



December 13, 2018

ADDENDUM NO. 4 TO SPECIFICATION NO. 1338W
Perris II Desalination Facility

This addendum to the specifications is for the purpose of adding, clarifying, or deleting certain information to the construction drawings and project specifications as follows:

BIDDING SHEETS

REVISE the following bid item:

Bid Item	Qty	Unit	Description	Unit Price	Total
19	1	LS	<u>Security System:</u> Procure and install security system and ancillary equipment as defined by the Pre-negotiated Contract Proposal by Maxim Security dated May 9, 2018 December 3, 2018.		
			<u>One Hundred Eighty Six Thousand Three</u>		
			<u>Hundred Sixteen Dollars & Twelve Cents</u>	\$ PRESET	\$ <u>186,316.12</u>
			(words)		

THE BIDDING SHEETS HAVE BEEN UPDATED AND ARE INCLUDED IN THE REVISED PROPOSAL PACKAGED MADE A PART OF THIS ADDENDUM. FAILURE TO SUBMIT THE REVISED PROPOSAL PACKAGE "MAY" DEEM YOUR BID NON-RESPONSIVE

EMWD DETAILED PROVISIONS

Section 13123 Electrical Panel Sunshade Structure
 DELETE Section 13123 in its entirety

QUESTIONS & ANSWERS

Kiewit

- Q1. F-04 states *“The Contractor shall not commence work under this Contract until he has obtained and submitted all policies of insurance (including all endorsements) acceptable to the District, nor shall he allow any subcontractor to commence work until all policies of insurance of the subcontractor have been obtained (by the Contractor), as required hereunder.”* Please note, it may take up to 60 days to obtain policies and this could delay work. Please request this be amended to *“The Contractor shall not commence work under this Contract until he has obtained and submitted certificates of insurance acceptable to the District, nor shall he allow any subcontractor to commence work until the Contractor has verified that the subcontractor has obtained all required insurance as determined by the Contractor.”*
- A1. F-04 requirements will not be amended.
- Q2. F-04 states *“The Contractor and his subcontractors shall take out and maintain insurance, with coverage acceptable to the District, at his sole cost and expense at all times during the life of this Contract, including the entire time of the Contractor’s guarantee.”* Please amend this requirement to read *“The Contractor shall take out and maintain insurance, with coverage acceptable to the District, at his sole cost and expense at all times during the life of this Contract, including the entire time of the Contractor’s guarantee.”* and allow the contractor to determine the kinds and amounts of insurance it requires of its subcontractors per their normal and responsible business practices, given that the contractor must indemnify the District for the acts of its subcontractors. Some subcontractors, especially DBE’s, may not be able to meet the insurance requirements set forth in these documents.
- A2. F-04 requirements will not be amended.
- Q3. F-04 A 4. states *“Self Insured Retention (SIR) greater than \$10,000 is not acceptable on any policy.”* Please confirm that the Contractor may be a qualified self-insurer, for workers compensation, in the state of California.
- A3. F-04 requirements will not be amended.

- Q4. F-04 states *“The Contractor and his subcontractors shall take out and maintain the following policies of ‘occurrence form’ – type insurance with coverage acceptable to the District.”* Please amend this to read *“The Contractor shall take out and maintain the following policies of ‘occurrence form’ – type insurance with coverage acceptable to the District”* and allow the Contractor to determine the kinds and amounts of insurance it requires of its subcontractors, per their normal and responsible business practices; given that the Contractor must indemnify the District of the acts of its subcontractors. It may be cost prohibitive or commercially unavailable for some subcontractors, especially DBE’s, to meet these insurance requirements.
- A4. F-04 requirements will not be amended.
- Q5. F-04 K. states *“The Contractor shall maintain or cause to be maintained at all times during the life of this contract, an Installation Floater in the amount of the total contract value.”* Please confirm this section is no longer valid as the District is providing builders’ risk insurance. If this is still required, please elaborate on what the policy should cover? It seems like this is to cover the work in progress, however the builders’ risk provided by the District is covering the work.
- A5. The DISTRICT shall obtain the Builder’s All Risk policy to include damage caused by Fire, Extended Coverage, Vandalism, and all other perils (AOP). **Builder’s Risk Deductible:** The CONTRACTOR’s risk of loss shall include the deductible on the Builder’s Risk contract. **Installation Floater is not required.**
- Q6. SC-08 states *“At all times during the life of this contract, Contractor and his subcontractors shall procure and maintain commercial liability, automobile liability, workers compensation, equipment floater and installation floater per Section F – General Conditions, F-04. Contractor and Subcontractor’s Insurance.”* Please amend this section to read *“At all times during the life of this contract, Contractor shall procure and maintain commercial liability, automobile liability, workers compensation, equipment floater and installation floater per Section F..”* and allow the Contractor to determine the kinds and amounts of insurance it requires of its subcontractors, per their normal and responsible business practices; given that the Contractor must indemnify the District of the acts of its subcontractors. It may be cost prohibitive or commercially unavailable for some subcontractors, especially DBE’s, to meet these insurance requirements.
- A6. SC-08 requirements will not be amended.

