

## **Part 1            General**

**GENERAL NOTE:** in this section the term “site” includes all the facilities located at the site where the work is taking place (construction site, buildings, access, infrastructure, parkings, wharves, approach, temporary work platform, etc.).

### **1.1            RELATED REQUIREMENTS**

- .1        Section 01 33 00 – Submittal procedures.

### **1.2            REFERENCES**

- .1        Province of Québec
  - .1        Loi sur la santé et la sécurité du travail L.R.Q., c. S-2.1 (Act respecting occupational health and safety).
  - .2        Code de sécurité pour les travaux de construction L.R.Q., c. S-2.1, r.4 (Safety code for the construction industry).
- .2        Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations (L.R.Q. c. S-2.1).
- .3        Canada Shipping Act, 2001 – Collision Regulations (C.R.C., ch. 1416).
- .4        Workplace Hazardous Materials Information System (WHMIS).
- .5        CAN/CSA-Z259.10-12 – Full body harnesses.
- .6        CAN/CGSB-65.7-2007 – Life Jackets.
- .7        CAN/CSA-Z275.2 – Occupational safety code for diving operations.

### **1.3            ACTION AND INFORMATIONAL SUBMITTALS**

- .1        Make submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2        Submit to Departmental Representative, and the CNESST the site-specific prevention program, as outlined in the article “GENERAL REQUIREMENTS”, at least 10 days prior to the start of work.
- .3        Departmental Representative will review Contractor’s site-specific prevention program and provide comments to Contractor within 10 days after receipt of the document. Revise plan as appropriate and resubmit to Departmental Representative within 5 days after receipt of comments from Departmental Representative. Departmental Representative reserves the right not to authorize the start of work on the construction site as long as the content of the prevention program is not satisfactory. The Contractor shall then update his prevention program and resubmit it to the Departmental Representative if the scope of work changes or if the working methods of the Contractor differ from his initial plans or for any other applicable new condition.
- .4        Departmental Representative’s review of Contractor’s site-specific prevention program should not be construed as approval of the program and does not reduce the Contractor’s overall responsibility for construction Health and Safety during the work.
- .5        Submit copies of Contractor’s authorized representative’s construction site health and safety inspection reports to Departmental Representative, but at least once a week.

- .6 Submit to Departmental Representative within 24 hours a copy of any inspection report, correction notice or recommendation issued by Federal, Provincial and Territorial health and safety inspectors.
- .7 Submit to Departmental Representative within 24 hours an investigation report for any accident involving injury and any incident exposing a potential hazard. The investigation report shall contain at least the following:
  - .1 Date, time and place of accident;
  - .2 Name of sub-contractor involved in the accident;
  - .3 Number of persons involved and condition of wounded;
  - .4 Witness Identification;
  - .5 Detailed description of tasks performed at the time of the accident;
  - .6 Equipment being used to accomplish the tasks performed at the time of the accident;
  - .7 Corrective measures taken immediately after the accident;
  - .8 Causes of the accident;
  - .9 Preventive measures that have been put in place to prevent a similar accident.
- .8 Submit to Departmental Representative WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 33 00 – Submittals, Contractor must also keep one copy of these documents on the construction site.
- .9 Medical Surveillance: where prescribed by legislation, regulation or prevention program, as diving work, submit certification of medical surveillance for construction site personnel prior to commencement of Work, and submit additional certifications for any new construction site personnel to Departmental Representative.
- .10 Submit to Departmental Representative an on-site Emergency Response Plan at the same time as the prevention program. The Emergency Response plan must contain the elements listed in the article “GENERAL REQUIREMENTS” of this section.
- .11 Submit to Departmental Representative copies of all training certificates required for the application of the prevention program, in particular (if applicable) for the following:
  - .1 First aid in the workplace and cardiopulmonary resuscitation;
  - .2 Diving works;
  - .3 Work in confined spaces (mandatory for all work in confined spaces);
  - .4 Lockout-tagout procedures (mandatory for all work requiring lockout);
  - .5 Safely operating forklift trucks (mandatory for all forklift usage);
  - .6 Safely operating elevating work platforms (mandatory for the use of all elevating platforms);
  - .7 Any other requirement of Regulations or the safety program.
  - .8 Wear and adjustment of personal protective equipment.
- .12 In addition, the certifications of the *Cours de santé et sécurité générale pour les chantiers de construction* (General Health and Safety Training for Construction Sites) shall be available on demand on the construction site.
- .13 Engineer's plans and certificates of compliance: Contractor must submit to the Departmental Representative and to the *Commission des normes, de l'équité, de la santé*

*et de la sécurité du travail* (CNESST) a copy signed and sealed by engineer of all plans and certificates of compliance required pursuant to the *Code de sécurité pour les travaux de construction* (S-2.1, r.4) (Safety code for the construction industry) or by any other legislation or regulation or by any other clause in the specifications or in the contract. The Contractor must also submit a certificate of conformity signed by an engineer once the facility for which these plans were prepared has been completed and before a person uses the facility. A copy of these documents must be available on site at all times.

