Cegertec WorleyParsons

CORRECTIONAL SERVICE CANADA

Joliette Institution

400, rue Marsolais, Joliette (Québec) J6E 8V4

File: 550-2-325-2487

OUR FILE: 22602

SPECIFICATIONS

September 21, 2015

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RECORD OF EMISSIONS				
DATE	**ISSUED FOR**	**DESCRIPTION**		
***CM -** Comments*		***CFB –** Calls for bids*	***PUR -** Purchase*	***CO -** Construction*
2015-05-25	CM			
2015-09-21	CFB			

END OF SECTION

Number	Title
S-PN-INT-LTR-S01	Sector-F-cells Plan views and isometrics
S-DT-CO-TY-S02	Sector-F-cells Sections and details
S-DT-CO-TY-S03	Sector-F-cells Sections and details

END OF SECTION

PART 1 – GENERAL

1.1 Preamble

.1 Joliette Institution

These additional conditions apply specifically for this project and do not modify in any way the scope of the tender documents for the construction of the Joliette Institution.

1.2 Description

.1 This division is designed to complement the contract's terms and general conditions.

.2 Unless otherwise specified in special cases, that be written on the plans, drawings or other documents as part of the contract, these terms and conditions and these additional conditions shall apply without limitation and as applicable, to the general contractor and subcontractors of all trades, within the divisions specified in this specifications, or for all of the architectural civil, structure, mechanics and electricity works, to be performed to complete the construction.

1.3 References to other documents of the contract

.1 Governing specifications, additional conditions, specifications, structural drawings and construction details, all tender and contract documents, addenda, appendices and revisions, working conditions, provincial regulations governing workforce, are an integral part of the technical specifications and will govern the whole of the work required for this construction. Documents are complementary and any element which is found in one or another of the documents is an integral part of the contract.

1.4 General scope of the specifications for all divisions of the specifications

.1 Any reference to the present or any representation on drawings of articles, materials, operations or work process, means that the contractor is required to provide every article mentioned or represented and that each of these articles shall be of the quality described or subject to caveats.

.2 The contractor is therefore required to perform every operation prescribed in compliance with the conditions set and to provide all manpower, tooling and accessories required for these purposes.

.3 In the event of uncertainty or inconsistency in the documents, the general contractor or subcontractors are therefore required to enquire with the CSC designated representative, which will contact the office of engineers or consultants of the project, about all supplementary information which appear necessary, before the project bid date.

.4 The following specifications and all drawings complement one another. The various elements or types of finishes listed therefore does not exempt the contractor from works not specified below, which are shown on the drawings or necessary for the full execution of the work in the spirit of the drawings and specifications.

.5 The contractor shall provide in its bid all costs for temporary diversion of all services (plumbing, electricity, telecommunications, etc.) required to keep the building operational, in compliance with the requirements of this section. The contractor and its subcontractors may choose to use their own method for diversion of service and agree on the spot, to any alternative without additional costs. Consequently, as work manager, the contractor shall ensure that subcontractors of all relevant disciplines included monies covering these works in their bids. During the construction, no additional amount will be approved for change of order to perform temporary service diversion work whether or not they are shown in drawings.

.6 Unless prior caveats set beforehand with the general contractor or the engineers, the beginning of the work by a subcontractor or the contractor shall mean implied acceptance of the terms of the condition of the structure in which or on which their work shall be performed. Therefore, the poor quality of work of another subcontractor or of the contractor, imperfections, errors or omissions, etc., shall not be excuses or pretexts for work performed poorly by another subcontractor. Therefore, additional costs will not be granted for much the same reasons.

.7 Some works or materials can be described in drawings without necessarily be subject to a section of the specifications or be specifically described in a section of the specifications. It is the responsibility of the general contractor to decide who will perform these works and who will provide these materials.

1.5 Cooperation and coordination with other trades

.1 Ensure full cooperation with all trades, without exception, involved in this work, for the supply and installation of all elements necessary for the execution of this work.

.2 Unless otherwise indicated, the manufacturer shall provide the necessary accessories to complete the installation of the elements produced by said manufacturer.

.3 When the installation is under the responsibility of the subcontractor, the latter will provide materials, labour and equipment required to complete the installation of its work.

