ADDENDUM NO. 20

May 31, 2019

REQUEST FOR PROPOSALS
(BID DOCUMENTS)

FOR

STUDENT SUCCESS CENTER
PROJECT NO. 950512

The following changes, additions, or deletions shall be made to the following documents as indicated for this Project; and all other terms and conditions shall remain the same. Each Proposer (Design Builder) is responsible for transmitting this information to all affected subcontractors and suppliers before the Proposal Deadline.

1. REQUEST FOR PROPOSALS

A. Project Program & Design Criteria (January 11, 2019)

Delete "Technology Design Criteria" pages 4.114 & 4.115 and **replace** with the ones issued in this Addendum.

B. Specifications (Divisions 02-33)

1. Division 27-Communications

Delete the "Division 27- Communications" and **replace** with the one issued in this Addendum.

C. University Furnished Information

1. Table of Contents

Delete the "University Furnished Information Table of Contents" and **replace** with the one issued in this Addendum.

2. **Add** Item "55 Baseline CEQA Assumptions" to the Table of Contents, including item A.

55. BASELINE CEQA ASSUMPTIONS

A. Baseline CEQA Assumptions University of California, Riverside

2. DESIGN BUILDER QUESTIONS & ANSWERS

Q110	Does the university have a single table of adjacencies listing required/desired "STC, Sound Transmission Class?" Alternatively, does the university have a single table listing required/desired "NNIC, Normalized Noise Isolation Class" ratings between spaces supported by a supplemental table listing "DTC, Door Transmission Class" for openings? A76 in Addendum 15 clearly states to use "NIC, Noise Isolation Class" per the two tables provided in the RFP (ref. Section 4 Design Criteria, Acoustics Table 1 on Page 4.13 and Table 2 on Page 4.14). It is advised "NIC" should be avoided and either a single table of "STC" should be established or alternatively a table of "NNIC" with a supplemental table of "DTC" should be established. The acoustic tables provided in the RFP lists "NIC" yet contains additional information/footnotes/requirements citing laboratory-tested "STC" ratings (i.e., partitions with STC 40 or greater shall be full height). This creates ambiguities that can be interpreted differently as NIC and STC are differing ways of measuring acoustic performance and lack any scientific research/whitepaper to mathematically translate "NIC" ratings into "STC" ratings. These obscurities create risk elements resulting in potential over-design of partitions

	and opening assemblies to meet stipulated "NIC" ratings. Also, the two tables create another ambiguity given certain partitions appear to be a single partition with doors on one side of the partition but viewed from the other side the same partition appears to be both a partition without doors and a partition with doors thereby creating a single partition with multiple "NIC" ratings. Please reconsider using "NIC" values in two tables; please consider establishing a single table of "STC" values or using two tables (Table 1. "NNIC" for partitions and Table 2. "DTC" for openings).
A110	**The intent of Tables 1 and 2 in the Design Criteria for Acoustics is to establish performance criteria once the project is fully constructed and completed. The design team should select wall assemblies that will meet the performance criteria with penetrations and openings in mind. Table 2 takes into account the lower acoustical performance of a door in a partition, which is why lower ratings have been indicated.** **The University does not wish to establish an NNIC, since normalization is typically utilized for unfurnished conditions. All spaces should be fully furnished and completed when post-construction testing occurs.** **All walls as designed to meet the performance criteria will inherently have a laboratory STC rating. The laboratory STC rating does not take into account any penetrations, openings or as-built conditions. It is up to the design team to choose the correct wall assemblies to meet the performance criteria. If the wall assembly itself selected for design has a laboratory STC rating of 40 or higher, the additional footnotes/requirements should be met. Any penetrations, openings, etc. can then be addressed separately to ensure they do not limit the acoustical performance once post-construction testing occurs.** **If a partition has a door, Table 2 should be referenced for the performance criteria.** **The two tables are intended for performance criteria of partitions with (Table 2) and without (Table 1) doors. The doors will be the limiting factor of the overall assembly, which is why lower ratings have been indicated in Table 2.**
Q111	Room Data Sheet for Lobby 1.01 indicates under Security an "Emergency Phone located at entrance" and provides no further information; the rest of the RFP remains silent on Emergency/Blue Phone requirements. Addendum 12 provided a cut sheet for a Code Blue Model CB 5-s pedestal mounted pole phone and provides no further information regarding quantity/location(s). Please verify there is only one "emergency phone" required for the project and it is to be located at only one (1) of the main entrances to Lobby 1.01 (final location TBD during DD-phase). Please verify the Code Blue CB 5-s in Addendum 12 is the mandated phone equipment to be used or please acknowledge alternate manufactures/models of Emergency Phone are acceptable (e.g. a wall mounted phone in lieu of the pedestal mounted pole phone).
A111	**The project requires one internal wall mounted emergency phone at the building entrance. The above emergency phone to be University Furnished- University Installed. The Design Builder to coordinate installation with the University and install infrastructure and connections for the phone.**
Q112	In Article 2.5 of the Request for Proposal it is indicated that Notice to Proceed for Phases 2 and 3 is contingent upon funding approval from the University of California, Office of the President. Please indicate what the anticipated date for funding approval will be for the

	project, and what the anticipated duration will be between the end of Phase 1 and the issuance of the Notice to Proceed for Phases 2 and 3.
A112	**The University is anticipating full Project Approval in September, including approval of Design and CEQA. This approval is required to access the funds to proceed into Phase 2&3. The University is releasing the assumptions embedded in the CEQA Analysis that is underway.** **Any deviations from the baseline assumptions in the CEQA document created by a Design Builder team's proposed design, may impact the project schedule by requiring additional/new impact analyses, and mitigation measures. The time required for these analyses will impact phasing and approvals.** **The Design Builder will be responsible for any deviations to the CEQA Assumptions- additional impact analyses, mitigation measures and changes to the schedule as a result of such deviations.** **Please find the baseline CEQA assumptions issued as University Furnished information in Addendum 20.**
Q113	After review of current mechanical as-builts provided with the RFP for CHASS (5372 and 5403), Arts (5411), and Hinderaker Hall (5480), along with the tunnel and vault drawings received with Addendum 8, please confirm the capacity for the following existing utility systems within Tunnel 35: 1. CHW S/R before tying into CHASS and Arts (gpm. available) 2. Steam before tying into CHASS and Arts (#/hr available of 100 psi steam) 3. Pumped Condensate before tying into CHASS and Arts (gpm available)
A113	**The University is unable to provide any further information other than what has been provided in the University Furnished information.**
Q114	Given that the duration of the submission of proposals for the project has been extended from 04/11/19 to 06/27/19, there has been a considerable extension of capital outlay that has occurred that will not be funded until the completion of Phase 1. Because of this we would like to request that the funding for Phase 1 be increased from $1,100,000 to $2,000,000, while still maintaining the current amount of the MAC. Please confirm if this will be acceptable
A114	**The project funding allocation for Phase 1 would not support this change.**
Q115	Please clarify what the University's 'scrubbing process' will entail?
A115	**Refer to the Technical Proposal section, paragraph 1.2.3 which states:** **'Blind Evaluation: To provide an impartial review of each Proposer's Technical Proposal submittal, the Technical Evaluation Committee will conduct a Blind Evaluation. Therefore, the entire contents of the Technical Proposal submittal shall have all references to the Proposer's identity removed. All references that may identify the Design Build team including, but not limited to, firm or team names, staff identification, consultant identification, addresses, telephone numbers, logos, letterhead, stationary, binders, or business cards or specifics about the firm or its size and history shall be removed.'** **For instance, this would include references to past projects, or to contractor specific processes that are recognized by the industry.**

	If any of the items or features identified above appear in the proposal, these references will be redacted; and the appearance of the proposal may be affected.
Q116	In reference to Addendum 04- RFI 10; Can the University define what 'careful considerations' mean in regards to the design?
A116	**The following are some of the areas that will be considered carefully and scored accordingly in the evaluation of a proposed design.** **Section 1.1 Executive Summary:** **'The Student Success Center's architectural character shall be an expression of the academic vision and programs within the building, while also responding to the external site and climate conditions in a manner that integrates the building into the surrounding campus landscape.'** **Section 1.3 Executive Summary:** **'The Student Success Center shall be consistent with 2016 Physical Master Plan Study's tenet to increase the density of the core campus. The building's height and massing shall be consistent with the surrounding context.** **The Student Success Center shall acknowledge and respond to UCR's tradition of building architecture that is uniquely climate responsive.'** **Section 2.8 Project Introduction:** **'Existing mature trees within the Baseline Site Area of Improvement (BSAI) shall be removed, relocated and/or protected in place. Demolition shall include complete removal of existing site features and landscaping, including roots and organic material.** **Protect in place and/or repair/replace existing landscape and hardscape features that are outside the area of improvement line if impacted by the Student Success Center.'** **Section 4.35 Design Criteria:** **'Preservation and enhancement of views from the heart of the campus to the perimeter.'** **'Preservation and reinforcement of key open spaces and pathways to create connections across campus and to the community. The view corridor that extends and connects through the Highlander Union Building (HUB) shall be maintained.'** **'The south building face shall respect the position of the south face of the Student Services Building, while the east and west faces shall consider the exterior faces of CHASS Int. South Building. The east face of the new building shall comply with fire access setback requirements**. ' **Section 4.36 Design Criteria:** **'The site is framed by two major opens spaces Arts Mall and Carillon Mall consisting of existing pedestrian pathways and bicycle pathways continuing from University Avenue. These open spaces have the capacity to support heavy pedestrian traffic and are anticipated to carry increased foot-traffic when the Student Success Center and UCR Mobility Hub are completed. Smaller pathways perpendicular to the main pedestrian malls connect to existing courtyards and other secondary paths, giving the site opportunities to active the ground floor. Careful attention shall be placed on enhancing the existing pedestrian and**

	bicycle linkages to the immediate adjacent pedestrian malls and the remainder of the campus' **University Furnished Information** **Exemplary/ Non-Exemplary Campus Contextual Character** **UCR Long Range Development Plan** **UCR Physical Design Framework**
Q117	The Draft Campus Standards DIV 26 Electrical states that multi-conductor cable may be used in Student and Faculty residential buildings in wood frame construction and references that it must be in accordance with the campus master specification. A. It does not appear the campus master specification has been provided. Will the University please provide this standard? B. Will it be acceptable to use MC cable for the Student Success Center?
A117	**A. The University does not have a master specification for Multi-Conductor cables.** **B. The University will not accept the use of MC Cables**

END OF ADDENDUM

- Main horizontal pathways shall comprise of a linear cable tray arrangement running throughout the building. Cable tray shall be basket tray type with two points of connection for the support trapeze (no single centered trapeze hangers are permitted).
- Typical wall outlets shall consist of a 5" square back-box (with a single-gang mud-ring) with a 1-1/4" diameter solid metal EMT conduit running from the back box to the nearest accessible ceiling space. Cable shall run from outlet location to nearest cable tray via the use of j-hooks. A pull wire shall be provided in each conduit to assist with the installation of cabling. Where accessible ceiling is not available, conduit shall run via pull-boxes to the nearest IDF.