.1 Any modification to an equipment or part of machinery that has not been authorized in written by a manufacturer. At all times, those documents must be available on site.

.14 Submit all related work documents for diving.

#### **1.4 FILING OF NOTICE OF CONSTRUCTION SITE OPENING**

- .1 Notice of construction site opening shall be submitted to the CNESST before work begins. A copy of such notice and acknowledgment of receipt from the CNESST shall be submitted to Departmental Representative.
- .2 At the completion of all the work, a notice of construction site closing shall be submitted to the CNESST, with a copy to Departmental Representative.
- .3 The Contractor shall assume the role of being the Principal Contractor in the limits of the construction site and elsewhere where he must execute work within the framework of this project. The Contractor shall recognize the responsibility of being the Principal Contractor of the project and identify himself as such in the notice of the construction site opening he provides to the CNESST.
- .4 The Contractor shall accept to divide and identify the construction site adequately in order to define time and space at all times throughout the course of the project.

#### **1.5 HAZARD ASSESSMENT**

- .1 The contractor must perform construction 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.
- .2 Contractor's representative with decision power must attend any meetings at which construction site safety and health issues are to be discussed.
- .3 If it is anticipated that there will be 25 workers or more on the construction site at any given time, the Contractor shall set up a worksite committee and hold meetings as required by the *Code de sécurité pour les travaux de construction* (S-2.1, r. 4) (Safety code for the construction industry). A copy of the minutes of the meetings of the committee shall be provided to the Departmental Representative no later than 5 days after the committee meeting.

#### **1.7 REGULATORY REQUIREMENTS**

- .1 Do the Work in accordance with Section 01 41 00 - Regulatory Requirements.

- .2 Comply with all legislation, regulations and standards applicable to the construction site and its related activities.
- .3 Comply with specified standards and regulations to ensure safe operations on a site containing hazardous or toxic materials.
- .4 Always use the most recent version of the standards specified in the *Code de sécurité pour les travaux de construction* (S-2.1, r.4) (Safety code for the construction industry), notwithstanding the date indicated in that *Code*.

## **1.8 COMPLIANCE REQUIREMENTS**

- .1 Comply with the *Loi sur la santé et la sécurité du travail* (L.R.Q., c. S-2.1) (Act Respecting Occupational Health and Safety) and the *Code de sécurité pour les travaux de construction* (S-2.1, r. 4.) (Safety code for the construction industry) in addition to respecting all the requirements of this specification manual.

## **1.9 RESPONSIBILITIES**

- .1 The Contractor must acknowledge and assume all the tasks and obligations which customarily devolve upon a principal Contractor under the terms of the *Loi sur la santé et la sécurité du travail* (L.R.Q., ch. S-2.1) (Act Respecting Occupational Health and Safety) and the *Code de sécurité pour les travaux de construction* (S-2.1, r.4) (Safety code for the construction industry).
- .2 The Contractor must be responsible for health and safety of persons on construction site, safety of property on construction site and for the protection of persons adjacent to construction site and the environment to the extent that they may be affected by conduct of the work.
- .3 No matter the size or location of the construction site, the Contractor must clearly define the limits of the construction site by physical means and respect all specific regulation requirements applicable in this regard. The means chosen to define the limits of the construction site must be submitted to the Departmental Representative.
- .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 prevention Plan.

## **1.10 GENERAL REQUIREMENTS**

- .1 Before undertaking the work, prepare a site-specific prevention program based on the hazards identified according to the article "HAZARD ASSESSMENT" and the article "RISKS INHERENT TO THE WORKSITE" in this section. Apply this program in its totality from the start of the project until demobilization of all personnel from the construction site.
- .2 The prevention program shall take into consideration the specific characteristics of the project and cover all the work to be executed on the construction site.
- .3 The safety program must include at least the following:
  - .1 Company safety and health policy;
  - .2 Description of the stages of the work;
  - .3 Total costs, schedule and projected workforce curves;

