

**Index** *(NMS Update)*

- Renumber section 01 74 11 to “01 74 00”.
- Renumber section 01 91 13 to “01 91 13.13”.
- Renumber Section 01 91 33 to “01 91 13.16”.
- Renumber Section 01 91 41 to “01 79 00.13”; change name of section to “Demonstration and Training for Building Commissioning”.
- Add new Section 02 41 19.13 – Selective Building Demolition.
- Renumber Section 08 36 13.02 to “08 36 13.16”.
- Renumber Section 08 62 10 to “08 62 00”.
- Renumber Section 08 70 05 to “06 41 93”.
- Renumber Section 08 80 50 to “08 80 00”.
- Renumber Section 09 91 13.01 to “09 01 90.62”.
- Renumber Section 09 91 23.01 to “09 01 90.63”.
- Renumber section 10 14 43 to “26 53 13”; change name of section to “Photoluminescent Signage”.
- Renumber Section 10 22 26.13 to “10 22 33”.
- Renumber Section 10 22 26.33 to “10 22 39”.
- Renumber Section 10 28 10 to “10 28 00”.
- Rename Section 12 35 53.13 to “Metal Laboratory Casework”.
- Renumber Section 21 05 05 to “21 05 00”.
- Renumber Section 21 12 01 to “21 12 00”; change name of section to “Fire-Suppression Standpipes and Hose Assemblies”.
- Renumber Section 22 42 01 to “22 05 15”

- Renumber Section 22 13 17 to “22 13 16.13”; change name of section to “Sanitary Waste and Vent Piping – Cast Iron and Copper”.
- Renumber Section 22 13 18 to “22 13 16.16”; change name of section to “Sanitary Waste and Vent Piping – Plastic”.
- Renumber Section 22 30 05 to “22 30 00”; change name of section to “Electric Domestic Water Heaters”.
- Renumber Section 22 42 03 to “22 42 13”; change name of section to “Commercial Water Closets, Urinals and Bidets”.
- Renumber Section 22 42 20 to “22 42 19”; change name of section to “Commercial Bathtubs and Showers”.
- Renumber Section 23 05 19.01 to “23 05 19.13”.
- Renumber Section 23 21 14 to “23 21 16”; change name of section to “Steam and Condensate Heating Piping Specialties”.
- Rename Section 23 25 00 to “HVAC Water Treatment”.
- Renumber Section 23 34 24 to “23 34 00.13”.
- Renumber Section 23 34 25 to “23 34 23.13”.
- Renumber Section 23 44 00 to “23 40 00”; change name of section to “HVAC Air Cleaning Devices”.
- Renumber Section 23 55 01 to “23 55 13”; change name of section to “Fuel-Fired Duct Heaters”.
- Renumber Section 23 73 10 to “23 73 00.13”.
- Renumber Section 23 73 11 to “23 73 00.16”.
- Renumber Section 23 82 20 to “23 82 00.13”.
- Renumber Section 23 82 21 to “23 82 00.16”.
- Renumber Section 23 82 33.01 to “23 82 33.13”.
- Renumber Section 23 82 33.02 to “23 82 33.16”.
- Renumber section 23 82 33.03 to “23 82 33.19”.

- Renumber section 23 82 39.01 to “23 82 39.23”.
- Renumber section 23 83 00.01 to “23 83 00.13”.
- Renumber section 23 83 13.01 to “23 83 13.19”.
- Renumber section 23 83 13.02 to “23 83 13.23”.
- Rename section 26 33 53 to “Static Uninterruptible Power Supply”.
- Renumber section 26 52 00 to “26 52 13.13”.
- Rename section 31 05 16 to “Aggregates for Earthwork”.
- Renumber section 33 11 16 to “33 14 16”.
- Renumber section 33 21 00 to “33 11 00”; change name of section to “Groundwater Sources”.
- Renumber section 33 31 13 to “33 31 11”, change name of section to “Public Sanitary Sewerage Gravity Piping”.

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

- Sentence 1.3.2.7, delete word “23 82 20” and replace with “23 82 00.13”.
- Sentence 1.3.2.8, delete word “23 82 33.01” and replace with “23 82 33.13”.
- Sentence 1.3.2.9, delete word “23 82 33.01” and replace with “23 82 33.16”.
- Sentence 1.3.2.10, delete word “23 82 33.03” and replace with “23 82 33.19”.
- Sentence 1.3.2.11, delete word “23 82 39.01” and replace with “23 82 39.23”.
- Sentence 1.3.2.13, delete word “23 83 13.01” and replace with “23 83 13.19”.
- Sentence 1.3.2.14, delete word “23 83 13.02” and replace with “23 83 13.23”.
- Sentence 1.3.2.15, delete word “23 83 00.01” and replace with “23 83 00.13”.

