ADDENDUM NO. 5

January 29, 2021

REQUEST FOR PROPOSALS
(BID DOCUMENTS)

FOR

STUDENT HEALTHD AND COUNSELING CENTER
PROJECT NO. 950578

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. 00 0110 TABLE OF CONTENTS

Delete "00 0110 Table of Contents" and replace with the one issued in this Addendum.

2. DIVISION 1 SPECIFICATIONS

a. **Delete** Specification "01 1400 Design Builders Use of The Project Site and **replace** with the one issued in this Addendum.
b. **Add** Specification "01 3540 Environmental Mitigation".
c. **Delete** Specification "01 4000 Regulatory Requirements" and **replace** with the one issued in this Addendum.
d. **Delete** Specification "01 4100 Regulatory Requirements" and **replace** with the one issued in this Addendum.

3. UNIVERSITY FURNISHED INFORMATION

Delete the "University Furnished Information" and replace with the one issued in this addendum.
a. **Add** 17. Preliminary Tree Replacement Memo, dated 1/13/2021.

4. REQUEST FOR INFORMATION QUESTIONS

RFI NO.	QUESTIONS AND ANSWERS
45	**Question:** Setbacks: Can any elements of the buildings (i.e.: sunshades and canopies, trash enclosure, etc.) project into the setbacks? **Answer:** The University does not have formal setback requirements, nor is it required to follow City of Riverside standards. The north face and west face of the SHCC building are required to meet the basis-of-design requirements. It is acceptable for sunshades and canopies to project out within reason and will be evaluated in direct response to the proposed design.
46	**Question:** Scope of Work-Section 2.3.3.3 requires (minimum 8 renderings) color renderer perspectives between existing buildings and School of Medicine Building- Please clarify which Medicine Building you are referring to. Are these perspective in addition to the (5) renderings required in the Technical Proposal? **Answer:** Please provide minimum of 5 renderings that illustrate architectural design, the relationships between the adjacent buildings and Student Health & Counseling Center. These renderings may also be used in the Technical Proposal. Please disregard the reference to the School of Medicine Building as this was an error.
47	**Question:** Program-Three triage rooms are included in the program, are they intended as one for each clinic or are they all for the urgent care clinic? **Answer:** Triage is used to determine the type and level of care patients need. Urgent care patients need medical attention immediately (fracture, etc.) therefore triage is not needed in Urgent Care.

RFI NO.	QUESTIONS AND ANSWERS
48	**Question:** Civil: Is a fire access lane required along the eastern side of the project site for Pentland Hall if it is not required for the Student Health Center? **Answer:** The development of this project is not to impede the fire access lane to Pentland Hills as required per CFC Chapter 5 sections 501, 503 – 510.
49	**Question:** HVAC: Spec section 236426.13: Air Cooled Rotary-Screw Chillers 1. Can the chiller be water cooled to meet the LEED and Title 24 desirables? 2. Is there a preferred Campus manufacturer? **Answer:** Water cooled is consistent with Campus Standards. The University Facilities Services Department has a service agreement with Trane for chillers.
50	**Question:** HVAC: Spec section 237343.16: Outdoor Semi-Custom Air Handling Units. 1. Can fan wall technology be used? **Answer:** Fan wall technology is consistent with Campus Standards. Given the close proximity to adjacent residence halls, noise generation of the units needs to be considered in the design.
51	**Question:** Budget 1. The budget for the project notes an approval process. When and how is the budget approved for the project? Is there any risk that the project would not be approved and moved forward? 2. How long ago was the budget established for this project? **Answer:** The MAC was established and approved by campus during the development of the Basis of Design in 2020. Authorization for Phase 2&3 NTP is contingent upon approval of the budget financing, final design and CEQA determination. This is an administrative action and is not presently considered a risk to the schedule.

RFI NO.	QUESTIONS AND ANSWERS
52	**Question:** Sustainability 1. Does the university participate in a demand response program or does it plan to in the future? 2. 10% reduction in embodied carbon and a maximum carbon footprint of 500 kgCO2e/m2 is specified. Please provide the benchmark from which a 10% reduction is calculated. **Answer:** a**.** The University does not currently participate in a demand response program. b. There is no benchmark. Because there are currently no existing LEED approved databases of LCA results to provide baseline performance, design teams must establish and model their own baseline for comparison.
53	**Question:** Is future expansion to the East, or is the South possible as well? **Answer:** Future east expansion is possible. Campus would not plan an expansion to the south.
54	**Question:** Can staff break rooms be joined, or should we provide 1 at each floor? **Answer:** The BOD specifies two separate breakrooms at 200 ASF each.
55	**Question:** Please clarify the type, width, length and height of delivery trucks for service and material handling that will be parked at the service dock. **Answer:** The largest truck that will make deliveries to the receiving area is 40' long x 11.5' high.
56	**Question:** Please provide some clarification on the operational intent of the three triage rooms: - Should they operate as a separate entity from the clinic or should they be integrated into the clinic? - If they should be part of clinic, which clinic do they belong to? - Is the preference for all three triage rooms to be in one pod or one triage room per pod? **Answer:** The three triage rooms shall not operate as a separate entity. All three triage rooms shall be integrated into the Primary Care Clinic. The Urgent Care clinic does not require triage.
57	**Question:** Is the clinic reception intended to be the building reception as well? **Answer:** Yes, the clinic reception will also function as building reception.
58	**Question:** The RFP references flexibility in the building for future expansion. Have the future needs been identified? If so, what programs are expected to grow? **Answer:** No, future needs have not been identified for a future expansion.

RFI NO.	QUESTIONS AND ANSWERS
59	**Question:** Is it preferable to isolate the second floor office environments (CAPS and HAPSS/Admin/QA) into separate office suites or can they share a common atmosphere? **Answer:** It is required to separate CAPS from HAPSS/ Admin and QA per the CAPS adjacency diagram on page 37 of the BOD.
60	**Question:** There is currently a drop-off area at the NE corner of the Dundee complex in parking lot 21. Is there a desire to maintain a turn-around at this location for cars? **Answer:** No, a turn-around is not required.
61	**Question:** Are Revit models for room templates available for the design teams' use? **Answer:** No, Revit models are not available.
62	**Question:** Are excel files available for the list of equipment? **Answer:** No, excel files of the equipment list are not available.
63	**Question:** Are excel files available for the room data sheets? **Answer:** No, excel files for the room data sheets are not available.
64	**Question:** Please acknowledge that planning diagrams on pages 13-18 of BOD as well as on pages 286-7 show diagrammatic plans which extends the buildable area eastward by 30' contradicts and deviates from allowable project site and building footprint area described on page 12 of BOD. **Answer:** The diagrams shown in the BOD are diagrammatic and are used to show spatial relationships only. The extents of the project site area should be adhered to as illustrated on the Allowable Project Site and Building Footprint Areas Plan on page 12 of the BOD.
65	**Question:** Basis of Design section 10.0 Mechanical Systems references feasibility studies for Solar Photovoltaics (PV) and Solar Thermal Hot Water Heating ((SHW) that shall be provided by the Design-Build team. It is not clear if these feasibility studies are required as part of the Technical Proposal submission or after the project has been awarded, please clarify. **Answer:** Solar Photovoltaics: Provide feasibility study as part of the technical proposal. Solar Thermal Hot Water: If the Design-Build Teams incorporate SHW as part of their Sustainability Strategies, feasibility study shall be provided to the University for approval as part of technical proposal.
66	**Question:** Please confirm that Lot 21 will be shared by residents of Pentland Hills and the new SHCC. **Answer:** Yes, Parking lot 21 will be shared by residents of Pentland Hills and patients of the new SHCC.
67	**Question:** Do we have the flexibility to locate the psychiatry office/exam rooms with the counseling or is it required to be located with the Student Health clinic? **Answer:** Per BOD, Psychiatry shall be located within Student Health Primary Care Clinic but within close proximity to the CAPS.

RFI NO.	QUESTIONS AND ANSWERS
68	**Question:** The triage rooms are programmed with the registration and lobby spaces. Can you please confirm if we should we assume 1 triage per pod, or should they be all with UC, or are they located in the lobby adjacent to registration? Also, can you please confirm who is triaging patients? **Answer:** All three triage rooms shall be located in the Primary Care Clinic. They are not needed in the Urgent Care Clinic. They should be close to the entrance of the Primary care clinic between the reception area and patient rooms. Nurses will be triaging patients.
69	**Question:** The space program does not indicate for vitals alcove or scale alcoves. Can you please clarify if these activities are happening in the exam rooms? **Answer:** The program requires two “equipment alcoves” containing scales, EKG Machines, BP/ Thermometer equipment where vitals will be taken. Please see page 50 for the Student Health program and page 98-99 of BOD for room data sheets.
70	**Question:** If we are able to include the admin hoteling enhancement in our building, what program should it be associated with? Is the priority adjacency student health or HAPPS/QA? **Answer:** Per the BOD, the hoteling office space enhancement is associated with Admin/ HAPSS/ Quality Assurance Offices.
71	**Question:** For efficient use of the space, can you please clarify if sliding doors for exam rooms are acceptable? **Answer:** Sliding doors are acceptable.
72	**Question:** BOD section 10.10 (URGENT CARE HEALTH SERVICES CLINIC 1 AND ASSOCIATED WAITING/RECEPTION AREAS) notes that "The spaces will be designed as a negative pressure zone." BOD section 17.0 ALTERNATES, Alternate 4, bullet point 1 states that the alternate is "Increased area of negative pressure from one exam room (140 SF) to the ‘Infectious zone’ area with 6-8 exam rooms (660 to 880 SF), which are all negative pressure isolation rooms Section 10.10 implies that everything in the urgent care pod is negative pressure, but section 17.0 implies that only one exam room is to be negative pressure and the alternate is to add the other exam rooms. Please clarify if the intent of section 10.10 is that only 1 exam room is to receive negative pressure. **Answer:** The Base bid shall include one negative pressure exam room. Alternate 4 adds negative pressure to the other 6 to 8 exam rooms.
73	**Question:** BOD section 5 (Acoustics) Table 2 shows STC criteria that are more robust and would be more expensive to construct than the STC ratings required by chapter 12 of the California Building Code(2019 CBC Table 1224.4.19). Please clarify if the final STC criteria can be reduced to comply with the requirements of chapter 12. **Answer:** No.
74	**Question:** Page 243 section 12.2 – “All floor standing electrical equipment shall be mounted on 64” concrete housekeeping pad”. Is the pad height intended to be 4” AFF? **Answer:** 4 inches.

RFI NO.	QUESTIONS AND ANSWERS
75	**Question:** Is future expansion to the East, or is the South possible as well? **Answer:** Future east expansion is possible. Campus would not plan an expansion to the south.
76	**Question:** Can staff break rooms be joined, or should we provide 1 at each floor? **Answer:** Two separate break rooms are required per the BOD**.**

END OF ADDENDUM

DOCUMENT 00 0110 – TABLE OF CONTENTS

DIVISION 01 – GENERAL REQUIREMENTS

SECTION 01 1400 – DESIGN BUILDER'S USE OF THE PROJECT SITE

PART 1 - GENERAL

1.1 USE OF PUBLIC THOROUGHFARES AND UNIVERSITY ROADS

A. Design Builder shall make its own investigation of the condition of available public thoroughfares and University roads, and of the clearances, restrictions, bridge load limits, and other limitations affecting transportation and ingress and egress at the Project site.

B. Where materials are transported in the prosecution of the Work, do not load vehicles beyond the capacity recommended by manufacturer of the vehicles or prescribed by any applicable state or local law or regulation.

C. Use only established roads on the campus; provided, however, that such temporary haul roads as may be required in the Work shall be constructed and maintained by Design Builder, subject to the approval of University's Representative. Refer to Division 01 Sections, "Environmental Mitigation" and "Construction Waste Management" for descriptions of the Design Builder's requirements for providing an approved haul route plan to and from the campus.

D. Provide protection against damage whenever it is necessary to cross existing sidewalks, curbs, and gutters in entering upon the University roads and public thoroughfares. Repair and make good immediately at the expense of Design Builder all damages thereto, including damage to existing utilities and paving, arising from the operations under the Contract.