- Q7. SC-08 states *"The Builder's Risk contract is for a period of approximately 27 months – the estimated contracted time for completion. The Primary contractor shall be responsible for any additional premium charges if, for any reason, the project requires an extension of coverage, not caused solely by the District."* Please amend this to read *"The Primary contractor shall be responsible for any additional premium charges if, for any reason, the project requires an extension of coverage caused solely by the Contractor."*
- A7. SC-08 requirements will not be amended.
- Q8. SC-08 states *"Earthquake/ Flood coverage is at the discretion of the District and will be noted as such upon awarding of the contract."* Please confirm whether or not flood and earthquake coverage will be provided. If this is not provided, the Contractor may want to purchase their own coverage for these risks and should be allowed to include the cost of these coverages in their bid.
- A8. Flood and Earthquake coverage will be provided by the District with Sublimits of 10 Million.
- Q9. Specification 02200-4 Section 2-1.02 references that polyethylene vapor barrier "shall be installed under the RO Building where noted". Drawing S-30-301 show vapor barrier limits under part of the RO Building slab. Should we assume to provide vapor barrier to these given limits or under all RO Building slabs?
- A9. Please provide vapor barrier for RO Building Chemical Room, Research Room and Administrative areas (entry hall, hallways, control and server rooms, break room, restroom, offices). Rooms with floor finishes such as coating, floor tiles or carpet need vapor barrier. Vapor barrier not required below RO Process Room, Electrical Room, Maintenance Shop, Mechanical Room and Fire Riser Room.
- Q10. Specification 02200, article 3-2.10 identifies over excavation requirements. Shall the Contractor assume vaults, manholes, and catch basins require the 3' as detailed under sub section 01, over excavation of structural areas? OR 6" as detailed under sub section 03, over excavation of pipe trenches?
- A10. Contractor to assume that manholes, boxes/vaults and catch basins will require the same over-excavation as pipe trenches, 6-inches.
- Q11. Spec 02200-4 Section 2-1.02 references that polyethylene barrier "shall be installed under the RO Building where noted, Chemical Sump, and Brine Receiving Station". Drawing S-20-301 shows vapor barrier under the Forebay and RO Transfer Pump Station. Please verify if vapor barrier is necessary for the Forebay and RO Transfer Pump Station.
- A11. Vapor barrier not required below forebay or RO transfer pump station.

- Q12. Specification 13123, Electrical Sunshade Structure requires the Contractor to Design and Construct and structural steel sunshade complete with foundations, framing, roofing system, and painting over electrical equipment. Please provide the required roof clearance and foot print or area of the sun shade structure. Is the structure to cover the electrical equipment only? Or all exposed equipment?
- A12. Specification Section 13123 to be removed in its entirety. Intent was to provide sunshade for local instrumentation OIT. Contractor to design and fabricate galvanized sunshade (galvanized steel plate, 16 Gauge) with pedestal mount for exterior displays (flow meters, pressure indicators). Example sunshade shown in picture below.