WIRELESS ACCESS POINTS

Provision for wireless connectivity shall be made throughout the building and in exterior spaces supporting dining area seating and all student seating and outside study areas within 35 ft of the building. Power to wireless access points is to be distributed via Category 6 cable using the IEEE 802.3 Power over Ethernet standard. There shall be two CAT6 cables pulled to each access point location.

STRUCTURED CABLING SYSTEM

The structured cabling system for the new Student Success Center shall comply with UCR standards. At the time of the writing of this narrative the design is based on a Systimax GigaSpeed augmented Category 6 U/UTP horizontal copper cabling system. The system shall provide universal access throughout the facility and shall provide a high level of flexibility and resilience. The cabling system shall also provide sufficient bandwidth to support future generations of technology without the need for re-cabling.

DATA CONNECTION STANDARDS

AV shall be coordinated with current UCR designated representative. Data faceplates shall be located per the following guidelines:

STANDARD WALL MOUNTED OUTLET

Standard wall mounted outlets shall be the typical outlet configuration throughout the buildings. Standard wall mounted outlets shall consist of two ~~three~~ Category 6 unshielded communications cables terminated on RJ45 connectors at the faceplate with the faceplate to accommodate up to 6 ports (blanks to be used for all un-populated keystones).

WALL MOUNTED PHONE OUTLET AND ROOM SCHEDULING PANEL OUTLET

Wall mounted phone outlets shall consist of one Category 6 unshielded communications cable terminated on RJ45 connector at the faceplate. The faceplate shall be mounted 42" above the finished floor, unless directed otherwise by the Architect. Wall phones to be located within each classroom or lecture hall near the instructor station. Scheduling panels to be located at the outside of each lecture hall, classroom, group study room, group meeting room and the Multipurpose room near the main internal entrance doors.

WALL MOUNTED SECURITY CAMERA

Wall mounted security camera outlets shall consist of two Category 6 unshielded communications cables (blue in color) terminated on black RJ45 connectors at the faceplate. The faceplate shall be mounted above the finished floor at the elevation shown on the drawings.

FLOORBOX POKE-THROUGH

In areas that need communications outlets in the floor, the typical floor box and poke-though shall consist of eight Category 6 unshielded communications cables terminated on RJ45 connectors in the floor devices. All jacks utilized in floor boxes shall have dustcaps installed. Conduits to floor boxes shall be 1.25" min.

AUDIOVISUAL COMMUNICATIONS OUTLETS

At instruction or presentation locations, provide **eight** ~~seven~~ Category 6 unshielded communications cables terminated on RJ45 connectors in the floor box or wall outlet in temporary positions (disconnects) or extended into the free-standing equipment rack and/or instructor station equipment rack and terminated on a patch panel within for AV equipment distribution and connection. As the UCR campus has a one-port-to-one-device policy for AV equipment, there shall be no less than 8 RJ45 ports for AV equipment within the rack (note that a minimum of two spare ports for growth). Some ports are extended to the top surface of the instructor desk and terminated accordingly for top access. In conference spaces, data cabling shall be extended from the floor to the top table well and terminated for use of phones, etc. on the table surface.

At locations where a projector/ monitor shall be located, provide an additional two Category 6 shielded cables home run to the podium/ local AV equipment rack. Terminate each cable with RJ45 jacks or metallic shielded jacks.

CEILING MOUNTED OUTLET

At the video projection locations, ceiling mounted outlets shall consist of two Category 6 unshielded communications cables terminated on RJ45 connectors at the faceplate mounted in the accessible ceiling tile or mounted on the surface as applicable. Provide an additional two Category 6 shielded cables home run to the podium/ local AV equipment rack. Terminate each cable with yellow RJ45 jacks.

WIRELESS ACCESS POINT

Provide WAP outlets mounted flush with the accessible ceiling. The outlets supporting the wireless access points shall consist of two Category 6A unshielded communications cables terminated on RJ45 connectors at the faceplate. Wireless access points shall be located (1) per every 1,100 SF and a minimum of 3 per classroom and shall be designed to accommodate the number of occupants per each space and area density.

OTHER

Connections for other services are to be included as needed by design including accommodations for phone/data in elevator machine room, BMS support in electrical and mechanical spaces, etc. Ports for these are to be accommodated as needed by system component requirements.

INTER-BUILDING BACKBONE CABLE

24-strands of SM (OS2) and a 50-pair Category 3 multi-pair copper cable shall be provided from the campus MDF located in the Data Center in the School of Medicine building to the new Student Success Center BDF Room. OSP cabling to be run through the campus tunnel system. Copper cables shall be terminated on protector blocks and extended to wall mounted 110 blocks. Optical fiber cable shall be terminated using SC connectors in rack-mounted patch panels. OSP Fiber Optic cabling to be home run with Air Blown Fiber (ABF). 12 strands single-mode conventional fiber optic cabling shall be home run from each IDF to BDF within the building.

DIVISION 27 - COMMUNICATIONS

SECTION 27 1000 – STRUCTURED COMMUNICATIONS CABLING

SPACE PLANNING

Typical outlet type “A” (standard outlet): Provide 4” square deep junction box with single gang plaster ring and 1-1/4” conduit inside wall stubbed up 6” above accessible ceiling. Outlet shall be mounted +18” AFF (U.N.O.). Electrical contractor shall provide outlet box, plaster ring, conduit pathway, cable tray, connectors on each end of conduit stub with plastic bushing and pull string. Communication contractor shall provide all cable support between the conduit stub and the nearest accessible cable tray (via J-hooks), cable and connectivity hardware, three ~~(3) (1)~~ ***(2)*** Cat-6 (faceplate to accommodate up to 6 keystone jacks), 4-pair UTP cables terminated with three ~~(3)~~ ~~(1)~~ ***(2)*** Cat-6, modular RJ-45 jacks. All Category 6 cables shall be terminated to 48 port patch panel in an IDF Room (as appropriate).

Typical outlet type “B” (furniture feed): Provide 5” square junction box with single gang plaster ring and minimum two 1-1/4” conduit for every 10 cables, stubbed up conduits 6” above accessible ceiling. Electrical contractor shall provide outlet box, plaster ring, conduit pathway, cable tray, connectors on each end of conduit stub with plastic bushing and pull string. Communication contractor shall provide 2-port surface mount box, all necessary apparatus for tie-in with furniture. Communication contractor shall provide ~~two~~ ~~(1)~~ ***(2)*** Cat-6, 4-pair UTP cables terminated with ~~two~~ ~~(1)~~ ***(2)*** Cat-6, modular RJ-45 jacks for every furniture seat. All Category 6 cables shall be terminated to 48 port patch panel in an IDF Room (as appropriate).

Typical outlet type “C” (floor box): Electrical contractor shall provide two 1-1/4” conduit and a single compartment floor box dedicated for data, and separate dedicated compartment and conduit for power and AV. Communication contractor shall provide and install a minimum of ~~(4)~~ ***(2)*** (but up to eight 8 for AV use) Category 6 cables terminated with RJ-45 connectors.

Typical outlet type “D” (projector outlet): provide 4” square deep junction box with single gang plaster, T-bar bridge and 1” conduit to accessible ceiling. Electrical contractor shall provide outlet box, plaster ring, conduit pathway, cable tray, connectors on each end of conduit stub with plastic bushing and pull string. Communication contractor shall provide all cable support between the conduit stub and the nearest accessible cable tray (via J-hooks), cable and connectivity hardware, two (2) ***E*** Cat-6, 4-pair UTP cable terminated with two Cat-6 modular RJ-45 jack. All Category 6 cable shall be terminated to 48 port patch panel in an IDF Room (as appropriate).

Typical outlet type “E” (Audiovisual Rack/Podium): At the audiovisual equipment rack location or instructor podium location (where main equipment is located) provide (as required for cabling quantity and capacity) 5” square deep junction box(es) with 2-gang plaster ring (and white cable pass-through faceplate) and 1-1/4” conduit inside wall stubbed up 6” above accessible ceiling. Outlet shall be mounted +18” AFF (U.N.O.). Electrical contractor shall provide outlet box, faceplate, plaster ring, conduit pathway, cable tray, connectors on each end of conduit stub with plastic bushing and pull string. Communication contractor shall provide all cable support between the conduit stub and the nearest accessible cable tray (via J-hooks), cable and connectivity hardware, eight (8) Cat-6, 4-pair UTP cables terminated with a minimum of eight (8) Cat-6, modular RJ-45 jacks on a patch panel within the equipment rack or podium (with a 13’ service loop from wall plate bundled in black nylon mesh socking). All Category 6 cables shall be terminated to 48 port patch panel in an IDF Room (as appropriate).

