

PART 1 GENERAL

1.1 PRIORITIES

- .1 For Work carried out for the Federal government, the sections of Division 1 have priority over all other technical divisions of the other specification sections.

1.2 REFERENCES

- .1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations
- .2 Association canadienne de normalisation (CSA).
- .3 Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Data Safety Sheets (MDSS).
- .4 Province of Quebec
 - .1 An Act Respecting Occupational Health and Safety, R.S.Q., c.S-2.1 (current edition) - Updated November 1, 2014.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit site-specific Health and Safety Plan: Within 7 days after date of Notice to Proceed and prior to commencement of Work. Health and Safety Plan must include:
 - .1 Results of site specific safety hazard assessment.
 - .2 Results of safety and health risk or hazard analysis for site tasks and operation found in work plan.
- .3 Submit 1 copy, every two weeks, of Contractor's authorized representative's work site health and safety inspection reports to Departmental Representative.
- .4 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .5 Submit copies of incident and accident reports.
- .6 Departmental Representative will review Contractor's site-specific Health and Safety Plan and provide comments to Contractor within 7 days after receipt of plan. Revise plan as appropriate and resubmit plan to Departmental Representative within 7 days after receipt of comments from Departmental Representative.
- .7 Departmental Representative's review of Contractor's final Health and Safety plan should not be construed as approval and does not reduce the Contractor's overall responsibility for construction Health and Safety.
- .8 Medical Surveillance: where prescribed by legislation, regulation or safety program, submit certification of medical surveillance for site personnel prior to commencement of Work, and submit additional certifications for any new site personnel to Departmental Representative.
- .9 On-site Contingency and Emergency Response Plan: address standard operating procedures to be implemented during emergency situations.

1.4 FILING OF NOTICE

- .1 File Notice of Project with Provincial authorities prior to beginning of Work.
- .2 Contractor shall be responsible and assume the Principal Contractor role for each work zone location and not the entire complex. Contractor shall provide a written acknowledgement of this responsibility with 3 weeks of contract award. Contractor to submit written acknowledgement to CNESST along with Ouverture de Chantier Notice.
- .3 Work shall be done in designated work zone locations.
- .4 Contractor shall agree to install proper site separation and identification in order to maintain time and space at all times throughout life of project.

1.5 SAFETY ASSESSMENT

- .1 Perform site specific safety hazard assessment related to project.

1.6 MEETINGS

- .1 Schedule and administer Health and Safety meeting with Departmental Representative prior to commencement of Work.

1.7 REGULATORY REQUIREMENTS

- .1 Draw up site-specific health and safety plan based on prior evaluation of risks and hazards prior to commencing Work. Put plan into application and ensure full compliance until end of work activities. The health and safety plan must take project particularities into account.
- .2 The Departmental Representative may submit concerns in writing regarding inconsistencies in the plan and require revised plan eliminating inconsistencies or identifying corrective measures to be taken.

1.8 RESPONSABILITY

- .1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .2 Contractor will be responsible and assume the role Constructor as described in the Ontario Occupational Health and Safety Act and Regulations for Construction Projects.
- .3 Contractor shall be the Principal Contractor as described in the Quebec Act Respecting Health and Safety code for the Construction for only their scope and areas of work as defined and described this project specification.
- .4 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

1.9 COMPLIANCE REQUIREMENTS

- .1 Comply with R.S.Q., c. S-2.1, an Act respecting Health and Safety, and c. S-2.1, r.4 Safety Code for the Construction Industry.
- .2 Comply with Canada Labour Code, Canada Occupational Safety and Health Regulations.

1.10 UNFORSEEN HAZARDS

- .1 When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Quebec and advise Departmental Representative verbally and in writing.
- .2 When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, advise Health and Safety co-ordinator and follow procedures in accordance with Acts and Regulations of Quebec and advise Departmental Representative verbally and in writing.

1.11 HEALTH AND SAFETY CO-ORDINATOR

- .1 Employ and assign to Work, competent and authorized representative as Health and Safety Co-ordinator. Health and Safety Co-ordinator must:
 - .1 Have site-related working experience.
 - .2 Have working knowledge of occupational safety and health regulations.
 - .3 Be responsible for completing Contractor's Health and Safety Training Sessions and ensuring that personnel not successfully completing required training are not permitted to enter site to perform Work.
 - .4 Be responsible for implementing, enforcing daily and monitoring site-specific Contractor's Health and Safety Plan.
 - .5 Be on site during execution of Work.

