Addendum No. 2  
March 23, 2022

Electrical Distribution Replace  
Multiple 5kv Feeders  
Washington State University  
Pullman, WA

Project No. 1625-2022  
Washington State University  
Facilities Services, Capital
Addendum No. 2
March 23, 2022

Electrical Distribution Replace Multiple 5kv Feeders
Washington State University
Pullman, WA

Bid Date: March 29, 2022 prior to 2:00 PM

1. This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated March 7, 2022, and any prior addenda, as noted below.

2. Please acknowledge receipt of this addendum on the Form of Proposal.

This Addendum consists of 13 total pages including the following Attachments:

<table>
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<th>Attachment</th>
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<tr>
<td>Pre-Bid Meeting Minutes dated 3/16/2022</td>
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<tr>
<td>Pre-Bid Meeting List of Attendees dated 3/16/2022</td>
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<td>Site Logistics Plan</td>
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<td>Traffic Control Plan</td>
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Changes to prior Addenda:
None

Changes to Bidding Requirements:
None

Changes to Specifications:
None

Changes to Drawings:

DWG 2-1. Supplemental Plans

Item 1. The attached Site Logistics Plan and Traffic Control Plan are included as referenced in the Pre-Bid Meeting Minutes.

END OF ADDENDUM No. 2
## ELECTRICAL DISTRIBUTION REPLACE MULTIPLE 5KV FEEDERS

### PRE-BID MEETING

**Meeting Date:** 3-16-22

<table>
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<tr>
<th>ATTENDING</th>
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<tr>
<td>See attached attendance list</td>
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Attach a copy of the completed sign-in sheet(s) to the minutes.

Note: A Pre-printed agenda in the form of Pre-Bid meeting minutes indicates routine items discussed at these meetings in standard print. The actual discussions that occurred at the meeting are printed in italics. The meeting notes and minutes will be routed to plan holders with the addendum that follows this meeting.

### PROJECT SPECIFICS

- **Introductions**
  - Project Manager, **Brian Funke**
  - Construction Manager, Brian Funke
  - A/E, Civil, **Wormer and Assoc. Mark Morrison & Elec. Kimbrel Consulting Services** Dave Kimbrel

- **Project Description**
  **Base:**
  Remove 5kv Feeder from Wilmer Davis & Duncan Dunn Residence Halls, refeed with Avista 13.2kv. (Sent out as Addendum #1, on March 9th. $650,000, without Avista cost

  **Alternate:**
  Remove 5kv feeder from Dodgen Research Facilities, and re-feed with Avista 13.2kv. $150,000 without Avista Cost

- **Schedule:**
  - Base Bid Construction Activities to start the following week after WSU Commencement May 7th. Completion date shall be by August 12th 2022
  - Alternate Start in May and completed by Oct 27th 2022

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Chapter 13  Revised JAN 2005  Attachment 13-A1
ATTACHMENT 13-A  PRE-BID MEETING MINUTES

• Bid Form
  - Bid Date: March 29, 2022 Prior to 2:00PM
  - Review the Form of Proposal
  - Note that MWBE is not a bid form requirement

• General
  - This is an active campus. There are students, faculty and visitors who either will not be aware of construction or will be distracted. Contractors must routinely work around the pedestrian population on campus as well as control noise and other construction related activities to minimize the affect on the campus.
  - WSU is committed to a completely accessible campus. This means that when construction activities interfere with accessible pathways, that the General Contractor is responsible for putting in place temporary facilities (ramps, pathways, etc..) to assure that all accessible pathways are available.
  - Harassment in the workplace is not tolerated at WSU. All trades are required to conduct themselves such that harassment, real or perceived, does not occur. Offending individuals will be permanently removed from the project.

