

The following change(s) to the tender documents are effective immediately, and will form part of the contract documents:

## 1. GENERAL

1.1	The Bidding Documents are amended as noted in this Addendum, which consists of 4 pages.
1.2	This Addendum is issued prior to bid closing to incorporate revisions noted herein. Include in the Bid price all such revisions which will become part of the Work. Perform all such Work in accordance with the Contract Documents.
1.3	All affected drawings, schedules and panel changes shall be reflected in final as-built and manual submissions.

## 2. CHANGES TO PREVIOUS ADDENDA

2.1	N/A
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## 3. DRAWINGS

3.1	<p><b>Reference: Exterior Paint</b></p> <p>Refer to Elevation Drawing 1/A4.2 South Elevation, 4/A4.2 East Elevation and 5/A4.2 West Elevation:</p> <ol style="list-style-type: none"><li>1. Remove existing paint from concrete block, window frames, window sills, door frames and vents.</li><li>2. PAINT existing concrete block, window frames, window sills, door frames and vents to match existing colour.</li></ol>
3.2	<p><b><u>Reference: E2-1 Main Floor Electrical Power and Data</u></b></p> <ol style="list-style-type: none"><li>1. Add note 7 as follows: “Investigate all branch circuits in which conduits penetrate concrete slab. Re-circuit branch circuits to new panel ‘A1’ located in Mechanical/Electrical room as required (approximate quantity 3).”</li></ol>

## 4. SPECIFICATIONS

4.1	<ol style="list-style-type: none"><li>1. It is unknown if the concrete block is filled (or with what), the Contractor is to take hazardous material precaution and take a sample of insulation (if present) and have it tested. If positive a change notice and change order will be executed through the contract. Include a spec section on asbestos material removal.</li><li>2. Refer to attached Section <b>02 82 00.01 Asbestos Abatement – Minimum Procedures.</b></li></ol>
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## 5. COMMENTS

5.1	<p><b><u>Comment</u></b></p> <p>As per our discussion for section <b>07 81 23 Intumescent Paint</b>, I will need to know the thickness of the steel for the beams and columns that require Intumescent Paint, it is critical in determining the thickness of paint required to achieve the fire rating. If you have any questions please give me a call.</p> <p><b><u>Response</u></b></p> <ol style="list-style-type: none"><li>1. Provide intumescent paint to achieve fire ratings for existing steel columns and beams. Assume the following sizes:</li><li>2. Existing <u>ROUND</u> steel columns: <b>HSS 102 X 3.8</b></li><li>3. Existing steel beams: <b>W310X21</b></li></ol>
5.2	<p><b><u>Comment</u></b></p> <p>I was at the site walk through at the RCMP Estevan Detachment Renovation on Wednesday September 9<sup>th</sup>, and the only question or concern I had was that there was a pipe from the panel going through the floor. There was all so a pipe from the second floor coming down and goes in to the concrete floor as well. As far as I can tell that wall is coming out, so they would have to be relocated so the floor would need to be cut up and brought up a different wall.</p> <p><b><u>Response</u></b></p> <p><b><u>Reference: E2-1 Main Floor Electrical Power and Data</u></b></p> <ol style="list-style-type: none"><li>1. Add note 7 as follows: "Investigate all branch circuits in which conduits penetrate concrete slab. Re-circuit branch circuits to new panel 'A1' located in Mechanical/Electrical room as required (approximate quantity 3)."</li></ol> <p><b><u>Reference: 1/A2.1 Demolition Floor Plan</u></b></p> <ol style="list-style-type: none"><li>1. Remove concrete at 3 locations in existing 116 Mechanical Room to relocate electrical conduits, patch and make good floor for new material.</li></ol>

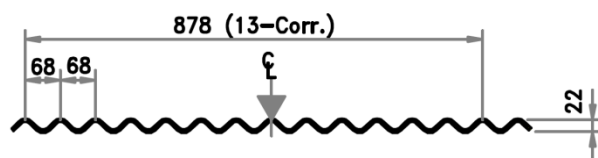
5.3

**Comment**

Which cladding profile is required on the above noted project. Vertical Cladding can be most profiles.

