

ADDENDUM NO. 3

TO PROSPECTIVE BIDDERS UNDER
CONSTRUCTION CONTRACT CC30A
NUTRIENT REMOVAL BLOWER BUILDING PROJECT
Central Valley Water Reclamation Facility

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED IN THE BID FORM

This addendum will be attached to the Agreement and is a Contract Document

Addendum No. 3 consists of:

1. **Answers to Bidder's Questions:**

Q - 1: Smith power is no longer the supplier for Jenbacher generator sets. Coordination must be done with INNIO. Complete coordination with existing equipment suppliers may not be possible during the bidding stage. Reasonable assumption of the controls interface details and estimated cost will have to be used. Bidders cannot be responsible if existing suppliers will not engage in proper coordination.

A - 1: Since the time of project specification development CVWRF has been made aware that SPP no longer represents Jenbacher. It is understood complete coordination will not be possible during the bid stage and reasonable assumptions of the controls interface must be made. The Bidder shall note 26 09 74 – 1.05 and 26 09 70-1.05.D have time specified for pre-submittal conferences and development meetings post award but pre shop drawing submittal for the explicit purpose of coordination between the Owner, SSI, and existing equipment OEM, to ensure coordination and design interface agreement prior to shop drawing development.

Q - 2: The total amount of integration work required for the Standby Power System with the existing Cogeneration system cannot be well defined until the coordination meetings specified in 26 09 74 take place and thus assumptions about this effort and cost must be made. To ensure this effort is transparent in the Bids can the Bid Form be revised to include a T&M line item for coordination and modification of existing cogen system effort?

A - 2: The 00 41 00 Bid Form was revised in Addendum #1 to include a line item for the SPS vendor coordination/revision work of the existing Cogeneration system, including the effort to hire the OEMs of the existing Cogeneration system.

Q - 3:With regard to specification 26 09 70-1.06.A.3.a Submittal Group A - P&ID and loop diagrams, manufactures have their own interpretation of these diagrams. What is the project expectation for these diagrams.

A - 3: Drawing types and definitions for this project are defined in 26 05 00. Project expectation is for project specific (I.E. not boilerplate or typical) drawings. Drawings to be computer generated (CAD, hand drawn or hand sketched diagrams will not be accepted) with all terminal numbers and wiring identified to allow for field installation by Electrical Contractor. Manufacturer's typical drawing format and layout is acceptable provided content is project specific and clearly identifies system components with project ID #s/names where provided in the Contract Documents.

Q - 4: 26 09 70 – 1.06.C.6.e specifies programming software requirements. Typically, the application software is provided but not the programming software. This can certainly be provided but end user license agreements are required to release it. Modifications to the software by the end user will void the equipment warranty.

A - 4: For equipment where specific hardware is specified to meet existing CVWRF installation base (ex. PLCs, HMI, Relays) CVWRF will already have copies of the programming software. Intent of the requirement is to indicate the Bidder will not be allowed to use the CVWRF Keys to complete their work or program hardware provided on this Project.

Q - 5: 26 09 70 requires submission of application software. Modifications to the software by the end user will void the equipment warranty, and provision of software will require CVWRF to sign a Non-Disclosure agreement.

A - 5: Acknowledged.

Q - 6: 26 09 74 specifies use of CVWRF tag naming conventions. Are Vendor tag naming conventions acceptable?

A - 6: CVWRF has onsite staff qualified to program and maintain the codebase for existing and new site equipment. CVWRF will consider approval of Vendor tag naming conventions as a part of the SSI Development Guidelines specified in 26 09 74-2.01.A. Vendor naming conventions for Vendor equipment will likely be approved provided the convention is human readable/understandable and follow a documented consistent approach.

Q - 7: Standby power system specifications such as 26 09 70 and 26 09 18 require IEC 61850 functionality (GOOSE) but the control functions requiring GOOSE implementation are not defined.