- Q13. Please provide Appendix D, Electrical Service Plan (SCE).
- A13. The preliminary SCE Service Plan is included with Addendum 3.
- Q14. Specification 13300, article 2-2.05 requires antenna mounts for the microwave system. Will the Contractor or EMWD be providing and installing the microwave system? If the Contractor is required to provide, please provide the specification.
- A14. Microwave system will be installed in the future as part of a future contract.
- Q15. Specification 13300, article 2-2.03 and 2.04 detail lighting requirements. For a 40' tower, the FAA does not require lighting. Should the Contractor assume lighting shall be installed even though it is not required by the FAA?
- A15. Contractor to assume lighting is not required.

- Q16. Drawing M-60-301, note 3 states, the Contractor to verify the new brine pump's sole plate is matching with the existing anchor bolt pattern. Please provide the existing pump size and anchor bolt details to allow the Contractor to verify if the existing bolts are suitable to accommodate the new pump size. If the existing bolts are unable to accommodate the new pump, the existing equipment pad and anchor bolts will have to be replaced.
- A16. Pump template not available. Contractor to field verify pump base plate dimensions and anchor diameters. Bid to assume and include replacement of existing pad and anchor bolts. Costs for pad and anchor bolt replacement to be included with Schedule of Values.
- Q17. Drawing M-60-301 shows the existing brine pump station basin slurry filled. Please confirm if the Contractor is to slurry fill the basin or if this basin is already slurry filled.
- A17. Basin is currently slurry filled.
- Q18. Specification 02221 states the minimum cover on electrical lines is 36". Both the trenching and electrical specification sections are silent on low point and if there are required slopes. Are low points allowable for electrical duct banks and / or conduit runs between pull boxes and manholes? Is there a minimum slope on electrical duct banks and conduits?
- A18. Minimum cover for electrical lines is 2'6" per Direct Buried Conduit Section detail shown on Drawing E-00-503. Underground conduits shall be sloped to drain from buildings to manholes per spec 16050. Utility conduits shall conform to SCE standards. Additional requirements on conduit and duct bank methods can be found in section 16050.
- Q19. Additional electrical conduits are required beyond the electrical duct banks detailed on drawings E-00-301 and 302. May all other site lighting, power distribution, and low voltage conduits be direct buried? Or are all high and low voltage electrical conduits required to be red oxide concrete encased?
- A19. Low voltage direct bury conduit may be Direct Buried Conduit Section detail shown on Drawing E-00-503. All high voltage (Utility) conduits shall conform to SCE standards.
- Q20. Specification 02200, article 3-2.10.01 requires minimum to 7' over excavation below existing grade or 3' below spread footings in structural areas. Does this specification requirement apply to the perimeter wall footing? Does this specification requirement apply to miscellaneous equipment pads, such as card readers, rolling gates, electrical pads, manholes, pull boxes, catch basins, HVAC pads, concrete slabs on grade, or kiosks for analyzer panels and flow meters?

- A20. Over-excavation requirement based on geotechnical finding that generally the top seven feet of soil at the site is loosely compacted and disturbed fill.

The 7' over excavation below existing grade or 3' below spread footings in structural areas will apply to all structural loading areas including slab on grade, HVAC and electrical equipment pads, tank pads, kiosk pads, perimeter walls, concrete pipe supports and other structures.

Rolling gates to assume the same 2-foot over-excavation as pavement.

Miscellaneous pads (card readers, OITs) do not require over-excavation.

Manholes, catch basin, vaults, BMPs, electrical pull boxes and junction boxes will require the same over-excavation as pipe trenches, 6-inches. An allowance has been added as part of Bid item 21 as part of Addendum 3 for pipe trench over-excavation and backfill.

