

**Index** (DTW Update)

- Delete Section 01 00 00 – Bid Depository Sections. (DTW Update)
- Add new section 22 63 00 – Gas Systems for Laboratory and Healthcare Facilities (DTW Update)
- Add new section 27 51 26.01 – Enhanced Classroom Listening System (DTW Update)

**Section 01 00 00 – Bid Depository Sections** (DTW Update)

- Delete section in its entirety and replace with the new section attached.

**Section 01 35 29.06 – Health and Safety Requirements** (DTW Update)

- Delete section in its entirety and replace with the revised section attached.

**Section 01 51 00 – Temporary Utilities** (DTW Update)

- Sentence 1.10.1, delete words “http://www.tw.gov.nl.ca/works” and replace with “https://www.gov.nl.ca/ti/works/signs”.
- Sentence 1.10.1, delete words “Dept of Transportation and Works” and replace with “Department of Transportation and Infrastructure”.
- Sentence 1.10.3, delete words “http://www.tw.gov.nl.ca/works” and replace with “https://www.gov.nl.ca/ti/works/signs”.

**Section 03 35 00 – Concrete Finishing** (DTW Update)

- Delete sentence 1.4.1 and replace with the following:
  - .1 Submit WHMIS SDS - Safety Data Sheets. WHMIS SDS acceptable to Labour Canada and Health and Welfare Canada for concrete floor treatment materials. Indicate VOC content.

**Section 03 35 05 – Concrete Floor Hardening** (DTW Update)

- Delete sentence 1.3.1.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.2 and replace with the following:

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.2 Submit WHMIS SDS - Safety Data Sheets.

- Sentence 1.4.2.1, delete word “MSDS” and replace with “SDS”.

### **Section 04 05 00 – Common Work Results for Masonry (DTW Update)**

- Delete sentence 1.3.2 and replace with the following:

.2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) - Safety Data Sheets (SDS).

### **Section 04 05 13 – Masonry Mortar and Grout (DTW Update)**

- Delete section in its entirety and replace with new section attached.

### **Section 04 05 19 – Masonry Anchorage and Reinforcing (DTW Update)**

- Delete sentence 1.3.1.2 and replace with the following:

.2 Submit two copies of WHMIS SDS - Safety Data Sheets. Indicate VOC's for epoxy coatings and galvanized protective coatings and touch-up products illustrating products to be incorporated into project for specified products.

### **Section 04 05 23 – Masonry Accessories (DTW Update)**

- Delete sentence 1.3.1.2 and replace with the following:

.2 Submit two copies of WHMIS SDS - Safety Data. Indicate VOC's for joint fillers and lap adhesives.

### **Section 04 22 00 – Concrete Unit Masonry (DTW Update)**

- Delete section in its entirety and replace with new section attached.

### **Section 05 50 00 – Metal Fabrications (DTW Update)**

- Delete sentence 1.3.1.2 and replace with the following:

.2 Submit two copies of WHMIS SDS - Safety Data Sheets. Indicate VOC's:

### **Section 05 51 00 – Metal Stairs and Ladders (DTW Update)**

- Delete sentence 1.4.1.2 and replace with the following:

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- .2 Submit two copies of WHMIS SDS - Safety Data Sheets. Indicate VOC's:

### **Section 06 40 23.13 – Plastic Laminate Finishing for Interior Architectural Woodwork (DTW Update)**

- Sentence 1.3.2.2, delete word “MSDS” and replace with “SDS”.

### **Section 07 21 13 – Board insulation (DTW Update)**

- Delete sentence 1.3.1.2 and replace with the following:

- .2 Submit two copies of WHMIS SDS - Safety Data Sheets. Indicate VOC's insulation products and adhesives.

### **Section 07 21 23 – Loose-Fill insulation (DTW Update)**

- Delete sentence 1.5.4 and replace with the following:

- .4 Submit WHMIS SDS –Safety Data Sheets. Include VOC content.

### **Section 07 21 29 – Sprayed Insulation – Polyurethane Foam (DTW Update)**

- Delete sentence 1.3.1.2 and replace with the following:

- .2 Submit two copies of WHMIS SDS –Safety Data Sheets.

### **Section 07 26 00 – Vapour Retarders (DTW Update)**

- Delete sentence 1.3.2 and replace with the following:

- .2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS).

### **Section 07 46 16 – Aluminum Siding (DTW Update)**

- Delete sentence 1.1.3 and replace with the following:

- .3 Section 06 10 53 – Miscellaneous Rough Carpentry.

- Delete sentence 1.3.1.1 and replace with the following:

- .1 Submit two copies of WHMIS SDS - Safety Data. Indicate VOC's for caulking materials during application and curing.

**Section 07 46 19 – Steel Siding (DTW Update)**

- Delete sentence 1.3.1.1 and replace with the following:
  - .1 Submit two copies of WHMIS SDS - Safety Data. Indicate VOC's for caulking materials during application and curing.

**Section 07 46 23 – Wood Siding – Prefinished (DTW Update)**

- Delete sentence 1.3.1.2 and replace with the following:
  - .2 Submit copies of WHMIS SDS - Safety Data Sheets. Indicate VOC's for caulking materials during application and curing.

**Section 07 46 33 – Plastic Siding (DTW Update)**

- Delete sentence 1.3.1.1 and replace with the following:
  - .1 Submit two copies of WHMIS SDS - Safety Data Sheets. Indicate VOC's for caulking materials during application and curing.

**Section 07 72 33 – Roof Hatches (DTW Update)**

- Delete sentence 1.4.3 and replace with the following:
  - .3 Submit two copies of WHMIS SDS - Safety Data Sheets. Indicate VOC's for caulking materials during application and curing.

**Section 08 11 16 – Aluminum Doors and Frames (DTW Update)**

- Delete sentence 1.4.7.2 and replace with the following:
  - .2 Submit two copies of WHMIS SDS - Safety Data Sheets for door materials, adhesives and aluminum cleaner. Indicate VOC's for caulking materials during application and curing.

**Section 08 14 16 – Flush Wood Doors (DTW Update)**

- Delete sentence 1.3.1.2 and replace with the following:
  - .2 Submit two copies of WHMIS SDS Safety Data Sheets. Indicate VOC's:

**Section 08 26 13.16 – Sectional Metal Doors (DTW Update)**

- Delete sentence 1.4.1.2 and replace with the following:

- .2 Submit two copies of WHMIS SDS –Safety Data Sheets. Indicate VOC's:

**Section 08 33 13 – Coiling Counter Doors (DTW Update)**

- Delete sentence 1.3.1.2 and replace with the following:
  - .2 Submit two copies of WHMIS SDS – Safety Data Sheets. Indicate VOC's:

**Section 08 44 13 – Glazed Aluminum Curtain Wall (DTW Update)**

- Add the following sentence 1.2.2.2:
  - .2 AAMA 502, Voluntary Specification for Field Testing of Newly Installed Fenestration Products.
- Add the following sentence 1.2.2.3:
  - .3 AAMA 503, Voluntary Specification for Field Testing of Newly Installed Storefronts, Curtain Walls and Sloped Glazing Systems.
- Delete sentence 1.4.5 and replace with the following:
  - .5 Air infiltration through assembly shall not exceed 0.5 L/s•m<sup>2</sup>, measured at a reference differential pressure across assembly of 75 Pa as per AAMA 501.
- Sentence 1.4.6, delete word “22 C” and replace with “22° C”.
- Sentence 1.4.7, delete word “AAMA 501” and replace with “AAMA 503”.
- Add the following sentence 1.4.12:
  - .12 Classification Ratings:
    - .1 Argentia
      - .1 Design Pressure: 2400 Pa.
      - .2 Water Penetration Resistance Pressure: 620 Pa.
      - .3 Canadian Air Infiltration/Exfiltration: A3 Level
      - .4 Condensation Resistance: I50
    - .2 Bonavista
      - .1 Design Pressure: 2160 Pa.
      - .2 Water Penetration Resistance Pressure: 620 Pa.
      - .3 Canadian Air Infiltration/Exfiltration: A3 Level
      - .4 Condensation Resistance: I57

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- .3 Buchans
  - .1 Design Pressure: 1920 Pa.
  - .2 Water Penetration Resistance Pressure: 330 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I60
- .4 Cape Harrison
  - .1 Design Pressure: 1920 Pa.
  - .2 Water Penetration Resistance Pressure: 540 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I68
- .5 Cape Race
  - .1 Design Pressure: 2400 Pa.
  - .2 Water Penetration Resistance Pressure: 440 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I54
- .6 Churchill Falls
  - .1 Design Pressure: 1440 Pa.
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I67
- .7 Corner Brook
  - .1 Design Pressure: 2400 Pa.
  - .2 Water Penetration Resistance Pressure: 470 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I60
- .8 Gander
  - .1 Design Pressure: 1920 Pa.
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I57
- .9 Grand Bank
  - .1 Design Pressure: 2400 Pa.
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I54
- .10 Grand Falls
  - .1 Design Pressure: 1920 Pa.
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I60
- .11 Happy Valley-Goose Bay
  - .1 Design Pressure: 1440 Pa.
  - .2 Water Penetration Resistance Pressure: 260 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I64
- .12 Labrador City

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- .1 Design Pressure: 1440 Pa.
- .2 Water Penetration Resistance Pressure: 220 Pa.
- .3 Canadian Air Infiltration/Exfiltration: A3 Level
- .4 Condensation Resistance: I67
- .13 Port aux Basques
  - .1 Design Pressure: 2160 Pa.
  - .2 Water Penetration Resistance Pressure: 690 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I54
- .14 St. Anthony
  - .1 Design Pressure: 2880 Pa.
  - .2 Water Penetration Resistance Pressure: 690 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I65
- .15 Stephenville
  - .1 Design Pressure: 2640 Pa.
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I55
- .16 St. John's
  - .1 Design Pressure: 2640 Pa.
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I54
- .17 Wabana
  - .1 Design Pressure: 2400 Pa.
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I54
- .18 Wabush
  - .1 Design Pressure: 1440 Pa.
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Canadian Air Infiltration/Exfiltration: A3 Level
  - .4 Condensation Resistance: I67

- Add the following sentence 3.6:

### 3.6 Testing

- .1 Provide water penetration resistance test and air leakage resistance test to AAMA 503.
- .2 Water penetration and air leakage testing, as directed by Owner's Representative and paid for by Contractor, will be performed by professional testing agency for three locations selected at random for curtain wall/wall assembly.

