

ADDENDUM NO. 2

October 26, 2020

BIDDING AND CONTRACT DOCUMENTS

FOR

CAMPUS ELECTRICAL SUBSTATION – BP 1

PROJECT NO. 950568

CONTRACT NO. 950568-LF-2021-12



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 bidder is responsible for transmitting this information to all affected subcontractors and suppliers before the Bid Deadline.

1. SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

Replace Supplementary Instructions to Bidders with one included in this addendum.

2. REQUESTS FOR CLARIFICATION

RFI No.	QUESTIONS / ANSWERS
2-1	<p>Question: On Plan Sheet E-0.3 on the Electrical Phasing Schedule, Phase 1 Task Description #6, #7, & #8, can the cut-off generator sizing information please be provided. You can see that after the 400kw information there are quantities (4), (2), & (2), but the generator size is cut off.</p> <p>Answer: Yes. Please see attached sketch (SK-1) with the entire table shown.</p>
2-2	<p>Question: New Single Line Diagram Plan Sheet E-7.2 notes new 12Kv circuit cabling for circuits 1A-4A & 1B-4B (8 total circuits) coming out of Existing Main Switchboard, into "V1" w/Dead Break Elbows, then "pulling through" "V2", and on to "V3" w/ Dead Break Elbows.</p> <p>Please confirm that Elbows will also be required in "V2" to match existing conditions in photos of "V2" provided as exhibits on page 14 of Pre-Bid Agenda, and pulling constraints do to distance and vault penetration configuration.</p> <p>Answer: Yes. Provide elbows for all eight feeders at "V2".</p>
2-3	<p>Question: Will a zoom meeting be scheduled for the bid opening?</p> <p>Answer: No; all bids will be made available for examination once a selection of alternates is determined and apparent low-bidder is determined.</p>
2-4	<p>Question: In the project documents the term 'DAY' is described as a calendar day. The duration of this project is listed as 155 days. Please confirm this is calendar days. If this project has a duration of 155 calendar days there will not be sufficient time for the contractor awarded to deliver this project. The duration for submittal approval and the procurement of major components will exceed this duration.</p> <p>1.1.17 DAY The term "day," as used in the Contract Documents, shall mean calendar day, unless otherwise specifically provided.</p> <p>Answer: Confirmed, the term day means calendar day.</p>
2-5	<p>Question: In reference to: Cover sheet, SCOPE OF WORK, KEYNOTE #8. "Disconnect and remove old 4160V switchgear and infrastructure. Remove disconnected 4160V feeders throughout campus." Please confirm all scope is indicated on the drawings.</p> <p>Answer: Correct, scope is as indicated.</p>

RFI No.	QUESTIONS / ANSWERS
2-6	<p>Question: In reference to: Cover sheet, SCOPE OF WORK, KEYNOTE #10. Will UCR provide an Arc flash study within the last 5 years per NFPA 70E. This study is required for the contractor to provide MOP to OSHA standards.</p> <p>Answer: Available fault current and incident will be provided as required for MOP after bid.</p>
2-7	<p>Question: In reference to: Sheet E-03, ELECTRICAL PHASING SCHEDULE. The GEN SIZE (MIN) column is cut off within the table. Please provide the full column indicating generator quantities and sizes.</p> <p>Answer: Please see attached sketch (SK-1) with the entire table shown.</p>
2-8	<p>Question: In reference to: Sheet E-03, ELECTRICAL PHASING SCHEDULE. Is it acceptable for the contractor to provide pricing for an alternate phasing plan at the time of bid?</p> <p>Answer: Contractor shall bid per plans and specifications provided.</p>
2-9	<p>Question: Can SWBD PRK-L30 be a panel mounted on Unistrut or does it have to be a free standing switchboard?</p> <p>Answer: Switchboard to be free standing.</p>
2-10	<p>Question: On Drawing E-03 on the electrical phasing schedule it appears that the right side of the schedule column gen size(min) was cut off.</p> <p>Answer: Please see attached sketch (SK-1) with the entire table shown.</p>
2-11	<p>Question: Would you consider a 2 week extension to the bid date?</p> <p>Answer: No.</p>
2-12	<p>Question: Per the documents it says to assume all switches and transformers will contain PCBS. During the walk, that didn't seem to be the case. To keep cost down on this project, Would the University entertain providing a fixed allowance for the testing of current oil and the removal and processing of any oil found to have PCBs?</p> <p>Answer: No.</p>
2-13	<p>Question: Has funding been allocated for this project currently?</p> <p>Answer: Yes.</p>
2-14	<p>Question: Where pulling through existing conduits, what process must be followed prior to pulling in new wire? Will camera rodding be required?</p> <p>Answer: Mandrelling and cleaning prior to new wire pulls required for all conduits. Pull tension measurements required during wire pull. Camera rodding not required.</p>