1.12 POSTING OF DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of Quebec, and in consultation with Departmental Representative.

1.13 CORRECTION OF NON-COMPLIANCE

- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
- .2 Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Departmental Representative may stop Work if non-compliance of health and safety regulations is not corrected.

1.14 BLASTING

- .1 Blasting or other use of explosives is not permitted.

1.15 WORK STOPPAGE

- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.

1.16 LOCK-OUT PROCEDURES

- .1 Procedure:
 - .1 The Contractor must draft and apply a procedure for locking out all equipment and systems that are operated or powered. The procedure must comply with the guidelines outlined in the document entitled "Le cadenassage" published by the Association paritaire en santé et sécurité du secteur de la construction (ASP Construction), which must be included in the prevention program.
- .2 Training:
 - .1 Supervisors and personnel with supervisory responsibilities must have taken the course entitled "Les techniques de cadenassage" provided by ASP Construction.
- .3 Reference:

ASP Construction
7905 boul. Louis-H.-Lafontaine, Suite 301
Anjou Qc H1K 4E4
Tel. : (514) 355-6190
1-800-361-6190
<http://www.asp-construction.org>

1.17 DIGGING

- .1 Exploratory works: digging, drilling, core sampling, etc. are covered by the Safety Code for the Construction Industry. Consequently, the Contractor must take all necessary precautions to prevent accidents.
- .2 The Contractor must assume all responsibilities assigned to the principal contractor as set forth under the Safety Code for the Construction Industry and act as site supervisor. Prior to commencement of Work, the Contractor must:
 - .1 Provide the Consultant with a work safety plan and mechanical inspection certificate for each piece of equipment used on the Work site.
 - .2 Ensure workers have received training and information needed to carry out Work safely and all tools and protective gear are available and used in accordance with the applicable standards, laws and regulations.
 - .3 Comply at all times with the Act Respecting Occupational Health and Safety and the Safety Code for the Construction Industry.
 - .4 Advise all workers that they are entitled to turn down work involving a health and/or safety hazard.
 - .5 Mark out and barricade work zone and control access.
- .3 In the event of an accident, take all necessary measures including halting work to ensure the health and safety of the workers and public and promptly contact the Departmental Representative.

1.18 SPECIFIC CONDITIONS FOR WORK AT HEIGHT

- .1 The Contractor must provide protection for workers working at heights greater than 2.4 metres.

1.18 SPECIFIC CONDITIONS FOR WORK AT HEIGHT (CONT'D)

- .2 Plan and organize Work to minimize hazards at source and provide general protection for the purpose of minimizing recourse to equipment for individual protection. Workers must use safety harness compliant with CAN - CSA- Z-259.10 - M90 wherever individual protection is required. Safety harness alone must not be used as protection against falls.
- .3 Safety harness must worn on all lifting platforms with telescopic, articulated and rotating booms.
- .4 Mark off danger zones wherever work at height equipment is used.

1.19 HOT WORK

- .1 Hot work means work involving open flame or that may produce an open flame such as riveting, welding, cutting, grinding, burning or heating.

The Contractor must obtain a PWGSC (standard form FEL 102) hot work permit from Departmental Representative prior to commencing hot work.

Construction site Work must be carried out in compliance with Building Construction Operations standard FCC No. 301 – June 1982. The standard is available at:

http://info.load-otea.hrdc-drhc.gc.ca/prevention_incendies/normes/normes.htm

A functional portable fire extinguisher must be available and easily accessible within 5 metres of all flame or source of sparks or intense heat.

A person must be designated to conduct a fire watch for a period of 30 minutes following the end of the work shift. The designated person must co-sign a permit and submit to the site supervisor (or designated person) at the end of the 30-minute period.

Storage of propane cylinders must comply with *CAN/CSA-B149.2-F00 – Propane Storage and Handling Code*, in addition to complying with specific conditions set forth in this document. Cylinders must be stored outdoors in a safe area preventing unauthorized handling, in a storage compartment designed for this purpose, solid, vertical and padlocked at all times in an area where there is no vehicle circulation unless protected with suitable barriers.

All cylinders used or stored on site must be equipped with device to protect nozzle.