- .4 Flow chart of safety and health responsibilities;
  - .5 Physical and material layout of the construction site;
  - .6 Risk assessment for each stage of the work, including preventive measures and the procedures for applying them;
  - .7 Identification of the preventive measures relative to the specific risks inherent to the worksite indicated in the article "RISKS INHERENT TO THE WORKSITE";
  - .8 Identification of preventive measures for health and safety of employees and / or public works site as indicated in the article "SPECIFIC REQUIREMENTS FOR THE HEALTH AND SAFETY OF OCCUPANTS AND PUBLIC";
  - .9 Training requirements;
  - .10 Procedures in case of accident/injury;
  - .11 Written commitment from all parties to comply with the safety program;
  - .12 Construction site inspection checklist based on the preventive measures;
  - .13 Emergency response plan which shall contain at least the following:
    - .1 Construction site evacuation procedures;
    - .2 Identification of resources (police, firefighters, ambulance services, etc.);
    - .3 Identification of persons in charge of the construction site;
    - .4 Identification of the first-aid attendants;
    - .5 Communication organizational chart (including the person responsible for the site and the Departmental Representative);
    - .6 Training required for those responsible for applying the plan;
    - .7 Any other information needed, in the light of the construction site's characteristics.
  - .14 If available the Departmental Representative will provide the evacuation procedures to the Contractor who shall then coordinate the construction site procedure with that of the site and submit it to the Departmental Representative.
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- .4 Departmental Representative may respond in writing, where deficiencies or concerns are noted in the prevention program and may request resubmission with correction of deficiencies or concerns.
  - .5 In addition to the prevention program, during the course of the work the Contractor shall elaborate and submit to the Departmental Representative specific written procedures for any work having a high risk factor of accident (for example: demolition procedures, specific installation procedures, hoisting plan, procedures for entering a confined space, procedures for interrupting electric power, etc.) or at the request of the Departmental Representative.
  - .6 The Contractor shall plan and organize work so as to eliminate the danger at source or ensure collective protection, thereby minimizing the use of personal protective equipment.
  - .7 Equipment, tools and protective gear which cannot be installed, fitted or used without compromising the health or safety of workers or the public shall be deemed inadequate for the work to be executed.

- .8 All mechanical equipment (for example, but not limited to: hoisting devices for persons or materials, excavators, concrete pumps, concrete saws) shall be inspected before delivery to the construction site. Before using any mechanical equipment, the Contractor shall obtain a certificate of compliance signed by a qualified mechanic dated less than a week prior to the arrival of each piece of equipment on the construction site; the certificate shall remain on the construction site and transmitted to the Departmental Representative on demand.
- .9 Ensure all inspections (daily, periodic, annual, etc.) for the hoisting devices for persons or materials required by the current standards are carried out and be able to provide a copy of the inspection certificates to the Departmental Representative on demand.
- .10 The Departmental Representative can at all times, if he suspects a malfunction or the risk of an accident, order the immediate stop of any piece of equipment and require an inspection by a specialist of his choice.
- .11 The Departmental Representative must be consulted for the location of storing gas cylinders and tanks on the construction site.

#### **1.11 RISKS INHERENT TO THE WORKSITE**

- .1 In addition to the risks related to the tasks to be carried out, personnel responsible for the execution of the work on the construction site will be exposed to the following risks inherent to the area where the work will be executed.
- .2 At the worksite there is in particular the presence of the following:
  - .1 Contaminated soils.
  - .2 Overhead power lines.
  - .3 Underground services (electric, gas, vapour, water system, etc.).
  - .4 Unstable structures (wharf).
  - .5 Body of water close by.
  - .6 Floating and ground equipments.
  - .7 Diving works.
  - .8 Varing water depth up to ten meters below the chart datum.
  - .9 Large variation in water level due to tides and storm surges.
  - .10 The climatic conditions (temperature, wind and precipitation) can be very difficult, just as the conditions of waves and current. The site may be subject to a significant presence of floating ice during the winter.
  - .11 Manipulation of stone and dolos of large caliber.
- .3 The Contractor shall process to a risk assessment of the site to validate this information and see if other risks are present on the site. He must include in its prevention program all risks that have been identified.

#### **1.12 SPECIFIC REQUIREMENTS FOR THE HEALTH AND SAFETY OF OCCUPANTS AND PUBLIC**

- .1 The worksite is occupied by employees and/or the public during the following work. The Contractor shall consider the following specific requirements for the protection of employees and / or the public:

- .1 Access roads for adjacent owners.
- .2 Of the construction site.
- .2 These requirements must be included in the Contractor's site-specific safety plan as well as any other measures provided by the Contractor to protect the health and safety of employees and / or the public on the site.