.4 Project superintendent: The Owner reserves the right to require the general contractor to replace the superintendent for inadequate operation or coordination of the site. Under no circumstance shall the costs arising from its replacement be charged to the Owner.

.5 All dimensions are to be checked on site and to be coordinated with the other trades.

1.6 Construction site

.1 The general contractor shall respect the designated work area whilst respecting the conditions required and listed on the drawings, specifications and other requirements set by the consulting engineers.

.2 After each shift, the general contractor shall ensure cleanliness outside temporary divisions on site roads of its employees and subcontractors.

1.7 Construction health and safety

.1 Refer to sections: 01 35 13 – CSC safety; and 01 35 30 – Health and safety

1.8 Site preparation

.1 At the beginning and during the work, prepare the site in advance and on the basis of the works to be executed.

.2 Plan for the arrival of materials and equipment so to not obstruct or even reduce access ways at rush hour. Remove and carry off-site all waste from construction or dismantling work. As much as possible, deliver the materials immediately prior to their use or installation, so to not block passage ways and accesses to buildings.

.3 In entrances and other places, free space of all obstruction for easy access where works will be carried out. Free entrances and build protection required in order to allow safe use to users at any time.

.4 Plan, coordinate and prepare the work of each of the operations, so to avoid delays and loss of time due to unforeseeability of laws or regulations, to certain counterproductive work overlapping, to useless cluttering, to access issues, to incomplete, inadequate or defective basic and preparation work, to inadequate electricity, water or other supply services, and to all other similar unfavourable causes and conditions.

.5 Before starting any work whatsoever, coordinate and determine with each subcontractor work areas required to perform its work.

.6 Following coordination with all subcontractors, before the beginning of the works, the contractor shall submit to the engineer and to the Owner, for approval, a construction organization chart with a brief written description, defining clearly: the methods employed, shelters, waste chutes, dust covers, and sound barriers if needed; the kind and location of the scaffolding, elevators and lifts as well as the areas reserved for site buildings, work and storage spaces.

1.9 Conditions of the premises

.1 Works shall be planned and carried out so to minimize inconveniences such as interference, disturbance, noise, dust, engine emissions and other nuisances; work areas shall be zoned and, where required or requested by the engineer, adequate temporary protections shall be installed to isolate areas to build where necessary (depending on the requirements of the Owner).

1.10 Work in cold weather

.1 The general contractor shall include in its bid provision for all expenses for work done in cold weather.

.2 All work to be protected against bad or cold weather will be using shelters and a heating system to hold the temperature desired for the due carrying out of the work.

1.11 Protection of the public, workers and occupants

.1 According to the regulations of the *Commission de la Santé et de la Sécurité au travail* (CSST), the contractor is the principal contractor.

.2 In addition to article 4.7 of the general conditions, the contractor shall:

.1 Erect and maintain in good condition safeguards, partitions, screens, covered walkways and other appropriate means of temporary protection around the building, around the openings and scaffoldings as well as in other hazardous areas around the building and on the ground.

.2 Provide, install and keep in operation, during hours of darkness, lights or security lights at locations where there are ramps, obstructions, covered walkways, hazardous objects or equipment, and in any other area of this nature at the building and on the ground.

.3 The means of protection shall be in accordance with the *Loi sur la santé et la sécurité du travail* (LSST). Protect sidewalks and any place of passage with plywood panels.

.4 The engineer will have the right, without prior notice, to provide at the expense of the contractor, for the measures that the latter shall neglect to undertake, either for the maintenance of communications, or for the protection of the public and of the company workers.

.5 The contractor will be responsible to erect and maintain in place signs, barricades and fences required to ensure the safety of the occupants, pedestrians and cars having to operate on the site. However, this work shall be coordinated with the Owner’s security service as well as municipal authorities.

.6 The contractor’s prevention program specific to the construction site shall be coordinated with the Owner’s program of prevention.

.7 The contractor shall maintain access to firefighters at all times. Those accesses shall be coordinated with the Fire Department serving the establishment.

1.12 Access to the site

.1 Roadways shall not be obstructed at any time. Public pedestrian accesses shall be clearly defined during the different phases.

.2 Control, monitoring and maintenance of access roads and roadways on the ground, outside the construction site, are under the authority of the Owner, except for temporary access roads for the use of the contractor.