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- .3 Construct a temporary test chamber sealed to the exterior side of the curtain wall assembly before the installation of gypsum wall board, insulation or other finish materials, in such a manner as to apply a pressure differential to all joinery conditions with the wall. Test chamber to be minimum 9.3 m<sup>2</sup>. Air is to be supplied to the test chamber at the rate necessary to establish and maintain the desired air pressure differential across the window/wall assembly.
- .4 Water penetration resistance test:
  - .1 Apply maximum pressure equal to two-thirds of the prescribed water penetration resistance pressure for the location identified, but not less than 200 Pa.
  - .2 Through a calibrated spray rack, apply water to the outside surface, with all operable portions closed and locked. Observe for any water penetration on the interior.
  - .3 **No penetration of uncontrolled water beyond the plane of the curtain walls innermost edges is considered a pass.**
  - .4 Contractor to provide:
    - .1 Minimum 19 mm diameter hose for water supply, of adequate length to reach testing location.
    - .2 Access to 120V, 15A power, complete with adequate length grounded power cord.
  - .5 Maintain testing environment above 10° C. If outside temperatures are not consistently above 5° C, Contractor to supply and install hoarding (minimum clearance of 610 mm around the entire test chamber). Enclosed area and curtain wall framing to be kept dry for testing setup prior to water penetration test.
- .5 Air leaking resistance test:
  - .1 Apply a minimum uniform static test pressure of 75 Pa to the test chamber.
  - .2 The acceptable air infiltration rate is limited to 0.5 L/s•m<sup>2</sup>.
  - .3 Air leakage resistance testing to be conducted before water penetration resistance test is performed.
- .6 Testing will be witnessed by Owner's Representative and test reports will be signed by Tester, Site Representative and Contractor.
- .7 Inform Owner's Representative two (2) working days prior to required testing.



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### **Section 08 51 13 – Aluminum Windows (DTW Update)**

- Add the following sentence 1.2.1:
  - .1 American Architectural Manufacturers Association (AAMA)
    - .1 AAMA/WDMA/CSA101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for Windows, Doors and Skylights.
    - .2 AAMA 502, Voluntary Specification for Field Testing of Newly Installed Fenestration Products.
- Renumber 1.2.1 to 1.2.2.
- Renumber 1.2.2 to 1.2.3.
- Delete sentence 2.2.2 and replace with the following:
  - .2 Classification rating: to AAMA/WDMA/CSA 101/I.S.2/A440 for various regions of Newfoundland and Labrador as follows:
    - .1 Argentia
      - .1 Design Pressure: Class CW-PG2400
      - .2 Water Penetration Resistance Pressure: 620 Pa.
      - .3 Structural Test Pressure: 3600 Pa.
      - .4 Canadian Air Infiltration/Exfiltration: A3 Level
      - .5 Condensation Resistance: I50
      - .6 Force Entry: F10
      - .7 Insect Screens: S1
    - .2 Bonavista
      - .1 Design Pressure: Class CW-PG2160
      - .2 Water Penetration Resistance Pressure: 620 Pa.
      - .3 Structural Test Pressure: 3240 Pa.
      - .4 Canadian Air Infiltration/Exfiltration: A3 Level
      - .5 Condensation Resistance: I57
      - .6 Force Entry: F10
      - .7 Insect Screens: S1
    - .3 Buchans
      - .1 Design Pressure: Class CW-PG1920
      - .2 Water Penetration Resistance Pressure: 330 Pa.
      - .3 Structural Test Pressure: 2880 Pa.
      - .4 Canadian Air Infiltration/Exfiltration: A3 Level
      - .5 Condensation Resistance: I60
      - .6 Force Entry: F10
      - .7 Insect Screens: S1
    - .4 Cape Harrison
      - .1 Design Pressure: Class CW-PG1920
      - .2 Water Penetration Resistance Pressure: 540 Pa.

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- .3 Structural Test Pressure: 2880 Pa.
- .4 Canadian Air Infiltration/Exfiltration: A3 Level
- .5 Condensation Resistance: I68
- .6 Force Entry: F10
- .7 Insect Screens: S1
- .5 Cape Race
  - .1 Design Pressure: Class CW-PG2400
  - .2 Water Penetration Resistance Pressure: 440 Pa.
  - .3 Structural Test Pressure: 3240 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .6 Churchill Falls
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I67
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .7 Corner Brook
  - .1 Design Pressure: Class CW-PG2400
  - .2 Water Penetration Resistance Pressure: 470 Pa.
  - .3 Structural Test Pressure: 3600 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I60
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .8 Gander
  - .1 Design Pressure: Class CW-PG1920
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Structural Test Pressure: 2880 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I57
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .9 Grand Bank
  - .1 Design Pressure: Class CW-PG2400
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Structural Test Pressure: 3600 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .10 Grand Falls

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- .1 Design Pressure: Class CW-PG1920
- .2 Water Penetration Resistance Pressure: 400 Pa.
- .3 Structural Test Pressure: 2880 Pa.
- .4 Canadian Air Infiltration/Exfiltration: A3 Level
- .5 Condensation Resistance: I60
- .6 Force Entry: F10
- .7 Insect Screens: S1
- .11 Happy Valley-Goose Bay
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 260 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I64
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .12 Labrador City
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I67
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .13 Port aux Basques
  - .1 Design Pressure: Class CW-PG2160
  - .2 Water Penetration Resistance Pressure: 690 Pa.
  - .3 Structural Test Pressure: 3240 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .14 St. Anthony
  - .1 Design Pressure: Class CW-PG2880
  - .2 Water Penetration Resistance Pressure: 690 Pa.
  - .3 Structural Test Pressure: 4320 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I65
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .15 Stephenville
  - .1 Design Pressure: Class CW-PG2640
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Structural Test Pressure: 3960 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I55
  - .6 Force Entry: F10

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- .7 Insect Screens: S1
- .16 St. John's
  - .1 Design Pressure: Class CW-PG2640
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Structural Test Pressure: 3960 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .17 Wabana
  - .1 Design Pressure: Class CW-PG2400
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Structural Test Pressure: 3600 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .18 Wabush
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I67
  - .6 Force Entry: F10
  - .7 Insect Screens: S1

- Delete sentence 3.4 and replace with the following:

### 3.4 Testing

- .1 Provide water penetration resistance test and air leakage resistance test to AAMA 502.
- .2 Water penetration and air leakage testing, as directed by Owner's Representative and paid for by Contractor, will be performed by professional testing agency for three locations selected at random for window/wall assembly.
- .3 Construct a temporary test chamber sealed to the interior (or optionally to the exterior) side of the window/wall assembly in such a manner as to apply a pressure differential to all joinery conditions with the wall. Air is to be supplied to (or evacuated from) the test chamber at the rate necessary to establish and maintain the desired air pressure differential across the window/wall assembly.
- .4 Water penetration resistance test:

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- .1 Apply maximum pressure equal to two-thirds of the prescribed water penetration resistance pressure for the location identified, but not less than 91 Pa.
- .2 Through a calibrated spray rack, apply water to the outside surface, with all operable portions closed and locked. Observe for any water penetration on the interior.
- .3 **No penetration of uncontrolled water beyond the plane of the windows innermost edges is considered a pass.**
- .4 Contractor to provide:
  - .1 Minimum 19 mm diameter hose for water supply, of adequate length to reach testing location.
  - .2 Access to 120V, 15A power, complete with adequate length grounded power cord.
- .5 Maintain testing environment above 10° C. If outside temperatures are not consistently above 5° C, Contractor to supply and install hoarding (minimum clearance of 610 mm around the entire window). Enclosed area and window framing to be kept dry for testing setup prior to water penetration test.
- .5 Air leaking resistance test:
  - .1 Apply a minimum uniform static test pressure of 75 Pa to the test chamber.
  - .2 The acceptable air infiltration rate is limited to 0.5 L/s•m<sup>2</sup>.
  - .3 Air leakage resistance testing to be conducted before water penetration resistance test is performed.
- .6 Testing will be witnessed by Owner's Representative and test reports will be signed by Tester, Site Representative and Contractor.
- .7 Inform Owner's Representative two (2) working days prior to required testing.