A - 7: The approved generator manufacturer's specified in 26 32 13.13 have (varying) secured historically proven control designs. The intent of the requirement for IEC 61850 functionality is not to require the Vendor to deviate from their proven recommended controls (I.E. the intent of the specs is not to eliminate all hard wiring or control relays in favor of digital control). The intent is to 'future proof' the system by setting up the digital infrastructure to allow for use of 61850 where it makes sense now or in the future. For example, if the Power System Study Protection engineer would like to block or trip a Main or Tie breaker based on the values a feeder breaker sees to assist with coordination, this should be able to be performed digitally via 61850 rather than programming an output contact on one relay and hardwiring to an input on another relay.

Q - 8: The following are on the instrumentation list, showing contractor supplied, but on the drawings (I-34-6001) they're shown as vendor supplied: PDISH-340100, PDISH-340200, PDISH-340300, PDISH-340400, PDISH-340500

A - 8: These devices are Vendor provided. Section 40 70 93.34 has been updated to reflect these changes.

Q - 9: The following are shown on the instrumentation list, and not shown on the drawings. There's no information on these for me to quote: UA340031, UA340032, YL340031, and YL340032.

A - 9: These are not process instruments and are being removed from the instrument list. Section 40 70 93.34 has been updated to reflect these changes.

Q - 10: The following are on the instrumentation list, but not shown on the drawings: PDI341041, PDI341061, and PI341042.

A - 10: These items have been removed from the list. Section 40 70 93.34 has been updated to reflect these changes.

Q - 11: NCE33011 on communication equipment rack schedule supposed to be NCE331011?

A - 11: Yes.

Q - 12: Sheet I-00-6001 is missing.

A - 12: Sheet is not a part of this construction package. Please disregard.

Q - 13: Do the underground conduit runs from the mechanical room that do not leave the building footprint (the conduit runs to the blowers for example) need to be reinforced concrete encased as the specs imply? There appears to be nothing in the drawings stating that they can be direct bury under the slab, so 26 05 33, 3.02A would dictate that they are reinforced concrete encased.

A - 13: The Contractor may have relief from the reinforced concrete encasement requirement for conduits under the slab north of gridline F provided the Contractor's installation means and methods are sufficiently coordinated with and account for crossing building footings, for example at gridline G (see S-34-3001, S-34-1012). Revised E-00-1006, 1010 are included with this Addendum to be consistent with this Bidder request.

Q - 14: Our standard designs have not been tested with Cisco switches, are Multilin switches acceptable?

A - 14: Most of CVWRF's existing network infrastructure is based around Cisco switches. To minimize the plant staff training requirements Cisco were listed as the first named manufacturer. However, 26 09 18-2.02.B allows for the use of Multilin switches. Vendor may also be required to use Multilin Gateway to achieve similar functionality to Cisco 5000 switch. Revised 26 09 18 is included in this addendum.

Q - 15: 26 09 70 references specification 26 05 05. 26 05 05 was not found in the Bid Documents?

A - 15: Reference to 26 05 05 was intended to refer to 26 05 00. Revised 26 09 70 and 26 05 00 are included in this addendum.

Q - 16: 26 09 18-1.06.B.11 requires submission of CT saturation calculations. We do not typically provide these calculations, can these be performed by the Power System Study engineer as part of the Power System Study?

A - 16: The Bidder's proposal is acceptable however, these calculations must still be performed prior to shop drawing release. 26 09 18 is revised in this Addendum to require Switchgear Manufacturer to provide preliminary review information to the Power System Study Engineer to perform saturation calculations prior to final submittal review of switchgear shop drawings.

Q - 17: Is the Dedicated Protection Relay Network Workstation specified in 26 09 18-2.18 new or existing, if it is new is the workstation that was installed under the Cogeneration project to remain or be demolished.

A - 17: The Workstation specified in 26 09 18-2.18 is new and is installed in the Arc Flash Room in the new Blower Building Electrical Room. The existing workstation is to remain in Area 33

Electrical Room and be networked such that the same information is Available in the Area 33 Electrical Room and the Area 34 Electrical Room(Arc Flash Room).

Q - 18:26 09 18-2.20.A.3 specifies I/O or Communications coming from the cogeneration control system shall be simulated in the Standby Power System Switchgear factory test. Does the simulation have to be running on like PLCs, if so should these be included as spares.