### **1.13 UNFORESEEN HAZARDS**

- .1 Whenever a source of danger not defined in the specifications or identified in the preliminary construction site inspection arises as a result of or in the course of the work, the Contractor must immediately suspend work, notify the person responsible for health and safety on the construction site, take appropriate temporary measures to protect the workers and the public and notify Departmental Representative, both verbally and in writing. Then the Contractor must do the necessary modifications to the prevention program or apply the security measures required in order to resume work.

### **1.14 PERSON IN CHARGE OF HEALTH AND SAFETY**

- .1 If the construction site meets the requirements of article 2.5.3 of the *Code de la sécurité pour les travaux de construction* (S-2.1, r.4) (Safety code for the construction industry), the Contractor needs to hire a competent person authorized as a safety officer and appoint this person full time from the beginning of the work. This person's tasks shall solely be dedicated to the management of health and safety on the construction site. This safety officer must have the following qualifications:
  - .1 Have a safety officer certificate issued by the CNESST;
  - .2 Have site-related working experience specific to the activities associated with the present project;
  - .3 Have working knowledge of occupational health and safety regulations in the workplace;
  - .4 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 the construction site to perform work;
  - .5 Be responsible for implementing, enforcing in detail and monitoring site-specific Contractor's Health and prevention program;
  - .6 Be on construction site at all times during execution of work;
  - .7 Inspect the work and ensure compliance with all regulatory requirements and those indicated in the contract documents or the site-specific prevention program.
  - .8 Keep a daily log of actions taken and submitting a copy to Departmental Representative each week.
- .2 The safety officer's certificate shall be submitted to the Departmental Representative before the start of the work.
- .3 When the hiring of a safety officer is not required or if this person is hired by the Departmental Representative, the Contractor shall designate a competent person to supervise and take responsibility for health and safety, no matter the size of the construction site or how many workers are present at the workplace. This person shall be on construction site at all times and be able to take all necessary measures to ensure the health and safety of persons and property at or in the immediate vicinity of the

construction site and likely to be affected by any of the work. The Contractor shall submit the name of this person to the Departmental Representative before the start of work.

#### **1.15 POSTING OF DOCUMENTS**

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on construction site in accordance with Acts and Regulations of the Province, and in consultation with Departmental Representative.
- .2 At a minimum, the following information and documents must be posted in a location readily accessible to all workers:
  - .1 Notice of construction site opening;
  - .2 Identification of principal Contractor;
  - .3 Company OSH policy;
  - .4 Site-specific prevention program;
  - .5 Emergency plan;
  - .6 Minutes of worksite committee meetings;
  - .7 Names of worksite committee representatives;
  - .8 Names of the first-aid attendants;
  - .9 Action reports and correction notices issued by the CNESST.

#### **1.16 INSPECTION OF THE CONSTRUCTION SITE AND CORRECTION OF NON-COMPLIANCES**

- .1 Inspect the construction site and complete the construction site inspection checklist and submit it to the Departmental Representative in accordance with the article "ACTION AND INFORMATIONAL SUBMITTALS" in this section.
- .2 Immediately take all necessary measures to correct any situations deemed non-compliant during the inspections mentioned in the previous paragraph or noticed by the authorities having jurisdiction or the Departmental Representative or his agent.
- .3 Submit to Departmental Representative written confirmation of all measures taken to correct the situation in case of non-compliance in matters pertaining to health and safety.
- .4 The Contractor shall give the safety officer or, where there is no safety officer, the person assigned to safety and health responsibilities, full authority to order cessation and resuming of work as and when deemed necessary or desirable in the interests of safety and health. This person should always act so that the safety and health of the public and construction site workers and environmental protection take precedence over cost and scheduling considerations.
- .5 The Departmental Representative or his agent may order cessation of work if the Contractor does not make the corrections needed to conditions deemed non-compliant in matters pertaining to health and safety. Without limiting the scope of the preceding articles, the Departmental Representative may order cessation of work if, in his view, there is any hazard or threat to the safety or health of construction site personnel or the public or to the environment.



## **1.17 PREVENTION OF VIOLENCE**

Health and safety management of Public Works and Government Services Canada construction sites includes the implementation of measures designed to protect the psychological health of all persons who access the construction site where the work is taking place. Consequently, in addition to physical violence, verbal abuse, intimidation and harassment are not tolerated on the construction site. Any person who demonstrates such actions or behaviors will receive a warning and/or could be definitely expelled from the construction site by the Departmental Representative.