2-15	<p>Question: If cable is unable to be demoed, specifically under the freeway, what contingency plan should be utilized? It is recommended that only one cable set be demoed and replaced at a time?</p> <p>Answer: Bid per plans and specifications provided.</p>
2-16	<p>Question: Per the job walk, locations of generators were discussed, please provide on an google map the locations that the Generators are allowed to be placed and also on that map where the gear is located that the generators will be hooked up to. Will permits be required to park the generators in there provided locations?</p> <p>Answer: Locations of generators to be identified with facility services once contract awarded in coordination with contractor's phasing plan. Parking permits will not be required for generators.</p>
2-17	<p>Question: Will a right-of-way permit be required for the work that is required in the switch yard building. Who will be providing?</p> <p>Answer: No, access can be provided by UCR personnel. Some coordination may be necessary with RPU if full shutdowns deemed necessary by contractor.</p>
2-18	<p>Question: Per section 5.3.1 in the instructions to bidders. It implies that all bids will be hand delivered/sent by mail and enclosed in a sealed envelope. Per other directions this is to be submitted via Email only. Please advise how this bid needs to be submitted.</p> <p>Answer: See revised Supplementary Instructions to Bidders.</p>
2-19	<p>Question: Please provide the Specification and Cutsheet of the existing installed cable.</p> <p>Answer: Cable types vary, however, between substation to V5 cables are primarily 500kCMIL, CU, MV90 133%, Okonite.</p>
2-20	<p>Question: Please provide any and all as-builts for each location that work is to be completed.</p> <p>Answer: All available as-builts to be provided after award.</p>
2-21	<p>Question: If alternate 1 is not accepted, please provide testing requirements to make sure that the Cable is still in tolerance per NETA prior to adding the addition of a contractor supplied interface.</p> <p>Answer: Refer to specifications and NETA standards for any testing requirements. Testing will be required on new cable only and not on existing cable.</p>

END OF ADDENDUM

SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

1. Contract Time: As specified in Section 1 of the Bid Form.
2. List of Subcontractors (Bid Form Paragraph 9.0) and List of Changes in Subcontractors Due to Alternates (Bid Form Paragraph 10.0).

The default rule is that, if a Bidder lists one subcontractor for a Work Activity (such as “Electrical”) under Bid Form Paragraph 9.0 and a different subcontractor for the same Work Activity (such as “Electrical”) for the Alternate Work under Bid Form Paragraph 10.0 without reference to the Alternate, then it is deemed that the second subcontractor listed in Paragraph 10.0 will perform the Base Bid Work and the Alternate Work, unless the Bidder expressly writes otherwise.

A Bidder may list more than one subcontractor per trade, provided that the Work Activity to be performed by each listed subcontractor is adequately described on the spaces provided on the Bid Form, so that which subcontractor will perform which Work Activity can be determined.

For example, in case of Alternates, if a Bidder wants one subcontractor to perform the electrical Base Bid Work and another subcontractor to perform the electrical Alternate Work, then the Bidder should list the first subcontractor under Bid Form Paragraph 9.0 as performing the “Electrical” Work Activity, and list the second subcontractor under Bid Form Paragraph 10.0 (for listing changes in subcontractors due to Alternates) as performing the “Electrical Alt” or “Electrical Alt Work” or “Electrical Alt Only” or similarly to define the Alternate Work Activity separately to be performed.

3. Requests for clarification or interpretation of the Bidding Documents must be submitted in writing, and shall be addressed only to:

Mary Ramirez, Contracts Administrator
Email: mary.ramirez@ucr.edu
Tel: 951.827.2528

The deadline to submit requests for clarification or interpretation is on or before 2 PM, on Wednesday, October 21st, 2020.