A - 18:Simulation may use Vendor's test bed PC's, like PLCs do not need to be provided for simulation, however, Vendor shall use updated program created by Thomson Power Systems and a representative from Thomson Power Systems shall be present for factory witness testing. 26 09 18 and 26 13 26 has been revised in this Addendum to clarify a representative from TPS is required at the factory witness testing and PLCs specific to testing are not required.

Q - 19:Is the SEL-2505 listed in 26 09 18 provided by the SPS Vendor.

A - 19: No, per 26 09 18-1.01.D the SEL-2505 hardware is provided by the 26 11 16.13 Vendor. However, programming and network integration into the SPS Protection Relay Network is to be provided by the SPS Vendor.

Q - 20:Is conformal coating required for the PLC's or the Protection Relays?

A - 20:Additional conformal coating beyond what may be provided as standard is not required.

Q - 21:26 09 72-2.03.A.1 specifies requirements for SPS system panels in Hazardous Locations. Are there any Hazardous Locations on this project?

A - 21:No. There are no panels in hazardous locations in the blower building.

Q - 22:26 09 72 requires panels to include forced air ventilation if panel heat load calculations indicate the interior temperature of the cabinet will exceed 115 Degrees. What ambient room temperature may we assume.

A - 22:Vendor may assume switchgear electrical room, and arc flash room will be conditioned spaces held at reasonably comfortable temperatures, not to exceed 85°F. Panels located in Generator enclosure ambient shall be deduced by Vendor based on required airflow for engine as specified in 26 32 13.13.

Q - 23:For the panel wiring specified in 26 09 72 is SIS wiring acceptable.

A - 23:Yes, SIS wiring is acceptable. Revised 26 09 72 specification is included with this Addendum.

Q - 24:Are Allen Bradley/Rockwell PLCs approved equals to the Modicon M580 PLCs specified in 26 09 72-2.08?

A - 24: No. CVWRF has standardized on the Modicon platform. Allen Bradley will not be approved as an equal.

Q - 25:26 09 72-2.07.B.1 specifies an analog meter. Would a digital meter/representation be acceptable.

A - 25:Yes.

Q - 26: 26 09 72-2.08.D specifies requirement for IEC 61850 module. How is 61850 to be used in the Controls.

A - 26: See Answer 7 provided in this Addendum.

Q - 27: 26 09 74 requests Hard Copy submission of programming printout. Is submitting PDF and Native File only ok (I.E. not printing out the programming code).

A - 27: This is acceptable. Revised 26 09 74 included in this Addendum.

Q - 28: 26 09 74-2.05 specifies an Online Help system. Is our standard help system sufficient to meet this requirement?

A - 28: Vendors standard help system may be sufficient to meet CVWRF's needs or may be sufficient with modifications. Full requirements from CVWRF for the help system will be an agenda developed in Meeting 1 specified in 26 09 74-1.05.A.3.a.

Q - 29: Is the SPS vendor or the Contractor required to provide the seismic calculations and drawings specified in 26 13 26-1.06.B.5.

A - 29: Seismic requirements are project wide requirements that are applicable to all equipment and the Contractor is required to retain the services of a Professional Engineer to provide the calculations and drawings. However, the Vendor shall be required to provide the Contractor with all that is required to do those calculations, such as equipment weights and centers of mass, bolt hole locations, anchorage requirements etc. The vendor shall also be responsible for providing seismically certified equipment as specified in 26 13 26 – 1.10.C

Q - 30: Are the arrestors specified in 26 13 26-2.03.D shown on the drawings?

A - 30: Yes, these are not shown on the condensed onelines E-34-7002 & 7003 but rather on the detailed medium voltage switchgear onelines E-00-7010 through 7033. Each switchgear vendor has different requirements based on their switchgear construction and breaker technology so ratings are not specified on drawings and are to be sized/rated by the vendor per their requirements.

Q - 31: We don't see OIS 26 09 70-1.04 in the definitions, is this the same thing as an OIT.

A - 31: For the purposes of this specification Operator Interface Terminal (OIT) and Operator Interface Station (OIS) were used interchangeably.