.3 The contractor is responsible for any damage onsite or offsite of the sector where work is executed by heavy vehicles carrying excavation, demolition or construction materials. The route taken by the vehicles shall be approved by the competent authorities.

.4 Accesses shall be made so to ensure the safety of the public and workers in the sector where work shall be performed, both from the perspective of municipal services as well as police, ambulance and fire services.

1.13 Obstruction to traffic

.1 The contractor shall comply with the measures and precautions that will be specified to it by the Owner so that tools, installations and works of its projects do not interfere or impede the traffic nor are the cause of any accident.

1.14 Storage areas

.1 In principle, no warehousing will be permitted on the site, except in limited areas well-defined by the engineer and the Owner to store certain materials in sufficient quantities to feed the work and ensure continuity.

1.15 Site offices

.1 The site offices shall be installed within the limits of the construction site.

.2 The contractor shall provide free access to professionals to site offices and reserve for them a desk with drawers, a filing cabinet and a plan storage system.

.3 Facilities shall be kept clean at all times. (To validate by the Owner at the kick-off meeting.)

1.16 Temporary scaffoldings and lifts

.1 Provide, install and maintain in operation and in good working order at all time during construction, all general temporary transportation equipment required including hoists, stairs, ramps, ladders, scaffoldings, sidewalks, walkways, etc., necessary for the efficient execution of work in general and for the general use of all workers.

.2 Temporary service equipment shall comply with the provincial laws and regulations on the prevention of accidents at work.

.3 The contractor shall erect waste chutes built into the scaffoldings, installed within the space occupied by those scaffoldings. The chute installed parallel to the wall will empty in containers specifically designed for this purpose and equipped with tarpaulins to avoid dust clouds. Waste chutes shall be installed so that they do not interfere with the Owner's installations. The chutes shall not be in conflict or interfere with the equipment of the building. The location of waste chutes shall be approved by the institution.

1.17 Protection of materials

.1 During the period of storage, protect against damage the materials and manufactured goods delivered to the construction site.

.2 Protect materials and manufactured goods according to the manufacturer's printed instructions.

1.18 Protection of the existing and site structures

.1 Protect using tarps, plywood or other types of suitable materials, other structures located close to works and close to ramps, ladders and other temporary means of transportation and traffic.

.2 During periods of bad temperature, protect the works under construction or constructed against deterioration, using temporary shelters and other appropriate means. Protect also against moisture and water works likely to be damaged by those elements.

.3 Cover with plywood finished surfaces that shall still be protected to allow execution of work.

.4 Protect all equipment that are in the custody of the contractor.

.5 Perform the works so to not damage or soil the surrounding properties, pedestrian pathways and roadways.

1.19 Protection of existing structures

.1 The contractor shall, at its own expense, protect, prop up, support, divert and restore to good status to the satisfaction of the stakeholders the water pipes, sewers, underground telephone or power cables, drains, gas lines, buildings, fences, telephone, telegraph and power poles, or other structures that will be encountered, disturbed or damaged during the work.

1.20 Removal of temporary structures

.1 As work progresses, remove the scaffolding, ramps, walkways, ladders and other temporary structures of the same nature that are no longer required.

.2 Upon completion of the work, remove equipment, accessories, materials, systems, etc., from the temporary structures and leave the building and the ground free of all surplus or waste material.

1.21 General repairs

.1 The contractor shall perform the repairs and patching of the surfaces that it may have damaged. Those repairs shall be carried out immediately after the works.

.2 Before each final acceptance by the Owner, the contractor shall proceed to the repair of all surfaces that have been damaged by the contractor or its subcontractors in execution of their work of any type.

1.22 Permits and authorisations

.1 It is the responsibility of the general contractor to obtain from governmental and municipal authorities all relevant information on the laws and regulations governing construction work in the province and the municipality where the work shall be performed as well as the contingencies of specific to the location.

.2 The construction permit will be at the expense of the contractor.

1.23 Toilets

.1 The general contractor shall maintain in operation chemical toilets on the site, for the duration of the work, and ensure the normal maintenance or coordinate with the client about the possibility of using local toilets under his supervision.

1.24 Waste containers

.1 Waste containers shall be emptied every day.

.2 Transport and dump fees will be borne by the contractor.

.3 No waste containing at more than 50% full shall not be left on the premises at night.

1.25 Water damage

.1 All damage caused by water damage attributable to the contractor shall be repaired at its own expense.