**Section 01 11 00 – Summary of Works** *(NMS Update)*

- Sentence 1.5.1.2, delete word “21 05 05” and replace with “21 05 00”.

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

- Delete sentence 1.6 and replace with the following:

1.6 CONTRACTOR SAFETY REPRESENTATIVE

- Sentence 1.6.1, delete words “Contractor’s Safety Officer (CSO)” and replace with “Contractor Safety Representative (CSR)”.
- Sentence 1.6.1, delete “Editorial Note” and replace with the following:

***Editorial Note***

***Replace sentence 1.6.1 with the following if the Design Manager specifies a requirement for a site dedicated full time Contractor Safety Representative. Delete this editorial note if a full time site dedicated Contractor’s Safety Representative is not specifically required.***

The contractor shall employ a site dedicated full time Contractor Safety Representative (CSR) who must be on site during execution of the Work. Periodic absences during the workday of short duration for project related activities are acceptable provided they have been pre-arranged with TW’s construction manager. In unusual situations absences of one full day or longer will require a replacement. The replacement will be required to have prior familiarization with the site and the Site Specific Health and Safety Plan. The CSR and any temporary replacement shall have as a minimum successfully completed the following training, and must have current credentials for those that have expiration dates:

- Sentence 1.6.2, delete word “CSO” and replace with “CSR”.
- Add the following sentence 1.6.2.6:  

.6 The CSR may have the designation of National Construction Safety Officer (NCSO), Construction Safety Officer (CSO), Canadian Registered Safety Professional (CRSP), or Certified Health and Safety Consultant (CHSC), or other similar designation.

**Section 01 45 00 – Quality Control (NMS Update)**

- Sentence 1.11.1, delete word “09 91 23.01” and replace with “09 01 90.63”

**Section 01 74 11 – Cleaning (NMS Update)**

- Renumber section to “01 74 00”.
- Add the following sentence 1.3.11:  

.11 Provide and use marked separate bins for recycling. Refer to Section 01 74 19 - Waste Management and Disposal.

**Section 01 77 00 – Closeout Procedures (NMS Update)**

- Delete sentence 1.1.1 and replace with “Section 01 74 00 – Cleaning”.
- Sentence 1.1.3, delete words “01 91 13” and replace with “01 91 13.13”.
- Sentence 1.2.3.6, delete words “01 91 13” and replace with “01 91 13.13”.

**Section 01 91 13 – Commissioning (Cx) Requirements (NMS Update)**

- Renumber section to 01 91 13.13.
- Delete sentence 1.3.4 and replace with “Section 01 91 13.16 – Commissioning (Cx) Forms”.
- Delete sentence 1.3.5 and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.
- Sentence 1.9.1, delete word “01 91 33” and replace with “01 91 13.16”.
- Sentence 1.27.1, delete words “Section 01 91 41 - Commissioning (Cx) – Training” and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.

**Section 01 91 33 – Commissioning Forms (NMS Update)**

- Renumber section to “01 91 13.16”.
- Delete sentence 1.2.3 and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.

**Section 01 91 41 – Commissioning: Training (NMS Update)**

- Renumber section to “01 79 00.13”; change name of section to “Demonstration and Training for Building Commissioning”.
- Sentence 1.2.3, delete word “01 91 33” and replace with “01 91 13.16”.

**Section 02 41 13 – Selective Site Demolition (NMS Update)**

- Delete sentence 1.1 and replace with the following:

1.1 SUMMARY

- .1 Section includes descriptions for demolishing, salvaging, recycling and removing site work items identified for removal in whole or in part, and for backfilling trenches and excavations resulting from site demolition activities.
  - Delete sentence 1.3.3.2 and replace with the following:
    - .2 Detailed sequence of selective site demolition and removal work, with starting and ending dates for each activity.
  - Add the following sentence 1.3.3.5:
    - .5 Interruption of utility services.
  - Add the following sentence 1.3.3.6:
    - .6 Coordination for shutoff, capping, and continuation of utility services.
  - Add the following sentence 1.3.3.7:
    - .7 Locations of temporary partitions and means of egress.
  - Add the following sentence 1.3.5:
    - .5 Proposed Dust Control and Noise Control:
      - .1 Submit statement or drawing that indicates measures proposed for use, proposed locations, and proposed time frame for their operation.
  - Add the following sentence 1.3.6:
    - .6 Qualification Data:
      - .1 Submit information for companies and personnel indicating their capabilities and experience to perform work of this Section including; but not limited to, lists of completed projects with project names and addresses, for work of similar complexity and extent.
  - Delete sentence 1.4 and replace with the following:
    - 1.4 ADMINISTRATIVE REQUIREMENTS
      - .1 Coordinate with Owner's Representative for the material ownership including the following:

- .1 Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property. Demolished materials shall become Contractor's property and shall be removed from Project site.
  - .2 Historic items, relics, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, antiques, and other items of interest or value to Owner that may be encountered during demolition remain Owner's property:
    - .1 Carefully remove and salvage each item or object in a manner to prevent damage and deliver promptly to Owner's Representative.
    - .2 Coordinate with Owner's Representative, who will establish special procedures for removal and salvage operations.
  - .2 Convene pre-installation meeting one week prior to beginning work of this section to:
    - .1 Verify project requirements.
    - .2 Review installation and substrate conditions.
    - .3 Verify existing site conditions adjacent to demolition work.
    - .4 Coordinate with other construction sub trades.
    - .5 Arrange for site visit with Owner's Representative to examine existing site conditions adjacent to demolition work, prior to start of Work.
  - .3 Hold project meetings every month.
    - .1 Ensure key personnel, site supervisor, project manager, subcontractor representatives attend.
  - .4 Scheduling:
    - .1 Employ necessary means to meet project time lines without compromising specified minimum rates of material diversion.
    - .2 Notify Owner's Representative in writing when unforeseen delays occur.
- Add the following sentence 1.6.6:
    - .6 Prevent extraneous materials from contaminating air beyond application area, by providing temporary enclosures during demolition work.
  - Add the following sentence 1.6.7:
    - .7 Cover or wet down dry materials and waste to prevent blowing dust and debris. Control dust on all temporary roads.
  - Add the following sentence 1.6.8:

- .8 Conduct selective site demolition so Owner's operations will not be disrupted.
  - .1 Provide not less than three (3) working days' notice to Owner's Representative of activities that will affect operations.
  - .2 Maintain access to existing walkways, exits, and other adjacent occupied or used facilities. Closing or obstructing walkways, exits, or other occupied or used facilities without written permission from Owner's Representative is not permitted.
- Add the following sentence 1.6.9:
  - .9 Owner's Representative assumes no responsibility for Selective Site elements being demolished.
    - .1 Conditions existing at time of inspection for bidding purpose will be maintained by Owner's Representative as far as practical.
    - .2 Before selective site demolition, remove, protect and store salvaged items as directed by Owner's Representative.
- Add the following sentence 1.7.2:
  - .2 Site elements that will be demolished are based on their condition on date that tender is accepted.
- Delete sentence 1.8.
- Add the following sentence 3.1:
  - 3.1 EXAMINATION
    - .1 Survey existing conditions and correlate with requirements indicated to determine extent of selective site demolition required.
    - .2 Owner's Representative does not guarantee that existing conditions are the same as those indicated in Project Record Documents.
    - .3 Inventory and record the condition of items being removed and salvaged.
    - .4 When unanticipated mechanical, electrical, or structural elements are encountered, investigate and measure the nature and extent of the element. Promptly submit a written report to Owner's Representative.
    - .5 Perform an engineering survey of condition of adjacent buildings to determine whether removing any site element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective site demolition operations.



- .6 Locate and protect utilities. Preserve active utilities traversing site in operating condition.
- .7 Notify and obtain approval of utility companies before starting demolition.

- Renumber 3.1 to 3.2, delete sentence and replace with the following:

### 3.2 PREPARATION

- .1 Temporary Erosion and Sedimentation Control:
  - .1 Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.
  - .2 Inspect, repair, and maintain erosion and sedimentation control measures during demolition.
  - .3 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal after completion of demolition work.
- .2 Protection of in-place conditions:
  - .1 Prevent movement, settlement or damage of adjacent structures, services, walks, paving, trees, landscaping, adjacent grades properties, parts of existing building to remain.
    - .1 Provide bracing, shoring and underpinning as required.
    - .2 Repair damage caused by demolition as directed by Owner's Representative.
  - .2 Support affected site elements and, if safety of site element being demolished, adjacent structures, or services appears to be endangered, take preventative measures, stop Work and immediately notify Owner's Representative.
  - .3 Prevent debris from blocking surface drainage system, elevators, mechanical and electrical systems which must remain in operation.
- .3 Surface Preparation:
  - .1 Disconnect electrical and service lines within the site to be demolished.
  - .2 Disconnect and cap designated mechanical services.
  - .3 Septic Tanks:
    - .1 Pump out buried septic tanks, left in place. Fill with sand.
    - .2 Remove tanks within area of new construction or under paved areas and slabs.

- Renumber 3.2 to 3.3.

- Renumber 3.3 to 3.4.
- Renumber 3.4 to 3.5.
- Renumber 3.5 to 3.6.