Typical outlet type “F” (Wireless AP outlet): Provide 4” square deep junction box with single gang plaster, T-bar bridge and 1” conduit to accessible ceiling. Electrical contractor shall provide outlet box, plaster ring, conduit pathway, cable tray, connectors on each end of conduit stub with plastic bushing and pull string. Communication contractor shall provide all cable support between the conduit stub and the nearest accessible cable tray (via J-hooks), cable and connectivity hardware, two (2) Cat-6, 4-pair UTP cable terminated with two Cat-6, modular RJ-45 jack. All Category 6 cable shall be terminated to 48 port patch panel in an IDF Room (as appropriate). Provide 20’ service loop.

Wall Phone: Near each Classroom and Lecture Hall instructor station, provide 4” square deep junction box with single gang plaster ring and 1” conduit inside wall stubbed up 6” above accessible ceiling. Outlet shall be mounted +42” AFF (U.N.O.). Electrical contractor shall provide outlet box, plaster ring, conduit pathway, cable tray, connectors on each end of conduit stub with plastic bushing and pull string. Communication contractor shall provide all cable support between the conduit stub and the nearest accessible cable tray (via J-hooks), cable and connectivity hardware, one (1) Cat-6, 4-pair UTP cable terminated with one (1) Cat-6, modular RJ-45 jacks. All Category 6 cable shall be terminated to 48 port patch panel in an IDF Room (as appropriate).

Security Camera outlet: Provide 4” square deep junction box with single gang plaster ring and minimum 3/4” conduit stubbed into accessible ceiling space. Electrical contractor shall provide outlet box, wall plate, conduit pathway, cable tray, connectors on each end of conduit stub with plastic bushing and pull string. Communication contractor shall provide all cable support between the conduit stub and the nearest accessible cable tray (via J-hooks), cable and connectivity hardware, ~~one~~ ***(2)*** Cat-6, 4-pair UTP cable terminated with ~~one~~ ***(2)*** Cat-6, RJ-45 jack at the outlet (i.e., device end) and terminated to Cat-6, 48 port patch panel in an MDF/Server Room (as appropriate).

WARRANTY

Provide a “Registered SYSTIMAX® Network Infrastructure Solution” 20 year extended product warranty and application assurance on this installation and a minimum of one year from Notice of Completion on all materials and workmanship installed or supplied as part of the telephone and data systems.

PRODUCTS

CommScope Systimax® 2071E GigiSPEED, or equal, for Category 6 (voice and data) horizontal structured cabling system. All data cabling and related ports are to be black in color and all voice cabling and related ports are to be grey in color per campus standard.

Corning, or equal, for all Fiber Optic cables, connectors and associated hardware.

Chatsworth Products Inc. (CPI), or equal, (see note), for in Telecom Room(s); seven-foot by 19-inch data equipment racks, cable runway and support products to include vertical cabling (between racks) management.
Note; use one manufacturer for all racks, cable runway, vertical cable managers and associated hardware.

Panduit, or equal, for horizontal wire management products.

Faceplates shall be Systimax® M13C series triplex outlets, match color of electrical plates, or equal. Typical faceplates to accommodate up to 6 keystone ports for standard wall outlets.

All data cabling and related ports are to be black in color and all voice cabling and related ports are to be grey in color per campus standard. Black outlets to be Systemax® MGS400-003 and grey outlets to be Systemax® MGS400-270.

Erico® Caddy®, MonoSystems, or equal, for J-Hook Cable Support Systems and other non-continuous cable supports.

Superior Essex® ARMM 50-Pair Riser Cables #02-100-03, or equal, for twisted pair Copper riser distribution cable.

Carlon®, or equal, for Innerducts and associated fittings.

Leviton part number 49013-P48, or equal, for Voice Grade Patch Panels riser distribution in data equipment racks.

Ortronics 300 Pair Field Termination Kit with back panel and 110C5s, Part Number OR-30203461, or equal, in BDF. The wiring blocks shall be fully equipped with five pair 110C-5 connecting blocks, jumper troughs, label designations and rivets.

Copper B-Line Flex Tray, MonoSystemsTM Mono-Mesh or equal, for Wire Basket Cable Tray support system.

SECTION 27 4100 – LOUDSPEAKERS

PRODUCTS

Wall Mounted (Program): Extron #SM 28 with appropriate mounting accessories. Speakers to be white or painted as required to match architectural finishes of the wall. Include seismic cable lanyard as secondary securing to bracket.

Ceiling Mounted (Voice): Extron #SI 26CT with appropriate mounting accessories and 70V transformer. Speakers to be white or painted as required to match architectural finishes of the ceiling. Speakers to be anchored above with 1/8" diameter braided cable.

Cabling: 16 AWG Belden 5240U1 Water Resistant Multi Conductor Cable.

SECTION 27 4150 – AUDIOVISUAL SYSTEMS EQUIPMENT

SPACE PLANNING

Projection screens shall be dual-screen in all rooms unless otherwise noted and shall be based on proper viewing angles for all seated occupants. Where seating is in an arc or circular format, the standard double set of screens shall be placed angularly/perpendicular to the viewing occupants and shall be configured for disparate content to be displayed on the left and right screens in the set. Each set of two screens shall replicate the left and right displayed content for a consistent viewing experience for all seated occupants. The image size for the screens shall be based on industry standards for a 6.0 viewing ratio for image height in relation to the furthest viewer from that screen image. The screen image shall not be lower than 48" AFF. The screen image height shall be visually high as possible to clear lower structures or whiteboards.

Projectors shall be ceiling mounted and shall not be lower than ~~7'-6"~~ ***8'-0"*** to the lowest point of the assembly to clear ADA requirements.

Wall speakers, cameras and other protruding elements secured to the wall surface that extend beyond 4" shall be higher than ~~7'-6"~~ ***8'-0"*** to the lowest point of the assembly to clear ADA requirements.

Flat panel display sizes shall be sized appropriately for the viewing area and materials to be displayed and shall be no smaller than 50" diagonal on this project.

WARRANTY

Basic Warranty provided by the Audiovisual Integrator shall include repair or replacement for one year from Final Acceptance on all Audiovisual Equipment provided (including products having a manufacturer's warranty of less than one year) and all Audiovisual Integrator workmanship. Basic Warranty shall be provided at no additional cost, except in case of obvious abuse.

TRAINING

The Audiovisual Integrator shall provide sufficient training for the Owner's designated staff to become proficient in the general operation, routine maintenance, troubleshooting, and other basic system support functions. This training shall include one session of training of up to 2 hours by the Audiovisual Integrator or the equipment manufacturer. This training shall include a session or sessions that are focused on the Owner's designated technical staff and also a session or sessions that focus on the administrative and/or instructional staff. Training of end users will be provided by the Owner's technical staff.
Times of day for training must be coordinated with Client availability including evening hours if requested for least disruption to Client day time operations.
Training shall be recorded and provided to Client.

PRODUCTS

Large Lecture Hall:

3 Input Transmitter: Extron DTP T USW 233.
Cable Cubby: Extron Cable Cubby 300S with connection cables, Left/Right Cable Pass-Through and Blank AAPs as required.
Auxiliary Microphone Input Plate: 2-gang 3.5 deep box with white decorator faceplate. Include (2) XLR microphone connections.
Mersive Solstice Pod (non-enterprise model). Connect to data network and configure settings in conjunction with UCR IT Dept.
Wireless Microphone System: Shure QLXD124/85.
Document Camera: Wolfvision VZ8+.
Digital Matrix Switcher: Extron XTP II Crosspoint 1600 including spare audio channels as needed for audio breakout to recording and audio amplifiers. Switcher to be sized as required for number of I/O plus expansion capability for growth.
HDMI TP Receiver: Extron DTP HDMI 230Rx.
DSP: Extron DMP 128 Plus C AT with DSP Software and Dante support (units bussed together as required for number of I/O plus expansion capability for growth.
Amplifier: Extron XPA 4002-70V.
Amplifier: Extron XPA 4002.
Video Projector: Panasonic PT-RZ970U 9000 ANSI lumens laser WUXGA resolution projector (coordinate standard lensing with ceiling elements) with BMS LOC-IV security enclosure and Premier Mount PDS-Plus ceiling mount (or equivalent). Provide with wireless networking module for wireless presentation connection. Projector to be white model where available.
Desktop Monitor Mount: Ergotron #45-241-026 articulating monitor mount.
Coordinate projector throw with projection screen image for proper lensing.
Dell OptiPlex 7050 small form factor with Intel Corei5-7500 processor and 8GB 2x4GB 2400MHz DDR4 Memory. Include 3.5 inch 500GB 7200rpm Hard Disk Drive, dual digital (DisplayPort, HDMI, etc.) video output and Windows 10 Pro 64-bit operating software.

Include Dell P2418HT 24" 1920 x 1080 LCD touch-enabled monitor. Include Dell 2-year warranty.
Wireless keyboard and Gyration gyro mouse shall be used within each classroom with proper USB extension hardware for the wireless receivers to reside at the instructor station for best signal reception and operation.
USB adapters for audio I/O shall be included as required for the multiple audio channels for Zoom integration.
Instructor Monitor: Dell 24" Interactive touch monitor # P2418HT.
Control System: Extron IPCP Pro 550.
Touch Panel: Extron TLP Pro 1025T Black. Provide with XTP PI 100 Power-over-Ethernet injector as required.
Control for projection screen to include up/down upon system startup & shut down. Control to include manual override for up/down during system on operation.
Control system to manage room combined/divided state.
Control to include separate microphone and program audio mute and level controls.
Control to include connection to fire alarm trigger to mute audio until signal is clear.
Extron MediaPort 200 connected to PC via USB and audio for interfacing to computer viewing and Zoom collaboration.
Mediasite 900 series lecture capture appliance with HDMI connections for camera and content.
Cameras: Sony PTZF HD BRC-H900 cameras with twisted-pair signal & control extension to equipment rack. Include RS-232 control for control system management. Include data LAN connection for secondary camera operation and management.
The instructor station shall be a circular 36" diameter height-adjustable custom design from DWI Enterprises with a weighted base to promote stability when raised. All data cabling from the floor (or wall as required) shall be run into the instructor station equipment rack and be terminated on RJ45 patch panels for proper connection of networked edge devices (PC, control processor, wireless presentation appliance, etc.). The AV, power and data cabling to the typical instructor station shall be bundled in black nylon mesh sock and will include an 8-10' service cable that permits flexibility in the desk position.
Middle Atlantic 44RU WR-44-32 pull-out rack with enclosure and seismic floor anchor brackets. Include front locking vented door. Include top cooling kit to accommodate proper active/forced cooling of internal equipment.
Middle Atlantic 2RU locking drawer #UD2 with #KYLK lock option.
Middle Atlantic 2RU clamping shelf for wireless mirroring devices.
Middle Atlantic 3RU clamping shelf for PCs.
Middle Atlantic power distribution unit (PDU) #PD-915R or approved equivalent.
Vertical 115VAC surge power strip mounted within rack for monitor & PC, etc.