- Q21. Specification 03300, article 3.09 B and C, requires all water bearing structure formed concrete to be brush-off blast cleaned to SSPC-SP7. Does this surface preparation / cleaning apply to both interior and exterior surfaces on water bearing structures? Or interior surfaces only?
- A21. All concrete surfaces within water-containing that are in contact with the water are to be prepared to SSPC-SP7
- Q22. The deferred submittal notes on drawings S-00-001 requires the Contractor to complete design and submit the following list of currently uncompleted design items to the permitting agency for acceptance prior to the installation of that portion of the work.
- a. Specification 03150 – Formwork
 - b. Specification 03450 – Architectural Precast Concrete Wall Panels
 - c. Specification 03480 – Precast Reinforced Concrete Vaults and Manholes
 - d. Specification 05100 – Fabricated Structural Steel
 - e. Specification 05210 – Open Web Steel Joists and Girders
 - f. Specification 05312 – Metal Decking
 - g. Specification 05520 – Metal Guard Railing and Handrails
 - h. Specification 05550 – Equipment Anchorages in Concrete
 - i. Specification 06610 – FRP Floor Grating and Supports
 - j. Specification 08950 – Translucent Wall Panel Systems
 - k. Storage tanks, piping systems, cabinets, equipment components in which a technical specification requires submittal of such items, including design or anchorage, requiring the seal of a professional engineer.

What is the agency of jurisdiction that will require these deferred submittals? Has EMWD already gotten this permit and this is a permitting agency verification only? Please provide the expected permit agency review timeframe? Is EMWD or the Contractor responsible for plan review, permitting and / or inspection fees as administered from this deferred submittal review?

- A22. Deferred submittals will be submitted to the District and Engineer for review and approval. District will submit to local jurisdictions, as needed.
- Q23. Specification section 06640, article 1.01.A.3 and 3.01.E requires all vertical wall surface above concrete fills and underside of top slab or cast in place reinforced concrete structures to receive "T" Lock. Does this "T" lock requirement apply to all concrete vertical walls and ceilings on the project, such as the forebay and RO transfer pump station, RO building, chemical sump, chlorine contact and finish water pump station, chemical injection vaults, brine receiving station, and brine pump station? OR does this specification only apply to sanitary sewer manholes and vaults?
- A23. T-lock only required in sanitary sewer manholes.
- Q24. Please confirm both the interior and exterior concrete surfaces of the existing brine pump station are not required to be rehabilitated or coated under this contract.
- A24. Confirmed. Brine pump station structure rehabilitation/coating is not included as part of this contract. Should field conditions warrant the need for rehabilitation, the work associated with structure rehabilitation will be negotiated with the Contractor by change order.
- Q25. Drawing I-00-702, note 5 states the "Contractor to connect all brine system signals to existing PLC and do the necessary updates / modifications in hardware and software." Please confirm the extent of the existing system updates and modifications. Is the Contractor or EMWD responsible for cost of software upgrades? What software is currently being used? Is the Contractor or EMWD responsible for integration issues between the new and existing systems? What existing hardware shall the Contractor assume will need to be replaced?
- A25. VFD's will use existing cables wired to existing I/O modules in existing Allen-Bradley SLC PLC which is programmed with RsLogix500. There is no software upgrade/update required to use existing VFD's with new motors. Note 5 should read "CONTRACTOR TO VERIFY AND COMMISSION ALL BRINE SYSTEM SIGNALS TO EXISTING PLC (PLC-200)."