**Response**

1. New vertical metal siding: 22mm prefinished corrugated metal siding, vertical orientation:



**CORRUGATED SHEET - 7/8"**

5.4

**Comment**

Could you please provide more detailed information of the steel grating shown on S2.1, (grating type, bearing bar size?)

**Response**

Grating to be galvanized, 38mm serrated welded steel bar with 1/8" diameter cross bars at 4" o.c (Amico 19-4-62 or equal).

5.5

**Comment**

**WE REQUEST PERMISSION TO QUOTE THE FOLLOWING MATERIALS  
AS EQUALS TO THOSE SPECIFIED:**

**Response**

- BB Columbia: CSR4-232-U-EU *Approved.*
- CC Prudential: S1-1T5-XX-SAL-YGW-120-SUR *Approved.*
- EE Liteline: LEDBAR-XX-30K/ALFT6300WH - **Option 1** *Not Approved Note 1*
- EE Liteline: LED-STR-12WW/LED-STR-PF/LED-HWB-24V-60W - **Option 2** *Approved.*

*Note 1 - Does not meet design intent.*



5.6

**Comment**

Please consider the following products as accepted equals:

<b><u>Specified</u></b>	<b><u>Proposed</u></b>
S-1 sink faucet (Delta)	Zurn
S-2 sink fixture & faucet (Fiat / Delta)	Zurn and or Stern Williams
L-1 lavatory & WC-1 toilet fixtures (Contrac)	Zurn
L-1 lavatory faucet (Delta)	Zurn
FD-1 & FFD-1 floor drains (Mifab)	Zurn
Cleanouts & Access Covers (Mifab)	Zurn
Backflow Preventer (Apollo)	Zurn Wilkins
Trap Seal Primer (Mifab)	Zurn

**Response**

All products must meet all requirements of the drawings and specification.

**6. ATTACHMENTS**

6.1

1. Specification Section 02 82 00.01 Asbestos Abatement – Minimum Procedures.

**End of Addendum No.5.**

## **Part 1 General**

### **1.1 SUMMARY**

- .1 It is unknown if the block is filled (or with what), Contractor is to take hazardous material precaution and take a sample of insulation (if present) and have it tested. If positive a change notice and change order will be executed through the contract.

### **1.2 REFERENCES**

- .1 Department of Justice Canada (Jus)
  - .1 Canadian Environmental Protection Act, 1999 (CEPA).
- .2 Transport Canada (TC)
  - .1 Transportation of Dangerous Goods Act, 1992 (TDGA).

### **1.3 DEFINITIONS**

- .1 HEPA vacuum: High Efficiency Particulate Air filtered vacuum equipment with filter system capable of collecting and retaining fibres greater than 0.3 microns in any direction at 99.97% efficiency.
- .2 Amended Water: water with nonionic surfactant wetting agent added to reduce water tension to allow thorough wetting of fibres.
- .3 Asbestos-Containing Materials (ACMs): materials that contain 0.5 per cent or more asbestos by dry weight and are identified under Existing Conditions including fallen materials and settled dust.
- .4 Asbestos Work Area: area where work takes place which will, or may, disturb ACMs.
- .5 Authorized Visitors: Engineers, Consultants or designated representatives, and representatives of regulatory agencies.
- .6 Competent worker person: in relation to specific work, means a worker who:
  - .1 Is qualified because of knowledge, training and experience to perform the work.
  - .2 Is familiar with the provincial laws and with the provisions of the regulations that apply to the work.
  - .3 Has knowledge of all potential or actual danger to health or safety in the work.
- .7 Friable material: means material that:
  - .1 When dry, can be crumbled, pulverized or powdered by hand pressure, or
  - .2 is crumbled, pulverized or powdered.
- .8 Non-Friable Material: material that when dry cannot be crumbled, pulverized or powdered by hand pressure.
- .9 Occupied Area: any area of the building or work site that is outside Asbestos Work Area.
- .10 Polyethylene: polyethylene sheeting or rip-proof polyethylene sheeting with tape along edges, around penetrating objects, over cuts and tears, and elsewhere as required to provide protection and isolation.

- .11 Sprayer: garden reservoir type sprayer or airless spray equipment capable of producing mist or fine spray. Must have appropriate capacity for work.