## **1.18 BLASTING**

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

## **1.19 USE OF PUBLIC ROADS**

- .1 Where it is necessary to encroach on a public road for operational reasons or to ensure the security of the workers, the occupants or the public (for example: the use of scaffolding, cranes, excavation work, etc.), the Contractor shall obtain at his own expense any authorizations and permits required by the competent authority.
- .2 The Contractor shall install at his own expense any signage, barricades or other devices needed to ensure the safety and security of the public and the Contractor's own facilities.

## **1.20 ELECTRICAL WORK**

- .1 Contractor shall ensure that all electrical work is executed by qualified employees in accordance with the provincial regulation respecting vocational training and qualification.
- .2 Contractor shall respect all requirements of standard CSA Z462 *Workplace Electrical Safety Standard*.

## **1.21 EXPOSURE TO SILICA**

- .1 Work in wet environment or use tools with the inflow of water in order to reduce dustiness, if not, collect dust at the source and retain it with a high-efficiency filters not to propagate dust in the environment.
- .2 Clean surfaces and tools with water, never with compressed air.
- .3 Sand and pickle surfaces by using an abrasive containing less than 1% of silica (also called amorphous silica).
- .4 Install shields or other containment device to prevent silica dust from migrating toward other workers or the public.
- .5 Wear individual respiratory and ocular protection equipment during all the operations that could generate silica dust in accordance with the requirements of the *Code de sécurité pour les travaux de construction, S-2.1, r.4* (Safety code for the construction industry).
- .6 Wear coveralls to prevent contamination outside the construction site.
- .7 Do not eat, drink, or smoke in a dusty environment
- .8 Wash the hands and the face before drinking, eating or smoking

## **1.22 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](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.

## **1.23 EXPOSURE TO ANIMAL’S FECAL DROPPINGS**

- .1 Prior to all work where workers are likely to come in contact with materials contaminated by animal’s fecal droppings, 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 “*Des fientes de pigeons dans votre lieu de travail: méfiez-vous*” (Pigeon droppings in your workplace: Beware” published by the CNESST ([http://www.csst.qc.ca/publications/100/Documents/DC100\\_1331\\_1web2.pdf](http://www.csst.qc.ca/publications/100/Documents/DC100_1331_1web2.pdf)).
  - .2 Demonstrate that he has all the material and equipment required on hand to respect the procedure and for safely conducting the work.

## **1.24 RESPIRATORY PROTECTION**

- .1 Contractor must ensure that all workers who must wear a respirator as part of their duties have received training for that purpose as well as fit testing of their respirator, in accordance with CSA Standard Z94.4 *Selection, use and care of respirators*. Submit the certificates of the fit testings to the Departmental Representative on demand.

## **1.25 FALL PROTECTION**

- .1 Plan and organize work so as to eliminate the risk of fall at the source or ensure collective protection, thereby minimizing the use of personal protective equipment. When personal fall protection is required, workers must use a safety harness that complies with CSA standard CAN/CSA Z-259.10 M90. A safety belt must not be used as fall protection.
- .2 Every person using an elevating platform (scissors, telescopic mast, articulated mast, rotative mast, etc.) must have a training regarding this equipment.
- .3 The use of a safety harness is mandatory for all elevating platforms with telescopic, articulate or rotative mast.
- .4 Define the limits of the danger zone around each elevating platform.
- .5 All openings in a floor or roof must be surrounded by a guardrail or provided with a cover fixed to the floor able to withstand the loads to which it could be exposed, regardless of the size of the opening and the height of the fall it represents.

- .6 Everyone who works within two metres from a fall hazard of three metres or more must use a safety harness in accordance with the requirements of the regulation, unless there is a guardrail or another device offering an equivalent safety.
- .7 Despite the requirements of the regulation, the Departmental Representative may require the installation of a guardrail or the use of a safety harness for specific situations presenting a risk of fall less than three metres.