Medium Lecture Hall:

3 Input Transmitter: Extron DTP T USW 233.
Cable Cubby: Extron Cable Cubby 300S with connection cables, Left/Right Cable Pass-Through and Blank AAPs as required.
Auxiliary Microphone Input Plate: 2-gang 3.5 deep box with white decorator faceplate. Include (2) XLR microphone connections.
Mersive Solstice Pod (non-enterprise model). Connect to data network and configure settings in conjunction with UCR IT Dept.
Wireless Microphone System: Shure QLXD124/85.
Document Camera: Wolfvision VZ8+.
Digital Matrix Switcher: Extron XTP II Crosspoint 1600 including spare audio channels as needed for audio breakout to recording and audio amplifiers. Switcher to be sized as required for number of I/O plus expansion capability for growth.
HDMI TP Receiver: Extron DTP HDMI 230Rx.
DSP: Extron DMP 128 Plus C AT with DSP Software and Dante support (units bussed together as required for number of I/O plus expansion capability for growth.

Amplifier: Extron XPA 4002-70V.
Amplifier: Extron XPA 4002.
Video Projector: Panasonic PT-RZ970U 9000 ANSI lumens laser WUXGA resolution projector (coordinate standard lensing with ceiling elements) with BMS LOC-IV security enclosure and Premier Mount PDS-Plus ceiling mount (or equivalent). Provide with wireless networking module for wireless presentation connection. Projector to be white model where available.
Desktop Monitor Mount: Ergotron #45-241-026 articulating monitor mount.
Coordinate projector throw with projection screen image for proper lensing.
Dell OptiPlex 7050 small form factor with Intel Corei5-7500 processor and 8GB 2x4GB 2400MHz DDR4 Memory. Include 3.5 inch 500GB 7200rpm Hard Disk Drive, dual digital (DisplayPort, HDMI, etc.) video output and Windows 10 Pro 64-bit operating software. Include Dell P2418HT 24" 1920 x 1080 LCD touch-enabled monitor. Include Dell 2-year warranty.
Wireless keyboard and Gyration gyro mouse shall be used within each classroom with proper USB extension hardware for the wireless receivers to reside at the instructor station for best signal reception and operation.
USB adapters for audio I/O shall be included as required for the multiple audio channels for Zoom integration.
Instructor Monitor: Dell 24" Interactive touch monitor # P2418HT.
Control System: Extron IPCP Pro 550.
Touch Panel: Extron TLP Pro 1025T Black. Provide with XTP PI 100 Power-over-Ethernet injector as required.
Control for projection screen to include up/down upon system startup & shut down. Control to include manual override for up/down during system on operation.
Control system to manage room combined/divided state.
Control to include separate microphone and program audio mute and level controls.
Control to include connection to fire alarm trigger to mute audio until signal is clear.
Extron MediaPort 200 connected to PC via USB and audio for interfacing to computer viewing and Zoom collaboration.
Mediasite 900 series lecture capture appliance with HDMI connections for camera and content.
Cameras: Sony PTZF HD BRC-H900 cameras with twisted-pair signal & control extension to equipment rack. Include RS-232 control for control system management. Include data LAN connection for secondary camera operation and management.
The instructor station shall be a 60" wide custom design from DWI Enterprises per the campus standard with provisions for a 14RU equipment rack with rear access for support. All data cabling from the floor (or wall as required) shall be run into the instructor station equipment rack and be terminated on RJ45 patch panels for proper connection of networked edge devices (PC, control processor, wireless presentation appliance, etc.). The AV, power and data cabling to the typical instructor station shall be bundled in black nylon mesh sock and will include an 8-10' service cable that permits flexibility in the desk position.
Middle Atlantic 44RU WR-44-32 pull-out rack with enclosure and seismic floor anchor brackets. Include front locking vented door. Include top cooling kit to accommodate proper active/forced cooling of internal equipment.
Middle Atlantic 2RU locking drawer #UD2 with #KYLK lock option.
Middle Atlantic 2RU clamping shelf for wireless mirroring devices.
Middle Atlantic 3RU clamping shelf for PCs.
Middle Atlantic power distribution unit (PDU) #PD-915R or approved equivalent.
Vertical 115VAC surge power strip mounted within rack for monitor & PC, etc.

Small Lecture Hall:
3 Input Transmitter: Extron DTP T USW 233.

Cable Cubby: Extron Cable Cubby 300S with connection cables, Left/Right Cable Pass-Through and Blank AAPs as required.
Auxiliary Microphone Input Plate: 2-gang 3.5 deep box with white decorator faceplate. Include (2) XLR microphone connections.
Mersive Solstice Pod (non-enterprise model). Connect to data network and configure settings in conjunction with UCR IT Dept.
Wireless Microphone System: Shure QLXD124/85.
Document Camera: Wolfvision VZ8+.
Digital Matrix Switcher: Extron XTP II Crosspoint 1600 including spare audio channels as needed for audio breakout to recording and audio amplifiers. Switcher to be sized as required for number of I/O plus expansion capability for growth.
HDMI TP Receiver: Extron DTP HDMI 230Rx.
DSP: Extron DMP 128 Plus C AT with DSP Software and Dante support (units bussed together as required for number of I/O plus expansion capability for growth.
Amplifier: Extron XPA 4002-70V.
Amplifier: Extron XPA 4002.
Video Projector: Panasonic PT-RZ970U 9000 ANSI lumens laser WUXGA resolution projector (coordinate standard lensing with ceiling elements) with BMS LOC-IV security enclosure and Premier Mount PDS-Plus ceiling mount (or equivalent). Provide with wireless networking module for wireless presentation connection. Include spare projector lamp. Projector to be white model where available.
Desktop Monitor Mount: Ergotron #45-241-026 articulating monitor mount.
Coordinate projector throw with projection screen image for proper lensing.
Dell OptiPlex 7050 small form factor with Intel Corei5-7500 processor and 8GB 2x4GB 2400MHz DDR4 Memory. Include 3.5 inch 500GB 7200rpm Hard Disk Drive, dual digital (DisplayPort, HDMI, etc.) video output and Windows 10 Pro 64-bit operating software. Include Dell P2418HT 24” 1920 x 1080 LCD touch-enabled monitor. Include Dell 2-year warranty.
Wireless keyboard and Gyration gyro mouse shall be used within each classroom with proper USB extension hardware for the wireless receivers to reside at the instructor station for best signal reception and operation.
USB adapters for audio I/O shall be included as required for the multiple audio channels for Zoom integration.
Instructor Monitor: Dell 24” Interactive touch monitor # P2418HT.
Control System: Extron IPCP Pro 550.
Touch Panel: Extron TLP Pro 1025T Black. Provide with XTP PI 100 Power-over-Ethernet injector as required.
Control for projection screen to include up/down upon system startup & shut down. Control to include manual override for up/down during system on operation.
Control system to manage room combined/divided state.
Control to include separate microphone and program audio mute and level controls.
Control to include connection to fire alarm trigger to mute audio until signal is clear.
Extron MediaPort 200 connected to PC via USB and audio for interfacing to computer viewing and Zoom collaboration.
Mediasite 900 series lecture capture appliance with HDMI connections for camera and content.
Cameras: Sony PTZF HD BRC-H900 cameras with twisted-pair signal & control extension to equipment rack. Include RS-232 control for control system management. Include data LAN connection for secondary camera operation and management.
The instructor station shall be a 60” wide custom design from DWI Enterprises per the campus standard with provisions for a 14RU equipment rack with rear access for support.
All data cabling from the floor (or wall as required) shall be run into the instructor station equipment rack and be terminated on RJ45 patch panels for proper connection of networked edge devices (PC, control processor, wireless presentation appliance, etc.). The AV, power

and data cabling to the typical instructor station shall be bundled in black nylon mesh sock and will include an 8-10' service cable that permits flexibility in the desk position.
Middle Atlantic 44RU WR-44-32 pull-out rack with enclosure and seismic floor anchor brackets. Include front locking vented door. Include top cooling kit to accommodate proper active/forced cooling of internal equipment.
Middle Atlantic 2RU locking drawer #UD2 with #KYLK lock option.
Middle Atlantic 2RU clamping shelf for wireless mirroring devices.
Middle Atlantic 3RU clamping shelf for PCs.
Middle Atlantic power distribution unit (PDU) #PD-915R or approved equivalent.
Vertical 115VAC surge power strip mounted within rack for monitor & PC, etc.

