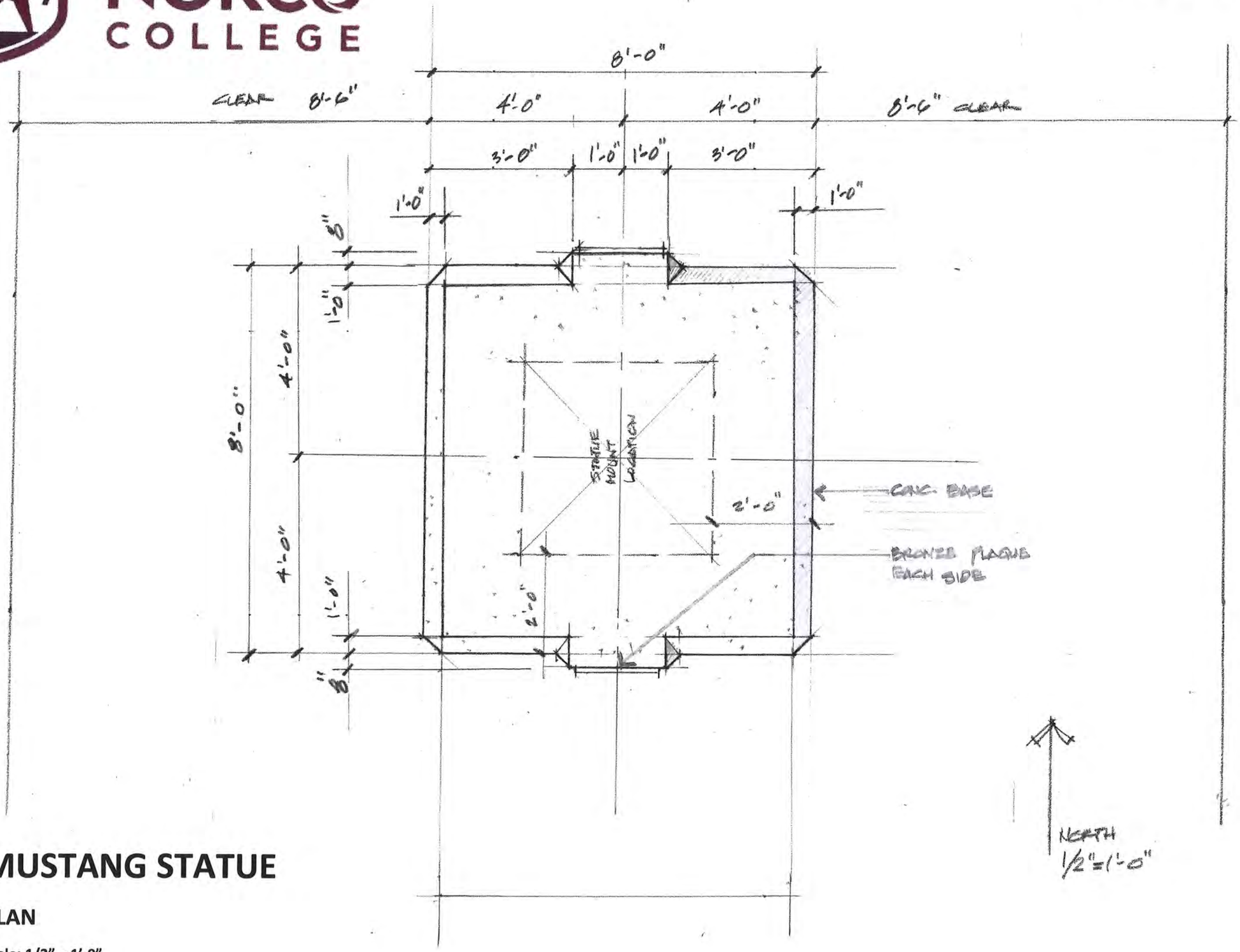
NORCO COLLEGE



MUSTANG STATUE

SITE LOCATION

Scale: 1/16" = 1'-0"