**Section 02 41 16 – Structure Demolition** (NMS Update)

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

**Section 02 41 19.13 – Selective Building Demolition** (NMS Update)

- Add new Section 02 41 19.13 – Selective Building Demolition.

**Section 02 41 99 – Demolition for Minor Works** (NMS Update)

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 03 10 00 – Concrete Forming and Accessories** (NMS/DTW Update)

- Delete sentence 1.2.1.2 and replace with the following:
  - .2 CAN/CSA-O86, Engineering Design in Wood.
- Delete sentence 2.1.5 and replace with the following:
  - .5 Form release agent: Proprietary, non volatile material not to stain concrete or impair subsequent application of finishes or coatings to surface of concrete, derived from agricultural sources, non petroleum containing, non-toxic, biodegradable, low VOC.
- Sentence 2.1.7, delete word “07 92 10” and replace with “07 92 00”.

**Section 03 11 19 – Insulating Concrete Forms** (NMS Update)

- Add the following sentence 3.3.10:
  - .10 Keep form joints to minimum.
- Add the following sentence 3.3.11:
  - .11 Form chases, slots, openings, drips, recesses, expansion and control joints as indicated.
- Add the following sentence 3.3.12:

- .1 Build in anchors, sleeves and other inserts required or specified in other Sections.
  - .1 Ensure anchors and inserts do not protrude beyond surfaces designated to receive applied finishes.

**Section 03 30 00 – Cast-in-Place Concrete (NMS Update)**

- Sentence 1.3.1.1, delete word “C260” and replace with “C260/C260M”.
- Delete sentence 1.3.3.2 and replace with the following:
  - .2 CSA A283, Qualification Code for Concrete Testing Laboratories.
- Add the following sentence 1.9:
  - 1.9 Site Conditions
    - .1 Placing concrete during rain or weather events that could damage concrete is prohibited.
    - .2 Protect newly placed concrete from rain or weather events in accordance with CSA A23.1/A23.2.
    - .3 Cold weather protection:
      - .1 Maintain protection equipment, in readiness on Site.
      - .2 Use such equipment when ambient temperature below 5°C, or when temperature may fall below 5°C before concrete cured.
      - .3 Placing concrete upon or against surface at temperature below 5°C is prohibited.
    - .4 Hot weather protection:
      - .1 Protect concrete from direct sunlight when ambient temperature above 27°C.
      - .2 Prevent forms of getting too hot before concrete placed. Apply accepted methods of cooling not to affect concrete adversely.
    - .5 Protect from drying.
- Sentence 2.1.3, delete word “A23.1” and replace with “A23.1/A23.2”.

**Section 06 20 00 – Finish Carpentry (NMS Update)**

- Delete sentence 1.1.6 and replace with “Section 06 41 93 – Cabinet and Miscellaneous Hardware”.

**Section 06 40 00 – Architectural Woodwork (NMS Update)**

- Delete sentence 1.1.8 and replace with “Section 06 41 93 – Cabinet and Miscellaneous Hardware”.
- Sentence 2.2.5.1, delete words “Section 08 70 05” and replace with “Section 06 41 93”.

**Section 07 52 00 – Modified Bituminous Membrane Roofing (NMS Update)**

- Delete sentence 1.1.5 and replace with “Section 01 74 00 – Cleaning”.
- Sentence 3.8.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 07 81 00 – Applied Fireproofing (NMS Update)**

- Sentence 3.5.1, delete word “09 91 23.01” and replace with “09 01 90.63”.

**Section 07 84 00 – Firestopping (NMS Update)**

- Sentence 3.5.1, delete word “09 91 23.01” and replace with “09 01 90.63”.

**Section 08 11 00 – Metal Doors and Frames (NMS Update)**

- Sentence 1.1.6, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 2.5.9, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 3.5.1, delete word “08 80 50” and replace with “08 80 00”.

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

- Sentence 2.1.10, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 3.3.1, delete word “08 80 50” and replace with “08 80 00”.

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

- Sentence 1.1.6, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 2.3.1, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 3.2.5, delete word “08 80 50” and replace with “08 80 00”.

**Section 08 36 13.02 – Sectional Metal Doors** *(NMS/DTW Update)*

- Renumber section to “08 36 13.16”.
- Sentence 1.1.5, delete word “08 80 50” and replace with “08 80 00”.
- Delete sentence 1.3.1.3 and replace with the following:  
.3 Design door assembly to withstand minimum 10,000 cycles per annum.

**Section 08 44 13 – Glazed Aluminum Curtain Walls** *(NMS Update)*

- Sentence 1.1.13, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 2.2.3, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 3.3.1, delete word “08 80 50” and replace with “08 80 00”.