.2 In case of water infiltration, the contractor shall order, at its expense, an assessment of the locations affected by infiltration. This work shall be carried out by a laboratory with expertise in the detection of mold. A full report shall be submitted to the professionals. The report shall clearly state the extent of the damage and make recommendations for the cleaning and decontamination of the affected premises.

1.26 Review of workshop drawings

.1 All workshop drawings shall be subject to a review by the engineer/engineers before the fabrication of products, equipment, etc.

.2 All products, equipment, etc., which workshop drawings have not been verified by engineers before their shipment will be automatically rejected.

.3 Refer to section 01 33 23 – Shop drawings, data sheets and samples.

1.27 Surveillance and coordination: responsibility of the general contractor

.1 The general contractor shall coordinate itself the work from the different trades.

.2 The general contractor shall monitor the work of its subcontractors and ensure that they are executed in accordance with the drawings and specifications.

.3 Before submitting an application for approval to the engineers, the general contractor shall check the lists of deficiencies provided by the professionals after their verification visit and ensure that each of the items listed in the lists has been fixed.

1.28 Site management

.1 **Additional instructions to the contractor:** Written instructions issued to the contractor by the professionals to change or clarify a situation, a detail or a finish onsite. Those additional instructions generate no additional costs to the contract.

.2 **Change instructions:** Written instructions issued to the contractor by the professionals to modify or clarify a situation, a detail or a finish onsite. Those change guidelines generate additional costs in the contract.

.3 **Change order:** Official document amending the contract cost and execution time, if applicable. The change order form is an administrative form, complementary to the change guidelines. It is produced by the engineers.

.4 **Change orders issuance**: The engineer produces a change order in connection with the change instruction. The change order is issued according to a numbering that the contractor shall use to treat all data relative to this change.

.5 **Numbering of change orders**: The change order numbers will be issued by the engineer, on the change order forms sent to the contractor. The latter will maintain a registry of the change instructions, which it will deliver at all the site meetings.

.6 **Details of the change order costs**: Following the issuance of the change instructions by the professionals, the contractor will send to the professionals its cost estimate and all documents necessary for the cost analysis by the professionals. All documents shall be identified according to the change order number or the request for change to which it will refer.

.7 **Cost proposal**: The contractor shall provide a detailed description of the material costs and quantities, with cost details of labor by trades, break down and hourly rates, administrative costs and gain applicable to the change order, and any other cost related to the change order. The change order shall be complete and address all works associated with the change order, including the cost of delays in implementation. Eligible overhead costs include all costs.

The costs of the contractor will be increased according to the percentages authorized in the general conditions of the Owner, to cover overhead, administrative costs and profits on the work.

.8 **Applicable hourly rates**: For the assessment of the changes to the contract, hourly labour rates will be those, latest in force, of the hourly labour cost grid of the *Association de la construction du Québec* (http://www.acq.org/).

.9 **Documents for signature**: When there is agreement between the parties, and that costs will be deemed satisfactory by the professionals, the contractor shall provide three (3) copies of the "change order" forms, previously issued by the engineer, in preparation for the signing of the professionals and the Owner for final approval of the change order. The contractor shall complete the form and attach to change order all documents relating to the change order such as the history of the change, all the professionals' guidelines for the change order, full details of the costs of the change and approval of the professional.

1.29 Protection of finish

.1 The contractor has the responsibility to protect against damage any existing elements that serve as decorative or finishing accessory. Damaged elements shall be replaced.

1.30 Documents required for the clean acceptance certificate

.1 The contractor shall provide to the engineer all the documents listed below and which are required by the Owner for purposes of obtaining the clean acceptance certificate.

.2 Sworn declaration of the contractor stating that all workers' salaries were paid in all cases in strict accordance with the pay scale of the collective work agreement relative to the construction industry whose territorial jurisdiction extends to the region.

.3 The receipts of all subcontractors and suppliers, for the same period covered by the sworn statement.

.4 The project file containing general information, the description of the products and all certifications required in accordance to section 01 78 00 - Documents and events to provide upon completion of work.

.5 Maintenance manuals in accordance to section 01 78 00 - Documents and events to provide upon completion of work.