## **1.26 LIFTING LOADS WITH CRANE OR BOOM TRUCK**

- .1 Unless specified otherwise, the Contractor must prepare a hoisting plan and submit it to the Departmental Representative for all lifting operations done with a crane or a boom truck at least 5 days before these lifting operations begin. The hoisting plan must contain at a minimum the information listed at the end of this article.
- .2 The hoisting plan must be signed and sealed by an engineer for the following lifting operations:
  - .1 Lifting of concrete panels;
  - .2 Lifting large dimensions or very heavy loads;
  - .3 All other lifting operation, in accordance with the requirements of the Departmental Representative.
- .3 In addition to the above requirements, the Contractor must plan the hoisting operations in a way as to avoid that the loads pass over the occupied zones on the site. When there is no alternative, the hoisting plan must absolutely be signed and sealed by an engineer and must guarantee the security of the occupants in that zone; the plan must also be approved by the Departmental Representative. The Departmental Representative can, if he deems necessary, require that the work be done at night or on weekends.
- .4 Upon the beginning of the work on the construction site, the Contractor must submit the list of the hoisting plans anticipated for the whole project to the Departmental Representative. That list shall be updated as needed if changes occur during the work.
- .5 In addition to the mechanical service inspection certificate, the annual inspection certificate and the crane logbook must be aboard all cranes and boom truck cabs.
- .6 The entire lifting area shall be marked off to prevent the entry of non-authorized persons.
- .7 The Contractor shall carefully inspect all of the slings and lifting accessories and make sure that those in poor condition are destroyed and scrapped.
- .8 Compressed-gas cylinders shall be lifted with a basket specially designed for this purpose.
- .9 Minimum content of hoisting plan
  - .1 Sketch indicating at a minimum, the location of the crane, the surrounding facilities, the zone covered by the hoisting operations, the pedestrian's pathways and vehicular routes, the security perimeter, etc.
  - .2 Weight of loads
  - .3 Dimensions of loads
  - .4 List of hoisting devices and weight of each
  - .5 Total weight lifted

- .6 Maximum height of obstacles to clear
- .7 Height of loads lifting relative to the surface of the roof (in the case of loads to be placed on roofs)
- .8 Use of guide cables
- .9 Type of crane used
- .10 Crane capacity
- .11 Boom length
- .12 Boom angle
- .13 Crane's radius of action
- .14 Deployment of stabilizers
- .15 Percentage usage of the crane's capacity
- .16 Verification confirmation of hoisting equipment
- .17 Identification of the crane operator and the person responsible for the hoisting operations with date and signatures.

## 1.27 HOT WORK

- .1 Hot work means any work where a flame is used or a source of ignition may be produced, i.e., riveting, welding, cutting, grinding, burning, heating, etc.
  - .1 A working portable fire extinguisher suitable to the fire risk shall be available and easily accessible within a 5 m radius from any flame, spark source or intense heat.
  - .2 The Contractor must appoint an individual to do continuous monitoring of the fire risks for a period of one (1) hour after the end of the shift of hot work. This individual shall sign the section for this purpose on the permit and give it to the person in charge of the construction site after the one-hour period.
  - .3 When the hot work is done in areas where there is combustible materials or where the walls, ceilings or floors are made of or covered with combustible materials, a final inspection of the work area must be scheduled four (4) hours after the work has finished. Unless specified otherwise by the Departmental Representative, the Contractor must assign a person to carry out this monitoring.
- .2 Welding and cutting: In addition to the requirements prescribed in the preceding paragraphs, the Contractor must respect the following requirements:
  - .1 Welding and cutting work must be carried out in accordance with the requirements of the *Code de Sécurité pour les travaux de construction, S-2.1, r.4* (Safety code for the construction industry) and CSA standard W117.2, Safety in Cutting, Welding and Allied Processes.
  - .2 Air extraction system with filters must be used for all welding and cutting work performed inside.
  - .3 Stop all activities producing flammable or combustible gas, vapours or dust in the vicinity of the welding or cutting work.
  - .4 Store all compressed gas cylinder on a fireproof fabric and make sure that the room is well ventilated.

- .5 Store all oxygen cylinders more than 6 metres from a flammable gas cylinder (ex: acetylene) or a combustible such as oil or grease, unless the oxygen cylinder is separated from it by a wall made of non-combustible material as mentioned in the article 3.13.4 of the *Code de sécurité pour les travaux de construction*, S-2, r. 6 (Safety code for the construction industry)
- .6 Store the cylinders far from all heat sources.
- .7 Not to store the cylinders close to the staircases, exits, corridors and elevators.
- .8 Do not put acetylene in contact with metals such as silver, mercury, copper and alloys of brass having more than 65% copper to avoid the risk of an explosive reaction.
- .9 Check that welding equipment with electric arc has the necessary tension and are grounded.
- .10 Ensure that the conducting wires of the electric welding equipment are not damaged.
- .11 Place the welding equipment on a flat ground away from the bad weather.
- .12 Install fireproof canvas when the welding work is done in a superposition and where there is the risk of falling sparks.
- .13 Move away or protect the combustible materials which are closer than 15 metres from the welding work.
- .14 Prohibition to weld or cut any closed container.
- .15 Do not perform any cutting, welding or work with a naked flame on a container, a tank, a pipe or other container containing a flammable or explosive substance unless:
  - .1 they have been cleaned and air samples indicating that work can be done without danger has been taken; and
  - .2 provisions to ensure the safety of the workers have been made.

