



## TECHNICAL ADDENDUM #5

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

### 4 QUESTIONS RECEIVED BY THE TENDERING AUTHORITY

- .1 **The Manitoba Hydro contact identified in the RFQ documents stated that Manitoba Hydro does not maintain the High Voltage (HV) distribution on site and as such they cannot advise as to where to derive the High Voltage for the new pad-mount transformer. He stated that he does have a proper drawing but cannot issue this as it is the owner's drawing. Can we have that drawing? It should be a Single Line Drawing and a plan drawing identifying where the major electrical distribution equipment is located?**

The only drawing that Hydro has is the same as the 2003 Utilities (as-built) drawing released as attachment #7 with amendment #6. There is no other drawing.

- .2 **The drawing provided with the yellow highlights does not indicate where to derive the HV for the new pad-mount transformer.**

It is up to the DB to determine the location of the derive point .

- .3 **There is a note that "all high voltage cables installed by directional boring.**

The note referring to the directional boring was for the updates in 2003.

- .4 **We would need to know from where to obtain the HV cable branch circuit**

Allow circuit location point at twenty meters south and centerline of Building No . 6.

- .5 **The HV branch circuit would require feeder protection which is usually provided from a circuit breaker or fuse**

Protection to be included as part of the pad mount HV switchgear distribution unit breakers (e.g. Vista gear) added in addendum #3.

- .6 **Is there existing infrastructure which provides this already?**

No.

- .7 **Is the HV tap expected to be from a loop fed transformer?**

No .

- .8 **Is there sufficient capacity in that feeder to also accommodate the new Header House/ Greenhouse**

Assume there is enough capacity in the existing feeder

- .9 **Without the information requested above we will be unable to provide an accurate cost and will be obliged to provide a cost allowance at best to cover the cost of the primary feeder to the pad-mount transformer.**



No allowance should be included. Item costs can be adjusted during HV design through CCN/CO process if required.

## 5 TERMS OF REFERENCE DOCUMENT

### 5.1 SECTION 3.4 – MECHANICAL REQUIREMENTS

- .1 Revise Article 3.4.14 Plumbing and Miscellaneous Piping Systems as follows:
  - .1 Add Item .8 as follows:
    - .8 Provide a softened water supply based on a water analysis to be conducted by the DB.
  - .2 Add Item .9 as follows:
    - .9 Provide a softened water supply for:
      - .1 All humidifiers for growth cabinets and growth rooms
      - .2 Autoclave
      - .3 Plumbing fixtures
  - .3 Add Item .10 as follows:
    - .10 Refer to Article 4.2.6 Greenhouse Watering for greenhouse watering requirements
  - .4 Add Item .11 as follows:
    - .11 Provide non-softened piped water supply for sinks located in Rooms 104, 105, 106, 107