E. ***Contractor shall maintain all existing campus roads, streets, sidewalks, curbs, gutters, and any other infrastructure items that are affected by campus construction activities, clear, clean and maintained while construction is ongoing on campus.***

F. Truck staging is not allowed on campus or on any residential street surrounding the campus.

1.2 WATCHPERSON'S SERVICES

A. The University will not be providing security services for the Project.

B. During all hours that Work is not being prosecuted including weekends and holidays, furnish such watch person's services as Design Builder may consider necessary to safeguard materials and equipment in storage on the Project site, including Work in place or in process of fabrication, against theft, acts of malicious mischief, vandalism, and other losses or damages.

C. The University will not be liable for any loss or damage.

1.3 SERVICE CONTINUITY

A. Within the areas of the Work, investigate and uncover all drainage lines, sewers, electrical ducts, and other piping in use or forming continuations or utility systems required for other buildings or improvements upon the campus, and maintain such services in operation during performance of the Work of the Contract.

B. Maintain continuous services to all existing facilities during the period of construction except for the following conditions:

1. Perform Work that involves "shut-down" of existing facilities at such times as will cause the least inconvenience to the University activities, performing at night, on Saturdays, Sundays, holidays and at the discretion of University's Representative. Furnish University's Representative written notice of exact date and time of "shut-down" at least thirty (30) working days in advance unless a longer period is specified or agreed upon by the University. On jobs with short performance time, Design Builder shall verify with University's Representative the number of days required in advance for shutdown.
2. The Design Builder shall include in the base bid all costs related to overtime necessary for the Work. No extra payment will be allowed for overtime to meet this requirement or the Contract Schedule.

1.4 SITE DECORUM

A. Design Builder shall control the conduct of its employees (including subcontractor's employees) so as to prevent unwanted interaction initiated by Design Builder's employees with University of California, Riverside (UCR) students, UCR staff, UCR Faculty or other individuals (except those associated with the Project), adjacent to the Project site. Without limitation, unwanted interaction by Design Builder employees would include whistling at or initiating conversations with passersby. In the event that any Design Builder employee initiates such unwanted interaction, or utilizes profanity, Design Builder shall, either upon request of University's Representative or on its own initiative, replace said employee with another of equivalent technical skill, at no additional cost to the University.

B. No recreational/music radio sounds, other than two-way communication type, shall be audible outside the physical structure under construction.

C. No smoking is allowed on the UCR Campus.

1.5 STORAGE

A. Design Builder's use of the Project site for the Work and storage is restricted to the areas required for the performance of the Contract or as approved by University's Representative.

1.6 TEMPORARY STAIRS, SCAFFOLD AND RUNWAYS

A. Provide all scaffolds, stairs, hoist plant, runways, platforms, and similar temporary construction as may be necessary for the performance of the Contract. Such facilities shall be of the type and arrangement as required for their specific use, substantially constructed throughout and strongly supported, well secured and complying with all applicable rules and regulations of the Industrial Accident Commission of the State of California and all applicable laws and ordinances. Refer to Division 01 Section, “Regulatory Requirements”.

B. Arrange for construction equipment access to areas which may be partly blocked by existing obstructions.

1.7 CONTROL OF CONSTRUCTION WATER

A. Provide impermeable floor coverings and suitable dams to prevent damage by water used for the Work. Immediately clean up and remove all surplus water and water spilled in non-working areas. Do not allow water to overflow gutters, flood streets or parking lots.

1.8 DUST CONTROL, AIR POLLUTION AND ODOR CONTROL

A. The Design Builder shall employ measures to prevent the creation of dust, air pollution and odors.

1. Unpaved areas where vehicles are operated shall be periodically wetted down or given an equivalent form of treatment as defined in South Coast Air Quality Management District (SCAQMD) Rule 403 to eliminate dust formation.
2. All volatile liquids including fuels or solvents shall be stored in closed containers.
3. No open burning of debris, lumber or other scrap will be permitted.
4. Equipment shall be maintained in a manner to reduce gaseous emission.
5. Low sulfur fuel shall be used for construction equipment.
6. Stockpiles of excavated materials shall be protected and covered with material to prevent airborne transmission.
7. Design Builder shall provide street sweeping whenever silt from construction site is carried over to adjacent streets.

1.9 NOISE CONTROL

A. Noise control shall be maintained by the Design Builder in all areas of construction, guarding against any undue noise which may impair proper use of adjacent facilities. Activities with the highest noise potential shall be scheduled for times when background ambient noise levels are highest (i.e., during peak commute hours). Design Builder shall use noise suppressed equipment available and/or shall muffle/control noise on equipment to the maximum extent possible. Noisy construction-related operations (e.g. mixing concrete) shall be accomplished off-site to the extent feasible. Those operations which cannot be

performed off-site shall be done on those areas of the site furthest from noise sensitive receptors.

B. The following noise control procedures shall be employed:

1. Maximum Noise: The Design Builder shall use equipment and methods during the course of this Work that are least disruptive to adjacent offices or residences. Noise levels for trenchers, graders, trucks, and pile drivers shall not exceed 90 dBA at 50 feet as measured under the noisiest operating conditions or as stipulated for the University during periods of operation. For all other equipment, noise levels shall not exceed 85 dBA at 50 feet or as stipulated for the University during periods of operation.
2. Equipment: Jack hammers shall be equipped with exhaust mufflers and steel muffling sleeves. All diesel equipment shall have exhaust muffled. Air compressors shall be of a quiet type such as a "whisperized" compressor.
3. Operations: Machines shall not be left idling. Electric power shall be used in lieu of internal combustion engine power wherever possible. Equipment shall be maintained to reduce noise from vibration, faulty mufflers, or other sources.
4. Scheduling: Noisy operations shall be scheduled so as to minimize the disturbance and duration to adjacent neighborhoods, nearby student housing complexes and residences.

1.10 EROSION CONTROL

A. Exposed earth surfaces shall be watered to minimize dust generation as necessary according to weather conditions.

B. During winter construction, an erosion and sediment-transport control plan incorporating standard erosion control practices shall be implemented prior to the first day of earth moving activities.

1. Erosion control shall include retaining sediments within Project site by the use of catch basins; using interceptor ditches and benches to prevent gullying of slopes; and preparing and implementing erosion control plans.

C. Storm Water Pollution Prevention Plan (SWPPP):

1. Design Builder to obtain all necessary SWPPP permits and designate a Qualified SWPPP Practitioner (QSP) to oversee the Project. The Design Builder shall retain and oversee the QSP for the duration of the schedule until Substantial Completion of phase 3.

1.11 TRENCHING SHORING:

A. Protection: Pursuant to Labor Code Sections 6705 and 6707, Design Builder shall include in its base bid all costs incident to the provision of adequate sheeting, shoring, bracing or equivalent method for the protection of Life and Limb which shall conform to the applicable Federal and State Safety Orders.

B. Before beginning excavation five feet or more in depth, Design Builder shall provide to University's Representative a detailed plan showing the design or shoring, bracing, sloping, or other provisions to be made for worker protection from the hazards of caving ground during the excavation. The proposed plan shall comply with the State of California Construction Safety Orders, Title 8, and Title 24 of the California Code of Regulations. (CCR). The detailed plan shall be prepared by a registered civil or structural engineer registered in the State of California. The cost of required engineering services shall be borne by Design Builder and shall be deemed to have been included in the base bid for the Work.

C. The receipt of any plan showing the design of shoring, bracing, sloping, or other provisions for worker protection shall not relieve Design Builder from its obligation to comply with Construction Safety Orders Standards, OSHA and Title 24 CCR for the design and construction of such protective Work, and Design Builder shall indemnify University and University's Representative from any and all claims, liability, costs, action and causes of action arising out of or related to the failure of such protective systems. Design Builder shall defend University and its Regents, officers, employees, agents, and representatives in any litigation of proceeding brought with respect to the failure of such protective systems.

D. Comply with State of California Construction Safety Orders, Article 6 - Excavations, Trenches, Earthwork - whether or not the excavation, trench, or earthwork is five feet or more in depth.

END OF SECTION 01 1400

SECTION 01 3540 – ENVIRONMENTAL MITIGATION

PART 1 – GENERAL

1.1 SUMMARY

A. The Environmental Mitigation requirement for this project is recorded in this Division 01 Section 01 "Environmental Mitigation". The mitigations measures may include, but are not limited to, procedures and standards to control:

1. Air Quality
2. Dust Control Measures
3. Biological Resources
4. Cultural Resources / Tribal Cultural Resources / Paleontological Resources
5. Hazards and Hazardous Materials
6. Water Quality
7. Noise Attenuation Measures
8. Transportation and Traffic Control
9. Light and Glare

B. Related Sections

1. Division 01 Section, "Temporary Facilities and Controls".
2. Division 01 Section "Tree and Plant Protection".

1.2 ADMINISTRATIVE REQUIREMENTS

A. Submittal Procedures:

1. Submittals shall be submitted in accordance with Division 01 Section, "Submittal Procedures."

    a. Submit Traffic Control Plan for Project Construction prior to the start of construction
    b. Submit Pedestrian Circulation Plan for Project Construction prior to the start of construction.

PART 2 - MITIGATION MEASURES

2.2 AIR QUALITY

A. Low NOx diesel fuel and construction equipment shall be used to the extent that is readily available at the time of construction.

B. The following Air Quality reduction procedures shall be implemented throughout the construction process:

1. Compliance with all SCAQMD rules and regulations.
2. Maintenance programs to assure vehicles remain in good operating condition.
3. Avoid unnecessary idling of construction vehicles and equipment.
4. Use of alternative fuel vehicles.
5. Provision of electrical power to site to eliminate the need for on-site generators.

C. Post a publicly visible sign with the telephone number and person to contact at the University regarding dust complaints, as well as the SCAQMD telephone number. This University's Representative is required to respond and direct corrective action. The Design Builder/General Contractor/General Contractor will take directed correction action within 48 hours.

D. The Design Builder/General Contractor shall prepare a construction emissions control plan that includes a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 hp, that will be used for an aggregate of 40 more hours during any portion of the construction project. All contractors, and overseen by the Design Builder/General Contractor/General Contractor, shall utilize California Air Resources Board (CARB) certified equipment or better for all on-site construction equipment to meet the following:

1. All off-road diesel-powered construction equipment greater than 50 hp shall meet the Tier 4 emission standards, where available. In addition, all construction equipment shall be outfitted with BACT devices certified by CARB. Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by a Level 3 diesel emissions control strategy for a similarly sized engine as defined by CARB regulations.

2. A copy of each unit's certified specification, BACT documentation and CARB or SCAQMD operating permit shall be provided at the time of mobilization of each applicable unit or equipment.

3. Contractors are encouraged to apply for AQMD "SOON" funds. Incentives could be provided for those construction contractors who apply for AQMD "SOON" funds. The "SOON" program provides funds to accelerate clean-up of off-road diesel vehicles, such as heavy-duty construction equipment. More information on this program can be found at the following website: http://www.aqmd.gov/home/programs/business/business-detail?title=off-road-diesel-engines&parent=vehicle-engine-upgrades

E. The Design Builder/General Contractor/General Contractor shall also implement the following measures during construction:

1. Prohibit vehicle and engine idling in excess of 5 minutes and ensure that all off-road equipment is compliant with the California Air Resources Board's (CARB's) in-use off-road diesel vehicle regulation and SCAQMD Rule 2449.

2. Configure construction parking to minimize traffic interference.

3. Provide temporary traffic controls such as a flag person, during all phases of construction to maintain smooth traffic flow.

4. Provide dedicated turn lanes for movement of construction trucks and equipment on- and off site.

5. Schedule construction activities that affect traffic flow on the arterial system to off-peak hour to the extent practicable.

6. Improve traffic flow by signal synchronization and ensure that all vehicles and equipment will be properly tuned and maintained according to manufacturers' specifications.

7. Use diesel-powered construction vehicles and equipment that operate on low-NOx fuel where possible.

8. Reroute construction trucks away from congested streets or sensitive receptor areas.

9. Maintain and tune all vehicles and equipment according to manufacturers' specifications.

F. To minimize VOC emissions from the painting/finishing phase, for each construction project on the campus, the project contractor will implement the following VOC control measures:

1. Construct or build with materials that do not require painting or use prepainted construction materials.

2. If appropriate materials are not available or are cost-prohibitive, use low VOC-content materials more stringent than required under SCAQMD Rule 1113.