4. The mandatory Zoom Pre-Bid Conference will be conducted at the time and location specified in the **ADVERTISEMENT FOR BIDS FROM PRE-QUALIFIED CONTRACTORS**, bound herein. (Attendance is mandatory). As evidence of attendance, bidders must sign the attendance sheet provided by University at the Zoom Pre-Bid Conference.
5. Bids must be received on or before the Bid Deadline and only at the location specified in the **ADVERTISEMENT FOR BIDS FROM PRE-QUALIFIED CONTRACTORS**.
6. Bids will be opened at the same location specified in the **ADVERTISEMENT FOR BIDS FROM PRE-QUALIFIED CONTRACTORS** for the receipt of bids.
7. Contractor will be assessed as liquidated damages the sum of **\$1,000.00** for each day the Work remains incomplete beyond the expiration of the Contract Time. After Substantial Completion, the rate for liquidated damages shall be reduced to the sum of **\$250.00** per day. See Article 5 of the Agreement for detailed requirements

8. Replace the existing Paragraph 1.4 with the following:

1.4 The term “Bid Deadline” means the date and time on or before which Bids must be received, as designated in the **ADVERTISEMENT FOR BIDS FROM PRE-QUALIFIED CONTRACTORS** and which may be revised by Addenda.
9. Replace the existing Paragraph 3.1.1 with the following:

3.1.1 Bidders may obtain complete sets of the Bidding Documents from the issuing office designated in the **ADVERTISEMENT FOR BIDS FROM PRE-QUALIFIED CONTRACTORS**.
10. Replace the existing Paragraph 3.5.1 with the following:

3.5.1 Addenda will be issued only by University and only in writing. Addenda will be identified as such and will be mailed or delivered to all Planholders. At its sole discretion, the University may elect to deliver Addenda via facsimile or email to Planholders who have provided a facsimile number or email address for receipt of Addenda or communications.
11. Replace the existing Paragraph 3.5.3 with the following:

3.5.3 Addenda will be issued such that Planholders should receive them no later than 72 hours prior to the Bid Deadline. Addenda withdrawing the request for Bids or postponing the Bid Deadline may be issued anytime prior to the Bid Deadline.
12. Replace the existing Paragraph 5.2.4 with the following:

5.2.4 Bid Security will be returned after the contract has been awarded. Notwithstanding the preceding, if a Bidder fails or refuses, within **10** days after receipt of notice of selection, to sign the Agreement or submit to University all of the items required by the Bidding Documents, the University will retain that Bidder’s Bid Security. If the Bid Security is in the form of a Bid Bond, the Bid Security will be retained until the University has been appropriately compensated; if the Bid Security is in the form of certified check, the University will negotiate said check and after deducting its damages, return any balance to Bidder.
13. Add the following as Paragraph 5.3.5:

5.3.5 As specified in the **ADVERTISEMENT FOR BIDS FROM PRE-QUALIFIED CONTRACTORS**, the University has determined that bidders who submit bids for this Project must be prequalified.
14. Replace the existing Paragraph 5.4.4 with the following:

5.4.4 Bids may not be modified, withdrawn, or canceled within **60** days after the Bid Deadline.
15. Replace the existing Paragraph 6.3.1 with the following:

6.3.1 University will have the right, but is not required, to waive nonmaterial irregularities in a Bid. If the University awards the Contract, it will be awarded to the responsible Bidder submitting the lowest responsive Bid as determined by University and who is not rejected by University for failing

or refusing, within **10** days after receipt of notice of selection, to sign the Agreement or submit to University all of the items required by the Bidding Documents.