#### **1.4 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit proof satisfactory to Departmental Representative that suitable arrangements have been made to dispose of asbestos-containing waste in accordance with requirements of authority having jurisdiction.
- .3 Submit Provincial/Territorial and/or local requirements for Notice of Project Form.
- .4 Submit proof of Contractor's Asbestos Liability Insurance.
- .5 Submit to Departmental Representative necessary permits for transportation and disposal of asbestos-containing waste and proof that asbestos-containing waste has been received and properly disposed.
- .6 Submit proof that all asbestos workers and/or supervisor have received appropriate training and education by a competent person in the hazards of asbestos exposure, good personal hygiene and work practices while working in Asbestos Work Areas, and the use, cleaning and disposal of respirators and protective clothing.
- .7 Submit proof satisfactory to Departmental Representative that employees have respirator fitting and testing. Workers must be fit tested (irritant smoke test) with respirator that is personally issued.

#### **1.5 QUALITY ASSURANCE**

- .1 Regulatory Requirements: comply with Federal, Provincial/Territorial, and local requirements pertaining to asbestos, provided that in case of conflict among these requirements or with these specifications, more stringent requirement applies. Comply with regulations in effect at time Work is performed.
- .2 Health and Safety:
  - .1 Safety Requirements: worker protection.
    - .1 Protective equipment and clothing to be worn by workers while in Asbestos Work Area include:

- .1 Air purifying half-mask respirator with N-100, R-100 or P-100 particulate filter, personally issued to worker and marked as to efficiency and purpose, suitable for protection against asbestos and acceptable to Provincial Authority having jurisdiction. The respirator to be fitted so that there is an effective seal between the respirator and the worker's face, unless the respirator is equipped with a hood or helmet. The respirator to be cleaned, disinfected and inspected after use on each shift, or more often if necessary, when issued for the exclusive use of one worker, or after each use when used by more than one worker. The respirator to have damaged or deteriorated parts replaced prior to being used by a worker; and, when not in use, to be stored in a convenient, clean and sanitary location. The employer to establish written procedures regarding the selection, use and care of respirators, and a copy of the procedures to be provided to and reviewed with each worker who is required to wear a respirator. A worker not to be assigned to an operation requiring the use of a respirator unless he or she is physically able to perform the operation while using the respirator.
- .2 Disposable-type protective clothing that does not readily retain or permit penetration of asbestos fibres. Protective clothing to be provided by the employer and worn by every worker who enters the work area, and the protective clothing shall consist of a head covering and full body covering that fits snugly at the ankles, wrists and neck, in order to prevent asbestos fibres from reaching the garments and skin under the protective clothing to include suitable footwear, and to be repaired or replaced if torn.
- .2 Eating, drinking, chewing, and smoking are not permitted in Asbestos Work Area.
- .3 Before leaving Asbestos Work Area, the worker can decontaminate his or her protective clothing by using a vacuum equipped with a HEPA filter, or by damp wiping, before removing the protective clothing, or, if the protective clothing will not be reused, place it in a container for dust and waste. The container to be dust tight, suitable for asbestos waste, impervious to asbestos, identified as asbestos waste, cleaned with a damp cloth or a vacuum equipped with a HEPA filter immediately before removal from the work area, and removed from the work area frequently and at regular intervals.
- .4 Facilities for washing hands and face shall be provided within or close to the Asbestos Work Area.
- .5 Ensure workers wash hands and face when leaving Asbestos Work Area.
- .6 Ensure that no person required to enter an Asbestos Work Area has facial hair that affects seal between respirator and face.

## **1.6 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Place materials defined as hazardous or toxic in designated containers.
- .4 Handle and dispose of hazardous materials in accordance with the CEPA, TDGA, Regional and Municipal regulations.
- .5 Fold up metal banding, flatten and place in designated area for recycling.
- .6 Disposal of asbestos waste generated by removal activities must comply with Federal, Provincial, Territorial and Municipal regulations. Dispose of asbestos waste in sealed double thickness 6 mils bags or leak proof drums. Label containers with appropriate warning labels.
- .7 Provide manifests describing and listing waste created. Transport containers by approved means to licensed landfill for burial.

## **1.7 EXISTING CONDITIONS**

- .1 Notify Departmental Representative of friable material discovered during Work and not apparent from drawings, specifications, or report pertaining to Work. Do not disturb such material pending instructions from Departmental Representative.