G. Install filters over air handling units of neighboring facilities: Air distribution systems of neighboring facilities shall be aggressively protected from dust during the construction process to ensure that no contamination of the duct system occurs. Special provisions shall be made at no additional cost to the university to provide adequate filtration to protect all air handling equipment of immediately adjacent facilities, distribution and return ductwork from exposure to dust, with filters being changed on a regular and frequent basis during the period of construction.

2.3 DUST CONTROL MEASURES

A. All contractors, and those overseen by the Design Builder/General Contractor/General Contractor, shall implement dust control measures consistent with South Coast Air Quality Management District (SCAQMD) Rule 403 – Fugitive Dust during the construction phases of the project development.

1. Apply water and/or non-toxic chemical soil stabilizers according to manufacturer's specifications to all inactive construction areas (previously graded areas that have been inactive for ten (10) or more days).

2. Replace ground cover in disturbed areas as quickly as possible.

3. Enclose, cover, water twice daily, or apply approved chemical soil binders to exposed piles with 5 percent or greater silt content.

4. Water active grading sites at least twice daily.

5. Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour over a 30-minute period.

6. All trucks hauling dirt, sand, soil, or other loose materials shall be covered or shall maintain at least two feet of freeboard (i.e., minimum vertical distance between top of the load and top of the trailer) in accordance with Section 23114 of the California Vehicle Code.

7. Sweep streets at the end of the day if visible soil material is carried over to adjacent roads.

8. Install wheel washers where vehicles enter and exit unpaved roads onto paved roads or wash off trucks and any equipment leaving project site for each trip.

9. Apply water three times daily of chemical soil stabilizers according to manufacturer's specifications to all unpaved parking or staging areas or unpaved road surfaces.

B. Construction Site Speed Limit.

1. All contractors, and those overseen by the Design Builder/General Contractor/General Contractor, shall ensure that construction site and access road speed limits be established and enforced during the construction period. Post and enforce traffic speed limits of 15 miles per hour or less on all unpaved roads.

2.4 BIOLOGICAL RESOURCES

A. Nesting Bird Surveys.

1. Prior to the onset of construction activities that would result in the removal of mature trees that would occur between March and mid-August, surveys for nesting special status avian species and raptors shall be conducted on the affected portion of the campus following U.S Fish and Wildlife Service (USFWS) and/or the California Department of Fish and Wildlife (CDFW) guidelines. If no active avian nests are identified on or within 250 feet of the construction site, no further mitigation is necessary.

2. If active nests for avian species of concern or raptor nests are found within the construction footprint or a 250-foot buffer zone, exterior construction activities shall be delayed within the construction footprint and buffer zone until the young have fledged or appropriate mitigation measures responding to the specific situation have been developed and implemented in consultation with USFWS and CDFW.

B. Protection of Naturalistic Open Space.

1. Unnecessary driving in sensitive or otherwise undisturbed areas shall be avoided. New roads or construction access roads would not be created where adequate access already exists.

2. Removal of native shrub or brush shall be avoided.

3. Drainages shall be avoided, except where required for construction. Limit activity to crossing drainages rather than using the lengths of drainage courses for access.

4. Excess fill or construction waste shall not be dumped in washes.

5. Vehicles or other equipment shall not be parked in washes or other drainages.

6. Overwatering shall be avoided in washes and other drainages.

7. Wildlife including species such as fox, coyote, snakes, etc. shall not be harassed. Harassment includes shooting, throwing rocks, etc.

A. Tree Preservation and Replacement.

1. Preserve and protect mature specimen trees, memorial trees, landmark trees, and historic trees. The Design Builder/General Contractor/General Contractor shall refer to the Tree Replacement Memo for information pertaining to tree replacement requirements and ratio. In consultation with UCR's Planning, Design & Construction (PDC) staff and Facilities Services – Landscape Services Department staff, the Design Builder/General Contractor/General Contractor shall plant any replacement (or relocated) trees to the satisfaction of UCR staff.

2.5 CULTURAL RESOURCES / TRIBAL CULTURAL RESOURCES / PALEONTOLOGICAL RESOURCES

A. Unanticipated Discovery of Archaeological Resources.

1. If a previously undiscovered archaeological resource is identified during construction, all ground disturbing activities within 100 feet of the resource shall halt, UCR PDC staff shall be notified, and the find shall be evaluated by a qualified non-University Archaeologist meeting the Secretary of the In-

terior standards and, if the discovery is Native American in origin, a tribal representative within 24 hours of discovery to determine whether it is a unique archaeological resource, as defined by the California Environmental Quality Act (CEQA). The archaeologist and the tribal representative shall make recommendations to UCR PDC staff on the measures that will be implemented to protect the newly discovered cultural resource(s), including but not limited to, avoidance in place, excavation, relocation, and further evaluation of the discoveries in accordance with CEQA. If the resource meets the criteria for a unique archaeological resource, work shall remain halted within 100 feet of the area of the find, and UCR PDC staff shall consult with the non-University Archaeologist and, if appropriate, consulting Tribes, regarding methods to ensure that no substantial adverse change would occur to the significance of the resource pursuant to CEQA Guidelines Section 15064.5(b). Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to archaeological resources and the University shall devote adequate time and funding to determine if it is feasible, through project design measures, to preserve the find intact. If it cannot be preserved, the non-University Archaeologist shall design and implement a treatment plan, prepare a report, and salvage the material, as appropriate. Any important artifacts recovered during monitoring shall be cleaned, catalogued, and analyzed, with the results presented in a report of findings that meets professional standards. Work on the site may commence upon completion of treatment.

B. Native American Monitoring.

1. UCR shall invite up to one qualified Native American Monitor to be on site during any project-related ground disturbing activities with the potential to encounter native soils. The Native American Monitor shall have ties to the region and be a member of one of the consulting Tribes for the proposed project. The on-site monitoring shall end when project-related ground disturbing activities are completed, or when the Native American Monitor has indicated that the project site has a low potential for tribal cultural resources.

C. Cultural Sensitivity Training.

1. The Native American monitor shall attend the pre-grading meeting with UCR staff/contractors to provide Cultural Sensitivity Training for all construction personnel, to inform construction personnel on the types of cultural resources that may be encountered, and to bring awareness to personnel of actions to be taken in the event of a cultural resources discovery. UCR staff/contractor shall complete training for all construction personnel and retain documentation showing when training of personnel was completed.

D. Unanticipated Discovery of Tribal Cultural Resources of Human Remains.

1. If a previously undiscovered resource is discovered during construction, the Native American Monitor shall have the authority to temporarily halt or redi-

rect ground disturbing activities away from the vicinity of the discovery to allow for preliminary evaluation of potential tribal cultural resources. The Native American Monitor shall assess and determine the significance of such resource(s) in consultation with UCR PDC and the Traditionally and Culturally Affiliated (TCA) tribe(s) as appropriate. If human remains are discovered, work shall halt in that area and the procedures detailed in the California Health and Safety Code (Section 7050.5) and the California Public Resources Code (Section 5097.5) and the California Public Resources Code (Section 5097.8) will be followed as described below.

If the discovery is determined to be a tribal cultural resources, UCR shall retain a qualified non-University Archaeologist and in consultation with the TCA tribe(s), shall make recommendations to the UCR PDC staff on the measures that will be implemented to protect the tribal cultural resource(s), including but not limited to, avoidance, preservation in place, excavation, relocation, and further evaluation of the discoveries in accordance with CEQA. Additionally, UCR PDC staff, in consultation with the non-University Archaeologist and TCA tribe(s) shall design and implement a treatment plan, prepare a report, and salvage the material, as appropriate, as agreed upon by the consulting TCA tribe(s). If a determination is made that the tribal cultural resource(s) is considered potentially significant, the consulting TCA tribe(s) shall be notified and consulted in regards to the respectful and dignified treatment of those resources. Any tribal cultural resources recovered during monitoring shall be cleaned, catalogued in the presence of a Native American Monitor, with the results presented in a report findings that meets professional standards.
In the event of the discovery of a burial, human bone, or suspected human bone, all excavation or grading in the vicinity of the find shall halt immediately and the area of the find shall be protected. The University shall immediately notify the Riverside County Coroner of the find and comply with the provisions of California Health and Safety Code Section 7050.5. If such a discovery occurs, a temporary construction exclusion zone shall be established surrounding the area of the discovery so that the area would be protected, and consultation and treatment could occur as prescribed by law. By law, the Medical Examiner will determine within two working days of being notified if the remains are subject to his or her authority. If the Medical Examiner recognizes the remains to be Native American, and not under his or her jurisdiction, then he or she shall contact the Native American Heritage Commission (NAHC), by telephone, within 24 hours. The NAHC will make a determination as to the Most Likely Descendent, who shall be afforded 48 hours from the time access is granted to the discovery site to make recommendations regarding culturally appropriate treatment. If suspected Native American remains are discovered, the remains shall be kept in-situ until after the Medical Examiner makes its determination and notifications, and until after Most Likely Descendent is identified at which time the archaeological examination of the remains shall only occur on-site in the presence of the Most Likely Descendent. The specific locations of Native American burials and reburials will be proprietary and not disclosed to the general public. According to California Health and Safety Code, six or more human burials at one location constitute a cemetery (Section 8100), and disturbance of Native American cemeteries is

a felony (Section 7052). In the event that the project proponent and the Most Likely Descendant are in disagreement regarding the disposition of the remains, State law will apply, and the mediation process will occur with the NAHC. In the event that mediation is not successful, the landowner shall rebury the remains at a location free from future disturbance (see Public Resources Code Section 5097.98(e) and 5097.94(k)).

2. In the event of the discovery of a burial, human bone, or suspected human bone, all excavation or grading in the vicinity of the find shall halt immediately and the area of the find shall be protected and the Design Builder/General Contractor/General Contractor shall immediately notify the Riverside County Coroner of the find and comply with the provisions of State Health & Safety Code § 7050.5 and Public Resources Code Section 5097 with respect to Native American involvement, burial treatment, and re-burial, if necessary.

E. Unanticipated Discovery of Paleontological Resources.

1. Construction specifications shall require that if a paleontological resource is uncovered during construction activities:

   a. A qualified paleontologist shall determine the significance of the find.

   b. The University shall make an effort to preserve the find intact through feasible project design measures.

   c. If it cannot be preserved intact, then the University shall retain a qualified non-University paleontologist to design and implement a treatment plan to document and evaluate the data and/or preserve appropriate scientific samples.

   d. The paleontologist shall prepare a report of the results of the study, following acceptable professional practice.

   e. Copies of the report shall be submitted to the University and the Riverside County Museum.

2.6 HAZARDS AND HAZARDOUS MATERIALS

A. Health and Safety.

1. The Design Builder/General Contractor/General Contractor, shall implement the current (or equivalent) health and safety plans, programs, and practices related to the use, storage, disposal, or transportation of hazardous materials, including, but not limited to, a Business Plan, a Broad Scope Radioactive Materials License, and the following programs: Biosafety, Emergency Management, Environmental Health, Hazardous Materials, Industrial Hygiene and Safety, Laboratory/Research Safety, Radiation Safety, and Integrated Waste Management. These programs may be subject to modification as

more stringent standards are developed or if the programs are replaced by other programs that incorporate similar health and safety protection measures as determined by the Campus Building Official and Designated Campus Fire Marshal.

B. Hazardous Materials Surveys.

1. The Design Builder/General Contractor/General Contractor shall perform hazardous materials surveys on buildings and soils, if applicable, prior to demolition and construction. When remediation is deemed necessary, surveys shall identify all potential hazardous materials within the area to be demolished, and identify handling and disposal practices. The Campus shall follow the practices during demolition activities to ensure construction worker and public safety.

C. Remediation

1. If applicable, prior to demolition activities, when remediation is deemed necessary, the Design Builder/General Contractor/General Contractor shall identify all potential hazardous materials within the area to be demolished, and identify handling and disposal practices to ensure construction worker and public safety.

2.7 WATER QUALITY

A. National Pollutant Discharge Elimination System (NPDES).

1. The Design Builder/General Contractor/General Contractor, shall comply with NPDES requirements and implement Best Management Practices (BMPs) as identified in the UCR Stormwater Management Plan.