**Section 08 51 13 – Aluminum Windows** *(NMS Update)*

- Sentence 1.1.7, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 2.1.5, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 2.6.1, delete word “08 80 50” and replace with “08 80 00”.

**Section 08 53 13 – Vinyl Windows** *(NMS Update)*

- Sentence 1.1.7, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 2.1.5, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 2.5.1, delete word “08 80 50” and replace with “08 80 00”.

**Section 08 54 13 – Fibreglass Windows** *(NMS Update)*

- Sentence 1.1.7, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 2.1.5, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 2.5.1, delete word “08 80 50” and replace with “08 80 00”.

**Section 08 62 10 – Plastic Skylights** *(NMS Update)*

- Renumber section to “08 62 00”.

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

- Sentence 1.2.9, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 2.2.4, delete word “08 80 50” and replace with “08 80 00”.
- Sentence 3.2.10, delete word “08 80 50” and replace with “08 80 00”.

**Section 08 70 05 – Cabinet and Miscellaneous Hardware (NMS Update)**

- Renumber section to “06 41 93”.

**Section 08 80 50 – Glazing (NMS Update)**

- Renumber section to “08 80 00”.

**Section 09 65 20 – Safety Sheet Flooring (NMS Update)**

- Delete sentence 1.1.2 and replace with “Section 01 74 00 – Cleaning”.

**Section 09 68 13 – Tile Carpeting (NMS Update)**

- Delete sentence 1.2.1 and replace with the following:
  - .1 American Association of Textile Chemists and Colourists (AATCC)
    - .1 AATCC Test Method 16.1, Colorfastness to Light: Outdoor.
    - .2 AATCC Test Method 16.2, Colorfastness to Light: Carbon-Arc.
    - .3 AATCC Test Method 16.3, Colorfastness to Light: Xenon-Arc
    - .4 AATCC Test Method 23, Colorfastness to Burn Gas Fumes.
    - .5 AATCC Test Method 129, Colorfastness to Ozone in the Atmosphere Under High Humidities.
    - .6 AATCC Test Method 134, Electrostatic Propensity of Carpets.
    - .7 AATCC Test Method 171, Carpets: Cleaning of; Hot Water Extraction Method.
    - .8 AATCC Test Method 175, Stain Resistance: Pile Floor Coverings.
    - .9 AATCC Test Method 189, Fluorine Content of Carpet Fibers.
- Delete sentence 1.2.4.1 and replace with the following:
  - .1 CRI 104 Standard for Installation of Commercial Carpet.
- Add the following sentence 1.2.5:

.5 Environmental Choice Program (ECP)

.1 CCD-152, Flooring Products, Commercial Non-modular Textile Flooring.

- Add the following sentence 1.2.6:

.6 Health Canada

.1 C.R.C., c.923, Hazardous Products Act - Carpet Regulations, Part II of Schedule 1.

- Renumber 1.2.5 to 1.2.7.
- Renumber 1.2.6 to 1.2.8.

**Section 09 91 13.01 – Exterior Re-Painting** (NMS Update)

- Renumber section to “09 01 90.62”.
- Sentence 1.2.8, delete word “09 91 23.01” and replace with “09 01 90.63”.

**Section 09 91 23.01 – Interior Re-Painting** (NMS Update)

- Renumber section to “09 01 90.63”.
- Sentence 1.2.7, delete word “09 91 13.01” and replace with “09 01 90.62”.

**Section 10 14 43 – Photoluminescent Exit Signs** (NMS Update)

- Renumber section to “26 53 13”; change name of section to “Photoluminescent Signage”.
- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 10 22 26.13 – Accordion Folding Partitions** (NMS Update)

- Renumber section to “10 22 33”.

**Section 10 22 26.33 – Folding Panel Partitions** (NMS Update)

- Renumber section to “10 22 39”.

**Section 10 28 10 – Toilet and Bath Accessories** (NMS/DTW Update)

- Renumber section to “10 28 00”.

- Sentence 1.1.4, delete word “08 80 50” and replace with “08 80 00”.
- Delete sentence 2.2.4 and replace with the following:
  - .4 Soap dispenser: liquid pushup-type corrosion-resistant black ABS valve with stainless steel spring, translucent polyethylene 1.0 L capacity tank, vandal-resistant chrome plated ABS bracket and collar, surface mounted.
- Sentence 3.1.4, delete word “08 80 50” and replace with “08 80 00”.

**Section 10 56 26.13 – Manual Mobile Shelving Storage (NMS Update)**

- Sentence 1.13.1, delete words “Section 01 91 41 - Commissioning (Cx) – Training” and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.

**Section 12 35 53.13 – Steel Laboratory Casework (NMS Update)**

- Rename section to “Metal Laboratory Casework”.