- Q26. Drawing I-00-020 shows the new brine station pumps will be utilizing the existing pump VFD's. The new brine station pumps are larger than the existing pumps, which will more than likely require a new upgraded VFD. Please confirm the Contractor will not be responsible, as detailed in the P&ID drawings, if and when the existing brine pump station pump VFDs are required to be upgraded or upsized. If the Contractor is responsible for replacing the existing pump VFDs, please provide a specification for the new VFDs and confirm if the Contractor should assume the power feeding the existing VFD is sufficient.
- A26. The VFD manufacturer (ABB) has verified that the existing VFDs are rated for the larger HP, and were well maintained. Power cable sizes were confirmed during design.
- Q27. Drawing I-00-020 shows the new brine station pumps will be utilizing the existing pump VFD's. Specification 16040, 16160, and special condition 63 detail requirements for electrical system short circuit and arc flash study as well as a VFD harmonic study. Is the Contractor to include these existing brine pump station VFDs in these analyzes? If so, please provide the existing VFD information. If these analyzes require the existing VFD to be modified, is the Contractor or EMWD responsible?
- A27. The existing 6-pulse VFDs shall be included in harmonic study. Model number is ABB ACH-550-UH-157A-4. If harmonic analysis indicates the need for VFD replacement, it will be requested that the Contractor replace the VFD through a change order.
- Q28. Appendix D as detailed under Addendum 3 details the facility Electrical Service Plan (SCE). Please address the following questions regarding Appendix D:
- a. Please confirm the Contractor's scope vs. SCE scope. Is the Contractor responsible for installing all infrastructure including excavation, electrical duct banks, concrete structures, cable install, wire terminations, etc.? Is SCE only responsible for providing all new electrical equipment, all tie-in Work and all Work within existing electrical facilities?
 - b. Please confirm EMWD is responsible for SCE's cost to complete their Work on this project. If the Contractor is responsible for SCE cost, please provide an allowance or an assumed cost the Contractor should use for basis of bid.
 - c. Please provide the anticipated delivery date for SCE provided electrical equipment? Is SCE or the Contractor responsible for procuring and installing all SCE electrical equipment?
 - d. Drawing 2 of 3 identifies the new 1000 12 kV line from new PME 9579 to existing PME 7655. Drawing 3 of 3 shows this as a new line, however, the conduit size and quantity of this new duct are missing. Please provide the quantity and sizing of this new duct bank.

- e. Drawing 2 of 3 identifies P5419587 which has new duct bank running to and from. This structure is an existing structure, but is not identified on drawing 3 of 3. The existing one line diagram shows the same load running through the existing duct bank as the new duct bank. Will the existing duct banks be reused and they are incorrectly shown as new on the new one line? Is only the cabling replaced? If the duct banks are new, please provide the conduit size and quantity for the duct banks running each way. Finally, please provide the existing location of P5419587.
- f. Drawing 2 of 3 identifies X5387683 as an existing structure with 2 new services running to and from. Drawing 3 of 3 only shows an existing service with no new duct bank. Please confirm the Contractor shall run new duct banks as detailed on drawing 2 of 3. The existing one line diagram shows the same load running through the existing duct bank as the new duct bank. Will the existing duct banks be reused and they are incorrectly shown as new on the new one line? Is only the cabling replaced? Also, please confirm the existing service is to remain in place and the Contractor is not responsible for demolition. Finally please confirm a new structure is not required for X5387683.
- g. Drawing 3 of 3 identifies all conduit runs, as an example CO: 1-5" (535'). This would be interrupted as the Contractor to install 1 each 5" conduit for a total length of 535 LF. Note, all identified conduit runs are 1 each conduit. Please confirm the quantity of conduits for each run is only 1. Given the service and the size of each electrical structure, it would be expected that these conduit runs would be much larger duct banks of conduit.

A28.

- a. Contractor is responsible for all work associated with installing electrical conduits in duct banks and concrete structures per SCE design and standards. Contractor is not responsible for cable installation or termination. Contractor is responsible for coordinating work with SCE and obtaining SCE approval on installation of duct banks and concrete structures.
- b. EMWD is responsible for costs associated with SCE work and equipment. Contractor is responsible for cost to procure and install duct banks and concrete structures.
- c. Answer: SCE has not provided a delivery date for their equipment. See answer above for Contractor responsibility.
- d. This is one 5" duct.
- e. P5419587 is not shown as new on Drawing 2 of 3. New items and equipment are identified with "NEW:" before the equipment tag.
- f. X5387683 is not shown as new on Drawing 2 of 3, and is shown with the same two feeds on both existing and new diagrams. New items and equipment are identified with "NEW:" before the equipment tag.
- g. Confirmed. Where "CO: 1-5'" is shown, only (1) 5" duct will be required.

W.M. Lyles Co.