2.6 NOISE ATTENUATION MEASURES

A. Construction Hours of Operation

1. Construction activities shall be limited to between the hours of 7:00 AM and 7:00 PM Monday through Friday and 8:00 AM to 6:00 PM on Saturdays when necessary and no construction on Sunday and national holidays in order to minimize disruption to area residences surrounding the campus and to on-campus uses that are sensitive to noise. Construction traffic shall follow transportation routes prescribed for all construction traffic to minimize the impact of traffic (including noise impacts) on the surrounding community.

B. Require Mufflers and Other Noise Attenuators on Project Construction Equipment.

1. The Design Builder/General Contractor/General Contractor shall ensure that noise-producing construction equipment and vehicles using internal combustion engines will be equipped with mufflers; air-inlet silencers

where appropriate; and any other shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specification. Mobile or fixed "package" equipment (e.g., arc-welders, air compressors) will be equipped with shrouds and noise-control features that are readily available for that type of equipment.

2. Stationary construction equipment, material and vehicle staging shall be placed to direct noise away from sensitive receptors.

C. Construction Noticing.

1. The Design Builder/General Contractor/General Contractor shall notify the University's Representative when notice shall be given to all academic and residential facilities within 300 feet of approved construction sites of the planned schedule of vibration causing activities so that the occupants and/or researchers can take necessary precautionary measures to avoid negative effects to their activities and/or research.

2. The Design Builder/General Contractor/General Contractor shall notify the University's Representative to inform on-campus constituents who require advance notice of construction activities. Design Builder/General Contractor/General Contractor to coordinate these activities with the academic calendar, scheduled events, and other situations, as needed.

3. The Design Builder/General Contractor/General Contractor shall notify the University's Representative to inform off-campus constituents that are affected by campus construction and to provide advance notice of construction activities. Design Builder/General Contractor/General Contractor to ensure that the mutual needs of the particular construction project and of those impacted by construction noise are met, to the extent feasible.

D. Require Use of Electrically Powered Equipment.

1. The Design Builder/General Contractor/General Contractor, shall ensure that work uses electrically powered equipment instead of pneumatic or internal combustion powered equipment, where feasible.

E. Reduce Long-Term Noise Impacts.

1. Truck access, parking area design, and air conditioning/refrigeration units will be designed and evaluated when planning specific individual new facilities to minimize the potential for noise impacts to adjacent developments.

2. Building setbacks, building design and orientation will be used to reduce intrusive noise at sensitive student residential.

3. The Design Builder/General Contractor/General Contractor shall shield any new stationary sources of noise that would be located in close proximity to noise-sensitive buildings and uses.

2.7 TRANSPORTATION AND TRAFFIC

A. Traffic Control Plan for Project Construction.

1. The Design Builder/General Contractor/General Contractor shall submit a Traffic Control plan for University review and approval. Design Builder/General Contractor shall comply with the requirements of this plan. The Traffic Control Plan for Project construction shall be prepared by the Design Builder/General Contractor/General Contractor prior to the commencement of construction.

2. The Design Builder/General Contractor, shall restrict vehicle traffic not associated with parking of personal vehicles in permitted parking lots to the Design Builder/General Contractor/General Contractor provided temporary construction service road and W. Linden Street.

3. The Design Builder/General Contractor/General Contractor, shall maintain at least one unobstructed lane in both directions on existing campus roadways while performing the Work. At any time only, a single lane is available, the Design Builder/General Contractor/General Contractor, shall provide a temporary traffic signal, signal carriers (i.e., flag persons), or other appropriate traffic controls to allow travel in both directions. If construction activities require the complete closure of a roadway segment, the Design Builder/General Contractor, shall provide appropriate signage indicating alternative routes.

4. To maintain adequate access for emergency vehicles when construction activities would result in roadway closures, the Design Builder/General Contractor/General Contractor will give fourteen (14) calendar day notice to the University's Representative, so that the University Office of PDC can consult with the UCPD, TAPS, EH&S, and RFD, as appropriate to disclose closures and identify alternative travel routes.

5. The hauling and disposal of any excess clean soil excavated from or already stockpiled on the site will be the responsibility of the Design Builder/General Contractor/General Contractor to transport and stockpile it at the UCR Ag Ops area, or University approved location as directed by the University's Representative.

B. Pedestrian Access Plan for Project Construction.

1. Design Builder/General Contractor/General Contractor will submit a Pedestrian Access Plan for review and approval by the University. Pedestrian Access Plan for project construction shall be prepared by the Design Builder/General Contractor/General Contractor prior to the commencement of construction. At a minimum, the Plan will include alternate routes, appropriate signage, and

curb cuts at street crossings to assure alternate routes around all construction sites or areas under the control of the Design Builder/General Contractor/General Contractor are accessible during all phases of the Project.

2.10 LIGHT AND GLARE

A. Building materials.

1. Building materials shall be reviewed and approved as part of project-specific design and through approval of construction documents. Mirrored, reflective glass is prohibited on campus.

B. Outdoor lighting.

1. The Design Builder/General Contractor/General Contractor, shall ensure that all outdoor lighting on campus resulting from new development shall be directed to the specific location intended for illumination (e.g., roads, walkways, or recreation fields) to prevent stray light spillover onto adjacent residential areas. All fixtures on elevated light standards in parking lots, parking structures, and athletic fields shall be shielded to reduce glare. Lighting plans shall be reviewed and approved by the University's Representative prior to project-specific design and construction document approval.

END OF SECTION 01 3540

SECTION 01 4000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for the following:

1. Quality-Assurance and Quality-Control.
2. Quality-Control Plan.
3. Inspection
4. Special Inspection and Testing.
5. Mockups.

B. Testing***, inspections*** and ~~inspecting~~ ***special inspection*** services are required to verify compliance with requirements specified or indicated. These services do not relieve Design Builder of responsibility for compliance with the Contract Documents requirements.

1. Specific quality-assurance and quality-control requirements for individual construction activities are specified in the sections that specify those activities. Requirements in those sections may also cover production of standard products.
2. Specified tests, inspections, and related actions do not limit Design Builder's other quality-assurance and quality-control procedures that facilitate compliance with the Contract Documents requirements.
3. Requirements for Design Builder to provide quality-assurance and quality-control services required by University's Representative, or Authorities Having Jurisdiction are not limited by provisions of this section.
4. ***Special inspections shall be coordinated with the project Inspector of Record for the IOR to accompany the special inspector. Special inspections may be required in addition to the regular daily IOR inspections which are required by California Building Standards Codes and the Authorities Having Jurisdiction.***

C. Related Sections include the following:

1. Division 01 Section "Construction Progress Documentation" for developing a schedule of required tests and inspections.
2. Divisions 02 - 33 Specification Sections for specific test and inspection requirements.

1.2 DEFINITIONS

A. Inspector of Record: (IOR) Employed by the University to observe, inspect and conduct tests required or deemed necessary to confirm Work is in accordance

with the Contract Documents, California Code of Regulations, or other applicable regulatory requirements.

B. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.

C. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by University's Representative.

D. Mockups: Full-size, physical assemblies that are constructed on-site to illustrate finish and materials. Mockups are used to verify selections made under sample submittals, to demonstrate aesthetic effects and, where indicated, qualities of materials and execution, and to review construction, coordination, testing, or operation; they are not Samples. Approved mockups establish the standard by which the Work will be judged.

1. Room Mockups: Mockups of typical interior spaces complete with wall, floor, and ceiling finishes, doors, windows, millwork, casework, specialties, furnishings and equipment, and lighting.

    a. The intent is to verify the quality level, installation and placement of devices in the wall so a review of the locations can take place for validation of all elements and systems. The components of each mock-up shall include but shall not be limited to communications, electrical, drywall, door and sidelight, ceiling and finishes, headwall, millwork and/or casework, communications devices, headwalls, piping, above-ceiling ductwork, waterproofing systems and all elements required to complete the space.
    b. Integrated Exterior Mockups: Mockups of the exterior envelope erected separately from the building built on the Project site, consisting of multiple products, assemblies and subassemblies.

E. Preconstruction Testing: Tests and inspections that are performed specifically for the Project before products and materials are incorporated into the Work to verify performance or compliance with specified criteria. Special Inspection and Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct special inspection and testing and acceptable to University's Representative, to establish performance and compliance with industry standards.

F. Source Quality-Control Testing: Tests and inspections that are performed at the source, i.e., plant, mill, factory, or shop.

G. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

H. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.

I. Installer/Applicator/Erector: Design Builder or another entity engaged by Design Builder as an employee, subcontractor, or sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.

J. Experienced: When used with an entity, "experienced" means having successfully completed a minimum of five previous projects similar in size and scope to this Project; being familiar with special requirements indicated; and having complied with requirements of California Code of Regulations to work in California.

K. Inspection Request: Electronic request submitted, as specified by the University's Building and Safety Department, by the Design Builder to the University's Representative for inspection of completed Work.

1.3 CONFLICTING REQUIREMENTS

A. General: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to University's Representative for a decision before proceeding.

B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to University's Representative for a decision before proceeding.

1.4 SUBMITTALS

A. Qualification Data: For testing agencies specified in "Quality-Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.

B. Schedule of Tests and Inspections: Prepare in tabular form and include the following:

1. Specification section number and title.
2. Description of test and inspection.
3. Identification of applicable standards.
4. Identification of test and inspection methods.
5. Number of tests and inspections required.
6. Time schedule or time span for tests and inspections.

7. Entity responsible for performing tests and inspections.
8. Requirements for obtaining samples.
9. Unique characteristics of each quality-control service.

C. Reports: Prepare and submit certified written inspection and testing reports that include the following:

1. Date of issue.
2. University's project title and number.
3. Name, address, and telephone number of testing agency.
4. Dates and locations of samples and tests or inspections.
5. Names of individuals making tests and inspections.
6. Description of the Work and test and inspection method.
7. Identification of product and specification section.
8. Complete test or inspection data.
9. Test and inspection results and an interpretation of test results.
10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Documents requirements.
12. Name and signature of laboratory inspector.
13. Recommendations on retesting and reinspecting.

D. Permits, Licenses, and Certificates: For University's records, submit copies of permit drawings, permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

E. Quality-Control Plan: Prepare and submit a plan describing responsibilities, procedures and methods for quality-assurance and quality-control activities the Design Builder will utilize to control the quality of the Work specified.

F. Mockup Shop Drawings: For integrated exterior and interior mockups, provide plans, sections, and elevations, indicating materials, size, and details of mockup construction.

1. Indicate manufacturer and model number of individual components.
2. Provide axonometric drawings for conditions difficult to illustrate in two dimensions.

G. Mockup Schedule: submit a schedule of mockups with shop drawings that adequately illustrates build quality, details, size and character to the University's Representative at the onset of the mockup review process. The schedule of mockups to include type of mockup (Type 1 or Type 2), size of mockup, associated specification, anticipated construction date, and installer/ subcontractor responsible for construction.

1.5 QUALITY- ASSURANCE

A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual specification sections specify additional requirements.

B. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.

C. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

D. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

E. Approved Fabricator Qualifications: Special inspections required by this section are not required where off-site fabrications are done on the premises of a fabricator approved by the University. The firm shall comply with the requirements of the California Building Code Section 1701.7.

F. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in California and who is experienced in providing engineering services of the kind indicated. engineering services are defined as those performed for installations of the system, assembly, or product that is similar to those indicated for this Project in material, design, and extent.

G. Specialists: Certain sections of the specifications require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.

1. Requirement for specialists shall not supersede building codes and regulations governing the Work.

H. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated,

1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.

I. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to

inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

J. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:

1. Design Builder's responsibilities include the following:

   a. Provide test specimens representative of proposed products and construction.
   b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
   c. Provide sizes and configurations of test assemblies, mockups, and laboratory(reject) mockups to adequately demonstrate capability of products to comply with performance requirements.
   d. Build site-assembled test assemblies and mockups using installers who will perform same tasks for Project.
   e. Build laboratory(reject) mockups at testing facility using personnel, products, and methods of construction indicated for the completed Work.
   f. When testing is complete, remove test specimens, assemblies, Type 2 mockups, and laboratory(reject)mockups; do not reuse products on Project.