Q - 32: We notice the specified switchgear has both busway and cablebus connections, do these connections need to be coordinated during shop drawing development.

A - 32: Yes, the SPS vendor shop drawings will not be approved until it has been demonstrated the switchgear has been coordinated with the shop drawings for the cable bus and busway.

Q - 33: 26 13 26-2.05.F specifies IR view windows as a safety by design feature of the switchgear. How large should these windows be?

A - 33: Vendor shall locate and size windows to provide field of view to allow for proper inspection of switchgear but at minimum one 6"x4" view window per section shall be provided. Provide additional windows as necessary where multiple incoming or outgoing connections are included in a single section or if the view of a single window is somehow otherwise obstructed. Additional windows per section may be smaller 4" round type.

Q - 34: 26 13 26-2.13.A.2 specifies assembled system tested in the factory prior to shipment. Is it required to ship the project generators to the switchgear factory for assembled testing at the factory or may the generator sources be simulated similar to the utility sources.

A - 34: Factory testing of the switchgear may use simulated sources. I.E. project generators do not need to be shipped to the switchgear factory for testing. Vendor shall develop full testing schedule for both factory and field to ensure any tests which were not completed in the factory are covered in field testing. Elements which require live sources for confirmation, such as CT polarity wiring, shall still be otherwise tested and confirmed prior to leaving the factory.

Q - 35: Does the remote racking requirements specified in 26 13 26-2.03.F.7 apply to motor starter sections of the switchgear as well?

A - 35: It is the Engineer's understanding that no such standard product exists for remote racking of contactor or motor starter sections. Remote racking requirements identified in the specifications apply to circuit breaker sections only.

Q - 36: For SPS equipment that cannot be provided as NEMA 12 as standard is NEMA 1 Gasketed sufficient?

A - 36: For indoor dry installed SPS equipment NEMA 1 Gasketed is acceptable.

Q - 37: For the Control Cabinets inside the generator enclosures specified in 26 32 13.13 is it acceptable for those to be located in the same structure as the generator breaker.

A - 37: It is acceptable for the control cabinets to be combined with the generator breaker provided they are located in a compartmentalized control section or cubicle of the switchgear. The protection relay associated with the generator breaker may be mounted on the door of the generator breaker at the discretion of the switchgear vendor. Provide mounting extension collars as required.

Q - 38: There are modifications to the specifications/project requirements that could be made to increase reliability or equipment longevity such as Class F instead of Class H insulation on the generators, or dual redundant starting motors. Would CVWRF be willing to entertain these options.

A - 38: Submit base bids based on the Contract Documents as currently specified. Any changes based on Vendor recommendations in pursuance of cost, redundancy, reliability or other factors, may be considered on a case by case basis post award of the project.

Q - 39: We noticed the A side switchgear and B side switchgear elevations are not symmetrical. Was that done on purpose?

A - 39: Yes. Structural beams beneath the electrical room floor dictate where bottom cable entry sections can be placed. Top switchgear entry of Cablebus and Busway sections were specifically chosen to coordinate with beam locations. Coordination of these elevations with allowable floor penetration locations is critically important and switchgear elevations which have not been coordinated with structural building features will not be approved.

Q - 40: Will a valve schedule be provided?

A - 40: See attachment C for the enclosed valve list, Contract verification required, and P&ID information is to govern.

Q - 41: Sheet C-00-1210 Key Note 9 Calls for a 3' stem wall with security fencing and states to see the structural. Can you tell me where in the structural drawing this is located? And can you provide specifications?

A - 41: The fence details are shown on sheet A-34-5013, see attached.

Q - 42: Sheet C-00-1210 Key Note 10 Calls for a sliding gate and states to see the structural. Can you tell me where in the structural drawing this is located? Please provide specifications.

A - 42: Sliding gate information shown on Sheet A-34-5013.

Q - 43: Sheet C-00-3033 & C-00-3034, on the lower left corner of the Are Plan there is what appears to be a fire hydrant. There is no call out or description of this line. What is the intent here?