1.31 Statutory declaration and releases

.1 The contractor shall provide a sworn declaration with any request for payment he will subsequently to the present and all receipts from suppliers and subcontractors that they have waivered their contract or not.

1.32 Permits for hot work

.1 Before starting any hot work (work involving open flames or generating heat or sparks, or both), the contractor shall obtain from an officer of the Owner the institutional guidelines and comply with the requirements of the institution.

1.33 Construction plans

.1 The Owner shall provide a full copy, in PDF format, of the drawings and specifications issued for construction.

1.34 Communication plan

.1 To facilitate communication on the site, the contractor shall prepare and submit a plan of communication within the site. Its communication plan shall include the provision of radio transmitters.

.2 The contractor shall obtain authorization from the institution before using a communication system (radio transmitter) so to ensure that there will be no interference with the institution's systems.

1.35 Works by others

.1 In drawings and specifications, where noted as "by other divisions" or "by other sections" implies that those works are the responsibility of either the general contractor or of another section or division of the specifications.

.2 When works are not part of the contract, "not included in contract (N.I.C.)" will be noted specifically.

.3 The general contractor shall consult in detail all drawings and specifications for architecture, structure, mechanical and electrical so to include in its contract the work noted as "by other divisions", "general contractor" or any other similar term.

.4 Some of those works may already have been included in other sections of the specifications or other drawings. It is therefore for the general contractor to consult all the documents to identify those who are already under the responsibility of other specific sections of the specifications or shown on the drawings of other disciplines or specialties. Those who are not already specifically described or listed on the drawings or in the specifications of other divisions will then fall under the general contractor.

1.36 Products and materials

.1 All products and materials specified in this specifications or the structure drawings shall be installed in accordance with the recommendations of the manufacturer. In case of inconsistency between the transmitted guidelines and the requirements specified in different sections and the recommendations of the manufacturer, the latter prevail.

.2 The contractor shall obtain from the manufacture all the installation and finishing recommendations and implement all the means required to achieve satisfactory results and meet the needs of the Owner.

PART 2 – PRODUCTS

NOT APPLICABLE

PART 3 – EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 References

.1 National Building Code of Canada (NBC) 2010**,** including all amendments up to the project bid date.

1.2 Description and sequence of work

.1 The work covered by this contract shall be carried out in a single phase. The following general description is only a summary list of the main interventions. Detailed analysis of tender documents will enable the proponent to identify the actual scope of work.

.2 It is also important to notice that each part of the project which will be subject to a taken delivery by CSC shall be fully operational, i.e. that the CSC shall be able to provide services to its users.

.1 Structural reinforcement works

.1 The contractor shall clean all cracks and openings as recommended by the manufacturer before the application of products and reinforcement elements. See structural drawings.

.2 The contractor shall fill cracks and openings with adhesive as indicated on the structural drawings.

.3 The contractor shall manufacture, supply and install anchors for fixing the new structural reinforcement angles.

.4 The contractor shall manufacture, supply and install structural reinforcement angles.

.2 Painting

.1 The contractor shall prepare the surfaces to paint according to manufacturers' recommendations

.2 The contractor shall paint the surfaces indicated on the structural drawings according to the recommendations of the manufacturers and according to section 09 91 00 – Painting of this specification.

.3 Sequence of work

PHASES OF WORK	DURATION	DESCRIPTION
Pause	1 week	Transfer of prisoners from Unit A (beds 1 to 4 – no. 1604)
Phase 2	2 weeks	Reinforcement and painting works at Unit A
Pause	1 week	Transfer of prisoners from Unit B (beds 5 to 10 – no. 1610) and rehabilitation of Unit A
Phase 3	2 weeks	Reinforcement and painting works at Unit B
Pause	1 week	Rehabilitation of Unit B
Correction of deficiencies	1 week	Defect or missing work for the project (325-2487)
END OF WORK		

1.3 Visit of the premises by the tenderers

.1 For safety reasons, within the penitentiary, a visit of the premises will be at fixed time, at a date determined in the tender documents. The appointment will take place at the main entrance of the institution concerned. The site visit is mandatory.

.2 Visit the premises and review specific conditions which may affect the work. The submission of a tender implies a confirmation on the part of the bidder to the effect that it accepts the conditions.

1.4 Security control

.1 All workers shall submit to a security screening in order to be accredited to a level of security required by the Correctional Service Canada and Public Works and Government Services Canada.