2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Design Builder, with copy to University's Representative. Interpret tests and inspections and state in each report whether tested and inspected Work complies with or deviates from the Contract Documents.

K. Mockups: Before installing portions of the Work requiring mockups, submit a mockup schedule and drawings for approval. Upon University's approval of a mockup schedule- build mockups for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work:

1. Build mockups in location and of size indicated or, if not indicated, as directed by University's Representative.
2. Notify University's Representative fourteen (14) days in advance of dates and times when mockups will be constructed and ready for review
3. Demonstrate the proposed range of aesthetic effects and workmanship.
4. Obtain University's Representative's written approval of mockups before starting work, fabrication, or construction.
5. Rejected mockups that do not establish an adequate standard of aesthetic, quality of workmanship and/or durability as required by the Contract Documents to either be remedied or demolished and re-constructed for approval by the University's Representative.
6. Coordinate sequence of activities to accommodate construction and review of mockups, with adequate float for remedial measures.

7. Type 1 Mockups: An in-place review of items, areas, materials, and systems prior to execution, with approval by University's Representative. It is not the intent to modify materials or installation but to verify quality-control expectations of the Design Builder. The mockups shall include all materials, finishes, outlets, fixtures, structural elements, and construction details to complete the finished appearance of a room or area. The exact location shall be verified with the Design Builder's sequencing and the University's Representative.

    a. Room Mockups (Type 1): Construct room mockups incorporating required materials and assemblies, finished in accordance with requirements. Provide required lighting and additional lighting where required to enable University's Representative to evaluate quality of the Work. Provide sequencing plan and schedule showing how mockups can be reviewed and approved after design approval and prior to build out of rooms. Provide room mockups as required by the University's Representative.

8. Type 2 Mockups: The Type 2 mock-up is an independent structure and is not intended to be a part of the completed building or system within the building. It is the intent to verify material, interface of systems, and to establish the minimum quality that is required. The Type 2 mock-up is not intended to replace product samples required by individual sections in Divisions 02 through 33.

    a. Types of Type 2 mockups at minimum to includes, but not limited to:

        1) Exterior Building Façade Systems.
        2) Exposed Hardscape (concrete hardscape, pavers, benches, shade structures etc.).
        3) Exposed Architectural Concrete.
        4) Exposed Masonry and Brick.
        5) Exposed Structural Elements.
        6) Assemblies of Major Architectural Elements.

9. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
10. Demolish and remove mockups when directed, unless otherwise indicated.

L. Mockups: Comply with requirements of preconstruction testing and those specified in individual sections in Divisions 02 - 33.

M. Special Inspector Qualifications: An individual with the demonstrated experience and capability to conduct special testing and inspecting of the particular type of construction or operation requiring special inspection.

1.6 QUALITY-CONTROL

A. University Responsibilities: Where quality-control services are indicated as University's responsibility, University will engage a qualified testing agency to perform these services.

1. All Work performed by the Design Builder shall be observed and inspected by the University's Inspector of Record for compliance with the Contract Documents, applicable codes, and regulatory requirements.
2. All materials, products, equipment, off-site fabrications, and assemblies shall be inspected by the University's Representative or Inspector of Record for compliance upon delivery to the Project site and prior to installation.
3. University will furnish Design Builder with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.
4. Coordinate all activities associated with University's consultants and other University departments.
5. Payment for these services will be by the University, except for transportation and daily living expenses outside of Riverside County shall be reimbursed by the Design Builder in order to comply with the Design Builder's off-site fabrication or construction.
6. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Design Builder, and the Contract Sum will be adjusted by change order.

B. Design Builder's Responsibilities: Tests and inspections not explicitly assigned to the University are the Design Builder's responsibility. Perform quality-control services required of Design Builder by California Codes to verify and confirm quality of materials, off-site fabrication, prefabricated assemblies, pre-assembled equipment, and systems whether specified or not.

1. Where services are indicated as Design Builder's responsibility, or where quality standards for materials can not be verified, engage a qualified testing agency to perform these quality-control services.
    a. Design Builder shall not employ same entity engaged by University, unless agreed to in writing by University.
2. Notify testing agencies and the University's Representative at least 48 hours in advance of time when Work that requires testing or inspecting will be performed.
3. Where quality-control services are indicated as Design Builder's responsibility, submit a certified written report, in duplicate, of each quality-control service to the University's Representative.
4. Testing and inspecting requested by Design Builder and not required by the Contract Documents are Design Builder's responsibility.
5. Additional tests or special inspections required to establish that such portion of the Work complies with the Contract Documents.

6. Do not cover any piping, wiring, ducts, or other installations until they have been inspected and approved by the University's Representative.
7. In addition, the Design Builder shall be responsible for reimbursement to the University for:

    a. Reimbursement for travel and daily living expenses which are beyond normal inspection costs when the University's testing laboratory or inspector is required to conduct inspections outside of the Riverside County area.
    b. Cost of retesting construction revised or replaced construction by the Design Builder, where required tests were performed on original construction.
    c. Cost of retesting construction used as temporary facilities by the Design Builder.
    d. Costs of testing construction required by the Design Builder's substitutions.

8. Submit additional copies of each written report when they so direct by the University's Representative.

9. Responsibilities and Duties of the Quality Control Staff:

a. The Quality Control Manager shall have the authority to stop Work, reject Work, order Work removed, initiate remedial Work, propose solutions, and reject material not in compliance with the Contract Documents.

b. Responsibilities of the Quality Control Manager shall include, but are not limited to the following:

1) Present on-site during all working hours and assigned "full time" to this Project. Design Builder shall designate alternate individual(s) to assume responsibilities in the temporary absence of the Quality Control Manager or when overtime Work is being performed.

2) Have complete familiarity with the Drawings and Specifications.

3) Establish and implement Quality Control Programs for the Design Builder and with the various Subcontractors and monitor their conformance.

4) Present samples, mock-ups and test panels to be used as standards of quality for review by the University and their Consultants.

5) Inspect existing conditions prior to the start of new Work segments.

6) Perform in-progress and follow-up inspections on each Work segment to ensure compliance with the Contract Documents. Accompany the University and their Consultants on such inspections.

7) Coordinate required tests, inspections, and demonstrations with the University's IOR inspectors, consultants and any other Authority HavingJjurisdiction.

8) ***Inspect all materials and equipment arriving at the job site to ensure conformance to the provisions of the Contract Documents. Prepare and submit to the University written reports as required by the Contract Documents.***
9) ***Identify, report and reject defective Work or Work not in conformance with the Contract Documents. Monitor the repair or reconstruction of rejected Work.***
10) ***Develop checklists to be used for the inspection of each Division of the Work.***
11) ***Retain specialists or outside firms for inspection of Work in areas where additional technical knowledge is required (mechanical, electrical, electronics, controls, communications, security, welding, structural, security hardware, etc.).***
12) ***Schedule additional site visits where appropriate.***
13) ***Verify and report that all materials and equipment manufactured off-site are in conformance with the Contract Documents.***
14) ***Prior to the start of each Division, Section and/or major item of Work required by the Contract Documents, conduct a preconstruction Quality Control meeting with responsible field and office representative and the University and their Consultants. Provide the University and their Consultants minutes of these meetings within forty-eight (48) hours.***
15) ***Work closely with the University to ensure optimum Quality Control. Attend Project meetings as required by the University.***

C. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Division 01 Section "Submittal Procedures."

D. Retesting/Reinspecting: Regardless of whether original tests or inspections were Design Builder's responsibility, provide dedicated quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.

1. If such additional tests or inspections establish that such portion of the Work fails to comply with the Contract Documents, all costs of such additional tests and inspections, and all other costs resulting from such failure, including compensation for University's Representative and University's consultants, shall be deducted from the Contract Sum by change order

E. Testing Agency Responsibilities: Cooperate with University's Representative and Design Builder in performance of duties. Provide qualified personnel to perform required tests and inspections.

1. Notify University's Representative and Design Builder promptly of irregularities or deficiencies observed in the Work during performance of its services.
2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Design Builder.
5. Do not release, revoke, alter, or increase the Contract Documents requirements or approve or accept any portion of the Work.
6. Do not perform any duties of Design Builder.

F. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:

1. Access to the Work.
2. Incidental labor and facilities necessary to facilitate tests and inspections.
3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
4. Facilities for storage and field curing of test samples.
5. Delivery of samples to testing agencies.
6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
7. Security and protection for samples and for testing and inspecting equipment at Project site.

G. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.

1. Schedule times for review of mockups, tests, inspections, obtaining samples, and similar activities.
2. Do not cover any piping, wiring, ducts, or other installations until they have been inspected and approved by the University's Representative or certified if certification is required.

H. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents. Submit schedule within sixty (60) days of date established for the Notice to Proceed.

1. Distribution: Distribute schedule to University's Representative, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

1.7 SPECIAL INSPECTION AND TESTING

A. Special Inspection and Tests: University will engage a qualified special inspector to conduct special inspection and tests required by the California Building Codes as the responsibility of the University, and as follows:

1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviewing the completeness and adequacy of those procedures to perform the Work.
2. Notifying University's Representative promptly of irregularities and deficiencies observed in the Work during performance of its services.
3. Submitting a certified written report of each test, inspection, and similar quality-control service to University's Representative with copy to Design Builder.
4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
5. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
6. Retesting and reinspecting corrected Work. ***If initial tests or special inspections made by University's Testing Laboratory's reveal that any portion of the Work does not comply with Contract Documents, or if University's Representative determines that any portion of the Work requires additional testing or inspection, additional tests and inspections shall be made as directed.***
7. ***If such additional tests or inspections establish that such portion of the Work fails to comply with the Contract Documents, all costs of such additional tests and special inspections, and all other costs resulting from such failure, including compensation for University's Representative and University Representative's Consultants shall be deducted from the Contract Sum.***
8. ***Fixtures, equipment, materials, and other items removed, demolished, abandoned, or capped and left in place, shall be tested to verify that there is no damage caused after the items have been covered by construction.***

B. Certain portions of the Work will be tested, inspected, or both, at various stages. Nothing in any prior acceptance or satisfactory test result shall govern, if at any subsequent time the Work, or portion thereof, is found not to conform to the requirements of the Contract Documents.

1.8 UNIVERSITY'S INSPECTORS

A. The IOR shall ~~report~~ ***work in close coordination with the*** ~~to~~ University's Representative***, and shall report all findings of completed inspections to the University's Representative. The IOR is a direct report to the Director of Building, Safety and Emergency Management.*** The IOR shall observe construction in progress and shall have the following responsibilities and limitations on authority.

1. Act ~~under the direction of~~ ***in coordination with the*** University's Representative ***on each project***.
2. Observe installation and Work in progress as a basis for determining conformance of the Work, materials, and equipment with the Contract Documents. IOR will ***document and*** report any discrepancies observed to University's Representative and Design Builder. Only University's Representative has the final authority to make approvals or rejections.
3. Only University's Representative shall interpret the requirements of the Contract Documents. If any item is ambiguous, University's Representative shall make a written interpretation. If Design Builder requests changes or modifications to the Contract Documents, University's Representative shall make a written determination on the requested changes or modifications.
4. ***Upon receipt of an inspection request, and after conducting the requested inspection, IOR shall*** ~~P~~***p***repare and ~~submit~~ ***provide*** an ***electronic*** inspection ***disposition*** report to University's Representative for each inspection performed ***using the UC Riverside Inspection request software.***
5. Review application for payments.
6. Assist University's Representative in reviewing the test and ***special*** inspection results ***and any reporting documents*** of testing laboratories ***prepared for this project***.
7. The IOR is not authorized to permit deviations from the requirements of the Contract Documents unless such deviation has been approved by University's Representative in writing. ***IOR shall not approve any changes that are not in compliance with the California Building Standards Code.***
8. The IOR shall not supervise, coordinate, or direct the Work. The IOR has no responsibility or control over Design Builder's construction means, methods, techniques, sequences, procedures, or coordination of any portions of the Work, or over any safety programs in connection with the Project

B. The failure of University, University's Representative and its representatives and consultants, or University's IOR to observe or inspect the Work, or to detect deficiencies in the Work, or to inform Design Builder of any deficiencies which may be discovered, shall not relieve Design Builder, its subcontractors regardless of tier, or suppliers from their responsibility for construction means, methods, techniques, sequences and procedures, construction safety, code compliances, nor from their responsibilities to carry out the Work in accordance with the Contract Documents and***/or minimum California Building Standards Code requirements*** to detect and correct defective Work as defined in the General Conditions.