### **Section 08 53 13 – Vinyl Windows (DTW Update)**

- Add the following sentence 1.2.1:
  - .1 American Architectural Manufacturers Association (AAMA)
    - .1 AAMA/WDMA/CSA101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for Windows, Doors and Skylights.
    - .2 AAMA 502, Voluntary Specification for Field Testing of Newly Installed Fenestration Products.

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- Renumber 1.2.1 to 1.2.2.
- Renumber 1.2.2 to 1.2.3.
- Delete sentence 2.2.2 and replace with the following:
  - .2 Classification rating: to AAMA/WDMA/CSA 101/I.S.2/A440 for various regions of Newfoundland and Labrador as follows:
    - .1 Argentia
      - .1 Design Pressure: Class CW-PG2400
      - .2 Water Penetration Resistance Pressure: 620 Pa.
      - .3 Structural Test Pressure: 3600 Pa.
      - .4 Canadian Air Infiltration/Exfiltration: A3 Level
      - .5 Condensation Resistance: I50
      - .6 Force Entry: F10
      - .7 Insect Screens: S1
    - .2 Bonavista
      - .1 Design Pressure: Class CW-PG2160
      - .2 Water Penetration Resistance Pressure: 620 Pa.
      - .3 Structural Test Pressure: 3240 Pa.
      - .4 Canadian Air Infiltration/Exfiltration: A3 Level
      - .5 Condensation Resistance: I57
      - .6 Force Entry: F10
      - .7 Insect Screens: S1
    - .3 Buchans
      - .1 Design Pressure: Class CW-PG1920
      - .2 Water Penetration Resistance Pressure: 330 Pa.
      - .3 Structural Test Pressure: 2880 Pa.
      - .4 Canadian Air Infiltration/Exfiltration: A3 Level
      - .5 Condensation Resistance: I60
      - .6 Force Entry: F10
      - .7 Insect Screens: S1
    - .4 Cape Harrison
      - .1 Design Pressure: Class CW-PG1920
      - .2 Water Penetration Resistance Pressure: 540 Pa.
      - .3 Structural Test Pressure: 2880 Pa.
      - .4 Canadian Air Infiltration/Exfiltration: A3 Level
      - .5 Condensation Resistance: I68
      - .6 Force Entry: F10
      - .7 Insect Screens: S1
    - .5 Cape Race
      - .1 Design Pressure: Class CW-PG2400
      - .2 Water Penetration Resistance Pressure: 440 Pa.
      - .3 Structural Test Pressure: 3240 Pa.
      - .4 Canadian Air Infiltration/Exfiltration: A3 Level
      - .5 Condensation Resistance: I54

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- .6 Force Entry: F10
- .7 Insect Screens: S1
- .6 Churchill Falls
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I67
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .7 Corner Brook
  - .1 Design Pressure: Class CW-PG2400
  - .2 Water Penetration Resistance Pressure: 470 Pa.
  - .3 Structural Test Pressure: 3600 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I60
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .8 Gander
  - .1 Design Pressure: Class CW-PG1920
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Structural Test Pressure: 2880 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I57
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .9 Grand Bank
  - .1 Design Pressure: Class CW-PG2400
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Structural Test Pressure: 3600 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .10 Grand Falls
  - .1 Design Pressure: Class CW-PG1920
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Structural Test Pressure: 2880 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I60
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .11 Happy Valley-Goose Bay
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 260 Pa.
  - .3 Structural Test Pressure: 2160 Pa.

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- .4 Canadian Air Infiltration/Exfiltration: A3 Level
- .5 Condensation Resistance: I64
- .6 Force Entry: F10
- .7 Insect Screens: S1
- .12 Labrador City
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I67
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .13 Port aux Basques
  - .1 Design Pressure: Class CW-PG2160
  - .2 Water Penetration Resistance Pressure: 690 Pa.
  - .3 Structural Test Pressure: 3240 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .14 St. Anthony
  - .1 Design Pressure: Class CW-PG2880
  - .2 Water Penetration Resistance Pressure: 690 Pa.
  - .3 Structural Test Pressure: 4320 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I65
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .15 Stephenville
  - .1 Design Pressure: Class CW-PG2640
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Structural Test Pressure: 3960 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I55
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .16 St. John's
  - .1 Design Pressure: Class CW-PG2640
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Structural Test Pressure: 3960 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .17 Wabana
  - .1 Design Pressure: Class CW-PG2400



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- .2 Water Penetration Resistance Pressure: 620 Pa.
- .3 Structural Test Pressure: 3600 Pa.
- .4 Canadian Air Infiltration/Exfiltration: A3 Level
- .5 Condensation Resistance: I54
- .6 Force Entry: F10
- .7 Insect Screens: S1
- .18 Wabush
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I67
  - .6 Force Entry: F10
  - .7 Insect Screens: S1

- Delete sentence 3.3 and replace with the following:

### 3.3 Testing

- .1 Provide water penetration resistance test and air leakage resistance test to AAMA 502.
- .2 Water penetration and air leakage testing, as directed by Owner's Representative and paid for by Contractor, will be performed by professional testing agency for three locations selected at random for window/wall assembly.
- .3 Construct a temporary test chamber sealed to the interior (or optionally to the exterior) side of the window/wall assembly in such a manner as to apply a pressure differential to all joinery conditions with the wall. Air is to be supplied to (or evacuated from) the test chamber at the rate necessary to establish and maintain the desired air pressure differential across the window/wall assembly.
- .4 Water penetration resistance test:
  - .1 Apply maximum pressure equal to two-thirds of the prescribed water penetration resistance pressure for the location identified, but not less than 91 Pa.
  - .2 Through a calibrated spray rack, apply water to the outside surface, with all operable portions closed and locked. Observe for any water penetration on the interior.
  - .3 **No penetration of uncontrolled water beyond the plane of the windows innermost edges is considered a pass.**
  - .4 Contractor to provide:

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- .1 Minimum 19 mm diameter hose for water supply, of adequate length to reach testing location.
- .2 Access to 120V, 15A power, complete with adequate length grounded power cord.
- .5 Maintain testing environment above 10° C. If outside temperatures are not consistently above 5° C, Contractor to supply and install hoarding (minimum clearance of 610 mm around the entire window). Enclosed area and window framing to be kept dry for testing setup prior to water penetration test.
- .5 Air leaking resistance test:
  - .1 Apply a minimum uniform static test pressure of 75 Pa to the test chamber.
  - .2 The acceptable air infiltration rate is limited to 0.5 L/s•m<sup>2</sup>.
  - .3 Air leakage resistance testing to be conducted before water penetration resistance test is performed.
- .6 Testing will be witnessed by Owner's Representative and test reports will be signed by Tester, Site Representative and Contractor.
- .7 Inform Owner's Representative two (2) working days prior to required testing.

### **Section 08 54 13 – Fibreglass Windows (DTW Update)**

- Add the following sentence 1.2.1:
  - .1 American Architectural Manufacturers Association (AAMA)
    - .1 AAMA/WDMA/CSA101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for Windows, Doors and Skylights.
    - .2 AAMA 502, Voluntary Specification for Field Testing of Newly Installed Fenestration Products.
- Renumber 1.2.1 to 1.2.2.
- Renumber 1.2.2 to 1.2.3.
- Delete sentence 2.2.2 and replace with the following:
  - .2 Classification rating: to AAMA/WDMA/CSA 101/I.S.2/A440 for various regions of Newfoundland and Labrador as follows:
    - .1 Argentia
      - .1 Design Pressure: Class CW-PG2400
      - .2 Water Penetration Resistance Pressure: 620 Pa.

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- .3 Structural Test Pressure: 3600 Pa.
- .4 Canadian Air Infiltration/Exfiltration: A3 Level
- .5 Condensation Resistance: I50
- .6 Force Entry: F10
- .7 Insect Screens: S1
- .2 Bonavista
  - .1 Design Pressure: Class CW-PG2160
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Structural Test Pressure: 3240 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I57
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .3 Buchans
  - .1 Design Pressure: Class CW-PG1920
  - .2 Water Penetration Resistance Pressure: 330 Pa.
  - .3 Structural Test Pressure: 2880 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I60
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .4 Cape Harrison
  - .1 Design Pressure: Class CW-PG1920
  - .2 Water Penetration Resistance Pressure: 540 Pa.
  - .3 Structural Test Pressure: 2880 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I68
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .5 Cape Race
  - .1 Design Pressure: Class CW-PG2400
  - .2 Water Penetration Resistance Pressure: 440 Pa.
  - .3 Structural Test Pressure: 3240 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .6 Churchill Falls
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I67
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .7 Corner Brook