.2 Section 01 35 13 – CSC safety describes the detailed procedures of the security screening.

.3 At the beginning of the work, a special site meeting will be held with representatives of the institution to lay down safety and work directives relative to worksite in prison environment.

1.5 Codes

.1 Perform the work in accordance with the National Building Code of Canada (NBC) and any other provincial or local code applicable. In case of any discrepancy or inconsistency, the more stringent requirements shall prevail.

.2 Execute the work so to meet all requirements of:

.1 Contractual documents.

.2 Specified codes and standards and any other documents referenced.

1.6 Documents required

.1 Keep a copy of each of the following documents on site:

.1 Contractual designs.

.2 Specifications.

.3 Addenda.

.4 Reviewed shop drawings.

.5 Change orders.

.6 Other contract amendments.

.7 Reports of tests conducted on site.

.8 Approved work schedule.

.9 Installation and implementation instructions provided by the manufacturers.

1.7 Work schedule

.1 Start planning the work immediately after receiving the notice of acceptance of your proposal. The work covered by this document, including corrections to construction defects, shall be completed within the schedule specified in this document. In case of non-compliance to the schedule, measures will be taken in accordance with the Public Works and Government Services Canada (PWGSC) Standard Acquisition Clauses and Conditions.

.2 Within **five** (5) working days following the award of the contract, submit the work schedule indicating the progress of the various phases of the project and the work completion date, which shall be completed within **eight** (8) weeks following the award of the contract.

.3 Within **five** (5) working days following the award of the contract, submit security screening forms for approval.

.4 Within **ten** (10) working days following the award of the contract, submit shop drawings, data sheets and samples.

.5 The work sequence is defined as follows:

.1 Kick-off meeting and submission of the schedule, workshop drawings, data sheets, samples and security screening forms for approval.

.2 Approval of documents submitted.

.3 Beginning of work.

.4 See phasing of work in article 1.2 of this section.

.5 Submit operation and maintenance manuals for approval.

.6 Provisional acceptance.

.7 Correction of deficiencies.

.8 Final acceptance.

.7 Within **five** (5) working days following the award of the contract, the contractor shall submit, in a form deemed acceptable by the project manager, a work schedule indicating:

.1 The dates for submission of shop drawings, lists of materials and samples.

.2 The dates of delivery of the equipment and materials.

.3 The dates of the beginning and the end of work described in each section of the specifications.

.4 The final completion date of work compared with the contract completion date.

.8 Draft revisions of the project status report, based on the submitted execution schedule, shall be made at the discretion of the CSC project manager. The schedule shall be updated by the contractor, with collaboration and approval of the CSC project manager.

.9 Works shall be uninterrupted and only the deadlines set for the CSC move (transfers of inmates and rehabilitation of units) will justify temporary suspension of the work.

.10 No supplement or claim will be granted to the contractor for delays other than those clearly defined due to additional work identified in the documents "change orders".

1.8 Acceptance of equivalents

.1 The firm suggesting substitutes or equivalents next to the products mentioned in the specifications, the drawings or other contractual clauses, shall include in its proposal data sheets for approval by the evaluation committee. Those products shall be of equal or superior quality so that the proposal is selected, otherwise it shall be rejected. The financial proposal shall reflect those substitutes.

.2 It is the responsibility of the contractor to provide proof of equivalence. The application for equivalence shall be presented clearly and include all the details that will allow its analysis.

.3 The main criteria for acceptance of equivalents are: construction, performance, capacity, dimensions, arrangement of fittings, availability of spare parts, ease of maintenance, delivery times, existence of similar devices in service for some time.

.4 If the use of a device accepted as equivalent causes changes to the installations shown on the drawings or in specifications, those changes will be the responsibility of the general contractor which shall moreover assume responsibility for changes that may be needed in the work of specialized contractors due to those changes.

1.9 Cost breakdown

.1 With its bid, the contractor shall submit a detailed breakdown of costs for this contract, also indicating the overall price of the contract on a tender schedule (see in appendix). Once approved, the cost breakdown will serve as baseline for the purposes of prepayment calculation.

1.10 Payments

.1 The payment will be on a monthly basis, pro rata as works progress. Before sending an invoice, the contractor shall send for approval an application for payment, broken down according to the tender schedule, with the percentage of completion for each article. A 10% holdback shall be applied to the total amount of the application for payment before tax. The deduction will be payable to the final acceptance of the work.