PART 2 PRODUCTS

2.1 MATERIALS

A. Samples of materials and finishes shall be submitted to the University's Representative for approval a minimum of twenty-one (21) days ahead of mockup reviews for the specified material.

B. Materials and finishes for mockups shall comply with the requirements specified in the various applicable sections of the specifications and shall match previously submitted and approved samples.

C. Mockups shall incorporate all related construction materials and finishes upon the completed Work.

PART 3 EXECUTION

3.1 INSPECTION REQUESTS:

A. ***~~Submit inspection request to the University's Representative at least 48 hours in advance of time when Work that requires testing or inspecting will be performed~~ Design Builder shall request inspection of completed portions of the Work through University's Representative, using the University's Department of Building and Safety Inspection Request Software. Design Builder shall submit a request for inspection using University's Inspection Request Software, with instructions for using that software attached to the end of this Section.***

1. Design Builder shall submit an Inspection Request at least 2 working days prior to the time the work will be ready for inspection.

2. For work to be inspected by a third party testing laboratory, whether Design Builder's or University's, Design Builders shall submit an Inspection Request at least 2 working days prior to the time the work will be ready for inspection.

3. For work not in conformance with the Contract Documents, the IOR shall submit to the Design Builder's a Nonconforming Work Notice.

B. All Work performed by the Design Builder or subcontractors shall be reviewed and approved for compliance with the Contract Documents by the Design Builder prior to submittal of the Inspection Request.

C. Design Builder's responsibility on the day on inspection:

1. Have plans that are stamped "Reviewed for Conformance" by the University available at the construction site.

2. Have product, material or equipment submittals marked “NET or MCN” to show approval by the University available at the construction site.
3. Submit Inspection Request 48 hours in advance of inspections and material and equipment deliveries.
4. Provide equipment, utilities, lighting, and access necessary for University’s Representative to conduct inspections.

3.2 INSPECTION REQUEST SOFTWARE INSTRUCTIONS

A. Citizenserve-For new Campus Permit Inspection Requests, create an account and log into the Campus Building Permit Citizenserve System. This can be found on the Planning Design and Construction website https://citizenserve.com/ucr and then follow the instructions provided.

1. ***Complete Automated Inspection Request Form***
2. ***Select your Permit # from the drop-down menu and request the inspection needed.***
3. ***A notification will be issued to the inspector on the project., advising them that there is an inspection request pending their review.***
4. ***Once requested inspection is conducted, the IOR will input the disposition into Inspection Request system (approved, disapproved, corrections, etc.). There may be other attachments such as reports, photos, notes, etc., added to the inspection request disposition as well.***
5. ***Results of the inspection is input after the inspection in real-time and it can be viewed by all parties real-time. Inspectors may also upload photos and other documents and attach them to the inspection file in the Inspection Request System***
6. ***Completed "As-Built" plans of project shall be provided to Inspector of Record (IOR) prior to final inspection.***
7. ***Once the work is completed, request a final inspection. If approved, the permit will be signed as approved and complete.***

B. If not already associated with a permit, a request to be added to that specific permit must be completed prior to an inspection request being submitted. Access to Specific Permits must be granted by the Building and Safety Division.

3.3 QUALITY - CONTROL PLAN

A. Prepare a plan describing procedures and methods the Design Builder will utilize to control the quality of the Work. At a minimum, the quality-control plan shall include:

1. An organizational structure description, including quality-control supervision and inspection reporting structure. Delineate personnel training and qualification activities.

2. Plans, procedures and responsibilities for quality-control of drawings, specifications, and permit packages, including verification of compliance to Contract Documents. Include procedures for drawing resubmittals to verify comments from University's Representatives, subject matter experts, peer reviewers and Authorities Having Jurisdiction are addressed prior to resubmittal.
3. Plans and procedures for testing and inspections to verify attributes delineated in the Contract Documents, including those specified in referenced Codes and Standards. Include documents that identify individual inspection or testing points and acceptance criteria and include provisions for recording results and the responsible inspection/test personnel. This documentation shall be traceable to the particular material, items, processes, or systems evaluated, including notification requirements.
4. Procedures for identifying and contractually invoking the applicable technical and quality requirements delineated in the specifications on vendors supplying materials, parts, and services.
5. Plans and procedures for receiving, inspecting, and accepting material and items. These shall include examination of physical condition and compliance with purchasing requirements, including markings for class type and grade, and conformance of supplied documentation. These shall also include provisions for:

    a. Identifying, controlling, and processing non-conforming items, including notification of the University's Representative.
    b. Inspection of materials for authenticity to preclude counterfeit parts, for items and attributes of concern identified by University's Representative.
    c. Verifying for compliance and traceability, maintaining, and turnover to the University, certificates of conformance and mill certificates required by Contract Documents or codes or standards invoked, for materials received.

6. Provisions for identifying defective Work. Bring to University Representative's attention, for consultation and possible relief, those cases where correction within the specified requirements may introduce a significant schedule penalty, personnel hazard, or compromise the quality of installed items, or is otherwise impractical.
7. Controls to assure that only the "Reviewed for Conformance" construction documents are utilized in the Work.

    a. This includes provisions for removing superceded versions from the work area, except where explicitly and prominently marked "Void For information Only"; such as to retain annotated installation data.

8. Detailed formal procedures or instructions for the performance of special processes, such as welding or concrete placement. These procedures/instructions and personnel performing special processes shall be qualified and certified as required by codes and standards invoked in the Contract Documents.

9. Controls providing for periodic calibration of testing and measurement equipment, including unique equipment identification and calibration tracking.
10. Maintain records documenting the implementation of the above activities, including tests inspections, special process qualification and execution, vendor documentation and defective Work resolution. These records shall be indexed, protected and retrievable for final submission to University's Representative.
11. Identify all test and inspections that the Design Builder proposes to be conducted by the University.

3.4 TEST AND INSPECTION LOG

A. Prepare a record of tests and inspections. Include the following:

1. Date test or inspection was conducted.
2. Description of the Work tested or inspected.
3. Date test or inspection results were transmitted to University's Representative.
4. Identification of testing agency or special inspector conducting test or inspection.

B. Maintain log at Project site. Post changes and modifications as they occur. Provide access to test and inspection log for University Representative's reference during normal working hours.

3.5 REPAIR AND PROTECTION

A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.

1. Provide materials and comply with installation requirements specified in other specification sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Documents requirements for Division 01 Section "Cutting and Patching.

B. Protect construction exposed by or for quality-control service and special inspection and testing activities.

C. Repair and protection are Design Builder's responsibility, regardless of the assignment of responsibility for quality-control services or special inspection and testing activities.

D. Maintain and protect the mockups during construction to serve as a standard for approving Work incorporated into the Project. Do not alter, remove, or destroy mockups until University's Representative authorizes their removal.

3.6 MOCKUP INSTALLATION

A. Mockups shall be constructed in accordance with the approved construction drawings, specific mock-up drawings, and approved shop drawings and product data. If changes are required, the Design Builder shall complete modifications to all documents.

B. Type 1 mockups shall be revised as required to achieve proper quality-control standards that shall be achieved by the Design Builder.

C. Type 2 mockups shall be located where directed and shall not be built "in place" as part of the permanent construction. Periodic inspections by the University and Design Builder will be given during the construction process to review the installation.

1. Insofar as possible, mockups shall illustrate contiguous materials and finishes, and be arranged in the same relationship, as they will appear in the finish construction.
2. Each kind of material shall be fabricated, installed, and finished by the various subcontractors or others who will be furnishing and performing the Work in the permanent construction.
3. Protect and clean as required to leave the mock-up and adjacent areas in proper condition, upon completion of the Work.
4. Remedial measures, which may be necessary on mockups, shall maintain standards of quality and durability required by the Contract Documents, and shall be subject to approval by the University's Representative.
5. When so directed by the University's Representative, Type 2 mockups shall be dismantled, and the materials disposed of by the Design Builder.
6. Type 2 mockups shall be approved by the University's Representative, before materials are ordered for the Project.

3.7 MOCKUP INSPECTION

A. Notify University's Representative at the start of construction of mockups and provide progress reports to allow the University's Representative to schedule inspections.

B. After approximately 50 percent of each mockup has been built, request University Representative's preliminary review before completion. Incorporate visual and technical changes or variations requested by the University's Representative into mockups during their construction and prior to their completion, insofar as possible.

C. Obtain University Representative's acceptance of visual and technical qualities of mockups before commencing the corresponding Work for the Project.

D. Should the Type 1 or Type 2 mockups fail to meet the University Representative's approval, they shall be taken down or dismantled, and reconstructed to the extent necessary, until acceptance has been obtained.

E. Time the completion and reworking of mockups necessary to obtain acceptance to avoid delay in the construction schedule of the Project. Update the Construction Schedule to reflect required revisions to mockups.

INSPECTION REQUEST SOFTWARE INSTRUCTIONS

INSPECTION REQUEST INSTRUCTIONS USING THE CFORMS and/or new Campus Building Permit Citizenserve Inspection Request Process.

NOTE: The CForms Inspection Request Process is to be used only for Campus Building Permit numbers B21-510 and lower. The new Campus Building Permit Citizenserve Portal is required to be used for all Campus Building Permit numbers B21-511 and above.

1. ***CForms-For inspection requests using the older CForms Inspection Request System, log into http://ucr.cforms.net. Follow instructions.***

2 ***Citizenserve-For newer Campus Permit Inspection Requests, Create an account and log into the new Campus Building Permit Citizenserve System. This can now be found on the PD&C website or "Copy and paste" https://citizenserve.com/ucr and then follow the instructions provided.***

3 ***Complete Automated Inspection Request Form***

4 ***Select your Permit # from the drop-down menu and request the inspection you need.***

5 ***In either system, a notification will go out to the inspector on the project., advising them that there is an inspection request pending their review.***

6 ***Once requested inspection is conducted, the IOR will input the disposition into Inspection Request system (approved, disapproved, corrections, etc.). There may be other attachments such as reports, photos, notes, etc., added to the inspection request disposition as well.***

7 ***Results of the inspection is input fter the inspection in real-time and it can be viewed by all parties real-time. . Inspectors may also upload photos and other documents and attach them to the inspection file in the Inspection Request System***

8 ***Completed "As-Built" plans of project shall be provided to Inspector of Record (IOR) prior to final inspection signature is allowed.***

9 ***Once the work is completed, request a final inspection and a final inspection will be conducted. If approved, the permit will be signed as approved and complete., and a Certificate of Occupancy will be prepared for signature by the Campus Fire Marshal and Campus Building Official***

NOTE: If you are not already associated with a permit, a request to be added to that specific permit must be completed prior to an inspection request being submitted. *Access to Specific Permits must be granted by the Building and Safety Division. Contact Lezlie Howard at the Building and Safety Division for authorization and assistance in gaining access to these specific permits.

NONCONFORMING WORK NOTICE
NUMBER: _____
DATE: _____

TO: **FROM:**

SPEC. SEC. REF.:_____ PARA:_____ DWG REF:_____ DETAIL:_____

DESCRIPTION OF DEFECTIVE CONDITION (IOR):_____

_____

_____

_____

_____

REPORTED BY (IOR): _____

CORRECTIVE ACTION SHOULD BE TAKEN AS SOON AS POSSIBLE AND COORDINATED WITH THE INSPECTOR OF RECORD (IOR). IF FURTHER INFORMATION IS NEEDED, ADVISE THE UNIVERSITY'S REPRESENTATIVE IMMEDIATELY.