A - 43: Was the intention of the question referring to the fire hydrant shown on the RIGHT side of C-00-3033 and C-00-3034? If so, the routing for this hydrant is shown on C-00-3035. C-00-3033 shows information about the 6" 1W. C-00-3034 shows information about the 6" PD. The C-00-13XX series shows all utilities with callouts to a C-00-30XX sheet, which shows an individual utility routings and profile. Please refer to the C-00-13XX sheets to find the referenced sheet for each individual utility.

Q - 44: Sheet C-00-3039, there are two lines connecting to existing pipe besides the 8" STD Line. There is no call out or description of these lines. What is the intent here?

A - 44: The two lines are shown on other C-00-30XX sheets. See answer to question 3 above.

Q - 45: Sheet C-00-1006 Key Note 1 calls out the 4" Underdrain and directs us to look at the structural drawings for details. I cannot see the details on the structural, what is the elevation of the underdrain?

A - 45: Inv. El 4217.40

Q - 46: Sheet C-00-1006 Key Note 1 calls out the 4" Underdrain and directs us to look at the structural drawings for details. I cannot see the details on the structural, is the gravel bedding encased in filter fabric?

A - 46: Yes, see foundation treatment in section 31 23 00.

Q - 47: Key Note 1 on sheet A-34-1008 calls for a hatch and says to see the structural. I can not find any mention of a hatch in the structural. Where is the hatched detailed?

A - 47: See Sheet P-34-1007 for hatch callout.

Q - 48: On sheet S-34-1009 there are dashed lines around some of the floor openings. What do the dashed lined signify?

A - 48: They reference housekeeping pads (See S-34-1011 and electrical sheets).

Q - 49: RWYP349406-F in the raceway schedule denotes that it terminates at BLDG 34 North Wall. Is this the very far north wall of the building, or the north wall of the mechanical room in the basement? There are other raceways that terminate at the north wall of the basement and they have the same notation in the "raceway to" field in the schedule.

A - 49: RWYP349406-F should terminate at the north wall of the mechanical room in the basement. All references to "BLDG 34 North Wall" refers to the north basement wall.

RWYP349406-F was meant to be a spare conduit with a pull rope and has been updated in the raceway schedule specification 26 06 20.24 submitted as part of this Addendum.

Q - 50: It is not clear if the two starters and the cabinet in the plenum for each blower (i.e. CS340141, CS340151, and CAB340100 for blower 1) are supplied by the blower vendor? If they are not, please provide which Panel Layout Drawing and detail applies to the starters and control cabinet like shown in the Process Control System Panel Schedule in the specs (40 67 00).

A - 50: CS340141 and CS340151 are supplied by the blower vendor. They are going to be the Rotork IQ Mk3 Hand Stations. CAB340100 is not to be supplied by the Blower vendor, it is a separate filter that will be bid on as part of the main package. The control panel, CAB340100 is to be supplied by the filter vendor per spec 43 15 13.33 as part of a packaged unit.

Q - 51: Are the floor boxes shown on E-34-1322 in addition to the floor boxes shown on E-34-1122?

A - 51: Yes, the floor boxes shown on drawing E-34-1322 are dedicate receptacle floor boxes. The floor boxes shown on E-34-1122 are to provide future AV cabling.

Q - 52: E-34-1424 references detail E2806 & E2807. Those details are not included in the Details document. Please provide the raised floor grounding details. If the cable tray is indeed installed below the raised floor, please provide that detail as well.

A - 52: These details, E2806 and E2807, are provided as part of this Addendum.

Q - 53: Please provide clarification on the comments section of the raceway schedule for fiber conduit. There are some conduit runs that have 4" listed for size, then in the comments it lists (3) 4" - 3 cell innerduct (RWYF340001A-A for example). Is it truly desired to have (3) 3-cell innerducts designed for 4" conduit installed in (1) 4" conduit? From what can be researched, only (2) 4" 3-cell innerducts can be installed in (1) 4" conduit.

A - 53: RWYF340001A-A should reflect IDFM - (3) 3" - 3 CELL INNERDUCT. The cable schedule comments in specification 26 06 20.23 are updated as part of this Addendum.