Computer Lab / Testing Center:

3 Input Transmitter: Extron DTP T USW 233.
Cable Cubby: Extron Cable Cubby 300S with connection cables, Left/Right Cable Pass-Through and Blank AAPs as required.
Mersive Solstice Pod (non-enterprise model). Connect to data network and configure settings in conjunction with UCR IT Dept.
Wireless Microphone System: Shure QLXD124/85.
Document Camera: Wolfvision VZ8+.
Digital Presentation Switcher: Extron IN1608 IPCP.
HDMI TP Receiver: Extron DTP HDMI 230Rx.
Audio Amplifier (70V ceiling speakers): Extron XPA 1002-70 (or sized as required)
Audio Amplifier (8-ohm wall speakers): Extron XPA 1002 (or sized as required)
Video Projector: Panasonic PT-RZ660U 6000 ANSI lumens laser WUXGA resolution projector (coordinate standard lensing with ceiling elements) with BMS LOC-IV security enclosure and Premier Mount PDS-Plus ceiling mount (or equivalent). Provide with wireless networking module for wireless presentation connection. Projector to be white model where available.
Desktop Monitor Mount: Ergotron #45-241-026 articulating monitor mount.
Coordinate projector throw with projection screen image for proper lensing.
Dell OptiPlex 7050 small form factor with Intel Corei5-7500 processor and 8GB 2x4GB 2400MHz DDR4 Memory. Include 3.5 inch 500GB 7200rpm Hard Disk Drive, dual digital (DisplayPort, HDMI, etc.) video output and Windows 10 Pro 64-bit operating software. Include Dell P2418HT 24" 1920 x 1080 LCD touch-enabled monitor. Include Dell 2-year warranty.
Wireless keyboard and Gyration gyro mouse shall be used within each classroom with proper USB extension hardware for the wireless receivers to reside at the instructor station for best signal reception and operation.
USB adapters for audio I/O shall be included as required for the multiple audio channels for Zoom integration.
Instructor Monitor: Dell 24" Interactive touch monitor # P2418HT.
Control System: Extron IN1608 IPCP MA 70 (or pro-grade equivalent to accommodate controlled devices).
Touch Panel: Extron TLP Pro 1025T Black. Provide with XTP PI 100 Power-over-Ethernet injector as required.
Control for projection screen to include up/down upon system startup & shut down. Control to include manual override for up/down during system on operation.
Control to include separate microphone and program audio mute and level controls.
Control to include connection to fire alarm trigger to mute audio until signal is clear.
The instructor station shall be a 60" wide custom design from DWI Enterprises per the campus standard with provisions for a 14RU equipment rack with rear access for support.
All data cabling from the floor (or wall as required) shall be run into the instructor station equipment rack and be terminated on RJ45 patch panels for proper connection of networked edge devices (PC, control processor, wireless presentation appliance, etc.). The AV, power

and data cabling to the typical instructor station shall be bundled in black nylon mesh sock and will include an 8-10' service cable that permits flexibility in the desk position.
Middle Atlantic 14RU, RU as required to mount all equipment and must fit under height adjustable desk.
Middle Atlantic 2RU locking drawer #UD2 with #KYLK lock option.
Middle Atlantic 2RU clamping shelf for wireless mirroring device.
Middle Atlantic 3RU clamping shelf for PC.
Middle Atlantic power distribution unit (PDU) #PD-915R or approved equivalent.
Six-outlet 115VAC surge power strip mounted within rack for monitor & PC, etc.

Large Classroom:

3 Input Transmitter: Extron DTP T USW 233.
Cable Cubby: Extron Cable Cubby 300S with connection cables, Left/Right Cable Pass-Through and Blank AAPs as required.
Auxiliary Microphone Input Plate: 2-gang 3.5 deep box with white decorator faceplate. Include (2) XLR microphone connections.
Mersive Solstice Pod (non-enterprise model). Connect to data network and configure settings in conjunction with UCR IT Dept.
Wireless Microphone System: Shure QLXD124/85.
Document Camera: Wolfvision VZ8+.
Digital Presentation Switcher: Extron DTP CrossPoint 84 4K IPCP MA 70.
HDMI TP Receiver: Extron DTP HDMI 230Rx.
Audio Amplifier (70V ceiling speakers): Extron XPA 1002-70 (or sized as required)
Audio Amplifier (8-ohm wall speakers): Extron XPA 1002 (or sized as required)
Video Projector: Panasonic PT-RZ660U 6000 ANSI lumens laser WUXGA resolution projector (coordinate standard lensing with ceiling elements) with BMS LOC-IV security enclosure and Premier Mount PDS-Plus ceiling mount (or equivalent). Provide with wireless networking module for wireless presentation connection. Projector to be white model where available.
Desktop Monitor Mount: Ergotron #45-241-026 articulating monitor mount.
Coordinate projector throw with projection screen image for proper lensing.
Dell OptiPlex 7050 small form factor with Intel Corei5-7500 processor and 8GB 2x4GB 2400MHz DDR4 Memory. Include 3.5 inch 500GB 7200rpm Hard Disk Drive, dual digital (DisplayPort, HDMI, etc.) video output and Windows 10 Pro 64-bit operating software. Include Dell P2418HT 24" 1920 x 1080 LCD touch-enabled monitor. Include Dell 2-year warranty.
Wireless keyboard and Gyration gyro mouse shall be used within each classroom with proper USB extension hardware for the wireless receivers to reside at the instructor station for best signal reception and operation.
USB adapters for audio I/O shall be included as required for the multiple audio channels for Zoom integration.
Instructor Monitor: Dell 24" Interactive touch monitor # P2418HT.
Control System: Extron IN1608 IPCP MA 70 (or pro-grade equivalent to accommodate controlled devices).
Touch Panel: Extron TLP Pro 1025T Black. Provide with XTP PI 100 Power-over-Ethernet injector as required.
Control for projection screen to include up/down upon system startup & shut down. Control to include manual override for up/down during system on operation.
Control to include separate microphone and program audio mute and level controls.
Control to include connection to fire alarm trigger to mute audio until signal is clear.
The instructor station shall be a 60" wide custom design from DWI Enterprises per the campus standard with provisions for a 14RU equipment rack with rear access for support.
All data cabling from the floor (or wall as required) shall be run into the instructor station equipment rack and be terminated on RJ45 patch panels for proper connection of networked

edge devices (PC, control processor, wireless presentation appliance, etc.). The AV, power and data cabling to the typical instructor station shall be bundled in black nylon mesh sock and will include an 8-10' service cable that permits flexibility in the desk position.
Middle Atlantic 14RU, RU as required to mount all equipment and must fit under height adjustable desk.
Middle Atlantic 2RU locking drawer #UD2 with #KYLK lock option.
Middle Atlantic 2RU clamping shelf for wireless mirroring device.
Middle Atlantic 3RU clamping shelf for PC.
Middle Atlantic power distribution unit (PDU) #PD-915R or approved equivalent.
Six-outlet 115VAC surge power strip mounted within rack for monitor & PC, etc.

Multipurpose Room:

Wall Input Plates: 4-gang 3.5 deep box with white decorator faceplate. Include 2 Input Extron DTP T UWP 232D (white) wall transmitter. Include (2) XLR microphone connections.
Cable Cubby: Extron Cable Cubby 300S with connection cables, Left/Right Cable Pass-Through and Blank AAPs as required.
Mersive Solstice Pod (non-enterprise model). Connect to data network and configure settings in conjunction with UCR IT Dept.
Wireless Microphone System: (8) Shure QLXD124/85.
Wired Microphone: (2) Shure SM58 handheld wired microphone with 25' M-F XLR extension cable.
Digital Matrix Switcher: Extron XTP II Crosspoint 1600 including spare audio channels as needed for audio breakout to recording and audio amplifiers. Switcher to be sized as required for number of I/O plus expansion capability for growth.
HDMI TP Receiver: Extron DTP HDMI 230Rx.
DSP: Extron DMP 128 Plus C AT with DSP Software and Dante support (units bussed together as required for number of I/O plus expansion capability for growth.
Amplifier: Extron XPA 4002-70V.
Amplifier: Extron XPA 4002.
Video Projector: Panasonic PT-RZ970U 9000 ANSI lumens laser WUXGA resolution projector (coordinate standard lensing with ceiling elements) with BMS LOC-IV security enclosure and Premier Mount PDS-Plus ceiling mount (or equivalent). Provide with wireless networking module for wireless presentation connection. Projector to be white model where available.
Desktop Monitor Mount: Ergotron #45-241-026 articulating monitor mount.
Coordinate projector throw with projection screen image for proper lensing.
Two Dell OptiPlex 7050 small form factor with Intel Corei5-7500 processor and 8GB 2x4GB 2400MHz DDR4 Memory. Include 3.5 inch 500GB 7200rpm Hard Disk Drive, dual digital (DisplayPort, HDMI, etc.) video output and Windows 10 Pro 64-bit operating software. Include Dell 2-year warranty.
Two sets wireless keyboard and Gyration gyro mouse shall be used within each classroom with proper USB extension hardware for the wireless receivers to reside at the instructor station for best signal reception and operation.
USB adapters for audio I/O shall be included as required for the multiple audio channels for Zoom integration.
Control System: Extron IPCP Pro 550.
Touch Panel: Wall-mounted (one per room) Extron TLP Pro 1022M Black. Provide with XTP PI 100 Power-over-Ethernet injector as required.
Control for projection screen to include up/down upon system startup & shut down. Control to include manual override for up/down during system on operation.
Control system to manage room combined/divided state.
Control to include separate microphone and program audio mute and level controls.
Control to include connection to fire alarm trigger to mute audio until signal is clear.
Cameras: Infrastructure for future room cameras.

DWI Enterprises D10 podium (coordinate finish & veneer with Architect).
Middle Atlantic 44RU WR-44-32 pull-out rack with enclosure and seismic floor anchor brackets. Include front locking vented door. Include top cooling kit to accommodate proper active/forced cooling of internal equipment.
Middle Atlantic 2RU locking drawer #UD2 with #KYLK lock option.
Middle Atlantic 2RU clamping shelf for wireless mirroring devices.
Middle Atlantic 3RU clamping shelf for PCs.
Middle Atlantic power distribution unit (PDU) #PD-915R or approved equivalent.
Vertical 115VAC surge power strip mounted within rack for monitor & PC, etc.