It is forbidden to fill cylinders on site unless a procedure compliant with *CAN/CSA B149.2* has been approved and authorized by the Departmental Representative.

- .2 Welding and cutting

Note: The following conditions in addition to the above must be met for welding and cutting operations.

Welding and cutting work must be carried out in compliance with sections 3.13 – Compressed gas supply and 3.14 – Welding and cutting of the Safety Code for the Construction Industry, *S-2.1, r.6*.

Construction site work must be carried in compliance with FCC No. 302, Standard for Welding and Cutting, May 1979. The standard is available at: http://info.load-otea.hrdc-drhc.gc.ca/prevention_incendies/normes/302.shtml.

1.19 HOT WORK (CONT'D)

Welding and cutting equipment represent an extremely hazardous fire risk on construction sites. The following precautions must be taken:

- .1 Store compressed gas cylinders on fire resistant surface in a well ventilated area.
- .2 Store all oxygen cylinders at a minimum distance of 6 metres from flammable gas (acetylene) or combustible such as oil or grease unless separated by a non-combustible partition as specified in section 3.13.4. of the Safety Code for the Construction Industry.
- .3 Use fire resistant tarps when welding work is superimposed or may cause sparks.
- .4 Store cylinders away from heat sources.
- .5 Do not place acetylene in contact with metals such as silver, mercury, copper, and brass alloys with more than 65% copper content to prevent risk of explosion.
- .6 Ensure arc welding equipment is suitably powered and grounded.
- .7 Ensure conductor wires of electric welding equipment are not damaged.
- .8 Place welding material on a flat surface protected from weather.
- .9 Remove or protect combustible materials that may be near the welding station.
- .10 Welding or cutting sealed containers is not allowed.
- .11 Provide for protective measures when welding or cutting is carried out near conduits, reservoirs or other receptacles containing flammable materials.
- .12 Welding or cutting with an open flame on a container containing a flammable or explosive substance unless:
 - .1 Air samples have been taken indicating that Work may be safely carried out; or
 - .2 Measures have been taken to ensure work safety.

1.20 LIFTING

- .1 Lifting devices must be positioned to avoid moving loads over workers, occupants or the general public.
- .2 The Contractor must submit to Departmental Representative a work procedure signed and sealed by an Engineer, including the position of the lifting device, a sketch of the load trajectory, length of the boom and a lifting plan for loads lifted across occupied buildings. The Departmental Representative if deemed necessary may require Work to be carried out in the evenings or weekends.
- .3 All equipment must be inspected prior to delivery to the Work site and a certificate attesting conformity forwarded by the Contractor to the Departmental Representative.
- .4 The Contractor must submit the manufacturer's recommended procedure or a procedure signed and sealed by an Engineer for hoist installations. The procedure must describe maximum allowed loads, the number, weight and location of counterweights and elements that may affect capacity and stability of the equipment.
- .5 The mechanical inspection certificate, annual inspection certificate and logbook must be kept onboard cranes and crane trucks.
- .6 Lifting zones must be barricaded to prevent entry by unauthorized people.

1.20 LIFTING (CONT'D)

- .7 The Contractor must obtain all permits and pay all costs involved in the temporary restriction of public circulation, if required under the previous paragraph or for any reason involving the safety of workers, occupants or the public.
- .8 The Contractor must meticulously inspect all slings and other lifting accessories and dispose of damaged materials.
- .9 Compressed gas cylinders must be lifted using equipment designed specifically for this purpose.

1.21 LEAD-BASE PAINT REMOVAL

- .1 Prior to all work where workers are likely to handle materials containing lead-base paint or other substances containing lead, the Contractor must:
 - .1 Provide a written procedure for the work which respects all the requirements of the Code de sécurité pour les travaux *de construction* S-2.1, r- 4, (Safety code for the construction industry), as well as the requirements indicated in the document “*Guideline for Lead on Construction Projects*” published by the Ontario Ministry of Labour (http://www.labour.gov.on.ca/english/hs/pdf/gl_lead.pdf). If there is a discrepancy between the Québec regulation and the Ontario document, the most stringent requirement shall apply.
 - .2 Demonstrate that he has all the material and equipment required on hand to respect the procedure and for safely conducting the work.

PART 2 PRODUCT

2.1 NOT USED.

- .1 Not used.

PART 3 EXECUTION

3.1 NOT USED.

- .1 Not used.

END OF SECTION