Q - 54: There are details that depict installations for hazardous locations (detail E9003 for example). Are there any classified locations in the blower building? There does not appear to be notation of such in the drawings, and the equipment does not appear to indicate that there are any hazardous processes in this building.

A - 54: There are no classified locations in the Blower Building.

Q - 55: Are the wireless access points provided by the owner? There is no information regarding the WAPs in the specs with regards to approved manufacturers and other requirements.

A - 55: Yes, the wireless access points (WAPs) are to be provided and installed by the owner.

Q - 56: 3Fire Sprinkler piping. The fire sprinkler vendor has several options for their piping. Since it is impracticable to field sandblast and prime, will the piping come factory prepped and primed? Or Galvanized? If galvanized will field painting be required? What color will the fire sprinkler piping be? Same as exposed ceilings or a different color?

A - 56: The fire sprinkler piping will be black steel. It is not currently called out to be painted.

Q - 57: Will the fire sprinkler piping be coated in areas where it will be concealed by the ACT-1 or GB ceilings?

A - 57: Fire sprinkler piping is not required to be coated in areas where it will be concealed by the ACT-1 or GM ceilings.

Q - 58: What will the fire sprinkler piping layout be for the FM200 systems?

A - 58: The piping layout for the FM 200 systems is very limited. In a small space, the discharge nozzles are installed at the tanks. In larger spaces, the piping will be run to facilitate a more even distribution, but still limited piping away from the tanks.

Q - 59: Please advise if the Process Liquid Analytical Measurement Instrumentation listed in Section 40 75 00 is part of the Scope of Supply for this particular bidding project?

A - 59: There are no analytical analyzers being provided in this project. Section 40 75 00 will be deleted from the specifications.

Q - 60: The VRSC estimators are requesting *Shannon & Wilson Seismic Report*. Will you be able to provide this in the next day or two?

A - 60: See Attachment D for Shannon & Wilson Seismic Report dated December 23, 2019.

Q - 61: On pages P-34-1006 and P-34-1007 a 48" Victaulic W257 is shown, is this to be 1 each complete unit with 2" of vertical and 2" of horizontal movement. The overall length is between 10 and 15 feet.

A - 61: Provide one W257 assembly. Drawings show one assembly with 2 pairs of couplings (OAL 16'-1") to accommodate differential movement. Contractor may propose a shorter W257 assembly with 3 or 4 pairs of couplings.

Q - 62: Can additional approved Substation Transformer Manufacturers be added to specification 26 11 16.13 Substation Transformers.

A - 62: Revised specification 26 11 16.13 Substation Transformers is included in this Addendum with additional manufacturers listed.

Q - 63: Can additional approved Medium Voltage Switchgear Manufacturers be added to specification 26 13 26 Medium Voltage Switchgear.

A - 63: Revised Specification 26 13 26 Medium Voltage Switchgear is included in this Addendum with additional manufacturer listed. Contractor shall note unit responsibility requirements have not changed for the switchgear and are still under the approved generator manufacturer scope of supply. Additional switchgear integrators chosen by one of the approved generator manufacturers whose designs use one of the three listed MV Switchgear Breakers are able to be considered as an Equal provided they meet the other requirements of the specifications.

Q - 64: Can additional approved Medium Voltage Busway manufacturers be added to specification 26 15 13 Medium Voltage Busway?

A - 64: Revised specification 26 15 13 Medium Voltage Busway is included in this Addendum with additional manufacturers listed.

Q - 65:Can additional approved Low Voltage Switchgear manufacturers be added to specification 26 23 00.

A - 65:Revised Specification 26 23 00 Low Voltage Switchgear is included in this Addendum with additional manufacturers listed. Contractor shall note design shown in Contract Documents is based on first listed manufacturer, whose switchgear does not require the use of Arc Exhaust Ducts or Plenums to achieve Type 2B arc resistance. Other technology used to achieve Type 2B Arc-Resistance by other manufacturers is acceptable, however the Contractor shall design and coordinate all changes required to the Work to accommodate alternate technologies or layouts, including plenum design, routing, support, and penetrations; and cost of this shall be included in the Bid.