**Section 21 05 05 – Common Work Results for Fire Suppression (NMS Update)**

- Renumber section to “21 05 00”.
- Delete sentence 1.1.5 and replace with the following:
  - .5 Section 21 12 00 – Fire-Suppression Standpipes and Hose Assemblies.

**Section 21 12 01 – Standpipe and Hose Assembly (NMS Update)**

- Renumber section to “21 12 00”; rename section to “Fire-Suppression Standpipes and Hose Assemblies”.
- Sentence 1.2.6, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 3.2.5, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 3.5.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 21 13 13 – Wet pipe Sprinkler Systems (NMS Update)**

- Delete sentence 1.2.3 and replace with the following:
  - .3 Section 21 12 00 – Fire-Suppression Standpipes and Hose Assemblies.



- Sentence 1.2.5, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 2.10.1, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 3.9.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Delete sentence 1.1.3 and replace with the following:  
.3 Section 21 12 00 – Fire-Suppression Standpipes and Hose Assemblies.
- Sentence 1.1.5, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 2.15.1, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 21 23 00 – Wet Chemical Fire Extinguishing Systems (NMS Update)**

- Sentence 1.6.1, delete words “Section 01 91 41 - Commissioning (Cx) – Training” and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.

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

- Delete sentence 1.2.2 and replace with the following:  
.2 Section 21 12 00 – Fire-Suppression Standpipes and Hose Assemblies.
- Sentence 1.2.6, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.7.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 2.2.8.9, delete word “23 05 19.01” and replace with “23 05 19.13”.

**Section 22 13 17 – Drainage Waste and Vent Piping – Cast Iron, Copper and Stainless Steel** (NMS Update)

- Renumber section to “22 13 16.13”; change name of section to “Sanitary Waste and Vent Piping – Cast Iron and Copper”.

**Section 22 13 18 – Drainage Waste and Vent Piping – Plastic** (NMS Update)

- Renumber section to “22 13 16.16”, change name of section to “Sanitary Waste and Vent Piping – Plastic”.

**Section 22 13 19 – Drainage Waste and Vent Piping – Corrosion Resistant** (NMS Update)

- Sentence 2.1.1.2, delete word “22 42 01” and replace with “22 05 15”.

**Section 22 30 05 – Domestic Water Heaters** (NMS Update)

- Renumber section to “22 30 00”; change name of section to “Electric Domestic Water Heaters”.
- Sentence 1.1.5, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Delete sentence 1.6.1 and replace with the following:
  - .1 For the Work of the Section, provide a warranty of five (5) years from the date of Substantial Completion.
- Sentence 2.5.8.9.1, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 2.7.2, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 2.7.3, delete word “23 05 19.01” and replace with “23 05 19.13”.

**Section 22 42 01 – Plumbing Specialties and Accessories** (NMS/DTW Request)

- Renumber section to “22 05 15”.
- Sentence 2.17.3, delete words “galvanized steel” and replace with “stainless steel”.
- Sentence 2.20.9, delete words “galvanized steel” and replace with “stainless steel”.

**Section 22 42 03 – Commercial Washroom Fixtures** (NMS Update)

- Renumber section to “22 42 13”; change name of section to “Commercial Water Closets, Urinals and Bidets”.

**Section 22 42 20 – Commercial Showers and Bathtubs** (NMS Update)

- Renumber section to “22 42 19”; change name of section to “Commercial Bathtubs and Showers”.

**Section 23 05 05 – Installation of Pipework** (NMS Update)

- Delete sentence 1.1.1 and replace with “Section 01 74 00 – Cleaning”.
- Sentence 3.10.2, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 05 19.01 – Thermometers and Pressure Gauges – Piping Systems** (NMS Update)

- Renumber section to “23 05 19.13”.

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

- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 05 53.01 – Mechanical Identification** (NMS Update)

- Sentence 3.7.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 05 93 – Testing, Adjusting and Balancing for HVAC** (NMS Update)

- Sentence 1.22.4.1, delete word “Systems”.
- Sentence 1.22.4.2, delete word “Systems”.

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

- Sentence 3.7.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 08 01 – Performance Verification Mechanical Piping Systems** (NMS Update)

- Sentence 1.1.2, delete word “22 42 01” and replace with “22 05 15”.
- Sentence 1.12.5, delete word “22 42 01” and replace with “22 05 15”.
- Sentence 1.12.6.1, delete word “22 42 01” and replace with “22 05 15”.

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

- Sentence 1.2.3, delete word “Systems”.
- Sentence 3.2.1.6, delete words “HVAC Water Treatment Systems” and replace with “HVAC Water Treatment”.
- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.7.6, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.6.2, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 21 14 – Hydronic Specialties** (NMS Update)

- Renumber section to “23 21 16”, change name of section to “Steam and Condensate Heating Piping Specialties”.