Group Meeting Rooms:

3 Input Transmitter: Extron DTP T USW 233.
Cable Cubby: Extron Cable Cubby 300S with connection cables, Left/Right Cable Pass-Through and Blank AAPs as required.
Mersive Solstice Pod (non-enterprise model). Connect to data network and configure settings in conjunction with UCR IT Dept.
Digital Presentation Switcher: Extron IN1608 IPCP MA 70.
HDMI TP Receiver: Extron DTP HDMI 230Rx.
LG or Samsung LCD/LED display sized per condition but no less than 50" diagonal.
Include RS232 control capability, network port and a minimum of 2 HDMI ports.
Include tilt wall mount from Premier, Chief Manufacturing or Crimson AV – sized as required for display).
Dell OptiPlex 7050 small form factor with Intel Corei5-7500 processor and 8GB 2x4GB 2400MHz DDR4 Memory. Include 3.5 inch 500GB 7200rpm Hard Disk Drive, dual digital (DisplayPort, HDMI, etc.) video output and Windows 10 Pro 64-bit operating software. Include Dell 2-year warranty.
Wireless keyboard and Gyration gyro mouse shall be used within each classroom with proper USB extension hardware for the wireless receivers to reside at the instructor station for best signal reception and operation.
USB adapters for audio I/O shall be included as required for the multiple audio channels for Zoom integration.
Control System: Extron IN1608 IPCP MA 70 (or pro-grade equivalent to accommodate controlled devices).
Touch Panel: Extron TLP Pro 1022M Black. Provide with XTP PI 100 Power-over-Ethernet injector as required.
Control to include connection to fire alarm trigger to mute audio until signal is clear.
Middle Atlantic 12RU SRSR-2-12, RU as required to mount all equipment and must fit within room millwork. Include rear cooling kit to accommodate proper active/forced cooling of internal equipment. Include leveling feet to accommodate underside ventilation and cabling run into rack from bottom side. Coordinate prior to ordering with UCR for desk compatibility.
Middle Atlantic 2RU locking drawer #UD2 with #KYLK lock option.
Middle Atlantic 2RU clamping shelf for wireless mirroring device.
Middle Atlantic 3RU clamping shelf for PC.
Middle Atlantic power distribution unit (PDU) #PD-915R or approved equivalent.
Six-outlet 115VAC surge power strip mounted within rack for monitor & PC, etc.

Group Meeting Room (with Conferencing):

3 Input Transmitter: Extron DTP T USW 233.
Cable Cubby: Extron Cable Cubby 300S with connection cables, Left/Right Cable Pass-Through and Blank AAPs as required.
Mersive Solstice Pod (non-enterprise model). Connect to data network and configure settings in conjunction with UCR IT Dept.
Digital Presentation Switcher: Extron IN1608 IPCP MA 70.
HDMI TP Receiver: Extron DTP HDMI 230Rx.

LG or Samsung LCD/LED display sized per condition but no less than 50" diagonal.
Include RS232 control capability, network port and a minimum of 2 HDMI ports.
Include tilt wall mount from Premier, Chief Manufacturing or Crimson AV – sized as required for display).
Dell OptiPlex 7050 small form factor with Intel Corei5-7500 processor and 8GB 2x4GB 2400MHz DDR4 Memory. Include 3.5 inch 500GB 7200rpm Hard Disk Drive, dual digital (DisplayPort, HDMI, etc.) video output and Windows 10 Pro 64-bit operating software.
Include Dell 2-year warranty.
Wireless keyboard and Gyration gyro mouse shall be used within each classroom with proper USB extension hardware for the wireless receivers to reside at the instructor station for best signal reception and operation.
USB adapters for audio I/O shall be included as required for the multiple audio channels for Zoom integration.
System: Logitech GROUP video collaboration package with USB camera, tabletop USB microphone/speaker/dial-pad and remote camera control unit.
Connect to computer for Zoom web conferencing and configure on PC software.
Mount camera below display with wall bracket for best eye-level capture.
Control System: Extron IN1608 IPCP MA 70 (or pro-grade equivalent to accommodate controlled devices).
Touch Panel: Extron TLP Pro 1022M Black. Provide with XTP PI 100 Power-over-Ethernet injector as required.
Control to include connection to fire alarm trigger to mute audio until signal is clear.
Middle Atlantic 12RU SRSR-2-12, RU as required to mount all equipment and must fit within room millwork. Include rear cooling kit to accommodate proper active/forced cooling of internal equipment. Include leveling feet to accommodate underside ventilation and cabling run into rack from bottom side. Coordinate prior to ordering with UCR for desk compatibility.
Middle Atlantic 2RU locking drawer #UD2 with #KYLK lock option.
Middle Atlantic 2RU clamping shelf for wireless mirroring device.
Middle Atlantic 3RU clamping shelf for PC.
Middle Atlantic power distribution unit (PDU) #PD-915R or approved equivalent.
Six-outlet 115VAC surge power strip mounted within rack for monitor & PC, etc.

Group Study Areas:

3 Input Transmitter: Extron DTP T USW 233.
Mersive Solstice Pod (non-enterprise model). Connect to data network and configure settings in conjunction with UCR IT Dept.
HDMI TP Receiver: Extron DTP HDMI 230Rx.
LG or Samsung LCD/LED display sized per condition but no less than 50" diagonal.
Include RS232 control capability, network port and a minimum of 2 HDMI ports.
Include tilt wall mount from Premier, Chief Manufacturing or Crimson AV – sized as required for display).
Control Processor: Extron IPL Pro S1 mounted behind display and connected to data network.
Touch Panel: Wall-mounted Extron TLP Pro 320M Black. Provide with XTP PI 100 Power-over-Ethernet injector as required.

Student Lounge:

Custom Extron AAP-104 wall plate with (1) HDMI, (1) VGA + 3.5mm audio, composite video RCA and stereo audio (L/R) RCA connections. White in color.
Mersive Solstice Pod (non-enterprise model). Connect to data network and configure settings in conjunction with UCR IT Dept.
LG or Samsung LCD/LED display sized per condition but no less than 50" diagonal.
Include RS232 control capability, network port and a minimum of 2 HDMI ports, VGA, composite video and two stereo channels of discrete audio inputs.

Include tilt wall mount from Premier, Chief Manufacturing or Crimson AV – sized as required for display).
Control Processor: Extron IPL Pro S1 mounted behind display and connected to data network.
Touch Panel: Wall-mounted Extron TLP Pro 320M Black. Provide with XTP PI 100 Power-over-Ethernet injector as required.

Room Scheduling:

Wall mounted touch-enabled scheduling panels shall be included outside the main entrance door to the lecture halls, classrooms, and multipurpose rooms as well as each study room and group meeting room. These panels shall be used for the reservation and notification of room use indicating whether the room is available and reservable (green indicator side lights and display) or occupied or books by reservation (red indicator side lights and display). These shall be tied to the card access system for student and staff use during the reservation and room access process.
Control Processor: Extron IPL Pro S1 mounted behind display and connected to data network. Interface with Extron GlobalViewer room management server and software.
Touch Panel: Wall-mounted Extron 7" TouchLink TLS 725M (white). Include wall mount bracket. Power by Power-over-Ethernet from PoE enabled data switch from telcom room.
Software: Extron Room Agent™ scheduling software. Interface with UCR calendar system and MS Exchange as required in coordination with USC IT.

Room Management:

AV Remote Management System: Connect to existing Extron GlobalViewer™ Enterprise 2.0 server application for all new endpoints. Coordinate with UCR IT for server and network needs, as required to support the software. Provide all necessary program control hooks for all required transport controls and key operation parameters.
Software shall be used for room monitoring and remote control and operation of all audiovisual systems and for use in troubleshooting for user-requested remote assistance in operation.
Hooks for programming control use shall include (but not be limited to):

Projector state and input status including connectivity (LAN, Power). Projector run time for current state and total life run time. Projector temperature.
Peripheral device monitoring and connection, operating temperature and LAN/control connectivity.
Operational usage data for all system functions and peripheral devices for analytic purposes.
Remote web-based user interface for ease of parallel system operation for all individual systems.
Interfacing to Room Scheduling system.

SECTION 27 5100 – ASSISTIVE LISTENING SYSTEMS

PRODUCTS

Portable Systems: Provide a minimum of 6 complete portable systems.

Fixed/Permanent Systems: Provide one fixed system for each room with occupancy levels of 50 seats or greater as per ADA guidelines.

Portable Kit: Listen Technologies # LS-06-216 including charging case.

Fixed: Listen Technologies digital FM equipment kit #LS-55-216 for operation with the fixed voice reinforcement systems.

SECTION 27 5116 – MOUNTS

PRODUCTS

Ceiling Projector Mount: Premier Mounts model #PP-5A or approved equivalent.

Universal Projector Adapter: Premier Mounts model #PDS-PLUS-W or approved equivalent. White in color.

Projector Lock: BMS LOC IV. Keyed alike to campus master key. White in color.

Wall Monitor Mount, Medium: Premier AM-175.

Wall Monitor Mount, Large: Premier AM-300.

Accessories: Include white extension pole cut to length as needed with 45-degree bracing or Premier AST-series adjustable white extension kit. Include ceiling tile dress ring as required.

UCR | Planning, Design & Construction

Project Name: Student Success Center
Project Number: 950512
Addendum No. 1, January 18, 2018
Addendum No. 2, February 1, 2019
Addendum No. 5, February 14, 2019
Addendum No. 6, February 22, 2019
Addendum No. 8, March 1, 2019
Addendum No. 9, March 11, 2019
Addendum No. 10, March 18, 2019
Addendum No. 12, March 25, 2019
Addendum No. 13, March 28, 2019
Addendum No. 14, April 3, 2019
Addendum No. 16, April 19, 2019
Addendum No. 18, May 08, 2019
Addendum No. 20, May 31, 2019

UNIVERSITY FURNISHED INFORMATION

The following information is made available for the convenience of Proposers and is not a part of the Contract. The information is provided subject to the provisions of subparagraph 3.1.1 of the General Conditions.