• Project Specific
  - Pre-Bid Meeting is mandatory. Be sure to sign in as a General Contractor / Prime Bidder.
  - Division 0 and Division 1. Make sure and read Division 0 and Division 1 there are Contractor requirements that you need to be aware of.
  - Refer to Section 00 21 13, “Low Responsible Bidder”. Contractor responsibility will be evaluated. Be prepared to submit the required information within 48 hours of receipt of request.
  - Liquidated Damages are $688.00
  - Discuss the building site. The Project will close down NE Campus Street just South of Wilmer Davis, for the location called out for excavation on the civil and electrical drawings
  - Review the requirement(s) for haul routes and deliveries. See attached: site logistics plan & Traffic Control Plan
  - Waste Management will be handled by the Contractor.
  - Discuss parking. Parking permits are required at all times on Campus, see the Campus Parking rules and regulations.
  - The Good Faith Survey is provided in the specification.
  - The General Contractor is to have a Superintendent on the project at all times that construction occurs.
  - Identify the day-to-day WSU on-site representative, Brian Funke  Construction Manager.
  - Building Occupancy: some of the dorms will be occupied during the summer
  - Work Hours: 6am-6pm. authorization is required by WSU to work different hours.
  - Notice to Proceed will is scheduled to be the first part of May so that locates can be called in and contractor to provide work plan, excavation and construction to start the following week after Commencement on May 7th.
  - Dodgen is high security level for levels 1,2 &3, basement level is less secure which is most of the work and outside for site work. I do not anticipate a lot of issues concerning site logistics.
  - Dodgen start date will be mid May to Oct 27th, the plan is to install all electrical with the exception of connecting to the buss duct, as the existing Feeder EA-9 Service will remain in service until the scheduled outage in October.
  - The purpose of the power transfer taking place during October is that Avista will need to isolate WSU TVW-131 to install 13.2 cable in the duct bank and vaults from Dodgen to the Golf Course Switch, this will be roughly a (8) hour shut down and we are scheduling during a low power demand time of year.
concerning heating and cooling. Avista scope will take place sometime around mid Oct and contractor will transfer power over to Avista once the ATS can be energized on the Primary side. So the only scope remaining would be the connections to the bus duct. WSU MV crew to provide isolation blankets.
- WSU Badging will be required for both projects while on campus

GENERAL ADMINISTRATION/MANAGEMENT

• MWBE PARTICIPATION
  Washington State University is committed to the enhancement of opportunities for minority and women’s owned and controlled firms in public contracting. While neither required nor a part of bidder responsiveness, the use of solicitation of minority and women’s business enterprise firms is expressly encouraged.

• PROJECT CLARIFICATIONS
  - O&M Manuals are required for “Substantial Completion”.
  - As-Built Drawings are required for “Substantial Completion”.

• ADDENDUM
  - Questions and substitution requests must be received by 7 days prior to bid (3-22-2022)
  - Addenda expected to be issued on 3/23/2022

PROJECT SITE VISIT

Wilmer Davis & Duncan Dunn
Dodgen Research Center

CONTRACTOR QUESTIONS

Onsite questions will be addressed in the addendum.

See attached Meeting Minutes & Questions
Date recorded: 3/16/22

Recorded by *insert name*: Brian Funke

These minutes represent the author’s understanding of discussions held and decisions reached at the meeting. Amendments to these notes should be submitted to the author within three (3) working days after issuance or these minutes will stand as written.
(3/16/22)- Mandatory Pre-Bid Meeting for:

“Electrical Distribution Replace Multiple 5kv Feeders”.

See attached Pre-Bid Meeting Agenda

Pre-Bid Meeting Minutes and Questions:

1. Handed out attached Meeting Agenda to each attendee
2. Introductions: See attached sign in sheet
3. Material acquisitions: WSU to expedite the apparent low bidder Responsibility Review to accelerate the NTP process. Material can be procured for excavation to start the following week of WSU Commencement of May 7th.
4. WSU will be responsible for all 5kv disconnections to the Energized 5kv source, contractor responsible for demo of all 5kv equipment, once safely disconnected by WSU. With the exception of the AIA 5kv cable from GW Tap Box 18-JB-B to the Duncan Dun xfmr, this cable will remain in the tunnel for a possible connection to the Feeder 13 distribution.
5. Site discussion on OH 5kv Lines and poles requiring demolition: Contractor is not required to remove the pole base that is in the ground, poles may be cut 12 inches below grade.
6. As shown on the Drawing there is OH 5kv lines and poles that will need to be demoed, we are creating a new dead end pole that will need to be guide back per applicable codes that may apply.
7. Some level of security will be required on levels 1,2 & 3 at Dodgen Nuclear Research Facility, scope on these levels is the routing of the conduit and cat 6 from the meter and BAS point from the ATS.
8. Badging is required, can get badged at the CUB
9. WSU responsible for Avista scope, which is basically if the material & equipment carries a current, such as LBC, XFMR, 13.2v Cable this is in WSU PO to Avista, and WSU responsibility. The equipment that does not carry a current such as: conduit, raceways, concrete coring the Avista Vault, excavation, concrete pads is in the contractors scope.
10. The purchasing of the Ground Sleeves will be in the WSU PO to Avista, the installation of the Ground Sleeves are in the contractors scope
11. NTP is anticipated to be May 5\textsuperscript{th}, this date will allow locates to be completed prior to commencement May 7\textsuperscript{th}, and site fencing and traffic signage and excavation can start the week following commencement.

12. Anticipated completion date of Aug 12\textsuperscript{th} for the Wilmer Davis and Duncan Dunn Phase. To meet the Aug 12\textsuperscript{th} completion date we anticipate that Campus St. will be reopened by the end of July, possibly the first of August, and traffic routing back to normal.