16. Replace the existing Paragraph 6.3.5 with the following:

6.3.5 University will select the apparent lowest responsive and responsible Bidder and notify such Bidder on University's form within **50** days (unless the number of days is modified in Supplementary Instructions to Bidders) after the Bid Deadline or reject all Bids. Within **10** days after receipt of notice of selection as the apparent lowest responsive and responsible Bidder, Bidder shall submit to University all of the following items:

- .1 Three originals of the Agreement signed by Bidder.
- .2 Three originals of the Payment Bond required under Article 11 of the General Conditions.
- .3 Three originals of the Performance Bond required under Article 11 of the General Conditions.
- .4 Certificates of Insurance on form provided by University required under Article 11 of the General Conditions.
- .5 Names of all Subcontractors, with their addresses, telephone and facsimile numbers, contact persons, portions of the Work and designation of any Subcontractor as a Small Business Enterprise (SBE), Disadvantaged Business Enterprise (DBE), Women-owned Business Enterprise (WBE) and Disabled Veteran Business Enterprise (DVBE) on the Report of Subcontractor Information form, along with a completed Self-Certification form, contained in the Exhibits. Evidence, as required by University, of the reliability and responsibility of the proposed Subcontractors such as statements of experience, statements of financial condition, and references.
- .6 Preliminary Contract Schedule as required under Article 3 of the General Conditions.
- .7 If Bidder wishes to utilize securities in lieu of retention beginning with the first Application for Payment, a completed Selection of Retention Options form accompanied by a completed Escrow Agreement for Deposit of Securities in Lieu of Retention and Deposit of Retention in the form contained in the Exhibits.
- .8 Cost Breakdown as required by Article 9 of the General Conditions.

17. Replace the existing Paragraph 6.3.7 with the following:

6.3.7 If Bidder submits three originals of the signed Agreement and all other items required to be submitted to University within **10** days after receipt of notice of selection as the apparent lowest responsive and responsible Bidder, and if all such items comply with the requirements of the Bidding Documents and are acceptable to University, University will award the Contract to Bidder by signing the Agreement and returning a signed copy of the Agreement to Bidder.

18. Replace the existing Paragraph 6.3.8 with the following:

- 6.3.8 If University consents to the withdrawal of the Bid of the apparent lowest responsive and responsible Bidder, or the apparent lowest responsive and responsible Bidder fails or refuses to sign the Agreement or submit to University all of the items required by the Bidding Documents, within **10** days after receipt of notice of selection, or that Bidder is not financially or otherwise qualified to perform the Contract, University may reject such Bidder's Bid and select the next apparent lowest responsive Bidder, until all Bids are exhausted, or reject all Bids. Any Bidder whose Bid is rejected because the Bidder has failed or refused, within **10** days after receipt of notice of selection, to sign the Agreement or submit to University all of the items required by the Bidding Documents, shall be liable to the University for all resulting damages.
19. The University has negotiated contracts with certain suppliers (listed in the "Information Available to Bidders") to supply materials to University construction projects. Bidders may be able to obtain favorable pricing from the listed suppliers for materials required for this Contract. Bidders are not obligated to obtain any required materials from the listed suppliers. Use of any of the listed suppliers is at the Bidder's risk, and the University does provide any warranties, express or implied, with respect to the listed suppliers, their products and/or services. In particular, University does not warrant that the listed suppliers, their products and/or services are suitable for this Project.
20. **PREVAILING WAGE INFORMATION:** A bidder can obtain the prevailing wage information through the internet at www.dir.ca.gov or at <http://www.dir.ca.gov/DLSR/PWD>.
21. Revise paragraphs 5.3.1 & 5.3.2 as follows:
- 5.3.1 The Bid Form, Bid Security, and all other documents required to be submitted with the Bid shall be **included in the email in which the bid is sent to the University in**, enclosed in a sealed opaque envelope. ~~The envelope shall be addressed to the office designated in the Supplementary Instructions to Bidders for receipt of Bids. The envelope shall be identified with the Project name, Bidder's name and address, and, if applicable, the designated portion of the Project for which the Bid is submitted. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof.~~
- 5.3.2 Bids shall **be emailed only to the designated Contract Administrator as noted in the Advertisement for Bids from Prequalified Contractors** ~~be deposited at the designated location on or before the Bid Deadline. A Bid received after the Bid Deadline will be returned to Bidder unopened.~~