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- .1 Design Pressure: Class CW-PG2400
- .2 Water Penetration Resistance Pressure: 470 Pa.
- .3 Structural Test Pressure: 3600 Pa.
- .4 Canadian Air Infiltration/Exfiltration: A3 Level
- .5 Condensation Resistance: I60
- .6 Force Entry: F10
- .7 Insect Screens: S1
- .8 Gander
  - .1 Design Pressure: Class CW-PG1920
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Structural Test Pressure: 2880 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I57
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .9 Grand Bank
  - .1 Design Pressure: Class CW-PG2400
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Structural Test Pressure: 3600 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .10 Grand Falls
  - .1 Design Pressure: Class CW-PG1920
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Structural Test Pressure: 2880 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I60
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .11 Happy Valley-Goose Bay
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 260 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I64
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .12 Labrador City
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I67
  - .6 Force Entry: F10

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- .7 Insect Screens: S1
- .13 Port aux Basques
  - .1 Design Pressure: Class CW-PG2160
  - .2 Water Penetration Resistance Pressure: 690 Pa.
  - .3 Structural Test Pressure: 3240 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .14 St. Anthony
  - .1 Design Pressure: Class CW-PG2880
  - .2 Water Penetration Resistance Pressure: 690 Pa.
  - .3 Structural Test Pressure: 4320 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I65
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .15 Stephenville
  - .1 Design Pressure: Class CW-PG2640
  - .2 Water Penetration Resistance Pressure: 400 Pa.
  - .3 Structural Test Pressure: 3960 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I55
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .16 St. John's
  - .1 Design Pressure: Class CW-PG2640
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Structural Test Pressure: 3960 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .17 Wabana
  - .1 Design Pressure: Class CW-PG2400
  - .2 Water Penetration Resistance Pressure: 620 Pa.
  - .3 Structural Test Pressure: 3600 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level
  - .5 Condensation Resistance: I54
  - .6 Force Entry: F10
  - .7 Insect Screens: S1
- .18 Wabush
  - .1 Design Pressure: Class CW-PG1440
  - .2 Water Penetration Resistance Pressure: 220 Pa.
  - .3 Structural Test Pressure: 2160 Pa.
  - .4 Canadian Air Infiltration/Exfiltration: A3 Level

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- .5 Condensation Resistance: I67
- .6 Force Entry: F10
- .7 Insect Screens: S1

- Delete sentence 3.3 and replace with the following:

### 3.3 Testing

- .1 Provide water penetration resistance test and air leakage resistance test to AAMA 502.
- .2 Water penetration and air leakage testing, as directed by Owner's Representative and paid for by Contractor, will be performed by professional testing agency for three locations selected at random for window/wall assembly.
- .3 Construct a temporary test chamber sealed to the interior (or optionally to the exterior) side of the window/wall assembly in such a manner as to apply a pressure differential to all joinery conditions with the wall. Air is to be supplied to (or evacuated from) the test chamber at the rate necessary to establish and maintain the desired air pressure differential across the window/wall assembly.
- .4 Water penetration resistance test:
  - .1 Apply maximum pressure equal to two-thirds of the prescribed water penetration resistance pressure for the location identified, but not less than 91 Pa.
  - .2 Through a calibrated spray rack, apply water to the outside surface, with all operable portions closed and locked. Observe for any water penetration on the interior.
  - .3 **No penetration of uncontrolled water beyond the plane of the windows innermost edges is considered a pass.**
  - .4 Contractor to provide:
    - .1 Minimum 19 mm diameter hose for water supply, of adequate length to reach testing location.
    - .2 Access to 120V, 15A power, complete with adequate length grounded power cord.
  - .5 Maintain testing environment above 10° C. If outside temperatures are not consistently above 5° C, Contractor to supply and install hoarding (minimum clearance of 610 mm around the entire window). Enclosed area and window framing to be kept dry for testing setup prior to water penetration test.
- .5 Air leaking resistance test:

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- .1 Apply a minimum uniform static test pressure of 75 Pa to the test chamber.
- .2 The acceptable air infiltration rate is limited to 0.5 L/s•m<sup>2</sup>.
- .3 Air leakage resistance testing to be conducted before water penetration resistance test is performed.
- .6 Testing will be witnessed by Owner's Representative and test reports will be signed by Tester, Site Representative and Contractor.
- .7 Inform Owner's Representative two (2) working days prior to required testing.

### **Section 08 62 00 – Plastic Skylights (DTW Update)**

- Add the following sentence 1.2.1:
  - .1 American Architectural Manufacturers Association (AAMA).
    - .1 AAMA/WDMA/CSA101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for Windows, Doors and Skylights.
- Renumber 1.2.1 to 1.2.2.
- Renumber 1.2.2 to 1.2.3.
- Add the following 1.2.3.2:
  - .2 CSA-A440-00/A440.1, A440, Windows / Special Publication A440.1, User Selection Guide to CSA Standard A440, Windows.
- Add the following sentence 1.6:
  - 1.6 Performance Requirements
    - .1 Design and size components to withstand dead and live loads caused by pressure and suction of wind, snow and hail for sloped glazing, acting normal to plane of system as calculated in accordance with NBC as measured in accordance with ASTM E330.
    - .2 Design and size components to withstand seismic loads and sway displacement as calculated in accordance with NBC.
    - .3 Classification rating: to AAMA/WDMA/CSA 101/I.S.2/A440 for various regions of Newfoundland and Labrador as follows:
      - .1 Argentia
        - .1 Design Pressure: Class SKP-PG2400
        - .2 Positive Design Pressure: 2400 Pa.

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- .3 Negative Design Pressure: -5400 Pa.
- .4 Water Penetration Resistance Pressure: 620 Pa.
- .5 Canadian Air Infiltration/Exfiltration: A3 Level
- .6 Condensation Resistance: I50
- .2 Bonavista
  - .1 Design Pressure: Class SKP-PG2160
  - .2 Positive Design Pressure: 2160 Pa.
  - .3 Negative Design Pressure: -5040 Pa.
  - .4 Water Penetration Resistance Pressure: 620 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I57
- .3 Buchans
  - .1 Design Pressure: Class SKP-PG3360
  - .2 Positive Design Pressure: 3360 Pa.
  - .3 Negative Design Pressure: -5040 Pa.
  - .4 Water Penetration Resistance Pressure: 330 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I60
- .4 Cape Harrison
  - .1 Design Pressure: Class SKP-PG4080
  - .2 Positive Design Pressure: 4080 Pa.
  - .3 Negative Design Pressure: -4320 Pa.
  - .4 Water Penetration Resistance Pressure: 540 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I68
- .5 Cape Race
  - .1 Design Pressure: Class SKP-PG2400
  - .2 Positive Design Pressure: 2400 Pa.
  - .3 Negative Design Pressure: -5760 Pa.
  - .4 Water Penetration Resistance Pressure: 440 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I54
- .6 Churchill Falls
  - .1 Design Pressure: Class SKP-PG3120
  - .2 Positive Design Pressure: 3120 Pa.
  - .3 Negative Design Pressure: -2880 Pa.
  - .4 Water Penetration Resistance Pressure: 220 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I67
- .7 Corner Brook



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- .1 Design Pressure: Class SKP-PG2640
- .2 Positive Design Pressure: 2640 Pa.
- .3 Negative Design Pressure: -5400 Pa.
- .4 Water Penetration Resistance Pressure: 470 Pa.
- .5 Canadian Air Infiltration/Exfiltration: A3 Level
- .6 Condensation Resistance: I60
- .8 Gander
  - .1 Design Pressure: Class SKP-PG2640
  - .2 Positive Design Pressure: 2640 Pa.
  - .3 Negative Design Pressure: -4320 Pa.
  - .4 Water Penetration Resistance Pressure: 400 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I57
- .9 Grand Bank
  - .1 Design Pressure: Class SKP-PG2400
  - .2 Positive Design Pressure: 2400 Pa.
  - .3 Negative Design Pressure: -5400 Pa.
  - .4 Water Penetration Resistance Pressure: 620 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I54
- .10 Grand Falls
  - .1 Design Pressure: Class SKP-PG2640
  - .2 Positive Design Pressure: 2640 Pa.
  - .3 Negative Design Pressure: -4320 Pa.
  - .4 Water Penetration Resistance Pressure: 400 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I60
- .11 Happy Valley-Goose Bay
  - .1 Design Pressure: Class SKP-PG3360
  - .2 Positive Design Pressure: 3360 Pa.
  - .3 Negative Design Pressure: -2880 Pa.
  - .4 Water Penetration Resistance Pressure: 260 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I64
- .12 Labrador City
  - .1 Design Pressure: Class SKP-PG2880
  - .2 Positive Design Pressure: 2880 Pa.
  - .3 Negative Design Pressure: -2880 Pa.
  - .4 Water Penetration Resistance Pressure: 220 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level

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- .6 Condensation Resistance: I67
- .13 Port aux Basques
  - .1 Design Pressure: Class SKP-PG2400
  - .2 Positive Design Pressure: 2400 Pa.
  - .3 Negative Design Pressure: -5040 Pa.
  - .4 Water Penetration Resistance Pressure: 690 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I54
- .14 St. Anthony
  - .1 Design Pressure: Class SKP-PG3600
  - .2 Positive Design Pressure: 3600 Pa.
  - .3 Negative Design Pressure: -5760 Pa.
  - .4 Water Penetration Resistance Pressure: 690 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I65
- .15 Stephenville
  - .1 Design Pressure: Class SKP-PG2640
  - .2 Positive Design Pressure: 2640 Pa.
  - .3 Negative Design Pressure: -5760 Pa.
  - .4 Water Penetration Resistance Pressure: 400 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I55
- .16 St. John's
  - .1 Design Pressure: Class SKP-PG2400
  - .2 Positive Design Pressure: 2400 Pa.
  - .3 Negative Design Pressure: -5760 Pa.
  - .4 Water Penetration Resistance Pressure: 620 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I54
- .17 Wabana
  - .1 Design Pressure: Class SKP-PG2400
  - .2 Positive Design Pressure: 2400 Pa.
  - .3 Negative Design Pressure: -5400 Pa.
  - .4 Water Penetration Resistance Pressure: 620 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I54
- .18 Wabush
  - .1 Design Pressure: Class SKP-PG2880
  - .2 Positive Design Pressure: 2880 Pa.
  - .3 Negative Design Pressure: -2880 Pa.

