

ADDENDUM No. 2

This Addendum consists of the following **CHANGES TO THE BID DOCUMENTS FOR OFFICIAL NOTICE No. 33-2012**:

1. **NOTICE TO CONTRACTORS:**

NOTICE TO CONTRACTORS intending to bid on the above noted Official Notice with **NEW bid opening date of Tuesday, April 24, 2012, at 10:30 a.m.** The bidder shall acknowledge receipt of this addendum on the acknowledgement page in the bid document.

Contractor shall use the attached revised bid form.

Prior to any leakage and pressure testing of newly installed potable water mains, contractor shall clean and disinfect the mains in accordance with AWWA Standard C651. Approved forms of chlorine shall be calcium hypochlorite and sodium hypochlorite. Normal sequence and time requirements are: flush mains, chlorinate mains (wait 24 hours), flush/fill mains (wait 24 hours), collect and test bacteriological sample, flush/fill mains (wait 24 hours), collect and test second bacteriological sample. Coordinate sampling and testing with MWW Operations at Florist Pumping Station. Leakage and pressure testing may commence after two consecutive "safe" water samples.

The electrical contractor shall furnish QTY (6) of Caterpillar maintenance free batteries #153-5720.

The electrical contractor shall furnish the rental and delivery of a 1MW 480V 3Phase NEMA 3R Generator Set, 1600amp transfer switch and 200 feet of fully sized 1600amp cables at the monthly single shift rate (176 hours max) for a period of 3 months from FABCO. The rental unit shall be furnished fueled ready to start. Provisions for distribution and terminating within the pumping station are to be coordinated with owner during construction. The electrical contractor is responsible for furnishing and installing a temporary 1600amp panelboard with a 500amp 3 pole distribution breaker.

The new VFD shall be furnished with inputs to receive 8 RTD analog signals. Allow for 80 hours of field services including programming and system calibration assistance from a factory VFD representative to work with MWW. The 80 hours shall be good for a period of 2 years across all MWW installations.

The new fence shall be grounded at each post location using exothermic welding. Use #1/0 bare copper cable back to the new ground grid. The fence shall be furnished with 9 gauge aluminum coated steel wire, 2.5" OD schedule 40 steel post, 3" OD schedule 40 steel corner post and 4" OD schedule 40 steel gate post.

The new fence wall shall be modified from an 8" width to a 12" width. The contractor shall furnish and install QTY (6) 5" sleeves along the new fence walls.

The 5kV retrofit of the existing switchgear will require the electrical contractor to furnish and install QTY 38 interposing relays behind the new doors to match the existing "IP" relays shown on drawing NW-47-20. The plans currently only show 33. The electrical contractor shall furnish new strip heater overcurrent protection for each cubicle of the existing 5kV switchgear to match existing and mount inside the cubicles.

Furnish a new 4" housekeeping pad for the new VFD and 480V Switchboard.

Add the following devices to the Pumping Station table on drawing NW-47-29:

QTY (4) AB1756RM

QTY (5) AB1756L72

QTY (4) AB1756ENTR

QTY (4) AB1756EN2T

Within the entire perimeter of the new substation area the last 1'-0" to finish grade shall be a 3" washed stone.

The electrical contractor shall supply QTY (11) Jesco HG-GL16S-12V-R and QTY (11) Jesco HG-GL16S-12V-G fixtures or approved equal.

The electrical contractor shall supply QTY (45) Holophane HLH-18L-T1-GF100-MVOLT-LP750-OUTCTR-IBZPMPDNA fixtures or approved equal.

With inspection prior to use and after use the existing station crane can be used for construction.

**2. PLEASE SEE THE RESPONSES BELOW TO THE REQUEST FOR INFORMATION SUBMITTED:**

**QUESTION:**

- Can WE Energies isolate and disconnect power to the existing 24.9kv and 8.3kv overhead lines upstream of the existing pole mounted transfer switch and existing substation? Would isolating and grounding out those conductors be included in the WE Energies \$80,000 allowance?

**RESPONSE:**

- **WE Energies will be able to isolate and disconnect power.**

**Isolating and grounding are included.**

**QUESTION:**

- What is the load rating of the mezzanine floor slab at the Florist Station?