MUSTANG STATUE

PLAN

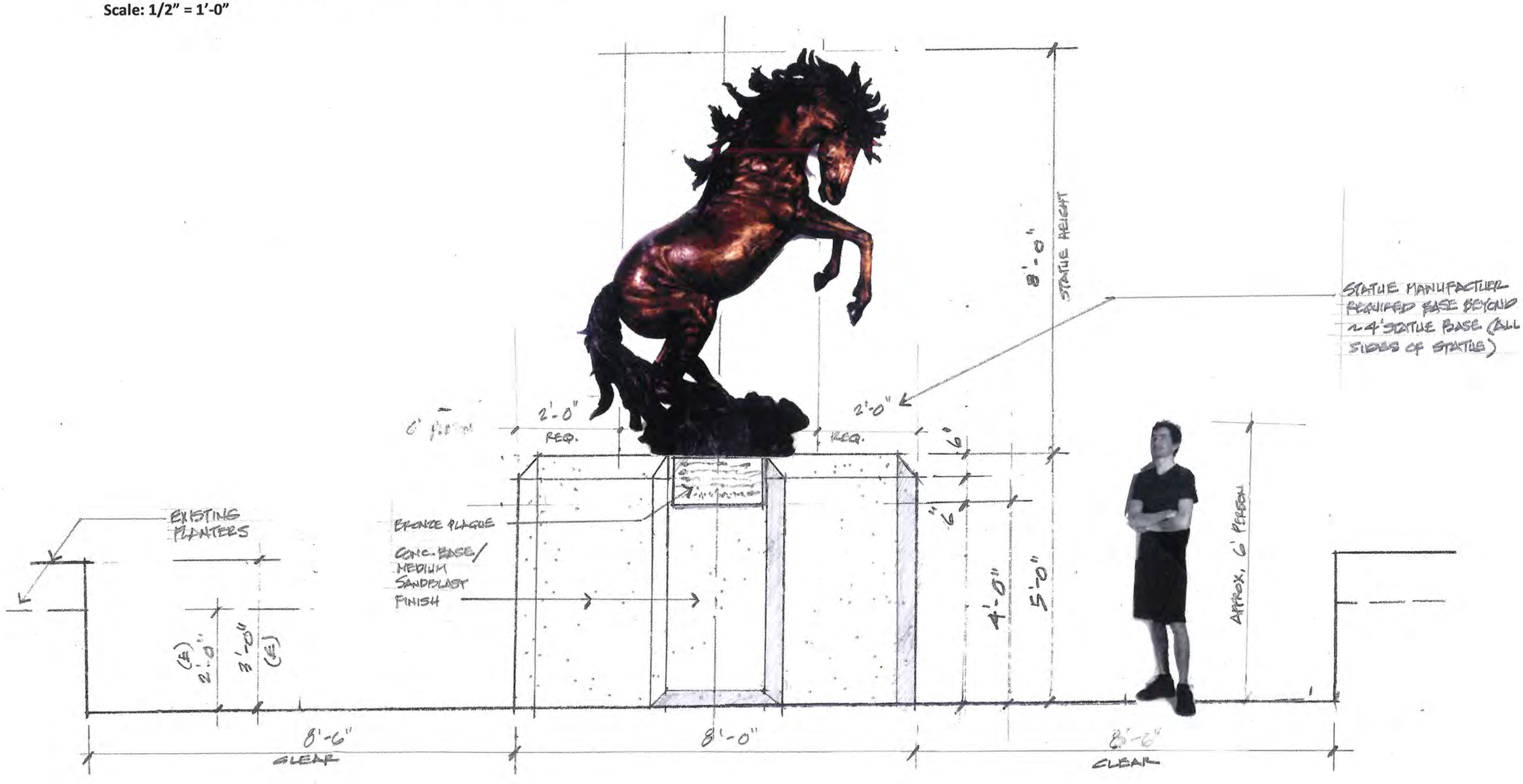
Scale: 1/2" = 1'-0"

NORCO COLLEGE

MUSTANG STATUE

VIEW FROM SOUTH (NORTH VIEW SIMILAR)