END OF SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

	DESCRIPTION	RECOMMENDED ELECTRICAL PHASING		BACK UP GENERATOR POWER			
		SCOPE OF WORK	CROSS OVER/HOT WORK LOCATION	LOCATION NEEDED	ESTIMATED DOWN TIME	GEN SIZE (MIN)	
PHASE 1 -	SWITCH -A REMOVAL AND V8 CONNECTIONS	1	INSTALL NEW 12-4.16KV TRANSFORMER, 'TX-CP', AND UNDERGROUND CONDUIT AND WIRE FROM 'TX-CP' TO V8.				
		2	ENSURE PHYSCIOLOGY BLDG ON FDR #1B; IF NOT SWITCH TO FDR #1B.	VAULT V8A		< 1 HR	
		3	DISCONNECT FDR #1A FROM SW IN V8A AND PULL BACK TO V8.				
		4	INTERCEPT EXISTING FEED AND ROUTE CONDUIT AND WIRE FROM 'TX-CP' TO SWGR 'CP-HVELEC'. DO NOT CONNECT YET.				
		5	WHERE POSSIBLE, SHIFT ALL BUILDINGS SERVED BY MULTIPLE FEEDERS OFF OF FDRS 1A AND 1B. COORDINATE WITH UCR.	VARIOUS, VERIFY VIA SLD(*e)		< 1 HR	
		6	CONNECT 'V8-A', 'V8-B', AND 'TX-CP' IN V8 TO FDRS 1A & 1B. ISOLATE OFF SWITCH-A.	VAULT V8 & SUBSTATION	VARIOUS(*c)	4 HRS	(2)1MW, (4)400KW, (4)275KW, (10)10KW
			DISCONNECT SF6 SWITCH IN V8A SERVING PSYCHOLOGY AND BYPASS.	V8A			
		7	REFURBISH SW-A INTO JUNCTION BOX 'JB-A' AND RECONNECT CABLES.	CENTRAL PLANT SW-A	VARIOUS(*d)	16 HRS	(2)1MW, (2)400KW, (2)275KW, (10)10KW
		8	RECONNECT CABLES FROM JUNCTION BOX 'JB-A' TO SWITCHES 'SW 1-EXT' & 'SW 2-EXT' IN V8.	VAULT V8 & SUBSTATION	VARIOUS(*c)	4 HRS	(2)1MW, (2)400KW, (2)275KW, (10)10KW
		9	DEMO REMAINING ASSOCIATED ABANDONED CONDUIT, WIRES, AND SWITCH AS INDICATED ON SLD.				
PHASE 2 -	CENTRAL PLANT FROM 5KV TO 12.47KV	1	ENSURE OLMSTED AND HUMANITIES ARE ON FDR #2 AT 5KV SWGR AND NOT #8; IF NOT SWITCH TO FDR #2.	5KV SWGR		< 1 HR	
		2	DISCONNECT SWGR 'CP-ELEC' FROM SW 'CP-OIL' AND CONNECT TO NEW XFRM 'TX-CP'.	CENTRAL PLANT SWGR 'CP-HVELEC'	CENTRAL PLANT (*a)	4 HRS	1MW
		3	REMOVE SW 'CP-OIL' AND ALL ASSOCIATED CONDUITS AND WIRES.				
		4	INSTALL PULLCAN AND CONNECT TO SW 'MVCP'.				
		5	DISCONNECT 'TX-CP' AND RECONNECT VIA PULLCAN TO SW 'MVCP' AND SWGR 'CP-ELEC'. CONNECT FROM PULLCAN TO SW 'MVCP'.	CENTRAL PLANT SWGR 'CP-HVELEC'	CENTRAL PLANT (*a)	4 HRS	1MW
		6	DISCONNECT T-SPLICE AT PC 'A' FROM 'TX-2X'. REFEED OLMSTED FROM SW 'MVCP'	TX-2X & SW 'MVCP'	HUMANITIES AND OLMSTED	2 HR	400KW
		7	DEMO REMAINING ASSOCIATED ABANDONED CONDUIT AND WIRES AS INDICATED ON SLD.				
PHASE 3 -	PARKING LOT LIGHTING TRANSFORMER	1	INSTALL TX 'PRK-L30' AND SWB 'PRK-L30'.				
		2	TRENCH TO V1.				
		3	SPLICE 4B AND ADD TX 'PRK-L30' TO FEEDER.	VAULT V1, FDR 4B	BARN & PLANT GROWTH	8 HRS	400KW
		4	INTERCEPT AND SWITCH PARKING LOT LIGHTING TO NEW CONTROL PANEL (*b)				
PHASE 4 -	5KV DEMO	1	DISCONNECT FEEDER 4B GOING TO TX-FWY AT V1.				
		2	DEMO REMAINING ASSOCIATED ABANDONED CONDUIT, WIRES, AND EQUIPMENT AS INDICATED ON SLD.				
		3	INSTALL NEW FEEDER 4B AND RECONNECT.				
PHASE 5 -	REPLACE FEEDERS 1A-4A AND 1B-4B.	1	USE SPARE CONDUIT FOR NEW CABLE PULLS. WHERE NECESSARY STAGGER/SHIFT BUILDINGS ONTO OTHER CIRCUITS TO ENSURE ALL BUILDINGS REMAIN OPERATIONAL.	VARIOUS, VERIFY VIA SLD(*e), (*f)	VARIOUS(*f)	(*f)	
		2	REPLACE FEEDERS FROM 12KV MAIN SWITCHBOARD TO MANHOLE 'V3'.				
		3	SHIFT BUILDINGS BACK TO ORIGINAL PRIMARY FEEDERS.	VARIOUS, VERIFY VIA SLD(*e), (*f)			
BID ALTERNATE							
Phase 6 -	REPLACE/EXTEND FEEDER 1A-4A & 1B-4B	1	REPEAT PHASE 5 SEQUENCING FROM MANHOLE 'V3' TO MANHOLE 'V5'				