- .4 Water Penetration Resistance Pressure: 220 Pa.
- .5 Canadian Air Infiltration/Exfiltration: A3 Level
- .6 Condensation Resistance: I67
- .4 Maintain continuous air barrier and vapour retarder throughout assembly, primarily in line with inside pane of glass and heel bead of glazing compound.

**Section 08 62 11 – Glazed Aluminum Skylights (DTW Update)**

- Add the following sentence 1.3.2.3:
  - .3 AAMA/WDMA/CSA101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for Windows, Doors and Skylights.
- Delete sentence 1.5.5 and replace with the following:
  - .5 Classification rating: to AAMA/WDMA/CSA 101/I.S.2/A440 for various regions of Newfoundland and Labrador as follows:
    - .1 Argentia
      - .1 Design Pressure: Class SKG-PG2400
      - .2 Positive Design Pressure: 2400 Pa.
      - .3 Negative Design Pressure: -5400 Pa.
      - .4 Water Penetration Resistance Pressure: 620 Pa.
      - .5 Canadian Air Infiltration/Exfiltration: A3 Level
      - .6 Condensation Resistance: I50
    - .2 Bonavista
      - .1 Design Pressure: Class SKG-PG2160
      - .2 Positive Design Pressure: 2160 Pa.
      - .3 Negative Design Pressure: -5040 Pa.
      - .4 Water Penetration Resistance Pressure: 620 Pa.
      - .5 Canadian Air Infiltration/Exfiltration: A3 Level
      - .6 Condensation Resistance: I57
    - .3 Buchans
      - .1 Design Pressure: Class SKG-PG3360
      - .2 Positive Design Pressure: 3360 Pa.
      - .3 Negative Design Pressure: -5040 Pa.
      - .4 Water Penetration Resistance Pressure: 330 Pa.
      - .5 Canadian Air Infiltration/Exfiltration: A3 Level
      - .6 Condensation Resistance: I60
    - .4 Cape Harrison
      - .1 Design Pressure: Class SKG-PG4080
      - .2 Positive Design Pressure: 4080 Pa.
      - .3 Negative Design Pressure: -4320 Pa.
      - .4 Water Penetration Resistance Pressure: 540 Pa.

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- .5 Canadian Air Infiltration/Exfiltration: A3 Level
- .6 Condensation Resistance: I68
- .5 Cape Race
  - .1 Design Pressure: Class SKG-PG2400
  - .2 Positive Design Pressure: 2400 Pa.
  - .3 Negative Design Pressure: -5760 Pa.
  - .4 Water Penetration Resistance Pressure: 440 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I54
- .6 Churchill Falls
  - .1 Design Pressure: Class SKG-PG3120
  - .2 Positive Design Pressure: 3120 Pa.
  - .3 Negative Design Pressure: -2880 Pa.
  - .4 Water Penetration Resistance Pressure: 220 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I67
- .7 Corner Brook
  - .1 Design Pressure: Class SKG-PG2640
  - .2 Positive Design Pressure: 2640 Pa.
  - .3 Negative Design Pressure: -5400 Pa.
  - .4 Water Penetration Resistance Pressure: 470 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I60
- .8 Gander
  - .1 Design Pressure: Class SKG-PG2640
  - .2 Positive Design Pressure: 2640 Pa.
  - .3 Negative Design Pressure: -4320 Pa.
  - .4 Water Penetration Resistance Pressure: 400 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I57
- .9 Grand Bank
  - .1 Design Pressure: Class SKG-PG2400
  - .2 Positive Design Pressure: 2400 Pa.
  - .3 Negative Design Pressure: -5400 Pa.
  - .4 Water Penetration Resistance Pressure: 620 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I54
- .10 Grand Falls
  - .1 Design Pressure: Class SKG-PG2640
  - .2 Positive Design Pressure: 2640 Pa.
  - .3 Negative Design Pressure: -4320 Pa.
  - .4 Water Penetration Resistance Pressure: 400 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I60
- .11 Happy Valley-Goose Bay
  - .1 Design Pressure: Class SKG-PG3360

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- .2 Positive Design Pressure: 3360 Pa.
- .3 Negative Design Pressure: -2880 Pa.
- .4 Water Penetration Resistance Pressure: 260 Pa.
- .5 Canadian Air Infiltration/Exfiltration: A3 Level
- .6 Condensation Resistance: I64
- .12 Labrador City
  - .1 Design Pressure: Class SKG-PG2880
  - .2 Positive Design Pressure: 2880 Pa.
  - .3 Negative Design Pressure: -2880 Pa.
  - .4 Water Penetration Resistance Pressure: 220 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I67
- .13 Port aux Basques
  - .1 Design Pressure: Class SKG-PG2400
  - .2 Positive Design Pressure: 2400 Pa.
  - .3 Negative Design Pressure: -5040 Pa.
  - .4 Water Penetration Resistance Pressure: 690 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I54
- .14 St. Anthony
  - .1 Design Pressure: Class SKG-PG3600
  - .2 Positive Design Pressure: 3600 Pa.
  - .3 Negative Design Pressure: -5760 Pa.
  - .4 Water Penetration Resistance Pressure: 690 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I65
- .15 Stephenville
  - .1 Design Pressure: Class SKG-PG2640
  - .2 Positive Design Pressure: 2640 Pa.
  - .3 Negative Design Pressure: -5760 Pa.
  - .4 Water Penetration Resistance Pressure: 400 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I55
- .16 St. John's
  - .1 Design Pressure: Class SKG-PG2400
  - .2 Positive Design Pressure: 2400 Pa.
  - .3 Negative Design Pressure: -5760 Pa.
  - .4 Water Penetration Resistance Pressure: 620 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I54
- .17 Wabana
  - .1 Design Pressure: Class SKG-PG2400
  - .2 Positive Design Pressure: 2400 Pa.
  - .3 Negative Design Pressure: -5400 Pa.
  - .4 Water Penetration Resistance Pressure: 620 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level

- .6 Condensation Resistance: I54
- .18 Wabush
  - .1 Design Pressure: Class SKG-PG2880
  - .2 Positive Design Pressure: 2880 Pa.
  - .3 Negative Design Pressure: -2880 Pa.
  - .4 Water Penetration Resistance Pressure: 220 Pa.
  - .5 Canadian Air Infiltration/Exfiltration: A3 Level
  - .6 Condensation Resistance: I67

**Section 09 01 90.62 – Exterior Re-Painting (DTW Update)**

- Delete sentence 1.7.3 and replace with the following:
  - .3 Submit WHMIS Safety Data Sheets (SDS) for paints and coating materials to be used.
- Delete sentence 1.7.4.5 and replace with the following:
  - .5 Manufacturer's Safety Data Sheets.

**Section 09 01 90.63 – Interior Re-Painting (DTW Update)**

- Delete sentence 1.7.3 and replace with the following:
  - .3 Submit WHMIS SDS - Safety Data Sheets for paint and coating materials to be used.
- Delete sentence 1.7.4.5 and replace with the following:
  - .5 Manufacturer's Safety Data Sheets (SDS).
- Delete sentence 3.7 and replace with the following:
  - 3.7 Partition Marking and Identification
    - .1 Contractor to stencil on both sides of fire rated separations, fire barriers, smoke barriers and smoke partitions the fire rating for that assembly and wall type (i.e.: **1 HOUR FIRE SEPARATION**).
    - .2 Stenciled fire ratings and wall types to be minimum 100 mm high **RED** letters, minimum 150 mm above finished ceilings, and minimum 2400 mm o.c. along partition.

**Section 09 21 16 – Gypsum Board Assemblies (DTW Update)**

- Add the following sentence 1.2.1.11:

- .11 ASTM C1629, Standard Classification for Abuse Resistant Nondecorated Interior Gypsum Panel Products and Fibre Reinforced Cement Panels
- Add the following sentence 1.2.1.12:
  - .12 ASTM D3273, Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
- Add the following sentence 1.2.1.13:
  - .13 ASTM E90, Standard Test method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
- Add the following sentence 2.1.4:
  - .4 Moisture and mold resistant gypsum board: to ATSM D3273, moisture-resistant gypsum core enclosed in 100% recycled moisture and mold resistant papers, regular and Type X, thicknesses as indicated on drawings, 1200 mm wide x maximum practical length, ends square cut, long edges tapered.
- Add the following sentence 2.1.5:
  - .5 Abuse resistant gypsum board: to ASTM C1629, fire rated gypsum board core with additives to enhance surface indentation resistance and impact resistance, enclosed in 100% recycled moisture and mold resistant papers, Type X, 16 mm thick, ends square cut, long edges tapered.
    - .1 Surface Abrasion Resistance: Classification Level 1 to ASTM C1629.
    - .2 Indentation Resistance: Classification Level 1 to ASTM C1629.
    - .3 Soft Body Impact Resistance: Classification Level 2 to ASTM C1629.
    - .4 Hard Body Impact Resistance; Classification Level 1 to ASTM C1629.
- Add the following sentence 2.1.6:
  - .6 Acoustically enhanced gypsum board: to ASTM E90, inner core layer - viscoelastic damping polymer, outer core layers – enhanced, high density mold-resistant gypsum core, regular and Type X,

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thicknesses as indicated on drawings, 1200 mm wide x maximum practical length, ends square cut, long edges tapered.