**RESPONSE:**

- **P allowable = 14 kips/ftw.**

**QUESTION:**

- Could WE Energies de-energize and remove the 24.9kv, 8.3kv and 480v overhead conductors, to allow for the setting of the new equipment, then reinstall them. I would think there would need to be at least three different trips.

**RESPONSE:**

- **These lines will be converted to underground services.**

**QUESTION:**

- Could you please confirm the feeder size from the ATS/1 in the generator enclosure to the new 480v WE Energies transocket?

**RESPONSE:**

- **Furnish as indicated on the low voltage feeder schedule via (3) 3 ½” conduits.**

**QUESTION:**

- Exterior pad detail indicates a horizontal cold joint and then the final 6” top slab pour. Can the entire pad be poured monolithically?

**RESPONSE:**

- **No. Cold joint required for all details on NW-47-16.**

**QUESTION:**

- Would like to know what embedded anchor bolt settings are required in the exterior pads as well as detail of grouting under plates etc.

**RESPONSE:**

- **All anchor bolts need to be set with a two-part epoxy. Anchor bolts required for setting equipment need to be coordinated with manufacturer shop drawings. See Specification 03600 for grouting.**

**QUESTION:**

- Please confirm that per duct bank detail 4/NW-47-14 that there should be a spare 4" conduit included in the various duct packages for feeders #8, 9, 10, 11, 19 & 20 (sheet NW-47-05) regardless of however many conduits are indicated on the schedule. Are the spare conduits to be capped at grade level at the pumping station exterior wall?

**RESPONSE:**

- **Confirmed.**

**Cap conduits at grade level at the exterior wall.**

**QUESTION:**

- Is a 4/0 THHN ground wire to be included in each of the medium voltage feeder conduits?

**RESPONSE:**

- **The ground wire to be included in each of the medium voltage feeder conduits shall be furnished and installed per Specification 16121 (2.01 B).**

**QUESTION:**

- Are the feeders that are installed inside the pumping station to be PVC coated GRC conduit, per the notes on sheet NW-47-12? Would the remaining feeders for which a conduit type is not specified such as to the new VFD or PB/1 be GRC or PVC coated GRC?

**RESPONSE:**

- **Yes.**

**Unless otherwise indicated all conduit shall be GRC.**

**QUESTION:**

- With regard to the 5kV doors. Could you please clarify that you are expecting to receive brand new doors, complete with new hinges and new components? Will refurbished doors, modifying the existing doors or used/re-furbished relays be accepted?

**RESPONSE:**

- **All doors and hardware shall be NEW to match existing per General Note #3 on drawing NW-47-20.**

**QUESTION:**

- The drawings state that each breaker will need to be tested and the circuits will need to be rung out. Is the incident energy level available for each breaker cubicle? This information will be required prior to performing any work so that we can assure that our people are wearing the proper PPE clothing.

**RESPONSE:**

**MWW electricians are responsible for removing the 5kV breakers from each cubicle. Contractor shall coordinate with owner for breaker removal.**

**QUESTION:**

- Each of the breaker cubicles with require GE relays, control & test switches and lockout relays. Is there is a specific part number for the GE SR750 and SR469 relays? There are many different options available with these devices which can have an effect on the price of the relay. Also, does the City have a manufacturer preference for the control & test switches and lockout relays?

**RESPONSE:**

- **All switches shall be manufactured by Electroswitch.  
GE SR750 - 750-P5-G5-S5-HI-A20-R-T  
GE SR469 - 469-P5-HI-A20-T**

**QUESTION:**

- Who will be responsible for the disposal of the removed WE Energies metering? Is this to be turned over to the City or will the EC be responsible for disposal of the equipment?

**RESPONSE:**

- **The electrical contractor will be responsible for disposal off site.**

**QUESTION:**

- Does each of the circuit breaker cubicles have CT's and PT's installed or will new CT's and PT's be required to interface to the GE relays?

**RESPONSE:**

- **Existing PT's and CT's shall be used.**

**QUESTION:**

- Should we break out any costs associated for the survey/evaluation of PCB/ACM/petroleum products, etc from the cost of any abatement that needs to be performed, such as the transformer disposal?

**RESPONSE:**

- Yes.