## **1.8 PERSONNEL TRAINING**

- .1 Before beginning Work, provide Departmental Representative satisfactory proof that every worker has had instruction and training in hazards of asbestos exposure, in personal hygiene and work practices, and in use, cleaning, and disposal of respirators and protective clothing.
- .2 Instruction and training related to respirators includes, following minimum requirements:
  - .1 Fitting of equipment.
  - .2 Inspection and maintenance of equipment.
  - .3 Disinfecting of equipment.
  - .4 Limitations of equipment.
- .3 Instruction and training must be provided by a competent, qualified person.

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Drop Sheets:
  - .1 Polyethylene: 0.15 mm thick.
  - .2 FR polyethylene: 0.15 mm thick woven fibre reinforced fabric bonded both sides with polyethylene.
- .2 Wetting Agent: 50% polyoxyethylene ester and 50% polyoxyethylene ether mixed with water in a concentration to provide thorough wetting of asbestos-containing material.
- .3 Waste Containers: contain waste in two separate containers.
  - .1 Inner container: 0.15 mm thick sealable polyethylene waste bag.

- .2 Outer container: sealable metal or fibre type where there are sharp objects included in waste material; otherwise outer container may be sealable metal or fibre type or second 0.15 mm thick sealable polyethylene bag.
- .3 Labelling requirements: affix pre-printed cautionary asbestos warning in both official languages that is visible when ready for removal to disposal site.
- .4 Slow - drying sealer: non-staining, clear, water - dispersible type that remains tacky on surface for at least 8 hours and designed for purpose of trapping residual asbestos fibres.
- .5 Tape: fibreglass - reinforced duct tape suitable for sealing polyethylene under both dry conditions and wet conditions using amended water.

### **Part 3 Execution**

#### **3.1 PROCEDURES**

- .1 Before beginning Work, isolate Asbestos Work Area using, minimum, preprinted cautionary asbestos warning signs in both official languages that are visible at access routes to Asbestos Work Area.
  - .1 Remove visible dust from surfaces in the work area where dust is likely to be disturbed during course of work.
  - .2 Use HEPA vacuum or damp cloths where damp cleaning does not create a hazard and is otherwise appropriate.
  - .3 Do not use compressed air to clean up or remove dust from any surface.
- .2 Prevent spread of dust from Asbestos Work Area using measures appropriate to work to be done.
  - .1 Use FR polyethylene drop sheets over flooring such as carpeting that absorbs dust and over flooring in Asbestos Work Area where dust and contamination cannot otherwise be safely contained. Drop sheets are not to be reused.
- .3 Wet materials containing asbestos to be cut, ground, abraded, scraped, drilled, or otherwise disturbed unless wetting creates hazard or causes damage.
  - .1 Use garden reservoir type low - velocity fine - mist sprayer.
  - .2 Perform Work to reduce dust creation to lowest levels practicable.
  - .3 Work will be subject to visual inspection and air monitoring.
  - .4 Contamination of surrounding areas indicated by visual inspection or air monitoring will require complete enclosure and clean-up of affected areas.
- .4 Frequently and at regular intervals during Work and immediately on completion of work:
  - .1 Dust and waste to be cleaned up and removed using a vacuum equipped with a HEPA filter, or by damp mopping or wet sweeping, and placed in a waste container, and
  - .2 Drop sheets to be wetted and placed in a waste container as soon as practicable.
- .5 Cleanup:

- .1 Place dust and asbestos containing waste in sealed dust-tight waste bags. Treat drop sheets and disposable protective clothing as asbestos waste; wet and fold these items to contain dust, and then place in plastic bags.
- .2 Clean exterior of each waste-filled bag using damp cloths or HEPA vacuum and place in second clean waste bag immediately prior to removal from Asbestos Work Area.
- .3 Seal waste bags and remove from site. Dispose of in accordance with requirements of Provincial/Territorial and Federal Authority having jurisdiction. Supervise dumping and ensure that dump operator is fully aware of hazardous nature of material to be dumped and that the appropriate guidelines and regulations for asbestos disposal are followed.
- .4 Perform final thorough clean-up of Work areas and adjacent areas affected by Work using HEPA vacuum.

**END OF SECTION**