## 1.28 WORK NEAR BODIES OF WATER

- .1 For all work done near a body of water (such as work above water, work on a wharf, work on the edge of a watercourse, etc.), the Contractor must respect the requirement of the following paragraphs in addition to those in article 2.10.13 du *Code de sécurité pour les travaux de construction* (Safety code for the Construction Industry).
- .2 The Contractor must plan his work in a way to implement safety measures to prevent any worker from falling in the water. The use of these measures should be favoured over the wearing of a life jacket.
- .3 Submit the following documents to the Departmental Representative before the beginning of the work. Each of these documents must contain at a minimum the information required in section 11 of the *Code de sécurité pour les travaux de construction* (S-2.1, r.4) (Safety code for the Construction Industry). If there is the possibility that all or part of the work can be done during the winter, the safety measures included in the documents required above must be adapted accordingly.
  - .1 Description of the body of water;
  - .2 Description of the work done next to this body of water;

- .3 Plan of transportation on water adapted to the work and to the characteristics of the body of water;
- .4 Rescue plan adapted to the work and to the characteristics of the body of water;
- .4 Submit to the Departmental Representative the certificate of training required in article 11.2 du *Code de sécurité pour les travaux de construction* (S-2.1, r.4) (Safety code for the Construction Industry) for the following individuals:
  - .1 The person assigned to prepare the documents required in the preceding paragraph; and
  - .2 Each person responsible for the transport or rescue operations
- .5 If the rescue plan stipulates the use of a vessel, the Contractor must submit to Departmental Representative the competency card or certificate for the individuals in the rescue team for his work, issued by Transport Canada.
- .6 The Contractor must include in his weekly inspection checklist the devices required in the articles 11.4 and 11.5 du *Code de sécurité pour les travaux de construction* (S-2.1, r.4) (Safety code for the Construction Industry).
- .7 Ensure that a rescue vessel moored and in the water is available at each place where a worker may fall in the water. However, a vessel may serve more than one workplace on the same construction site provided the distance between any of these workplaces and the vessel is less than 30 m.
- .8 Where the construction site is a wharf, a pier, a quay or any similar structure, a ladder with at least two (2) rungs below the surface of the water shall be installed on the front of the structure every 60 m.

## **1.29 WORK NEAR OVERHEAD POWER LINES**

- .1 When there is an overhead power line in the work zone and that the Contractor chooses to apply paragraph b) of article 5.2.2 of the *Code de sécurité pour les travaux de construction* (2.1, r.4) (Safety code for the Construction Industry), a copy of the agreement with the electrical power company and a copy of the work process, required in the article 5.2.2 b), must be submitted to the Departmental Representative before the beginning of the work in relation to these documents.

## **1.30 DIVING OPERATIONS**

- .1 In accepting this contract, the Contractor agrees to satisfy the following requirements:
  - .1 Compliance with all the requirements of the *Règlement sur la santé et la sécurité du travail* (S-2.1, r.13) (Regulation respecting occupational health and safety), more precisely section XXVI. I, entitled *Travail effectué en plongée* (Underwater Work). Compliance, furthermore, with the latest editions of standards CAN/CSA Z275.2 – *Occupational Safety code for Diving Operations*, CAN/CSA Z275.1 – *Hyperbaric Chambers* and CAN/CSA Z275.4 – *Competency Standard for Diving Operations*. In the event of conflict between these requirements, the most stringent requirement shall apply.
  - .2 In addition to the above, in cases where construction work is involved, compliance with the *Code de sécurité pour les travaux de construction* (S-2.1, r.4) (Safety code for the Construction Industry).