- .1 Surface Abrasion Resistance: Classification Level 3 to ASTM C1629.
- .2 Indentation Resistance: Classification Level 1 to ASTM C1629.
- .3 Soft Body Impact Resistance: Classification Level 2 to ASTM C1629.
- .4 Hard Body Impact Resistance; Classification Level 1 to ASTM C1629.

- Renumber 2.1.4 to 2.1.7.
- Renumber 2.1.5 to 2.1.8.
- Renumber 2.1.6 to 2.1.9.
- Renumber 2.1.7 to 2.1.10.
- Renumber 2.1.8 to 2.1.11.
- Renumber 2.1.9 to 2.1.12.
- Renumber 2.1.10 to 2.1.13.
- Renumber 2.1.11 to 2.1.14.
- Renumber 2.1.12 to 2.1.15.
- Renumber 2.1.13 to 2.1.16.
- Renumber 2.1.14 to 2.1.17.
- Renumber 2.1.15 to 2.1.18.
- Renumber 2.1.16 to 2.1.19.

### **Section 09 68 13 – Tile Carpet (DTW Update)**

- Delete sentence 1.3.8 and replace with the following:
  - .8 Submit WHMIS SDS - Safety Data Sheets acceptable to Labour Canada and Health Canada for carpet adhesive and seam adhesive. Indicate VOC content.



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**Section 09 68 16 – Sheet Carpet (DTW Update)**

- Delete sentence 1.3.8 and replace with the following:
  - .8 Submit WHMIS SDS - Safety Data Sheets acceptable to Labour Canada and Health Canada for carpet adhesive and seam adhesive. Indicate VOC content.

**Section 09 72 16 – Vinyl-Coated Fabric Wall Covering (DTW Update)**

- Delete sentence 1.3.1 and replace with the following:
  - .1 Submit WHMIS SDS - Safety Data Sheets. WHMIS acceptable to Labour Canada, and Health and Welfare Canada for vinyl-coated fabric wall coverings and adhesives. Indicate VOC content.

**Section 09 91 13 – Exterior Painting (DTW Update)**

- Delete sentence 1.6.1 and replace with the following:
  - .1 Submit WHMIS - SDS - Safety Data Sheets.
- Delete sentence 1.6.3.4 and replace with the following:
  - .4 Manufacturer's Safety Data Sheets (SDS).

**Section 09 91 23 – Interior Painting (DTW Update)**

- Delete sentence 1.6.3 and replace with the following:
  - .3 Submit WHMIS SDS - Safety Data Sheets. Indicate VOCs during application and curing.
- Delete sentence 1.6.4.5 and replace with the following:
  - .5 Manufacturer's Safety Data Sheets (SDS)
- Delete sentence 3.8 and replace with the following:
  - 3.8 Partition Marking and Identification
    - .1 Contractor to stencil on both sides of fire rated separations, fire barriers, smoke barriers and smoke partitions the fire rating for that assembly and wall type (i.e.: **1 HOUR FIRE SEPARATION**).

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- .2 Stenciled fire ratings and wall types to be minimum 100 mm high **RED** letters, minimum 150 mm above finished ceilings, and minimum 2400 mm o.c. along partition.

### **Section 10 11 16 – Markerboards** (DTW Update)

- Delete sentence 1.3.2 and replace with the following:
  - .2 Submit two copies of WHMIS SDS –Safety Data Sheets. Indicate VOC's:

### **Section 10 11 23 – Tackboards** (DTW Update)

- Delete sentence 1.3.3.1 and replace with the following:
  - .1 Submit two copies of WHMIS SDS - Safety Data. Indicate VOC's:

### **Section 10 21 13.13 – Metal Toilet Compartments** (DTW Update)

- Delete sentence 1.3.5 and replace with the following:
  - .5 Submit two copies of WHMIS SDS - Safety Data Sheets. Indicate VOC's:

### **Section 10 26 00.01 – Wall and Corner Guards** (DTW Update)

- Delete sentence 1.3.1.2 and replace with the following:
  - .2 Submit two copies of WHMIS SDS –Safety Data Sheets. Indicate VOC's:

### **Section 11 11 13.03 – Waste Oil Disposal System** (DTW Update)

- Delete section in its entirety and replace with new section attached.

### **Section 12 59 13 – Panel Hung Component System Furniture** (DTW Update)

- Sentence 1.4.4, delete words “<http://www.tw.gov.nl.ca/works/>” and replace with “<https://www.gov.nl.ca/ti/works/pmdajanyary2014/>”.

### **Section 21 12 00 – Standpipe and Hose Assembly** (DTW Update)

- Delete sentence 1.3.4.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).

- Delete sentence 1.4.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 21 13 13 – Wet Pipe Sprinkler Systems (DTW Update)**

- Delete sentence 1.3.2.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.6.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 21 13 16 – Dry Pipe Sprinkler Systems (DTW Update)**

- Delete sentence 1.2.3.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.3.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 21 30 00 – Fire Pumps and Controllers (DTW Update)**

- Delete sentence 1.3.2.1 and replace with the following:
  - .2 Safety Data Sheets (SDS).
- Delete sentence 1.5.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 22 05 15 – Plumbing Specialties and Accessories (DTW Update)**

- Delete sentence 1.3.5.1 and replace with the following:

- .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.2.3 and replace with the following:
- .3 Submit WHMIS SDS in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's for adhesive and solvents during application and curing.

**Section 22 07 19 – Plumbing Piping Insulation (DTW Update)**

- Delete sentence 1.5.2.1 and replace with the following:
- .2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 22 10 10 – Plumbing Pumps (DTW Update)**

- Delete sentence 1.3.1.1 and replace with the following:
- .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.2.2 and replace with the following:
- .2 Submit WHMIS SDS in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's for adhesive and solvents during application and curing.

**Section 22 11 18 – Domestic Water Piping Copper (DTW Update)**

- Delete sentence 1.2.7.1 and replace with the following:
- .1 Safety Data Sheets (SDS).
- Delete sentence 1.3.3 and replace with the following:
- .3 Submit WHMIS SDS - Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures.

**Section 22 11 18.01 – Domestic Water Piping Plastic (DTW Update)**

- Delete sentence 1.2.7.1 and replace with the following:
- .1 Safety Data Sheets (SDS).

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- Delete sentence 1.3.3 and replace with the following:
  - .3 Submit WHMIS SDS - Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures.

### **Section 22 15 00 – General Service Compressed Air Systems (DTW Update)**

- Delete sentence 1.3.4.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.2.2 and replace with the following:
  - .2 Submit WHMIS SDS. Indicate VOC's for adhesive and solvents during application and curing.

### **Section 22 42 13 – Commercial Washroom Fixtures (DTW Update)**

- Delete sentence 1.4.2 and replace with the following:
  - .2 Product Data: Submit WHMIS SDS –Safety Data Sheets.

### **Section 22 42 16 – Commercial Lavatories and Sinks (DTW Update)**

- Delete sentence 1.4.2 and replace with the following:
  - .2 Product Data: submit WHMIS SDS –Safety Data Sheets.

### **Section 22 42 19 – Commercial Showers and Bathtubs (DTW Update)**

- Delete sentence 1.4.2 and replace with the following:
  - .2 Product Data: Submit WHMIS SDS –Safety Data Sheets.

### **Section 22 47 00 – Drinking Fountains and Water Coolers (DTW Update)**

- Delete sentence 1.4.2 and replace with the following:
  - .2 Product Data: Submit WHMIS SDS –Safety Data Sheets.

### **Section 22 63 00 – Gas Systems for Laboratory and Healthcare Facilities (DTW Update)**

- Add new section 22 63 00 – Gas Systems for Laboratories and Healthcare Facilities.

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**Section 23 05 13 – Common Motor Requirements for HVAC Equipment**  
***(DTW Update)***

- Delete sentence 1.3.3.1 and replace with the following:
  - .1 Safety Data Sheets (SDS)
- Delete sentence 1.4.2.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 05 23.01 – Valves – Bronze** ***(DTW Update)***

- Delete sentence 1.4.2 and replace with the following:
  - .2 Product Data: submit WHMIS SDS –Safety Data Sheets.

**Section 23 05 23.02 – Valves – Cast Iron** ***(DTW Update)***

- Delete sentence 1.4.2 and replace with the following:
  - .2 Product Data: submit WHMIS SDS –Safety Data Sheets.