Issued electronically on the "Request for Proposals" CD
(Located behind the first tab of this binder)

PREVAILING WAGES

General Prevailing Wage Determinations and information can be accessed at www.dir.ca.gov or by contacting University's principal Facility office.

DESCRIPTION

No.	Title:	Prepared by:	Date:
1.	**AS-BUILTS**		
A.	Fine Arts Seismic Facility	Fields Devereaux Architects & Engineers	April 27, 1998
B.	Physical Education Building	Arthur Froehlich, AIA, Architect	April 28, 1952
C.	Physical Education Building Room 102 Alterations for Dance	Cashion Horie Cocke Gonzales Architects, Inc. (CHCG)	June 1986
D.	CHASS-Instruction & Research Facility	PEI Cobb Freed & Partners	March 20, 2008
E.	Administration Building (Hinderaker)	Allison and Rible Architects	January 27, 1961
F.	Humanities and Social Sciences Unit 1	Cesar Pelli & Associates	August 10, 1993
G.	Classroom and Office Unit 1 (Sproul)	Douglas Honnold FAIA, John Rex, FAIA, Architects and Associates	June 2, 1965
H.	Student Academic Support Services Building	Sasaki	March 2009
2.	**UCR MOBILITY HUB AND CENTRAL CAMPUS LINKAGES**		
A.	UCR Mobility Hub and Central Campus Linkages – Scope 1 Report	Gruen Associates	December 21, 2017

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
B.	UCR Mobility Hub and Central Campus Linkages – Appendices	Gruen Associates	December 21, 2017
3.	**STUDENT SUCCESS CENTER VISIONING WORKSHOP**		
A.	UCR Student Success Center Visioning Workshop Capital Asset Strategies	Capital Planning	April 20, 2017
B.	UCR Student Success Visioning Workshop – Site Selection Study Handout	UCR Capital Planning	April 20, 2017
4.	**UCR 2005 LRDP AND AMENDMENTS**		
A.	Long Range Development Plan 2005	UCR Office of Academic Planning & Budget; Capital & Physical Planning with the assistance of: BMS Design Group	November 2005
B.	2005 Long Range Development Plan Amendment 2	UCR Finance & Business Operations Capital Resource Management	November 2001
C.	2005 LRDP Amendment 3 Campus Infrastructure Overlay Land Use Designation		September 2013
5.	**TOPOGRAPHIC SURVEY**		
	University of California, Riverside Student Success Center Topographic Survey	IMEG	July 13, 2018
6.	**GEOTECHNICAL REPORTS**		
A.	Proposed Student Success Center UCR Project No. 958056	Twining	December 17, 2018
B.	Geotechnical Engineering Evaluation Report Pierce Hall Classroom Addition and Building Renovation Project	Twining	July 8, 2016

DESCRIPTION

No.	Title:	Prepared by:	Date:
D.	Geotechnical Investigation Proposed Interdisciplinary Studies Building Riverside Campus		
E	Geotechnical Observation of Grading and Field Density Test Results Report Proposed College of Humanities Arts and Social Sciences (CHASS) Buildings – Instruction & Research Facility	Converse Consultants	September 21, 2006
7.	**PHYSICAL DESIGN FRAMEWORK**		
	Physical Design Framework		2009/10 – 2018/2019
8.	**UC BOARD OF REGENTS**		
	Regents Policy 4400: Policy on University of California Diversity Statement	University of California Board of Regents	Adopted September 20, 2007 Amended September 16, 2010
9.	**STUDENT SUCCESS CENTER CLASSROOM COMPONENT SUMMARY OF FEEDBACK**		
	Student Success Center Classroom Component Summary of Campus Feedback	UCR Office of the Provost and Executive Vice Chancellor	May 2017
10.	**STUDENT SUCCESS CENTER SITE SELECTION STUDY**		
	Site Selection Study Student Success Center Building	UCR Capital Asset Strategies	June 16, 2017
11.	**UC SUSTAINABLE PRACTICES POLICY**		
	UC Policy on Sustainable Practices	University of California	Issuance Date: July 1, 2004 Effective Date: August 10, 2018

DESCRIPTION

No.	Title:	Prepared by:	Date:
12.	**UCR CAMPUS PROCESS: GENDER INCLUSIVE FACILITIES 2015**		
	UCR Campus Process: Gender Inclusive Facilities 2015	Associate Vice Chancellor / Campus Architect Architect & Engineers	November 1, 2015
13.	**UCR CENTRAL CAMPUS NEIGHBORHOOD STUDY**		
	UCR Central Campus Neighborhood Study	HKS Spurlock	April 12, 2017
14.	**UCR PHYSICAL MASTER PLAN STUDY**		
	UCR Physical Master Plan Study		May 17, 2016
15.	**UCR PRINCIPLES OF COMMUNITY**		
	UCR Principles of Community		
16.	**UCR DINING SERVICES**		
	Warm Shell Tenant Improvement Space Guideline	UCR Dining Services	March 16, 2018
17.	**UCR RIVERSIDE SITE FEASIBILITY REPORT**		
	UCR Site Feasibility Report	Steinberg Hart	January 2018
18.	**UTILITY MAPS**		
A..	Student Success Center 100 PSI Air Controls Approximate Locations (Draft)		10/9/18
B.	Student Success Center 100 PSI Steam Controls Approximate Locations (Draft)		10/9/18

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
C.	Student Success Center Chilled Water Line Approximate Locations (Draft)		10/8/18
D.	Student Success Center Natural Gas Line Approximate Locations (Draft)		10/8/18
E.	Student Success Center Storm Drain Manholes (Surveyed – 2014) Storm Drain Line (Approximate Locations) (Draft)		10/8/18
F.	Student Success Center Existing Electric Distribution (Draft)		10/9/18
19.	**DAART ENGINEERING FLOW TEST**		
	Daart Engineering Flow Test UCR Student Success Center		6/7/18
20.	**UCR CAMPUS STANDARDS - DRAFT**		
	Div. 3 – Concrete		Revised April 17, 2018
	Div. 4 - Masonry		January 14, 2018
	Div. 5 – Metal		January 14, 2018
	Div. 6 – Wood, Plastics and Composite		January 18, 2018
	Div. 7 – Thermal and Moisture Protection		January 14, 2018
	Div. 8 – Openings		Revised March 21, 2018
	Div. 9 – Finishes		January 14, 2018
	Div. 10 - Specialties		March 12, 2018
	Div. 11 – Equipment		Revised April 15, 2018
	Div. 12 – Furnishings		November 30, 2015
	Div. 13 – Special Construction		January 14, 2018

DESCRIPTION

No.	Title:	Prepared by:	Date:
	Div. 14 – Conveying Systems		January 14, 2018
	Div. 15 – Operation and Maintenance Manuals		
	Div. 21 – Fire Suppression		Revised April 25, 2018
	Div. 22 – Plumbing		Revised April 17, 2018
	Div. 23 – HVAC		March 28, 2018
	Div. 25 – Integrated Automation		Revised March 13, 2018
	Div. 26 - Electrical		January 24, 2018
	Div. 27 – Communications		January 24, 2018
	Div. 28 – Electronic Safety and Security		January 24, 2018
	Div. 31 – Site Work		January 2016
	Div. 32 – Exterior Improvements		March 2016
	Div. 33 – Site Utilities		January 2018

21. SEWER CAPACITY STUDY

	UC Riverside Physical Master Plan Study Appendix 6.8-A Sanitary Sewer Calculations	

22. UCR 2020 - FINAL

	UCR 2020 The Path to Preeminence	July 2010

23. UCR LANDSCAPE SERVICES DEPT. LANDSCAPE- IRRIGATION GUIDELINES 2012

	UCR Landscape Services Dept. Landscape-Irrigation Guidelines 2012	2012

No.	DESCRIPTION Title:	Prepared by:	Date:
24.	**TREE INVENTORY REPORT**		
	Tree Inventory Report University of California, Riverside Student Success Center Project	Tricia D. Thrasher University of California, Riverside Campus Planning Capital Asset Strategies Psomas	May 9, 2018
25.	**IMPLEMENTATION OF UC GENDER INCLUSIVE FACILITIES POLICY AT UC RIVERSIDE - MEMO**		
	Implementation of UC Gender Inclusive Facilities Policy at UC Riverside - Memo	To: Gerry Bomotti, Vice Chancellor, Planning and Budget From: Jacqueline Norman, Campus Architect & Robert Keith Williams, Certified Building Official	September 18, 2018
26.	**UCR CAMPUS CONTEXT**		
	UCR Campus Context (Exemplary Examples / Non-Exemplary Examples	UCR Planning Design & Construction	2019
27.	**WEPA LOW PRINT STATION SPECIFICATIONS**		
	WEPA Low Profile Print Station Specifications	WEPA	
28.	**LAPTOP KIOSK CONFIGURATION**		
	Laptop Kiosk Configuration	Laptops Anytime	
29.	**UCR CAMPUS V2018 UPDATES CADD DRAWINGS AND SUPPORTING DOUMENTATION**		
A.	UCR Campus v2018 Update Auto CADD Drawings		

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
B.	University California, Riverside Aerial Target Ground Control Survey Report Job #2011018.003		March 2015
C.	UCR Campus Control Survey – Sheet 1 of 2	Hillwig – Goodrow, Inc.	December 2013
D.	UCR Campus Control Survey – Sheet 2 of 2	Hillwig – Goodrow, Inc.	December 2013
E.	UCR Data Delivery Standards for UCR Planning, & Design Projects Capital Programs		March 13, 2015
F.	UCR Horizontal and Vertical Accuracy of Campus Spatial Data (GIS) (Memorandum)		May 22, 2013
G.	UC Riverside Campus Control Points	Hillwig – Goodrow, Inc.	December 2013
H.	UCR Campusv2017 Updates	UCR	July 2017
30.	**MOBILITY HUB AND CENTRAL CAMPUS LINKAGES**		
	Mobility Hub and Central Campus Linkages – 100% Construction Document Bid Set	Gruen Associates	January 10, 2019
31.	**BICYCLE MASTER PLAN EXCERPT**		
	Bicycle Master Plan Excerpt		
32.	**TOPO SURVEY CAD DRAWINGS**		
	TOPO Survey CAD Drawings		July 30, 2018