DESCRIPTION OF CORRECTIVE ACTION TAKEN (CONTRACTOR): _____

_____

_____

_____

_____

_____

ACCEPTED BY (CONTRACTOR):_____**DATE:**_____

UCR USE ONLY

ACCEPTANCE OF CORRECTED DEFECTIVE CONDITION (IOR): _____

_____

_____

_____

ACCEPTED BY (IOR):_____ **DATE:**_____

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~~INSPECTION REQUEST~~

~~TO: _____ NUMBER: _____~~

~~FROM: _____ DATE: _____~~

~~DWG REF: _____ DETAIL: _____~~

~~SHOP DWG: _____~~

~~PROJECT SCHEDULE ACTIVITY ID NO. _____~~

~~DATE OF INSPECTION: _____ TIME OF INSPECTION: _____~~

~~TYPE OF INSPECTION: _____~~

~~SPECIFIC LOCATION OF INSPECTION (IE. FLOOR, COL LINE, ETC.):~~

_____

_____

_____

_____

_____

~~ALL WORK REQUESTED FOR INSPECTION HAS BEEN REVIEWED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS BY DESIGN BUILDER'S SUPERINTENDENT PRIOR TO NOTIFICATION OF INSPECTION REQUEST.~~

~~SIGNED: _____ DATE: _____~~

~~UCR USE ONLY~~

~~DATE REC'D: _____~~

~~DATE OF INSPECTION: _____ TIME OF INSPECTION: _____~~

~~INSPECTOR: _____ ☐ INSPECTION REPORT ATTACHED~~

~~COMMENTS:~~

_____

COPIES: □ UNIVERSITY □ CONSULTANTS
□_____□_____
□ FILE

NONCONFORMING WORK NOTICE

TO: _____ NUMBER: _____

FROM: _____ DATE: _____

SPEC. SEC. REF.:_____ PARA:_____ DWG REF:_____ DETAIL: _____

DESCRIPTION OF DEFECTIVE CONDITION:_____

REPORTED BY: _____

CORRECTIVE ACTION SHOULD BE TAKEN AS SOON AS POSSIBLE AND COORDINATED WITH THE INSPECTOR OF RECORD. IF FURTHER INFORMATION IS NEEDED, ADVISE THE UNIVERSITY'S REPRESENTATIVE.

DESCRIPTION OF CORRECTIVE ACTION TAKEN: _____

ACCEPTED BY:_____ DATE:_____

cc:

END OF SECTION 01 4000

SECTION 01 4100 – REGULATORY REQUIREMENTS

1.1 SUMMARY

A. Section Includes:

1. The standards and codes applicable to the Work.
2. Regulatory notifications
3. ***Plan Review and Permit Issuance Requirements, Notifications, and Certificates***

B. Related Requirements:

1. Division 01 Section, “Design Builder’s Use of Site.”
2. Division 01 Section, “Reference Standards.”

1.2 APPLICABLE CODES AND STANDARDS

A. Codes which apply to this Project include, but are not limited to, the following including additions, changes, and interpretations adopted by the enforcing agency in effect as of the date of these Contract Documents.

1. California Code of Regulations (CCR) (2019)

a. Title 8, Industrial Relations
b. Title 13, Hazardous Materials Transportation
c. Title 17, Public Health
d. Title 19, Public Safety
e. Title 20, Public Utilities and Energy
f. Title 21, Public Works
g Title 23, Underground Storage Tank Regulations
h. Title 24: Building Standards Code (2019)

1) Part 1, ~~Building Standards~~ ***California*** ~~and~~ Administrative Code
2) Part 2, California Building Code ***(Volume 1 and 2)***
2) Part 3, California Electric Code
3) Part 4, California Mechanical Code
4) Part 5, California Plumbing Code
5) Part 6, California Energy Code
~~6) Part 7, California Elevator Safety Construction Code~~
~~7~~***6***) Part 9, California Fire Code
~~8~~***7***) Part 11, California Green Building Standards Code
~~9~~***8***) Part 12, California State Reference***d*** Standards ***Code***

i. Title 25, Housing and Community Development
j. Title 26, Toxics
k. Title 27, Environmental Protection

B. In addition to the above codes, Work shall comply with the following:

1. South Coast Air Quality Management District Regulations (SCAQMD) California Environmental Quality Act (CEQA).
2. California Health and Safety Code.

    a. California Retail Food Code

3. California Occupational Safety and Health Act Standards (Cal-OSHA).
4. California Department of Transportation (Caltrans): Standard Specifications, latest edition.
5. National Fire Protection Association (NFPA): Standards 13, 24, 72, and 80.
6. Americans with Disabilities Act - Title II (ADA).
7. Federal Occupational Safety and Health Act (OSHA).
8. Federal Environmental Protection Agency – Clean Air Act.
9. Storm Water Pollution Prevention Act.
10. American Society of Heating, Refrigerating and Air-conditioning Engineers

    a. ASHRAE 2015 Handbook, HVAC Applications.
    b. ASHRAE 2016 Handbook, HVAC Systems and Equipment
    c. ASHRAE 2017 Handbook, Fundamentals
    d. ASHRAE 2018 Handbook, Refrigeration
    e. ASHRAE 55-2016 Thermal Environmental Conditions for Human Occupancy.
    f. ASHRAE 62.1-2016 Ventilation for Acceptable Indoor Air Quality.
    g. ASHRAE 90.1- 2010 Energy Standard for Buildings except Low-Rise Residential Buildings

~~C. All Work shall meet or exceed code requirements.~~

C. Where other regulatory requirements are referenced in these Specifications, the affected work shall meet or exceed the applicable requirements of such references.

D. References in the specifications to "code" or to "building code," not otherwise identified, shall mean the foregoing specified codes, together with the additions, changes, amendments, and interpretations adopted by the enforcing agency and in effect on the date of these Contract Documents.

E. Where other regulatory requirements are referenced in these specifications, the affected Work shall meet or exceed the applicable requirements of such references.

F. Nothing stated in this Section of the Specifications or other Sections of the Specifications, the other Contract Documents or shown on the Drawings shall be construed as allowing Work that is not in strict compliance with all applicable Federal, State, regional, and local statutes, laws, regulations, rules, ordinances, codes and standards

~~F.~~G. Regulatory requirements referred to shall have full force and effect as though printed in these specifications.

H. Discrepancies between these codes/rules/etc. and the Contract Documents shall be brought to the attention of the University's Representative for resolution. Unless otherwise directed by the University's Representative, if a conflict exists between referenced regulatory requirements and the Contract Documents, comply with the one establishing the more stringent requirements, but which shall not be less than minimum code requirements

1.3 OTHER APPLICABLE LAWS AND REGULATIONS

A. All applicable federal, state, and local laws and the rules and regulations of governing utility districts and the various other Authorities Having Jurisdiction over the construction and completion of the Project, including the latest rules and regulations of the ***Campus Building Official, State Fire Marshal, Designated ~~state~~ Campus*** fire marshal ***(DCFM),*** OSHA, and the California Labor Code, shall apply to the Contract throughout, and they shall be deemed to be included in the Contract the same as though printed in these specifications.

1.4 CONFLICTS

A. Nothing stated in this section of the specifications or other sections of the specifications, the other Contract Documents shall be construed as allowing Work that is not in strict compliance with all applicable federal, state, regional, and local statutes, laws, regulations, rules, ordinances, codes and standards.

B. Unless otherwise directed by the University's Representative, if a conflict exists between referenced regulatory requirements and the Contract Documents, comply with the one establishing the more stringent requirements.

1.5 TRENCHING AND SHORING

A. All Work shall be in full accordance, but not necessarily limited to the following codes and regulations: Titles 8, 19, 21, 22, & 24, State of California, California Code of Regulations (CCR), California Occupational Safety and Health Administration (OSHA). For Additional requirements refer to Division 01 Section, "Design Builder's Use of Site."

1.6 REGULATORY NOTIFICATIONS

A. Submit all required notifications to Federal, State of California, State in which disposal facility is located if not in California, regional, and local agencies with regulatory responsibilities associated with the Work activities that are included in the Contract. All notifications shall be served in writing, in the form required by the agency requiring notification, and in a timely manner so as not to negatively impact the Project schedule. Serve notifications at least ten (10) business days in advance (or earlier if required by agency) of activity requiring notice. The Design Builder shall serve all required notifications in writing to all governmental and quasi- government agencies having notification requirements pertaining to any portion of the Work included in the Project.

B. ***Using the "SMARTS" Website: https://smarts.waterboards.ca.gov, the*** Design Builder shall file a Notice of Intent for coverage under State General Construction Activity Storm Water Permit National Pollutant Discharge Eliminate System (NPDES). Design Builder shall comply with applicable permit requirements including the Project Storm Water Pollution Prevention Plan.

1.7 CAMPUS BUILDING PERMITS ~~-~~ *PROCESS REQUIREMENTS,*

A. Prior to commencement of construction and permit issuance by the University's Department of Building and Safety, a permit application shall be entered into the Building and Safety Departments portal along with completed project construction documents for review, approval and permit issuance. The portal address is found at the PD&C Webpage, https://pdc.ucr.edu/

B. Building and Safety staff will distribute all submitted Project Construction Documents to all campus reviewers for their respective review and approval.

C. Once all campus reviewers have approved their respective plan reviews and returned them to Building and Safety, the Permit Program Manager will issue the Campus Building Permit and stamped approved construction documents for the project. Once this process is completed, construction and inspections may commence.

D. Inspections may then be requested through the same portal found at the PD&C webpage. (Contact Lezlie Howard, Permit Program Manager, for assistance with the Inspection request process).

E. Outside agency Permits, Licenses, and Certificates: For the University's records, submit copies of permits, licenses, certifications, Special inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgment, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.8 NOTIFICATIONS, AND CERTIFICATES

A. Underground Service Alert (USA) Notifications: Prior to commencing clearing, excavation and trenching, coordinate with Underground Service Alert of Southern California for field verification and marking of utilities within the limits of Project site. Design Builder shall be responsible for outlining limits of excavation with white chalk paint prior to coordination with USA. Coordination shall require two (2) business days advance notification prior to start of excavation work. Provide USA notification permit number to the University's Representative prior to starting site Work.

B. In no event, shall the Design Builder install materials that contain asbestos, PCB, lead or other known hazardous materials unless prior written approval is obtained from the University.

C. Regulated Carcinogens by Title 8 California Code of Regulations (CCR), Subchapter 7, Group 16 (Control of Hazardous Substances), Article 110 (Regulated Carcinogens).

1. Products containing chemicals regulated as carcinogens by the State of California are not allowed for use on University projects.
2. Case-by-case exceptions may be considered for products containing the following Cal/OSHA recognized carcinogens:

   a. Methylene Chloride, 5202
   b. Cadmium, 1532, 5207
   c. Inorganic Arsenic, 5214
   d. Formaldehyde, 5217
   e. Benzene, 5218

3. Case-by-case exceptions may only be made when suitable alternative products are not available. Such exceptions are subject to written approval by the University's Representative.
4. Exceptions require that the Design Builder shall have an established carcinogen program as required by Cal/OSHA (§5203. Carcinogen Report of Use Requirements) and shall submit to University's Representative, a copy of the Cal/OSHA Confirmation of Report for Cal/OSHA carcinogens.
5. When exceptions are granted, the Design Builder is responsible for providing to the University's Representative a copy of the semi-annual Confirmation of Report received from Cal/OSHA or, in lieu of that, a copy of the Design Builder's semi-annual report as submitted to Cal/OSHA at periods not to exceed 6 months, or at project closeout, whichever occurs first.

G. Fire Department and Additional Notifications, Manifests, and Requirements: As required by University and coordinated by Design Builder with the University's Representative.