13. Chain Link wire fence is required for site fencing. No plastic construction fencing will be acceptable. The site will have deep exposed and open ditches that is in a busy part of campus. The site needs to be secured and safe at all times during construction and off hours.

14. Site Logistics Plan shows (3) gates, each gate will have a WSU lock daisy chained to the contractors lock. This provides WSU and City of Pullman Emergency access to the site at all times.

15. Alley way between Wilmer Davis and Duncan Dunn to remain open at all times, as we have FDC connections in this area. Keep all Fire Hydrants in the area accessible at all times.

16. Parking Commercial Permits are required for all personnel service and private vehicles onsite and within the construction fence. Excavation Equipment is exempt. Contractors can purchase Zoned Parking permits in close by parking area’s as well that outside the fenced area.

17. Note all scope called out in the attached Site Logistic Plan and Traffic Control Plan is to be the responsibility of the contractor. Traffic Control plan allows NE Campus St to be closed down that is within the construction area to help support the excavation scope. Along with all construction scope needed.

18. Contractor to have all possible pre-work completed for both Base and Alternate scope completed prior to scheduling shutdown for connecting buildings to new Avista Service to minimize down time of the Building Services.

19. Upon the contractors request WSU high Voltage will provide and install 5kv rated isolation blankets to isolate all energized 5kv connections that are exposed with the working area.

20. Review Excavation Note on the civil drawings that requires the contractor to provide exploratory hydro excavation to expose all utilities prior to
excavation with the excavation area. WSU will do their best to perform locates but cannot guarantee that the locates are a 100% accurate. Note applies to both projects.

Questions:

1. Do we have somewhere on campus to dump the Slurry and Spoils?  (Answer) WSU currently does not have a site for dumping slurry and site spoils. Contractor can contact Atlas as they do have a inert fill site outside of town.

2. Is WSU going to disconnect and isolate the 5kv?  (Answer) Yes, just need to coordinate shutdowns and provide 2 week notice. Prior to disconnect from the 5kv source contractor to have all possible pre-work completed to minimize building power shutdown time.

3. How are the tunnel conditions?  (Answer) Tunnels are hot, considered confined space. The area that we are installing the service raceways and conductors to Duncan Dun is clean and empty, with no existing existing utilities to work around with the exception of some communication cable. WSU has a tunnel form that needs to be filled out and a process to access and exit, also air monitor sensors are required and WSU does have these sensors that can be used. Tunnel can be access from Duncun Dunn Electrical room.

4. What is Avista Providing?  (Answer) Within WSU PO to Avista, Avista will provide and the installation of all current carrying equipment: LBC, Secondary Enclosure, Transformer and 13.2 cable. Avista also shall provide the Ground Sleeves, contractor to provide all installation scope of installing the ground sleeves. Contractor shall provide and the installation of all non-current material and equipment such as: required excavation, raceways, and transformer pads. Contract to coordinate directly with WSU, for all Avista scope. Contractor expected to coordinate and provide advanced notice to promote good project work flow for both WSU and Avista scope. All installation of material and equipment’s concerning Avista shall meet Avista Standards.

5. Previous Chinook project exposed buried concrete in the area around the Avista Vault?  (Answer) After reviewing archived photos taken during the Chinook Project. WSU did not see any exposed buried
concrete in the direction that the project will be excavating. Base the excavation scope as shown on the drawings.

6. How deep is the bottom of the tunnel? (Answer) about 9ft. Also see civil drawings.

Performed Site Walk on both sites, and reviewed site conditions. All site discussion aligned with meeting minutes noted and what is called out on the contract drawings. Dodgen Site it was Pointed out that the ceiling height was limited to 87 inches from finish floor to concrete ceiling. The Thompson Power Systems ATS, with manual bypass that is called out in the drawings will fit within this space of 87 inches. The site this ATS can be found is Thompson Power Systems and Steadypower.com.

No additional questions, from Site Walk
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<tr>
<th>Name</th>
<th>Representing</th>
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**PRE-BID MEETING MINUTES**

3-16-33

Washington State University
Elect. Distribution
Replace/Multiple

Facilities Services - Capital

**SIGN IN SHEET**

(Please Print)
Construction Site for Wilmer Davis and Duncan Dunn from May 11th to Aug 12th

Solid Red, Excavation Area

Construction fence required. NE Campus St. will be closed in this area. Provide all traffic sign age needed and detour signs. Keep sidewalks open except were shown fenced off

Keep Access Lane open at all times, and full time access to Fire Hydrants
Road closed emergency vehicles only sign. Type 3 barricade

Provide signage to convert from one way to a two way

Sidewalk closed

Right turn only

Type 3 barricade Road Closed to through traffic

Left turn only

We will try and get Pullman Transit to close this bus stop, or relocate.

Road closed. Type 3 barricade