**QUESTION:**

- Should the medium voltage bushings, PT's, etc all be tested for ACM or PCB? That is currently not indicated in the specifications.

**RESPONSE:**

- **The scope of the study (ACM and PCB) needs to include “ALL” equipment within the substation.**

**QUESTION:**

- Please confirm that the existing Allis-Chalmers 112.5 transformer is a dry type and does not contain oil, PCB or otherwise and does not require any such regulated disposal.

**RESPONSE:**

- **The transformer is a dry type transformer.**

**QUESTION:**

- Please confirm that the existing 300kva oil filled transformer inside the pumping station is to be assumed to contain PCB, and is to be disposed of properly.

**RESPONSE:**

- **Confirmed.**

**QUESTION:**

- Please clarify the extent and duration of the requirement to provide steel plating for the project. The existing man-way to the valve vault sticks up above grade. We could not plate over that without providing backfill to raise the grade up. If we did plate over it MWW would not be able to access the valve vault without heavy equipment to move the plates. Access would also be limited to the existing manhole.

**RESPONSE:**

- **Steel plating is required to protect underground utilities from construction traffic, cranes and any vehicles used to set outdoor equipment. Do not plate or drive over the existing vault man-way.**

**Contractor is responsible for coordinating with all utility companies that will be impacted by construction for protection of their underground installations. Any required permits and protection are the responsibility of the contractor.**



**QUESTION:**

- There is a tracking pad indicated on sheet NW-47-07A. The tracking pad is shown also covered with deck plating. What is the purpose of the tracking pad, only to have it covered with steel plate?

**RESPONSE:**

- **The stone tracking pad shall conform to WDNR Conservation Practice Standard #1057. Tracking pad location shall not interfere with site plating required to protect underground utilities. Relocate tracking pad and plating as required during construction.**

**QUESTION:**

- Will MWW provide video examination of the existing valve vault, 48" & 24" piping to confirm its existing condition before construction begins?

**RESPONSE:**

- No.

**QUESTION:**

- Will MWW locate all City owned facilities during the construction sequence?

**RESPONSE:**

**The contractor is responsible for the locating of all underground utilities prior to construction per design plan General Notes.**

**QUESTION:**

- Can the existing exterior substation be switched so that one side or the other de-energized to allow for crane/ heavy equipment operation?

**RESPONSE:**

- Yes.

**QUESTION:**

- Will WE Energies be able to disconnect and ground the incoming underground circuit on the east side of the substation, as needed, to allow crane/ heavy equipment operation? If we are able to de-energize the existing overhead substation circuitry on the east side of the substation, the line side conductors from WE Energies would have to be de-energized and disconnected to allow safe work operations.

**RESPONSE:**

- **WE Energies will be able to isolate and disconnect power.**

**QUESTION:**

- Does the load bank require a power source for a heater? If so, what voltage/ ampacity is required.

**RESPONSE:**

**Feed from Panel PP/3 via 30A 3 Pole Breaker. Electrical contractor does not have to furnish the circuit breaker. The electrical contractor shall furnish and install a 1" RGS conduit in trench from PP/3 to the load bank with (3) #10 awg and (1) #10 gnd.**

**QUESTION:**

- Do the duct banks, existing that are shown on sheet NW-10-32 from the two pad mounted transformers to the building, exist? If so, do they need to be removed in their entirety? It would appear that they will conflict with the new duct banks to the building.

**RESPONSE:**

**Contractor shall assume that the existing duct banks are underground as shown NW-10-32 . The duct banks will need to be completely removed.**

**QUESTION:**

- What height is required for the temporary fencing around the substation during construction? Does the temporary fence need barbed wire?

**RESPONSE:**

**The temporary fence needs to be a minimum of 6 feet in height. Barbed wire is not required for the temporary fence.**

**QUESTION:**

- Should additional conduits that are run overhead inside the pumping station, such as to the new VFD or the 150 kva transformer, be supported in a similar manner to the feeders indicated on sheet NW-47-12 with the lindapter toggle bolt, 1" hardware, etc?

**RESPONSE:**

- Yes.

**QUESTION:**

- Are there any requirements for independent third party testing of any of the 24.9kv switchgear, transformers, medium voltage feeders, etc? There is nothing specified for this.