END OF SECTION 01 4100

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"

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.	Undergraduate Student Housing Expansion (Pentland Hills – Architectural)	RBB Architects, Inc.	January 31, 2001
B.	Undergraduate Student Housing Expansion (Pentland Hills – Civil)	RBB Architects, Inc.	March 02, 2001
C.	Undergraduate Student Housing Expansion (Pentland Hills – Electrical)		December 22, 1999
D.	Dundee-Glasgow Student Housing a. 01 Civil	Solomon Cordwell Buenz	November 16, 2018
2.	**UTILITY & TOPOGRAPHIC SURVEY**		
A.	Utility Survey Base Drawing		
B.	Utility Survey V Base Drawing		
C.	Base Mapping and Utilities Utility Survey PDF	TKE	
3.	**GEOTECHNICAL REPORTS**		
	University of California, Riverside Student Health & Counseling Center Geotechnical Report	Twining Engineering	December 10, 2019
4.	**PHYSICAL DESIGN FRAMEWORK**		
	Physical Design Framework		2009/10 – 2018/2019

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
5.	**UCR POLICIES**		
A.	UCR Parking Permits	UCR Transportation & Parking Services	May 27, 2014
B.	UCR Parking Rules and Regulations	UCR Transportation & Parking Services	July 11, 2000
C.	UCR Policies and Procedures – Parking Violations	UCR Transportation & Parking Services	July 11, 2000
D.	UCR Smoke Tobacco Free Policy	UCR Planning, Budget, and Administration	January 3, 2014
6.	**UC POLICIES**		
A.	Accommodations for Nursing Mothers		December 10, 2018
B.	Procurement of Foreign Made Equipment Materials or Supplies Produced by Forced Labor, Convict, or Indentured Labor		April 7, 1998
C.	UC Sustainable Practices		July 24, 2020
D.	Unmanned Aircraft System (Drone) Policy		February 9, 2018
E.	Guidelines for Insurance Requirements on Construction Related Contracts / Service Agreements		April 10, 2017
F.	Seismic Safety Policy		May 19, 2017
G.	Whole Building Performance Energy Targets for UC Buildings		March 2014
H.	Regents Policy 4400 Policy UC Diversity Statement		September 10, 2010
7.	**UC GENDER INCLUSIVE FACILITIES**		
A.	UC President Letter Guidelines Gender Inclusive Facilities		June 10, 2015

DESCRIPTION No.	Title:	Prepared by:	Date:
B.	UCR Gender Inclusive Facilities Guidelines		November 2020
C.	GIF Signage Guidelines - Gender Inclusive Facilities		June 23, 2020
D.	UCR Campus Process Gender Inclusive Facilities 2015		November 1, 2015
E.	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
8.	**UCR PHYSICAL MASTER PLAN STUDY**		
	UCR Physical Master Plan Study		May 17, 2016
9.	**ENGINEERING FLOW TEST**		
A.	Engineering Flow Test Student Health & Counseling Center	Daart Engineering Company, Inc.	June 03, 2019
B.	Wastewater Flow Monitoring Services (UCR North District Project) (Engineering Flow Test Dundee Glasgow)	KPFF Consulting Engineering	April 19-27, 2018
10.	**SEWER CAPACITY STUDY**		
A.	Sewer System Study for North District Development Project	Impact Sciences	November 19, 2018
B.	SHCC-North District -Site Utilities Drawings – Sewer Capacity	Kimley-Horn	March 4, 2020
C.	SHCC-North District -Site Utilities Drawings – Sewer Capacity	Burohappald	March 3, 2020
11.	**UCR LANDSCAPE SERVICES DEPT. LANDSCAPE- IRRIGATION GUIDELINES 2012**		
	UCR Landscape Services Dept. Landscape-Irrigation Guidelines 2012		2012
12.	**RIVERSIDE COUNTY AND CITY DOCUMENTS**		
A.	Design Handbook		September 2011

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
	Low Impact Development Best Management Practices		
B.	Local Fire Authority – "Fire and Life Safety Plan Approval	California Department of Forestry and Fire Protection Office of the State Fire Marshal Southern Region	May 18, 2019
C.	Fire Access Plan Checklist		
D.	Hydrology Manual	Riverside County Flood Control and Water Conservation District	April 1978
E.	RPU Appendix I – Design Criteria		May 2016
F.	RPU Appendix II – Approved Material List		March 2020
G.	Specification No. 205 For the Design and Installation of Potable Water Distribution System	City of Riverside Public Utilities Department Water Division	September 2014
H.	RPU Sample Composite Utility Plan		
I.	RPU Sample Water Plan		
J.	Schedule TOU Large General and Industrial Service	City of Riverside Public Utilities Department	January 1, 2019
13.	**UCR STANDARD TEMPLATES**		
A.	UCR Brand Visual Identity Manual		June 15, 2020
B.	Fonts		
	1. EB Garamond		
	2. Fira Sans		
	3. Oswald		
C.	Fonts - MASCOSX		
	1. EB Garamond		
	2. Fira Sans		
	3. Oswald		
D.	Wordmark		
	1. Wordmark EPS		
	2. Wordmark PNG		
E.	Wordmark - MACOSX		
	1. Wordmark EPS		
	2. Wordmark PNG		
F.	Institutional Logo - MACOSX		

DESCRIPTION			
No.	**Title:**	**Prepared by:**	**Date:**
1.	UC Riverside Logo 1-Color EPS		
2.	UC Riverside Logo 1-Color PNG		
3.	UC Riverside Logo Full Color EPS		
4.	UC Riverside Logo Full Color PNG		
G.	Institutional Logo-MACOSX		
1.	UC Riverside Logo 1-Color EPS		
2.	UC Riverside Logo 1-Color PNG		
3.	UC Riverside Logo Full Color EPS		
4.	UC Riverside Logo Full Color PNG		
H.	Monogram - MACOSX		
1.	UCR Monogram EPS		
2.	UCR Monogram PNG		
I.	PowerPoint Presentation Template		
1.	Simple Blue Template		
2.	Simple Yellow Template		
3.	UCR Basic Embedded Fonts (MAC)		
4.	UCR Basic Embedded Fonts		
5.	UCR Basic System Fonts		
J.	AutoCAD Title Block Template		
1.	Title Block-3042 CAD File (PDF)		
2.	Title Block-3042 CAD File Drawing		

14. COMMUNICATION DRAWINGS & DETAILS

A.	BDF Wall Elev & Rack Power 5
B.	Comm Symbols & Subscript 1
C.	Details A thru F 3
D.	Details G thru M 4
E.	Data Rack BDF & IDF
F.	BDF & IDF Telecom Room
G.	Work Station & Patch Panel
H.	BDF & IDF Telecom Room

15. LINKS TO UPDATED UC DOCUMENTS

A	UC Diversity Statement
B.	UC Sustainable Practices Policy

DESCRIPTION No.	Title:	Prepared by:	Date:
C.	UCR Principals of Community		
D.	UCOP Policy on Facilities for Nursing Mothers		
16.	**UCOP BUILDING AREA OVERVIEW**		
	UCOP Building Area Overview		
17.	**SHCC EQUIPMENT LIST**		
	SHCC Equipment List		November 18, 2020
18.	***PRELIMINARY TREE REPLACEMENT MEMO***		
	Preliminary Tree Replacement Memo	***UCR Planning, Design & Construction***	***January 13, 2021***

UC RIVERSIDE | Planning, Design & Construction

Preliminary Tree Replacement Memo

Student Health & Counseling Center
January 13, 2021

This memo was prepared based on the draft UC Riverside (UCR) *Tree Preservation and Replacement Guidelines* and the Aerial Map depicting the project site and construction parking/laydown areas (refer to Figure 1) prepared for the proposed Student Health & Counseling Center Project (project).

For the purposes of this assessment, it is assumed that approximately 24 standard trees[1] on the project site (western portion of Parking Lot 21) are to be removed as part of the project (refer to Figure 1). Removal of standard trees shall be replaced at a 1:1 ratio. Based on a site walk and review of the trees that are to be removed, UCR Planning Design & Construction (PD&C) and Facilities Services – Landscape Services Department, it has been determined that all trees provided should be 48" box trees of comparable species and require UCR approval/acceptance. Replacement trees that cannot be accommodated on the project site will be procured and installed by the Design-Builder on campus per UCR standards including all associated irrigation. Location of trees planted outside of the project area will need to be specified/ approved by UCR Landscape Services.

No palm trees shall be impacted along West Linden Street nor shall any trees be impacted within the parking, laydown, or staging areas at the remaining portion of Parking Lot 21 or the lawn area south of the project site. Trees within these areas should be protected per the UCR Tree Protection Plan. Maintenance of the trees within these areas are the responsibility of the Design-Builders.

Please refer to Division 32 of the Campus Construction Standards and Division 1 for tree protection requirements and details.

[1] Standard trees are not identified as mature specimen trees, memorial trees, landmark trees, or historic trees.

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Figure 1

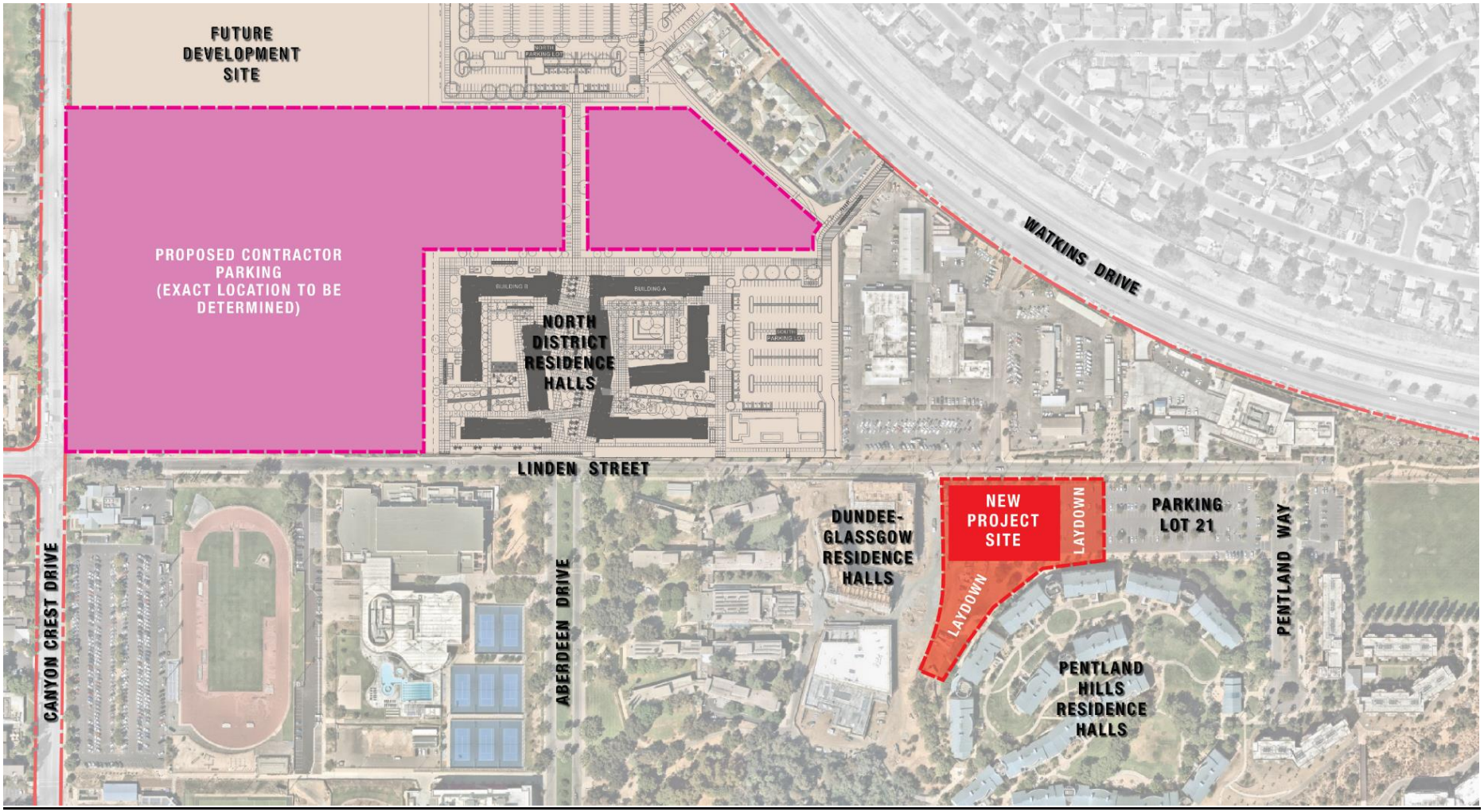

Figure 1


BLAINE STREET
CANYON CREST DRIVE
PROPOSED CONSTRUCTION TEMPORARY PARKING (EXACT LOCATION TO BE DETERMINED)
ADDITIONAL CONSTRUCTION LAYDOWN & TEMPORARY PARKING AREA WITHIN THE VACANT AND UNDEVELOPED NORTH DISTRICT DEVELOPMENT AREA (EXACT LOCATION TO BE DETERMINED)
WATKINS DRIVE
LINDEN STREET
ABERDEEN DRIVE
SHCC PROJECT SITE
PROPOSED CONSTRUCTION LAYDOWN AREAS
OFF-SITE IMPROVEMENT
PENTLAND WAY
N