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

- Sentence 3.7.1.1.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Rename section to “HVAC Water Treatment”.

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

- Delete sentence 1.2.8, and replace with the following:  
.8 Section 23 40 00 – HVAC Air Cleaning Devices.
- Delete sentence 2.11.7, and replace with the following:  
.7 Grease filters: to Section 23 40 00 – HVAC Air Cleaning Devices.

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

- Sentence 3.5.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.2.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 34 24 – Domestic Fans** (NMS Update)

- Renumber section to “23 34 00.13”.
- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 34 25 – Packaged Roof and Wall Exhausters (NMS Update)**

- Renumber section to “23 34 23.13”.
- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 36 00 – Air terminal Units (NMS Update)**

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 38 13 – Commercial Kitchen Hoods (NMS Update)**

- Delete sentence 1.1.5, and replace with the following  
.5 Section 23 40 00 – HVAC Air Cleaning Devices.
- Sentence 1.8.1, delete words “Section 01 91 41 - Commissioning (Cx) – Training” and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.

**Section 23 44 00 – HVAC Air Filtration (NMS Update)**

- Renumber section to “23 40 00”; change name of section to “HVAC Air Cleaning Devices”.
- Sentence 1.2.4, delete word “23 73 10” and replace with “23 73 00.13”.
- Sentence 1.2.5, delete word “23 73 11” and replace with “23 73 00.16”.
- Sentence 3.7.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 51 00 – Breaching, Chimneys and Stacks (NMS Update)**

- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 52 00 – Heating Boilers (NMS Update)**

- Sentence 1.2.5, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 2.5.2.2, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 2.5.2.3, delete word “23 05 19.01” and replace with “23 05 19.13”.
- Sentence 2.5.3.2, delete word “23 05 19.01” and replace with “23 05 19.13”.

**Section 23 55 01 – Duct Heaters (NMS Update)**

- Renumber section to “23 55 13”; change name of section to “Fuel-Fired Duct Heaters”.

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

- Sentence 3.5.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 72 00 – Air-to-Air Energy Recovery Equipment (NMS Update)**

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.
- Sentence 1.7.1, delete words “Section 01 91 41 - Commissioning (Cx) – Training” and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.

**Section 23 73 10 – Air Handling – Built Up (NMS Update)**

- Renumber section to “23 73 00.13”.
- Delete sentence 1.1.12, and replace with the following:  
.12 Section 23 40 00 – HVAC Air Cleaning Devices.
- Sentence 1.7.1, delete words “Section 01 91 41 - Commissioning (Cx) – Training” and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.
- Delete sentence 2.10.2, and replace with the following:  
.2 Filters: to 23 40 00 – HVAC Air Cleaning Devices.

**Section 23 73 11 – Air Handling Units – Packaged (NMS Update)**

- Renumber section to “23 73 00.16”.

- Delete sentence 1.1.7, and replace with the following:  
    .7      Section 23 40 00 – HVAC Air Cleaning Devices.

- Delete sentence 2.7.3, and replace with the following:  
    .3      Filters: to 23 40 00 – HVAC Air Cleaning Devices.

**Section 23 74 00 – Packaged Outdoor HVAC Equipment** *(NMS Update)*

- Sentence 3.5.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 81 40 – Water to Air Source Unitary Heat Pumps** *(NMS Update)*

- Sentence 1.5.1, delete words “Section 01 91 41 - Commissioning (Cx) – Training” and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.

**Section 23 81 46 – water to Water Source Unitary Heat Pumps** *(NMS Update)*

- Sentence 1.5.1, delete words “Section 01 91 41 - Commissioning (Cx) – Training” and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.

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

- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 82 20 – Forced Air Heaters** *(NMS Update)*

- Renumber section to “23 82 00.13”.

**Section 23 82 21 – Incremental Heating and Cooling Units** *(NMS Update)*

- Renumber section to “23 82 00.16”.

**Section 23 82 33.01 – Residential Convectors** *(NMS Update)*

- Renumber section to “23 82 33.13”.

**Section 23 82 33.02 – Commercial Convectors** *(NMS Update)*

- Renumber section to “23 82 33.16”.



**Section 23 82 33.03 – Cabinet Convector Heaters** (NMS Update)

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 82 39.01 – Unit Heaters – Electric** (NMS Update)

- Renumber section to “23 82 39.23”.

**Section 23 83 00.01 – Radiant Heaters – Electric Infrared** (NMS Update)

- Renumber section to “23 83 00.13”.