**RESPONSE:**

**Refer to Specification Section 01810. All breakers 225 Amps and above shall be tested per NETA specifications. Testing shall include all medium voltage cables.**

**QUESTION:**

- Are 2' steel sleeve an acceptable way of setting the fence posts in the concrete foundation wall, and then having the fence posts set in and grouted after foundation wall is poured?

**RESPONSE:**

- **Yes. The sleeve shall be at a minimum 2.5" ID.**

**QUESTION:**

- Can we use 2" OD sched 40 in lieu of 2" square fence posts?

**RESPONSE:**

- **Yes.**

**QUESTION:**

- Does any of the rebar for any of the underground foundations need to be epoxy coated?

**RESPONSE:**

- **No.**

**QUESTION:**

- At what depth would you like the duct bank to be? How much cover to grade?

**RESPONSE:**

- **See Specification 16118 (3.04 D).**

**QUESTION:**

- Please confirm that for purposes of bidding right now, the only PCB remediation that we should include the cost for is the three oil filled transformers, the two exterior concrete transformer pads, and the three oil circuit breakers. Testing for all other remaining substation equipment for other PCB, petrochemical or ACM contamination should be included in a testing only number. Any equipment other than those already listed in the addendum found to contain hazardous material would be dealt with at a later date, is that a correct assumption?

**RESPONSE:**

- **Confirmed.**

**QUESTION:**

- Can we use a lean mix concrete for the duct packages or does it need to be 4,500psi like the foundations?

**RESPONSE:**

- **No.**

**QUESTION:**

- Detail 2 on sheet NW-47-29 is for pump 2 only. Does pump #3 the relocated pump #2 have RTDs on the bearings, windings, etc?

**RESPONSE:**

- No.

**QUESTION:**

- Detail 2 on sheet NW-47-29 indicates that the pump #2 shall have RTD on the inboard and outboard bearings. I do not see in specifications section 15600 where RTDs are specified for the pump. Are RTDs required at the pump? Are there RTDs for pump #3 the relocated pump #2 that need to be wired?

**RESPONSE:**

- **Pump RTDs are not required. Pump #3 (the relocated Pump #2) will not have RTDs.**

**QUESTION:**

- Can we flange plate the fence posts and anchor the plates to the 8" concrete wall in lieu of the sleeves?

**RESPONSE:**

- No.

**QUESTION:**

- Can we use a 2" OD gate frame in lieu of square?

**RESPONSE:**

- Yes.

**QUESTION:**

- Do the concrete bases for the pumps need to be painted?

**RESPONSE:**

- **Yes – standard grey epoxy paint.**

**QUESTION:**

- Is a connection required between the new indoor SCADA cabinet and an existing MWW facility?

**RESPONSE:**

- No.

**NW-47: FLORIST PUMPING STATION UPGRADES**  
**AT**  
**FLORIST PUMPING STATION**  
**OFFICIAL NOTICE NO. 33-2012**

Bid Allowance: FABCO

An allowance of **\$1,733,992.00** has been established for **ONE (1) CATERPILLAR MODEL C32 STANDBY GENERATOR RATED 1000 KW, WITH RELATED ACCESSORIES & SERVICES – TOTAL NET PRICE DELIVERED TO MILWAUKEE, WI JOBSITE**. Refer to Exhibit "A" for details.

Bid Allowance: WE Energies

An allowance of **\$80,000.00** has been established for **installation of three new electric services**. Refer to Exhibit "B" for details.

For furnishing and installing all equipment, labor and materials, training and start-up services for the **NW-47: Florist Pumping Station Upgrades** at the Florist Pumping Station, in accordance with plans and specifications for the lump sum bid of:

**TOTAL LUMP SUM BID**

Contractor shall include all bid allowances in the Total Bid price below.

(Base bid in figures) \$ \_\_\_\_\_

(Base bid in words) \$ \_\_\_\_\_

(Bid allowance FABCO in figures) \$ **1,733,992.00** \_\_\_\_\_

(Bid allowance WE Energies in figures) \$ **80,000.00** \_\_\_\_\_

(Total lump sum bid in figures) \$ \_\_\_\_\_

(Total lump sum bid in words) \$ \_\_\_\_\_

**BIDS MUST BE TYPED OR PRINTED IN INK**