- Q1. There is no proposal provided in Appendix H – Control Room Furniture Proposal. Please provide.
- A1. Included with Addendum 3.
- Q2. The proposal provided in Appendix I – Pre-Negotiated Security Equipment Proposal by Maxim Security expired on May 31, 2018. Please provide a valid proposal.
- A2. Included with Addendum 3.
- Q3. Note 4 on C-10-410 states that "All CMU perimeter walls are to be split face block". Is it to be split face on both sides of the wall, or only on the public side?
- A3. Please provide split face block, both sides, for perimeter walls
- Q4. Section 08331 - Overhead Coiling Aluminum Doors, calls for both uninsulated and insulated rolling doors. However, neither the specification nor the Door Schedule indicate which type at each opening. Please provide clarification for which type of door is required at each opening.
- A4. Overhead coiling doors to be insulated.
- Q5. Section 12621-1.2 states "Products shall be furnished by the Kewaunee Manufacturing Company, Hamilton-Fisher or approved equal". Section 12621-2.2 states "Products complying with this specification may be provided by the following manufacturers: Kewaunee Scientific Corporation, Bedcolab Ltd, and Mott Manufacturing Ltd, no substitutions". Please clarify which statement is correct, approved equal or no substitutions.
- A5. All manufacturers listed are acceptable (Kewaunee Scientific Corporation, Hamilton-Fisher, Bedcolab Ltd, and Mott Manufacturing Ltd), or approved equal.
- Q6. In regards to specification section 06640 - Plastic Lining for Concrete Structure. Please provide a schedule or clarify what structures and what piping get plastic lined. It is not clear if there is any plastic lining included in the project.
- A6. Plastic (T-lock) lining only required in sanitary sewer manholes.

G3 Engineering, Inc.

Q1. Weir Floway has reviewed the plans specs for section 11140 Vertical Diffusion Vane Pumps and is requesting clarification on the discharge flange diameter required for the Finished Water Pumps and the Brine Pumps. Section 11140 2-2.02 and 2-2.03 state "See drawings".

None of the drawings seem show the discharge sizes for the Finished Water Pumps and Brine Pumps. Note that drawing **D-40-101** shows the there are two different discharge sizes for the "Finished Water Pumps" (Pump tags PVE 2240 & 2230 show a larger diameter than pump tags PVE 2220 & 2210).

Please clarify the required discharge flange diameter for these pumps.

A1. The Brine Pump discharge line is 12". The Finished Water Pump (large pump) discharge line is 14". The Finished Water Pump (small pump) discharge line is 10". Increases are shown between the pump discharge and discharge line for all pumps. If pump manufacturer recommended discharge is different than the discharge line shown, contractor to provide suitable increaser fitting as appropriate.

Leed Electric, Inc.

Q1. The electrical drawings are showing the areas Types 4, 12, 1A Etc... The Specs 16050-46 3.03 showing conduit material for different locations. The area types does not explain weather these areas are considered corrosive, wet, damp, etc. Can you let me know so we can tell what conduits are permitted in these areas?

A1. The area type designations can be found on sheet E-00-002. Based on the descriptions, the specification indicates the type of conduit that shall be used.

Q2. Do you think there is a possibility of a bid extension at this time?

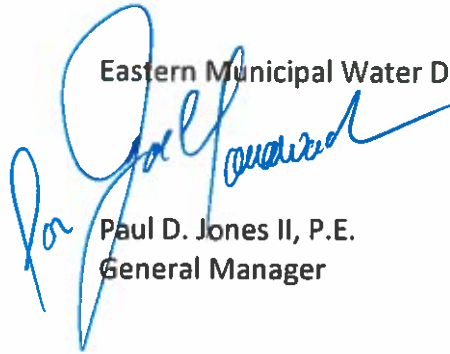
A2. No bid period extension will be provided.

R & D Mechanical Supply, Inc.

Q1. Due to the volume of the following products **MJ Restraint Kits** and **PVC Pipe Restraint Harness's**, Can you confirm what type of material should be used for the Hardware, Carbon Steel, 304SS, 316SS?

A1. Hardware for restrained joints for connections FRP, PVC and Steel shall be steel per Section 15089. Hardware for connections to SSTL pipe shall be 316 per Section 15063.

Eastern Municipal Water District



Paul D. Jones II, P.E.
General Manager

PE: aw
PM: [Signature]
DFE: [Signature]
DE: [Signature]

PDJ:CW:j

ATTACHMENTS: Proposal Package