Q - 66:Can additional approved Individual Motor Starter manufacturers be added to specification 26 29 13.

A - 66:Revised specification 26 29 13 Individual Motor Starters is included in this Addendum with additional manufacturer listed.

Q - 67:Can additional approved Variable Frequency Motor Controller manufacturers be added to 26 29 23?

A - 67:Revised specification 26 29 23 Variable Frequency Motor Controllers is included in this Addendum with additional manufacturers listed.

Q - 68:Can additional approved Stationary Battery manufacturers be added to 26 33 19?

A - 68:Revised specification 26 33 19 is included in this Addendum with additional manufacturers listed.

Q - 69:Should concrete for basement area of the blower building include Xypex?

A - 69:Xypex is not required for basement area of blower building. Walls for blower building basement will require waterproofing with drain board, see Sheet A-34-6001 Wall Type 1.

Q - 70: Can additional approved Automatic Power Factor Correction Capacitor manufacturers be added to 26 35 33.13.

A - 70:Revised specification 26 35 33.13 is included in this Addendum with additional manufacturers listed.

Q - 71:Can additional approved Automatic Transfer Switch Manufacturers be added to 26 36 23?

A - 71:Revised specification 26 36 23 is included in this Addendum with additional manufacturers listed.

2. **Directives/Clarifiers**

- a. Addendum No. 2 Question 43. Blower Building does **not** require Sprayed Fire Resistive Material.

3. **Specifications:**

- a. Delete 00 41 00 Bid Form in its entirety and replace with updated attached 00 41 00 Bid Form.
- b. Delete 00 80 00 Supplemental Conditions in its entirety and replace with updated attached 00 80 00 Supplemental Conditions.
- c. Delete 23 05 00 Common Work Results for HVAC in its entirety and replace with updated attached 23 05 00 Common Work Results for HVAC.
- d. Delete 23 09 00 Instrumentation and Control for HVAC in its entirety and replace with updated attached 23 09 00 Instrumentation and Control for HVAC.
- e. Delete 23 09 93 Sequence of Operations in its entirety and replace with updated attached 23 09 93 Sequence of Operations.
- f. Delete 26 05 00 Common Work Results for Electrical in its entirety and replace with updated attached 26 05 00 Common Work Results for Electrical .
- g. Delete 26 05 33 Raceways, Boxes and Supports in its entirety and replace with updated attached 26 05 33 Raceways, Boxes and Supports.
- h. Delete 26 09 18 Protection Relays and Protection Relay Networks in its entirety and replace with updated attached 26 09 18 Protection Relays and Protection Relay Networks.
- i. Delete 26 06 20.23 Electrical Cable Schedule in its entirety and replace with updated attached 26 06 20.23 Electrical Cable Schedule.
- j. Delete 26 06 20.24 Electrical Cable Tray and Raceway Schedule in its entirety and replace with updated 26 06 20.24 Electrical Cable Schedule.
- k. Delete 26 09 70 Standby Power System Control and Network General Provisions in its entirety and replace with updated attached 26 09 70 Standby Power System Control and Network General Provisions.
- l. Delete 26 09 72 Standby Power System Panels Racks and Equipment in its entirety and replace with updated attached 26 09 72 Standby Power System Panels Racks and Equipment.
- m. Delete 26 09 74 Standby Power System Programing and Integration with Existing Systems in its entirety and replace with updated attached 26 09 74 Standby Power System Programing and Integration with Existing Systems.
- n. Delete 26 11 16.13 Substation Transformers in its entirety and replace with updated attached 26 11 16.13 Substation Transformers.
- o. Delete 26 13 26 Medium-Voltage Metal Clad Switchgear in its entirety and replace with updated attached 26 13 26 Medium-Voltage Metal Clad Switchgear.
- p. Delete 26 32 13.13 Standby Power System Diesel Engine Generator Sets in its entirety and replace with updated attached 26 32 13.13 Standby Power System Diesel Engine Generator Sets.
- q. Delete 26 33 19 125V Stationary Battery & Equipment in its entirety and replace with updated attached 26 33 19 125V Stationary Battery & Equipment.
- r. Delete 26 50 00 Luminaires in its entirety and replace with updated attached 26 50 00 Luminaires.
- s. Delete 28 10 00 Access Control in its entirety and replace with updated attached 28 10 00 Access Control.