- .3 Before starting the work, submit to the Departmental Representative the following documents, as per the *Règlement sur la santé et la sécurité au travail* (S-2.1, r.13) (Regulation respecting occupational health and safety):
  - .1 The professional diving training certificate of each member of the dive team OR a document recognizing the skills of those persons in accordance with the *Competency Standard for Diving Operations*, CAN/CSA Z275.4-02, as per section 312.8 of the Regulation;
  - .2 The workplace first-aid training certificate of each member of the dive team;
  - .3 The medical certificate of each member of the dive team;
  - .4 For each dive included in this contract, a dive plan containing the following information, in addition to that required under the *Règlement sur la santé et la sécurité au travail* (Regulation respecting occupational health and safety):
    - a) The thermal protection to be used;
    - b) The repetitive dive factor;
    - c) The no-decompression limit;
    - d) The circumstances in which the dive must be terminated;
    - e) The procedures to be followed to ensure that machinery, equipment or devices that could create a hazard have been locked out;
    - f) The decompression table to be used, as required;
  - .5 Notification confirming that a system for communicating with the *Service d'assistance médicale pour les urgences en plongée* (Medical assistance service for diving emergency) is available at the diving station at all times.
- .4 The Contractor shall take into account the following specific characteristics of the worksite, and adapt its dive plan accordingly:
  - .1 Unstable structures (wharf).
- .5 Where the dive takes place at one of the following locations, provide the Departmental Representative confirmation that the authorities concerned have been notified:
  - .1 Upstream or downstream from a hydraulic structure or submerged water line;
  - .2 In marine waterways;
  - .3 In port facilities
- .6 If the dive station is more than 2 metres above the water, provide the Departmental Representative:
  - .1 A drawing of the equipment used to transport the worker through the air-water interface, if a device other than a stage is used for that purpose;
  - .2 A drawing of the device used to hoist the stage or other device, unless that device is a crane or boom truck.
- .7 If the dive is carried out from a vessel, provide the Departmental Representative the following documents:
  - .1 Proof of qualification of the vessel operator;

- .2 The vessel's certificate of compliance from Transport Canada.
- .8 a Before starting the work, carry out an underwater rescue simulation at the site, as required under section 312.31 of the *Règlement sur la santé et la sécurité du travail* (S-2.1, r.13) (Regulation respecting occupational health and safety).
- .9 On a daily basis, complete and provide to the Departmental Representative a checklist confirming the presence and condition of the equipment required at the dive site as per the dive plan.
- .10 Ensure that all other documents required under section XXVI of the *Règlement sur la santé et la sécurité du travail* (S-2.1, r.13) (Regulation respecting occupational health and safety) are available at the construction site at all times (diving logbook, diver's logbook, etc.).

### **1.31 HEALTH AND SAFETY SUBORDINATION AGREEMENT**

- .1 Agreement to fill out next page; a completed and signed copy to be submitted to the Departmental Representative.



<b>HEALTH AND SAFETY SUBORDINATION AGREEMENT</b>	
<b>Project :</b> _____ <b>Address :</b> _____	
<b>EXTERNAL CONTRACTOR</b>  I hereby agree to submit to the authority of (name of the Principal Contractor's business) _____, which is the Principal Contractor for the project indicated above during the entire duration of our work on the construction site. Accordingly, I confirm that I have reviewed the Principal Contractor's prevention program, and I agree to: <ul style="list-style-type: none"><li>• Inform my employees of the content of the Principal Contractor's prevention program and ensure that its content are complied with at all times;</li><li>• Apply the prevention program that is specific to the activities that we carry out under this project;</li><li>• Inform the Principal Contractor of my actions or dealings on the construction site and obtain the Principal Contractor's agreement before the start of work; and</li><li>• Follow the health and safety directives provided by the representative of the Principal Contractor on the construction site and, depending on requirements, attend training sessions and health and safety meetings organized by the representative of the Principal Contractor.</li></ul>	
Name of Representative:	Name of Business:
Description of work to be done on the construction site:	
Approximate dates of work (start-end): Start:	End:
<div style="display: flex; justify-content: space-between; margin-top: 20px;"><div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px;"></div><div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px;"></div></div> <div style="display: flex; justify-content: space-between;"><div style="width: 45%;">Signature</div><div style="width: 45%;">Date</div></div>	
<b>PRINCIPAL CONTRACTOR</b>  I hereby agree to allow the business (name of external contractor) _____ to perform the work under this project indicated above and, as Principal Contractor, to take the necessary steps to protect the health and safety of workers on the construction site. Should the Contractor repeatedly refuse or fail to comply with my directives, I agree to inform PWGSC's Departmental Representative of this and to provide documentary evidence of my actions or dealings with the Contractor.	
Name of Representative:	Name of Principal Contractor's business:
<div style="display: flex; justify-content: space-between; margin-top: 20px;"><div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px;"></div><div style="width: 45%; border-bottom: 1px solid black; margin-bottom: 5px;"></div></div> <div style="display: flex; justify-content: space-between;"><div style="width: 45%;">Signature :</div><div style="width: 45%;">Date :</div></div> <div style="margin-top: 10px;">Submit a completed and signed copy to Departmental Representative</div>	