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

- Sentence 3.3.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 83 13.01 – Radiant Heating Electric Cables - Snow Melting** (NMS Update)

- Renumber section to “23 83 13.19”.
- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 83 13.02 – Radiant Heating Electric Cables – Floor Warming** (NMS Update)

- Renumber section to “23 83 13.23”.
- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 23 84 13 – Humidifiers** (NMS Update)

- Sentence 3.5.1, delete word “01 74 11” and replace with “01 74 00”.

---

**Section 25 01 11 – EMCS: Start-Up, Verification and Commissioning** (NMS Update)

- Sentence 1.2.5, delete words “Section 01 91 41 - Commissioning (Cx) – Training” and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.

**Section 25 05 60 – EMCS: Field installation** (NMS Update)

- Delete sentence 1.1.6 and replace with the following:  
  
.6 Section 22 13 16.13 – Sanitary Waste and Vent Piping – Cast Iron and Copper.
- Delete sentence 2.1.2, and replace with the following:  
  
.2 Sanitary, storm water: refer to Section 22 13 16.13 – Sanitary Waste and Vent Piping – Cast Iron and Copper, and Section 22 13 16.16 – Sanitary Waste and Vent Piping – Plastic.
- Sentence 3.2.2, delete words “22 13 17 - Drainage Waste and Vent Piping – Cast Iron and Copper” and replace with “22 13 16.13 – Sanitary Waste and Vent Piping – Cast Iron and Copper”

**Section 26 05 34 – Conduits, Conduit Fastenings and Conduit Fittings** (NMS Update)

- Sentence 3.8.1, delete word “01 74 11” and replace with “01 74 00”.

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

- Delete sentence 1.1.2 and replace with “Section 01 74 00 – Cleaning”.
- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 26 33 53 – Uninterruptible Power Systems Static (UPS)** (NMS Update)

- Rename section to “Static Uninterruptible Power Supply”.

**Section 26 52 00 – Emergency Lighting** (NMS Update)

- Renumber section to “26 52 13.13”.

**Section 26 53 00 – Exit Signs** (NMS Update)

- Delete sentence 1.1.2 and replace with “Section 01 74 00 – Cleaning”.

- Sentence 2.2.14, delete word “26 52 00” and replace with “26 52 13.13”.
- Sentence 3.2.1, delete word “01 74 11” and replace with “01 74 00”.

**Section 27 54 01 – Sustainability Management System Public Interface (Windows on the World) (NMS Update)**

- Sentence 1.6.1, delete words “Section 01 91 41 - Commissioning (Cx) – Training” and replace with “Section 01 79 00.13 – Demonstration and Training for Building Commissioning”.

**Section 31 05 16 – Aggregate Materials (NMS Update)**

- Rename section to “Aggregates for Earthwork”.

**Section 31 23 33.01 – Excavating, Trenching and Backfilling (NMS Update)**

- Sentence 1.1.5, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 2.1.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 32 11 16.01 – Granular Sub-Base (NMS Update)**

- Sentence 1.1.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 2.1.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 32 11 23 – Aggregate Base Courses (NMS Update)**

- Sentence 1.1.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 1.3.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 2.1.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 32 12 16.02 – Asphalt Paving for Building Sites (NMS Update)**

- Sentence 1.2.3, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

- Sentence 2.1.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 2.1.2.5, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 33 05 16 – Maintenance Holes and Catch Basin Structures (NMS Update)**

- Sentence 1.2.4, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 2.1.13, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 33 11 16 – Site Water Utility Distribution Piping (NMS Update)**

- Renumber section to “33 14 16”.
- Sentence 2.4.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 33 21 00 – Water Supply Wells (NMS Update)**

- Renumber section to “33 11 00”; change name of section to “Groundwater Sources”.

**Section 33 31 13 – Public Sanitary Utility Sewerage Piping (NMS Update)**

- Renumber section to “33 31 11”; change name of section to “Public Sanitary Sewerage Gravity Piping”.
- Sentence 1.1.5, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 2.4.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 33 36 00 – Wastewater Utility Storage Tanks (NMS Update)**

- Sentence 1.2.3, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 2.6.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 33 36 33 – Utility Drainage Field (NMS Update)**

- Sentence 1.2.3, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 2.1.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 33 41 00 – Storm Utility Drainage Piping (NMS Update)**

- Sentence 1.2.3, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 2.3.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 33 42 13 – Pipe Culverts (NMS Update)**

- Sentence 1.2.4, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.
- Sentence 2.2.1, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 33 46 13.01 – Foundation and Underslab Drainage (NMS Update)**

- Sentence 1.2.2, delete words “Aggregate Materials” and replace with “Aggregates for Earthwork”.

**Section 33 71 73.02 – underground Electrical Service (NMS Update)**

- Sentence 3.4.1, delete word “01 74 11” and replace with “01 74 00”.