- t. Delete 28 23 00 Video Management System in its entirety and replace with updated attached 28 23 00 Video Management System.
- u. Delete 40 05 02.01 Process Air Piping in its entirety and replace with updated attached 40 05 02.01 Process Air Piping.
- v. Delete 40 05 02.23 Potable Water in its entirety and replace with updated attached 40 05 02.23 Potable Water.
- w. Delete 40 05 02.29 Plant Utility Water, Medium Pressure in its entirety and replace with updated attached 40 05 02.29 Plant Utility Water, Medium Pressure.
- x. Delete 40 05 63.08 Ball Valve, Stainless Steel Flanged in its entirety and replace with updated attached 40 05 63.08 Ball Valve, Stainless Steel Flanged.
- y. Delete 40 61 93.34 Process Control System Area 34 IO List in its entirety and replace with updated attached 40 61 93.34 Process Control System Area 34 IO List.
- z. Delete 40 70 93.34 Process Control System Area 34 Instrument List in its entirety and replace with updated attached 40 70 93.34 Process Control System Area 34 Instrument List.
- aa. Delete 40 70 93 Process Control System Instrument List in its entirety and replace with updated attached 40 70 93 Process Control System Instrument List.
- bb. Add 28 31 11 Digital, Addressable Fire Alarm System
- cc. Delete 40 75 00 Process Liquid Analytical Measurement in its entirety.
- dd. Equipment provided under Sections 28 10 00 and 28 23 00 are to be provided by the same contractor, as the integration of these systems requires a single source of responsibility. Clarification edits have been identified in both sections.
- ee. Delete 26 15 13 Medium Voltage Busway in its entirety and replace with updated attached 26 15 13.
- ff. Delete 26 23 00 Low Voltage Switchgear in its entirety and replace with updated attached 26 23 00.
- gg. Delete 26 29 13 Individual Motor Starters in its entirety and replace with updated attached 26 29 13.
- hh. Delete 29 29 23 Variable Frequency Motor Controllers and replace with updated attached 26 29 23.
- ii. Delete 26 35 33.13 Power Factor Correction Equipment in its entirety and replace with updated attached 26 35 33.13.
- jj. Delete 26 36 23 Automatic Transfer Switches in its entirety and replace with updated attached 26 36 23.

4. **Drawings:**

- a. Replace or add the following drawings with the attached drawings:

1) A-34-5013

- 2) M-34-1007
- 3) M-34-1008
- 4) M-34-1011
- 5) E-00-1006
- 6) E-00-1010
- 7) E-00-7015
- 8) E-00-7021
- 9) E-00-7030
- 10) E-00-7112
- 11) E-05-7001
- 12) E-34-1113
- 13) E-34-1114
- 14) E-34-3001
- 15) E-34-4003
- 16) E-34-6001
- 17) E-34-6002
- 18) E-34-6003
- 19) E-34-6004
- 20) E-34-6007
- 21) E-34-7151
- 22) I-33-6102
- 23) I-34-6002
- 24) I-34-6003
- 25) I-34-6004
- 26) I-34-6005
- 27) I-34-6006
- 28) I-34-6011
- 29) I-34-6093
- 30) I-34-6094
- 31) I-34-6095
- 32) I-34-6102
- 33) I-34-6103
- 34) P-34-1007
- 35) P-34-1008
- 36) P-34-3001
- 37) P-34-4001
- 38) P-34-4201
- 39) Typical Detail E2806
- 40) Typical Detail E2807

5. **Attachments:**

Attachment A – Revised Drawings (replace original or add these new drawings)

Attachment B – Revised Specifications (replace original or add these new specifications)

Attachment C – Valve List

Attachment D – Shannon and Wilson Seismic Report

Note: This geotechnical report is to be added to Section 00 80 00 SC 5-03.C.3 as additional technical data.

Date: March 3rd, 2020



END OF SECTION

Addendum No. 3