**Section 23 05 23.03 – Valves - Cast Steel** ***(DTW Update)***

- Delete sentence 1.4.2 and replace with the following:
  - .2 Product Data: submit WHMIS SDS – Safety Data Sheets.

**Section 23 05 23.05 – Butterfly Valves** ***(DTW Update)***

- Delete sentence 1.4.2 and replace with the following:
  - .2 Product Data: submit WHMIS SDS –Safety Data Sheets.

**Section 23 05 23.06 – Valves – CPVC** ***(DTW Update)***

- Delete sentence 1.3.2 and replace with the following:
  - .2 Product Data: submit WHMIS SDS –Safety Data Sheets.

**Section 23 05 29 – Hangers and Supports for HVAC Piping and Equipment**  
***(DTW Update)***

- Delete sentence 1.3.4.1 and replace with the following:

.1 Safety Data Sheets (SDS)

**Section 23 05 33 – Heat Tracing for HVAC Piping and Tanks** ***(DTW Update)***

- Delete sentence 1.3.1.1 and replace with the following:

.1 Safety Data Sheets (SDS)

- Delete sentence 1.4.1.1.1 and replace with the following:

.1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 – Submittal Procedures.

**Section 23 05 48 – Vibration and Seismic Controls for HVAC Piping and Equipment** ***(DTW Update)***

- Delete sentence 1.3.1.1 and replace with the following:

.1 Safety Data Sheets (SDS)

- Delete sentence 1.4.1.1.1 and replace with the following:

.1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 05 94 – Pressure Testing of Ducted Air System** ***(DTW Update)***

- Delete sentence 1.3.1.1 and replace with the following:

.1 Safety Data Sheets (SDS)

**Section 23 07 19 – HVAC Piping Insulation** ***(DTW Update)***

- Delete sentence 1.5.2.1 and replace with the following:

.1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 08 02 – Cleaning and Start-Up of Mechanical Piping Systems**  
***(DTW Update)***

- Delete sentence 1.3.2.1 and replace with the following:

.1 Safety Data Sheets (SDS)

**Section 23 09 33 – Electric and Electronic Control System for HVAC** ***(DTW Update)***

- Delete sentence 1.3.1.1 and replace with the following:

.1 Safety Data Sheets (SDS)

- Delete sentence 1.4.1.2 and replace with the following:

.2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 – Submittal Procedures.

**Section 23 11 13 – Facility Fuel-Oil Piping** ***(DTW Update)***

- Delete sentence 1.3.4.1 and replace with the following:

.1 Safety Data Sheets (SDS)

- Delete sentence 1.4.3 and replace with the following:

.3 Submit WHMIS SDS in accordance with Section. Indicate VOC's for adhesive and solvents during application and curing Section 01 33 00 - Submittal Procedures.

**Section 23 21 16 – Steam Condensate Heating Piping Specialties** ***(DTW Update)***

- Delete sentence 1.4.2 and replace with the following:

.2 Product Data: Submit WHMIS SDS –Safety Data Sheets.

**Section 23 11 23 – Facility Natural Gas Piping** ***(DTW Update)***

- Delete sentence 1.3.5.1 and replace with the following:

.1 Safety Data Sheets (SDS)

- Delete sentence 1.4.2.3 and replace with the following:



- .3 Submit WHMIS SDS in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's for adhesive and solvents during application and curing.

**Section 23 23 00 – Refrigerant Piping (DTW Update)**

- Delete sentence 1.3.5.1 and replace with the following:

- .1 Safety Data Sheets (SDS).

**Section 23 25 00 – HVAC Water Treatment (DTW Update)**

- Delete sentence 1.3.2.1 and replace with the following:

- .1 Safety Data Sheets (SDS).

- Delete sentence 1.4.1.1.1 and replace with the following:

- .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 – Submittal Procedures.

**Section 23 31 13.01 – Metal Ducts – Low Pressure to 500 Pa (DTW Update)**

- Delete sentence 1.3.4.1 and replace with the following:

- .1 Safety Data Sheets (SDS).

- Delete sentence 1.4.2 and replace with the following:

- .2 Product Data: submit WHMIS SDS - Safety Data for the following:

**Section 23 32 48 – Acoustical Air Plenums (DTW Update)**

- Delete sentence 1.3.3.1 and replace with the following:

- .1 Safety Data Sheets (SDS).

- Delete sentence 1.4.1.1.1 and replace with the following:

- .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 – Submittal Procedures.

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**Section 23 33 00 – Air Duct Accessories (DTW Update)**

- Delete sentence 1.3.1.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.2.2 and replace with the following:
  - .2 Submit WHMIS SDS in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's for adhesive and solvents during application and curing.

**Section 23 33 14 – Dampers – Balancing (DTW Update)**

- Delete sentence 1.3.2.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 – Submittal Procedures.

**Section 23 33 15 – Dampers – Operating (DTW Update)**

- Delete sentence 1.3.2.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.1.2 and replace with the following:
  - .2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 33 16 – Dampers – Fire and Smoke (DTW Update)**

- Delete sentence 1.3.2.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.1.2 and replace with the following:

- .2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 33 46 – Flexible Ducts (DTW Update)**

- Delete sentence 1.3.3.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.2 and replace with the following:
  - .2 Product Data: submit WHMIS SDS in accordance with Section 01 33 00 - Submittal Procedures for the following:

**Section 23 33 53 – Duct Liners (DTW Update)**

- Delete sentence 1.3.3.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.2 and replace with the following:
  - .2 Submit WHMIS MSDS - Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 34 00 – HVAC Fans (DTW Update)**

- Delete sentence 1.3.4.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.5.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 34 00.13 – Domestic Fans (DTW Update)**

- Delete sentence 1.3.3.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.5.1.1.1 and replace with the following:

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- .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

### **Section 23 34 23.13 – Packaged Roof and Wall Exhausters (DTW Update)**

- Delete sentence 1.3.4.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.5.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

### **Section 23 36 00 – Air Terminal Units (DTW Update)**

- Delete sentence 1.2.3.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 – Submittal Procedures.

### **Section 23 37 13 – Diffusers, Registers and Grilles (DTW Update)**

- Delete sentence 1.5.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

### **Section 23 37 20 – Louvres, Intakes and Vents (DTW Update)**

- Delete sentence 1.3.4.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.5.1.1.1 and replace with the following:

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- .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

### **Section 23 40 00 – HVAC Air Cleaning Devices (DTW Update)**

- Delete sentence 1.3.3.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

### **Section 23 51 00 – Breeching, Chimneys and Stacks (DTW Update)**

- Delete sentence 1.3.3.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.1.2 and replace with the following:
  - .2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 – Submittal Procedures.

### **Section 23 52 00 – Heating Boilers (DTW Update)**

- Delete sentence 1.3.5.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 – Submittal Procedures.

### **Section 23 65 10 – Condensers, Coolers and Cooling Towers (DTW Update)**

- Delete sentence 1.4.6.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).

- Delete sentence 1.6.1.2 and replace with the following:
  - .2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 – Submittal Procedures.

**Section 23 74 00 – Packaged Outdoor HAVC Equipment (DTW Update)**

- Delete sentence 1.3.4.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.3 and replace with the following:
  - .3 Submit WHMIS SDS in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's for adhesive and solvents during application and curing.

**Section 23 82 00.16 – Incremental Heating and Cooling Units (DTW Update)**

- Delete sentence 1.3.1.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.2.2 and replace with the following:
  - .2 Submit WHMIS MSDS in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's for adhesive and solvents during application and curing.

**Section 23 82 19 – Fan Coil Units (DTW Update)**

- Delete sentence 1.3.1.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 82 33.04 – Draft Barrier Convectors (DTW Update)**

- Delete sentence 1.3.2.1 and replace with the following:

.1 Safety Data Sheets (SDS)

- Delete sentence 1.4.1.1.1 and replace with the following:

.1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 82 33.05 – Under Slab Heaters (DTW Update)**

- Delete sentence 1.3.2.1 and replace with the following:

.1 Safety Data Sheets (SDS)

- Delete sentence 1.4.1.1.1 and replace with the following:

.1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 82 33.13 – Residential Convectors (DTW Update)**

- Delete sentence 1.3.3 and replace with the following:

.3 Submit WHMIS SDS - Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures. WHMIS acceptable to Labour Canada, and Health Canada.

**Section 23 82 33.19 – Cabinet Convector Heaters (DTW Update)**

- Delete sentence 1.3.2.1 and replace with the following:

.1 Safety Data Sheets (SDS)

- Delete sentence 1.4.1.1.1 and replace with the following:

.1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures

**Section 23 83 13.19 – Radiant Heating Electric Cables – Snow Melting (DTW Update)**

- Delete sentence 1.3.2.1 and replace with the following:

.1 Safety Data Sheets (SDS)

- Delete sentence 1.4.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 83 13.23 – Radiant Heating Electric Cables – Floor Warming**  
***(DTW Update)***

- Delete sentence 1.3.2.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.1.1.1 and replace with the following:
  - .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 82 36 – Finned Tube Radiation Heaters** ***(DTW Update)***

- Delete sentence 1.3.1.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).
- Delete sentence 1.4.1.2 and replace with the following:
  - .2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 - Submittal Procedures.