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
33.	**CAMPUS COMMUNICATIONS DRAWINGS**		
A.	Typical BDF Wall Elevation Layout – Rack Power - Plan & Elevation	UCR	
B.	Typical Details – Communications Symbols and Telephone/Data Subscript Schedule	UCR	
C.	Typical Details – Details A through F	UCR	
D.	Typical Details – Typical 3 Data Rack BDF and IDF Front Elevation Views	UCR	
E.	Typical Details – Typical BDF and IDF Telecom Room Requirements	UCR	
F.	Typical Details – Work Station Outlet Labeling Detail and Patch Panel / 110 Block Labeling Plan	UCR	
34.	**UCR POLICIES, GUIDELINES & STANDARDS**		
A.	Communications Infrastructure Planning Guidelines Version – November 23, 2015	UCR	November 23, 2015
B.	PPSM 84: Accommodations for Nursing Mothers	University of California	December 10, 2018
C.	UCR Healthy Campus Initiative Healthy Workplace Checklist		
D.	UCR Building, Room Numbering Standards	Facilities Management	October 2006

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
35.	**UCR CAMPUS ELECTRICAL DRAWINGS AND DIAGRAMS**		
A.	UCR Site Electrical Distribution 12 kv Single Line Diagram (E-2, 1 of 3)	UCR	October 19, 2015
B.	UCR Site Electrical Distribution Combined Diagrams (E-2, E2.1 & E2.2)	UCR	October 19, 2015
C.	UCR Site Electrical Distribution Parking Lot 30 Substation 4.16 kv Single Line Diagram (E2.1, 2 of 3)	UCR	October 19, 2015
D.	UCR Site Electrical Distribution Steam Plant 4.16 kv Single Line Diagram (E2.2, 3 of 3)	UCR	October 19, 2015
E.	UCR Existing Electrical Site Plan 2015 Partial UCR Campus Map Electrical Distribution (E-4, 1 of 1)	UCR	October 14, 2019
36.	**UC RIVERSIDE CAMPUS SIGN PROGRAM**		
A.	UC Riverside Campus Sign Program, 100% Package	Hunt Design	August 3, 2012
37.	**UC RIVERSIDE BUDGET PLANNING DOCUMENT**		
A.	UC Riverside Budget Planning Document for Network Electronics Student Success Center 100% Description Design & Criteria	UC Riverside Computing and Communications	May 30, 2018

No.	DESCRIPTION Title:	Prepared by:	Date:
38.	**UCR TUNNEL AND VAULT DRAWINGS**		
A.	Tunnel, Vault & Bldg. Map Chilled Water System High Pressure Condensate Pumped Condensate 100 PSI Steam 100 PSI Compressed Air Natural Gas	UC Riverside	October 2016 March 2012 May 2012 May 2012 May 2012 May 2012 May 2012
39.	**DINING SERVICES VENUE: CONCEPT PLAN**		
A.	UC Riverside Student Success Center Dining Services Venue: Concept Plan Project Number: 950512		
40.	**UCR NORTH DISTRICT DINING DRAWINGS**		
A.	UCR Food Lab North District Riverside, CA (Drawings K-01, K-02 & K-02.1)	Clay Enterprises	January 17, 2019
41.	**WALKER MACY UCR PLANT LIST REVIEW**		
A.	Walker Macy UCR Plant List Review		
42.	**BENCHMARK-BASED, WHOLE-BUILDING ENERGY PERFORMANCE TARGETS FOR UC BUILDINGS**		
A.	Benchmark-based, Whole-Building Energy Performance Targets for UC Buildings	California Institute for Energy and Environment	March 2014

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
43.	**DESIGN HANDBOOK FOR LOW IMPACT DEVELOPMENT – BEST MANAGEMENT PRACTICES**		
A.	Design Handbook for Low Impact Development Best Management Practices	Riverside County Flood Control and Water Conservation District	September 2011
44.	**EFFICIENCIES AND EQUIPMENT INFORMATION**		
A.	2018 Steam Plant	UCR	January 2018 – December 2018
B.	Central Plant Efficiencies	UCR	
C.	Steam Plant Equipment	UCR	
45.	**EXTERIOR LIGHTING – LIGHT POLE EXHIBIT**		
A.	Student Success Center LW1 Exterior Lighting – Light Pole Exhibit Project No. 950512	Selux	
46.	**UCR EMERGENCY PHONE**		
A.	Code Blue – CB 5-s Product Sheet	Code Blue	
47.	**UCR EAST CAMPUS ELECTRICAL DISTRIBUTION SYSTEM REVIEW**		
A.	University of California, Riverside East Campus Electrical Distribution System Review	P2S	October 31, 2011

UCR | Planning, Design & Construction

Project Name: Student Success Center
Project Number: 950512
Addendum No. 1, January 18, 2018
Addendum No. 2, February 1, 2019
Addendum No. 5, February 14, 2019
Addendum No. 6, February 22, 2019
Addendum No. 8, March 1, 2019
Addendum No. 9, March 11, 2019
Addendum No. 10, March 18, 2019
Addendum No. 12, March 25, 2019
Addendum No. 13, March 28, 2019
Addendum No. 14, April 3, 2019
Addendum No. 16, April 19, 2019
Addendum No. 18, May 08, 2019
Addendum No. 20, May 31, 2019

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
48.	**CAMPUS UTILITY SURVEY 2014**		
A.	Utility Diagrams		
	1. Electrical		
	2. Storm		
	3. Campus Utility Survey Zone Map Draft		
B.	Utility Survey 2015		
	1. Survey Electrical		
	2. Survey Sewer		
	3. Survey Storm		
	4. Control Points Dec. 2013		
C.	Data Delivery Standards for UCR Planning & Design Project, Capital Projects		March 13, 2015
49.	**ITS TUBE DRAWINGS**		
A.	ITS Tube Drawings		
50.	**IRRIGATION DIAGRAMS**		
A.	Student Success Center 950512 Irrigation Diagrams		

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
51.	**COST ESTIMATES**		
A.	University of California, Riverside Riverside, California Student Success Center Programming Estimate	Campbell-Anderson & Associates, Inc.	August 6, 2018
B.	Program Cost Model University of California, Riverside Student Success Center Riverside, California	RLB / Rider Levett Bucknall	August 6, 2018
C.	Expected Design Build Costs UCR Student Success Center ROM	Abbott Construction	September 13, 2018
52.	**UCR PHYSICAL MASTER PLAN STUDY**		
A.	UC Riverside Physical Master Plan Study Appendix 6.8-A Sanitary Sewer Calculation		
53.	**LECTURE HALL FURNITURE PRODUCTS**		
A.	M-Series: Lecture Hall Furniture	Sedia Systems Inc.	2017
B.	Beam and Jury-Series	Sedia Systems Inc.	2017
54.	**UNMANNED AIRCRAFT SYSTEMS- INSURANCE REQUIREMENTS**		
A.	University of California UAS Liability Insurance and 3rd Party Minimum	University of California- Center for Excellence	August 2, 2016
55.	***BASELINE CEQA ASSUMPTIONS***		
A.	***Baseline CEQA Assumptions***	***University of California, Riverside***	

BASELINE CEQA ASSUMPTIONS

Addendum No. 20, May 31, 2019

STUDENT SUCCESS CENTER

PROJECT NUMBER_950512

Assumption	Quantity
Gross Square Footage (Sqft)	70,000
Building Footprint (Sqft)	35,200
Tree Demo	As identified Tree Demo Plan- Section 4.51 of the Project Program and Design Criteria
Utility Consumption- Electricity	3,418,528 KWH per year
Utility Consumption- Outdoor Water Use	239,951 Gal/ Year
Utility Consumption- Indoor Water Use	202,500 Gal/ Year
Title 24 Energy Performance	The building will outperform Title 24 energy requirements by 20%
Construction Schedule	637 Calendar Days
Demo Period	20 Work Days
Hardscape to be demolished (Sqft)	21,075
Landscape to be Demolished (Sqft)	52,637
Alternates (Demo)- Athletics and Dance Court	5,200
Alternates (Demo)- Student Services Court	3,300
Southern Fire Lane Demolition (Sqft)	6,000
Demolition Material	7-8 Tons (70-80 Cubic yards per week for 12 months)
Solid Waste	400 to 425 Tons
Truck Trips (Demolition Waste)	51 Haul Truck Trips based on 519 Tons of Landscape and Hardscape debris
Site Preparation	3 work days
Limits of work and fence boundaries	As identified in SK-1 Division 1 1000_Summary
Estimated Depth of Excavation	Estimated to be 5'
Cut-Fill Amounts	Estimated to be a balanced site
Grading Period	2 weeks
Grading Area (Sqft)	35,200
Maximum acres to be graded daily	0.5 Acres
Import/ Export of Soil	Approximately 2,000-3,000 cubic yards Import- Negligible Export
Soil Transport Distance (One Way)	12 Miles
Truck Haul	375 One Way Truck Hauls based on 3000 cy of export material

BASELINE CEQA ASSUMPTIONS

Addendum No. 20, May 31, 2019

STUDENT SUCCESS CENTER

PROJECT NUMBER_950512

Assumption	Quantity
Soil Stockpile (Duration)	Max. 2 Months
Construction workers- during grading	10-18 persons
Underground infrastructure construction duration	60 working days
Areas to be paved (Sqft)	18,000
Paving Duration	12 weeks
Architectural Coatings Painting Duration	4 weeks
Exterior Painting	70% Maximum
Low/ Zero VOC Paint	Design to comply with SCAQMD Low VOC Rules
Routing of Emergency Access During Construction	Per SK-1- Division 1 1000_Summary