Scale: 1/2" = 1'-0"



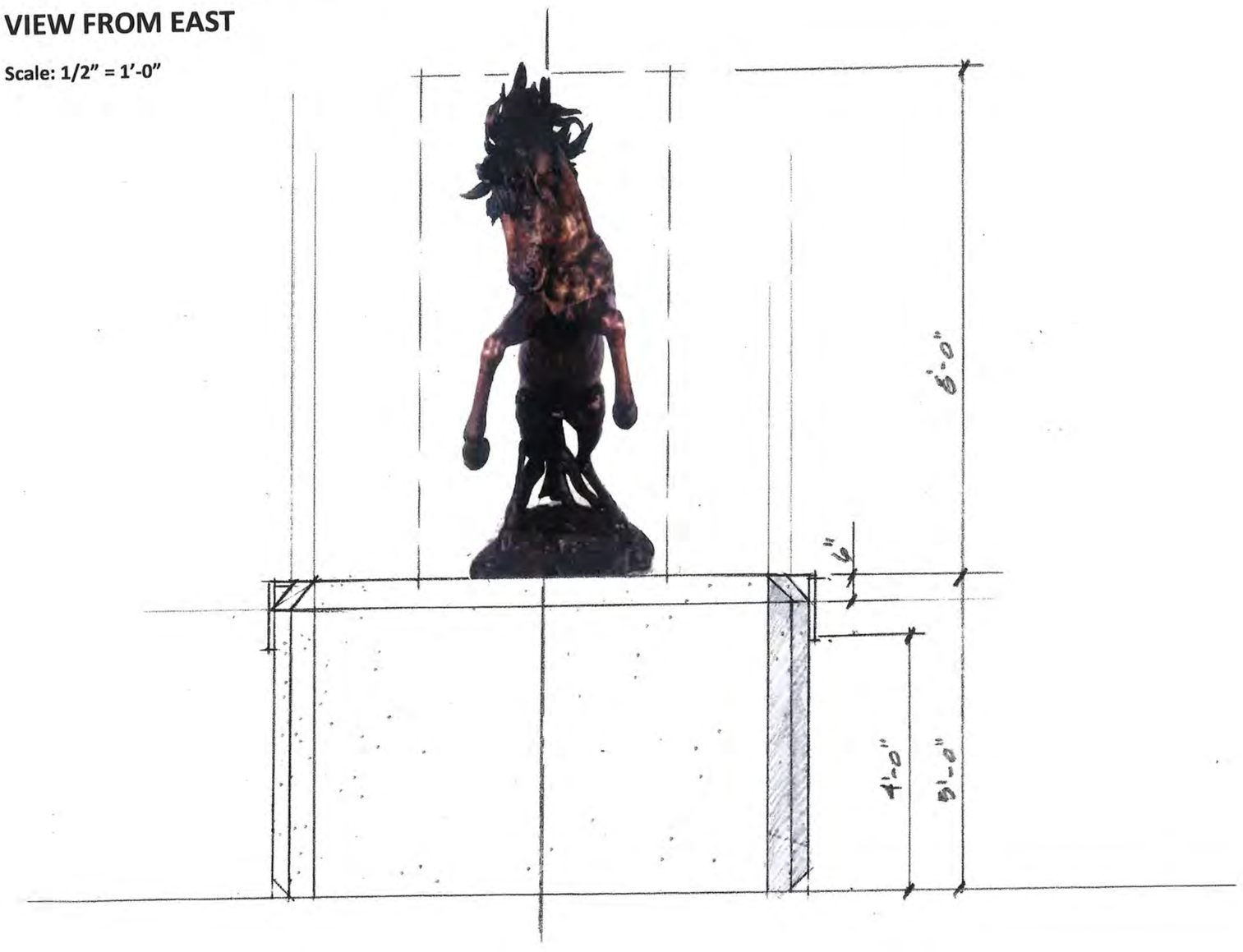
NORCO COLLEGE

WESTBERG WHITE ARCHITECTURE 11/21/22

MUSTANG STATUE

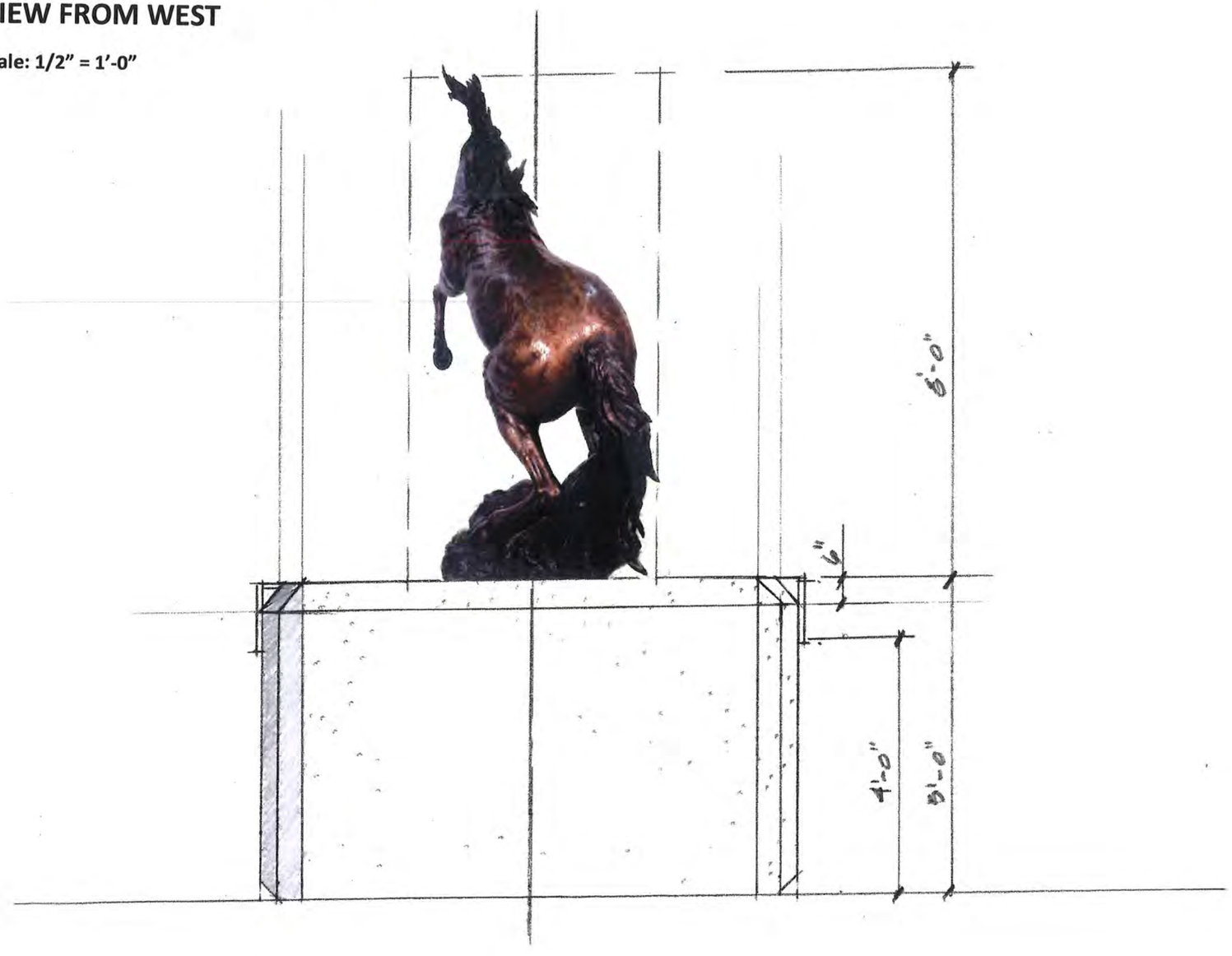
VIEW FROM EAST

Scale: 1/2" = 1'-0"



NORCO COLLEGE

MUSTANG STATUE

VIEW FROM WEST

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