NOTES:

(*a) GENERATOR NEEDED FOR ALL EQUIPMENT IF SHUTDOWN TO LAST FOR MORE THAN 4HRS.

(*b) CROSSOVER TO TAKE PLACE DURING DAY. TEMP LIGHTING TO BE PROVIDED FOR ALL AREAS WITHOUT LIGHTING BY DUSK UNTIL LIGHTS RECONNECTED.

(*c) BUILDINGS NEEDING BACKUP: CENTRAL PLANT BOILERS, (2) CENTRAL PLANT CHILLERS, PSYCHOLOGY BLDG, ENTOMOLOGY, GENOMICS BLDG, BIOLOGICAL SCIENCES, INSECTARY, SCHOOL OF MEDICINE, MUSEUM, STATISTICS COMPUTER BLDG, HERBERT WEBBER HALL, BOYCE HALL, MED SURGE, LATH HOUSE, BOYDEN LABS, (3) GREENHOUSES, LIFE SCIENCES, COLLEGE BLDG NORTH, HERBARIUM, UNIV. OFFICE BLDG, BACHELOR HALL, FAWCETT LABS, ANTHROPOLOGY, (2) BOTANIC GARDENS, SATELLITE CHILLER.

(*d) BUILDINGS NEEDING BACKUP: CENTRAL PLANT BOILERS & CHILLERS, PSYCHOLOGY BLDG, BOYDEN LABS, (3) GREENHOUSES, LIFE SCIENCES, COLLEGE BLDG NORTH, HERBARIUM, UNIV. OFFICE BLDG, BACHELOR HALL, FAWCETT LABS, ANTHROPOLOGY, (2) BOTANIC GARDENS, SATELLITE CHILLER.

(*e) CONTRACTOR RESPONSIBLE FOR COORDINATING WITH UNIVERSITY AND IDENTIFYING WHICH BUILDINGS TO BE SWITCHED, CONTRACTOR TO OPERATE SWITCHES AND/OR SWITCH DEADBREAK JUNCTIONS. NOTE SWITCH & JUNCTION POSITIONS AND PUT BACK IN ORIGINAL POSITION AFTER PHASE WORK.

(*f) CONTRACTOR RESPONSIBLE FOR VERIFY SINGLE LINE DIAGRAM AND IDENTIFYING BUILDINGS AFFECTED BY CROSSOVERS AND SHUTDOWN. GENERATOR NEEDED FOR ALL EQUIPMENT IF SHUTDOWN TO LAST FOR MORE THAN 4HRS.



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 305 South 11th Street
 San Jose, California 95112-2218
 877.725.2755 | 877.925.1477 (F)
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UNIVERSITY OF CALIFORNIA RIVERSIDE
950568 CAMPUS ELECTRICAL SUBSTATION BP1

ELECTRICAL PHASING SCHEDULE

DATE: 10/26/20

JOB # 181137.3

MOD DWG:

SK-1

SHT X OF X