

963-2010 ADDENDUM 2

WEST END WATER POLLUTION CONTROL CENTRE HVAC REPLACEMENT

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE BID
OPPORTUNITY**

ISSUED: February 8, 2011
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: A20070419

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.

PART E – SPECIFICATIONS

SPECIFICATIONS AND SCHEDULES

Info: Schedule 23 34 00 – Exhaust Air Fans – H655 > Unit H655 model number be RBO/R.
This indicated that the acceptable product for H655 is a Twin City model RBO/R.

Info: Schedules 23 54 16 – Fuel Fired Furnaces > all high efficiency condensing furnaces (U700, U705, U710 and U780) should have Carrier 58MCB as the approved product and all make-up air furnaces (U785 and U787) should have Engineered Air XE as the approved product.

Info: Schedules 23 74 00 – Packaged Air Handling Units Gas > P600 and P650 reads 'Engineered Air DJE, ICE GIDMH or approved equal in accordance with B6', this should read 'Engineered Air HE or ICE BMA or approved equal in accordance with B6'.

Replace: **Specification 23 33 00 - Air Duct Accessories with 23 33 00 - Air Duct Accessories Rev1**
Specification was revised to included specifications for extraction arms required for the headworks truck bay and mechanical bay welding area. See specifications attached.

Add: **Specification 26 29 23 – Variable Frequency Drives Clause 2.10.2**
ABB ACS800-37 Series VFD for 100 HP Drives or approved equal in accordance with B6.

Meeting Minutes

Info.: Meeting Minutes for Bid Opportunity Meeting No. 1, Item 1.6, indicates that approved equals will be listed in the addenda. This is not the case, for further clarification refer to Bidding Procedures B6.6 & B6.7.

Requests For Information (RFIs)

RFI S1

S1-1Q General Notes specify liner as L800 which is manufactured by Vicwest Steel. This liner cannot be used in the application. It is designed to be installed from the exterior of a building with notched sub-girts. To be used on this project would require the liner to be installed backwards. Profile shown on details is similar to Vicwest's Channelwall of CL508. Please advise how we are to proceed.

S1-1A Provide Vic-West CL508 28 ga. interior liner panel in lieu of specified L-800 panel.

S1-2Q Can you provide profile colour of existing siding?

S1-2A Ref. Drawing LS2.1, Metal Liner notes

RFI M2

M2-1Q Drawing HM2.9 notes #35 and #40 both reference extraction arms and pick-up hood. However, once again I am unable to find specifications.

M2-1A The specifications for the extraction arm will be added to Specification 23 33 00 – Air Duct Accessories which will be revised and included in this addendum. A pick-up hood will not be used in the Headworks Truck Bay area.

M2-2Q There are several fire dampers that are located in existing ducts shown on the new plan drawings. -Are these fire dampers part of the existing or new? (ie. Drawing #HM2.9)

M2-2A Refer to Specification 23 33 16 – Fire & Smoke Dampers, 3.2 Project Scope.
'The intent of this project is to only change the fire dampers that are directly affected by the construction; existing fire dampers located within existing ductwork that is not being altered by the construction do not require replacement.'

M2-3Q There is a tag EA on drawing SM4.1 but there is no specification for this tag.

M2-3A There is no need for a specification as there is no grill required.

RFI E3

E3-1Q DWG 1-0103S-E0015-001 shows an EF-S670, should this be renamed PF-S670 as per DWG 1-0103S-M0017-001 , if so should this also reflect on DWG 1-0103S-E0027-001& DWG 1-0103A-E0012-001?

E3-1A Yes, these are the same pieces of equipment.

E3-2Q DWG 1-0103S-E0026-001 , is equipment like disconnects and junction boxes in this area need to be rated nema 4X or could it be nema 12?

E3-2A NEMA 12 is ok.

E3-3Q DWG 1-0103A-E0012-001, for starter EF-S695, showing a 30A breaker on a size 1 starter should this be reduced?

E3-3A EF-S695 is a 3HP motor therefore the breaker may be reduced to a 7A HMCP.

E3-4Q DWG 1-0103S-E0015-001 note 5 indicates a control relay cabinet mounted in the secondary electrical room, is this cabinet being used for the tunnel HVAC system controls shown on DWG 1-0103V-E007-001 & DWG 1-0103V-E0008-001? and note 4 on same showing 120V feeds ,is this PNL-SA?

E3-4A Yes and Yes except for motor S690 (1-0103V-E0008-001) which is fed from headworks panel 'HA'. The drawing indicates panel 'SA' which is an error and should read panel 'HA' therefore a separate panel is required in headworks for S690.

E3-5Q Who is the Contact person for any Electrical items?

E3-5A All RFIs are to be sent to Art Gossen at Alliance Engineering Services who will distribute them to the appropriate people and supply answers on the next addendum to be issued.

E3-6Q Locations of the following equipment; MCC HE, Panel SA, Panel HA.

E3-6A Location of MCC HE - MCC HE is shown as a single line on drawing 1-0103A-E0016-001. This MCC is not relevant to the project work. As noted in the lower right corner this drawing is reserved for future work.

Location of Panel SA - Panel SA is located in the Secondary Clarifiers electrical room. Please refer to reference drawing SE4.01

Location of Panel HA - Panel HA is located in the Headwork electrical room. Please refer to reference drawing HE1.01

E3-7Q Fixture types found on drawing TE1.01; Type 101, Type 203, Type 204 (how are these to be controlled), A symbol with an X is shown beside type 204 fixture (what is this).

E3-7A The last two questions (E3-7Q, E3-8Q) refer to reference drawing information issued with RFI E2-2. These drawings are from the original WEWPCC installation. The content on them is not generally relevant to the ventilation upgrade project beyond providing better information on dimensional features to assist contractors in taking off wiring runs. Distribution panels light fixtures etc are not relevant.

E3-8Q Clarify what the following labels mean found on drawing TE1.02 & TE1.03;

- **T005A, T015 & T016 & etc.**
- **If this is a cable type, please supply cable schedule for this and all cables.**

E3-8A The last two questions (E3-7Q, E3-8Q) refer to reference drawing information issued with RFI E2-2. These drawings are from the original WEWPCC installation. The content on them is not generally relevant to the ventilation upgrade project beyond providing better information on dimensional features to assist contractors in taking off wiring runs. Distribution panels light fixtures etc are not relevant.

E3-9Q DAF Building

- **MCC-1T & 2T are these existing or new?**
- **If new from where are they to be powered up & what size wiring?**
- **Are MCC's 600 volt 3 phase only?**
- **Spec for Transformer TA & TAA is required.**
- **Are the transformers floor or ceiling mounted?**
- **You are asking for transformer TAA (600 volt) to supply power to panel TAA which is also 600 volt? Please clarify if TR TAA is needed.**

E3-9A As with previous RFI; E3-8Q, E3-9Q, these questions refer to the reference drawings, which are not relevant to any work required under the tender. These reference drawings are only to assist the contractor in locating equipment and determining wiring lengths.