**Section 23 82 39 – Unit Heaters – Steam/Hydronic** ***(DTW Update)***

- Delete sentence 1.3.2 and replace with the following:
  - .2 Submit WHMIS SDS –Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures. WHMIS acceptable to Labour Canada, and Health Canada.

**Section 23 83 13 – Radiant Heating Electric Cables** ***(DTW Update)***

- Delete sentence 1.3.1.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).



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- Delete sentence 1.4.1.2 and replace with the following:
  - .2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS) in accordance with Section 01 33 00 – Submittal Procedures).

### **Section 23 84 13 – Humidifiers (DTW Update)**

- Delete sentence 1.3.1.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).

### **Section 25 05 01 – EMCS: General Requirements (DTW Update)**

- Delete sentence 1.3.7.1 and replace with the following:
  - .1 Safety Data Sheets (SDS).

### **Section 26 05 00 – Common Work Results for Electrical (DTW Update)**

- Sentence 1.1.1, delete words “Refer to Section 01 00 00 – Bid Depository Sections where applicable for bid depository.”

### **Section 26 05 14 – Power Cable and Overhead Connectors (1001 V) (DTW Update)**

- Sentence 1.1.3, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 05 21 – Wire and Cables (0-1000V) (DTW Update)**

- Delete sentence 2.1.2 and replace with the following:
  - .2 Copper and ACM alloy conductors: size as indicated, with 600 V insulation of cross-linked thermosetting polyethylene material rated RW90 XLPE and RWU90 XLPE as indicated.
    - .1 Use RW90 XLPE or RWU90 XLPE in underground conduits.
    - .2 For direct buried underground cables, use RWU90 XLPE.
    - .3 RWU90 XLPE not required under interior floor slabs.

### **Section 26 05 27 – Grounding – Primary (DTW Update)**

- Sentence 1.1.1, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.10.1, delete word “01 91 13” and replace with “01 91 13.13”.

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**Section 26 05 28 – Grounding – Secondary (DTW Update)**

- Sentence 1.1.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 05 31 – Splitters, Junction, Pull Boxes and Cabinets (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 05 43.01 – Installation of Cables in Trenches and in Ducts (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.4.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 09 23.01 – Metering & Switchboard Instruments (DTW Update)**

- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 09 23.02 – Lighting Control Devices – Photoelectric (DTW Update)**

- Sentence 1.1.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 09 23.03 – Lighting Control Devices – Incandescent Dimming (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Delete sentence 1.3.1 and replace with the following:
  - .1 Submit WHMIS SDS - Safety Data Sheets. WHMIS acceptable to Labour Canada, and Health and Welfare Canada.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 09 23.04 – Light Control Devices – Fluorescent Dimming (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Delete sentence 1.3.1 and replace with the following:

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- .1 Submit WHMIS SDS - Safety Data Sheets. WHMIS acceptable to Labour Canada, and Health and Welfare Canada.

- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 09 24 – Lighting Control Devices – Low Voltage (DTW Update)**

- Sentence 1.1.5, delete word “01 91 13” and replace with “01 91 13.13”.
- Delete sentence 1.3.1.1.1 and replace with the following:

- .1 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Safety Data Sheets (SDS).

- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 12 16.01 – Dry Type Transformers Up to 600 V Primary (DTW Update)**

- Sentence 1.3.2, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 12 19 – Pad Mounted, Liquid Filled, Medium Voltage Transformers (DTW Update)**

- Sentence 3.3.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 23 00 – Low Voltage Switchgear (DTW Update)**

- Sentence 1.5.1, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 24 02 – Service Entrance Board (DTW Update)**

- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 24 05 – Service Entrance TVSS Protection (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 24 16.01 – Panelboards – Breaker Type (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 24 16.02 – Panelboards – Switch and Fuse Type (DTW Update)**

- Sentence 1.1.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 24 19 – Motor Control Centres (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Delete sentence 1.3.1 and replace with the following:
  - .1 Submit WHMIS SDS - Safety Data Sheets. WHMIS acceptable to Labour Canada, and Health and Welfare Canada.

- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 27 10 – Modular Wiring System (DTW Update)**

- Sentence 1.1.1, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence delete word “01 91 13” and replace with “01 91 13.13”.3.1.11,

**Section 26 27 26 – Wiring Devices (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 27 73 – Door Chimes (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 28 16.01 – Air Circuit Breakers (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 28 16.02 – Moulded Case Circuit Breakers (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 28 18 – Ground Fault Equipment Protection (DTW Update)**

- Sentence 1.2.4, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 28 20 – Ground Fault Circuit Interrupters – Class “A” (DTW Update)**

- Sentence 1.2.4, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 28 23 – Disconnect Switches – Fused and Non-Fused (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 29 01 – Contactors (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 29 03 – Control Devices (DTW Update)**

- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 29 10 – Motor Starters to 600 V (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 32 13.01 – Power Generation Diesel (DTW Update)**

- Sentence 1.2.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 2.13.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 32 13.02 – Power Generation to 30 kW (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 32 13.03 – Installation of Electric Power Generating Equipment (DTW Update)**

- Sentence 1.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

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- Sentence 1.8.1, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.10.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 33 53 – Static Uninterruptible Power Supply (DTW Update)**

- Sentence 3.1.8, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 36 23 – Automatic Transfer Switches (DTW Update)**

- Sentence 1.2.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 2.6.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 41 00.02 – Secondary Lighting Arrestors (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 51 00 – Smart-Light Control System (DTW Update)**

- Sentence 1.1.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 52 13.13 – Emergency Lighting (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.1.4, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 53 00 – Exit Signs (DTW Update)**

- Sentence 3.1.5, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 26 56 19 – Roadway Lighting (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.1.5, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 56 20 – Performance Lighting System (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 56 36 – Flood Lighting (DTW Update)**

- Sentence 1.1.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 26 80 00 – Commissioning of Electrical Systems (DTW Update)**

- Sentence 1.3.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 1.11.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 27 05 14 – Communication Cables – Inside Buildings (DTW Update)**

- Sentence 1.1.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.3.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 27 05 28 – Pathways for Communications Systems (DTW Update)**

- Sentence 1.1.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 27 20 00 – Data Communications (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.4.7, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 27 31 00 – Voice Communications Switching & Routing Equipment (DTW Update)**

- Sentence 1.1.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 27 51 16 – Public Address and Mass Notification Systems (DTW Update)**

- Sentence 1.1.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

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### **Section 27 51 23 – Intercommunications and Program Systems (DTW Update)**

- Sentence 1.1.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 27 51 26 – Assistive Listening Systems (DTW Update)**

- Sentence 1.4.1, delete words “public address system” and replace with “assistive listening system”.

### **Section 27 51 26.01 – Enhanced Classroom Listening System (DTW Update)**

- Add new section 27 51 26.01 – Enhanced Classroom Listening System (DTW Update)

### **Section 27 52 23 – Nurses Call/Code Blue Systems (DTW Update)**

- Sentence 1.1.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 1.5.1, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 27 53 13 – Clock Systems (DTW Update)**

- Sentence 1.1.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 27 53 21 – Cable Television System (DTW Update)**

- Sentence 1.3.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 28 13 00 – Intrusion Detection (Form 2) (DTW Update)**

- Sentence 1.2.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

### **Section 28 13 28 – Building Entrance Control System (DTW Update)**

- Sentence 1.1.3, delete word “01 91 13” and replace with “01 91 13.13”.



- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 28 13 50 – Lighting Control Motion Sensors (DTW Update)**

- Sentence 1.2.2, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 28 16 00 – Intrusion Detection (Form 1) (DTW Update)**

- Sentence 1.2.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Delete sentence 1.6.1.1 and replace with the following:

.1 Submit two copies of WHMIS SDS - Safety Data Sheets.

**Section 28 23 00 – Video Surveillance (DTW Update)**

- Sentence 1.2.3, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 28 31 00.01 – Multiplex Fire Alarm System (DTW Update)**

- Sentence 1.1.3, delete word “01 91 13” and replace with “01 91 13.13”.
- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 32 31 13 – Chain Link Fences and Gates (DTW Update)**

- Delete sentence 1.3.1 and replace with the following:

.1 Submit WHMIS SDS –Safety Data Sheets.

**Section 33 56 13 – Aboveground Fuel Storage Tanks (DTW Update)**

- Sentence 3.2.2, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 33 65 76 – Direct Buried Underground Cable Ducts (DTW Update)**

- Delete sentence 1.3.1 and replace with the following:

.1 Submit WHMIS SDS - Safety Data Sheets acceptable to Labour Canada, and Health and Welfare Canada for solvent cement. Indicate VOC content.

**Section 33 71 73.01 – Overhead Electrical Service (DTW Update)**

- Sentence 3.2.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 33 71 73.02 – Underground Electrical Service (DTW Update)**

- Sentence 3.3.1, delete word “01 91 13” and replace with “01 91 13.13”.

**Section 34 71 13.25 – Vehicle W-Beam Guide Rail (DTW Update)**

- Sentence 2.1.2.2, delete words “(12 gauge)”.
- Sentence 3.1.6, delete words “1200 mm” and replace with “1500 mm”.
- Sentence 3.1.11, delete words “500 mm” and replace with “635 mm”.