1.11 Metering for payment purposes

.1 Notify the engineer well in advance before the beginning of work to enable him to perform the necessary measurement for payment purposes.

1.12 Use of the premises by the contractor

.1 During construction, the institution shall be kept in full activity; to this effect, the CSC project manager or the safety manager of the institution may ask the contractor to stop work on the spot, temporarily, the execution of a work, so to not jeopardize the activities of the institution.

.2 Use of the premises: access limited to the job site. Works and tasks identified to be executed outside the construction site shall be carried out by a team accompanied by an escort provided by the CSC; see section 01 35 13 – CSC safety.

.3 Perform the work with as little disruption to occupants as possible and ensure, as far as possible, normal use of the premises. Negotiate with the CSC project manager to facilitate the execution of the work.

.4 Maintain at all times the existing services in the buildings.

1.13 Noisy environment and cellular phone

.1 No radio or ghetto blaster is allowed on the site.

.2 Using or carrying a cellular phone is prohibited within the boundaries of the facility.

1.14 Parking on site

.1 The contractor shall confine to parking areas authorized by the institution director.

1.15 Site meetings

.1 Hold site meetings at time set and places approved by the CSC project manager.

.2 Notify all participants of a site meeting.

.3 The engineer will plan the site meetings, will set the date and time, and will be responsible to prepare and transmit the meeting minutes.

1.16 Location of various apparatus and equipment

.1 The location for various apparatus and equipment, as well as outlets shown in the drawings or specifications shall be considered approximate.

.2 Install apparatus and equipment as well as distribution network components in such a way as to limit congestion and keep the most useful surface possible, in accordance with the manufacturer's recommendations regarding security, access and maintenance.

.3 Notify the project manager of the proximity of the date of installation and request its approval for the designated location.

.4 When the project manager requests it, submit key plans indicating the relative location of the various equipment and networks.

1.17 Concealed works

.1 Unless otherwise specified, conceal pipes, ducts and wiring in the floors, walls and ceilings of finished areas.

1.18 Drilling and sealing

.1 Obtain the engineer’s approval before cutting or drilling a supportive element, or insert a sleeve in it.

.2 Perform the drilling and sealing work necessary to connect or link structures to others while ensuring precision-fit and tightness.

.3 Make the holes in such a way that the edges are clean, straight and smooth.

.4 When adding a new structure causes changes to an existing structure perform the drilling, sealing and other repairs necessary to restore the existing structure in its previous state.

1.19 Existing networks

.1 When work require connection to existing networks, perform the work at time set by the competent authorities, with as little disruption to the movement of pedestrians and vehicles as possible.

.2 Submit the work schedule to the CSC project manager and obtain its approval at least 48 hours in advance for any disconnection or interruption of networks or existing services. Disconnect according to the approved schedule and notify in advance the people affected.

.3 If at any time non-identified installations were found during the work, immediately notify the engineer and him send a written report on the findings.

.4 Remove all abandoned service lines that lie within a radius of **2 m** from the structures. Seal pipes in the places where they have been cut with a stopper or any other waterproof device, according to the engineer's guidelines.

.5 Keep record of the location of the conduits that are kept in service, diverted or abandoned.

1.20 Changes, additions or repairs to existing buildings

.1 Perform the work with as little disruption to the occupants and the public as possible and ensure, as far as possible, normal use of the premises. Negotiate with the CSC project manager to facilitate the execution of the work.

.2 At no time shall security measures be reduced due to the work covered by the contract; take the necessary means to ensure all the security required.

.3 When there are in the building elevators, lifts, escalators and conveyors, use, to move staff and equipment within a building, only those that were reserved for the use of the contractor. Before using elevators, protect elevator car walls in accordance with the instructions of the engineer. Assume responsibility for damage, for safe usage of equipment and for overload of existing equipment.

.4 When work takes place in an occupied place, supply and install all protection necessary for the furniture, equipment and finish; install dust screens, partitions and temporary warning signs, and clean up at the end of each evening shift.

1.21 Additional drawings

.1 The engineer may provide the contractor with additional drawings for clarification purpose. Those additional drawings shall have the same meaning and the same scope if they were part of the contract documents.

1.22 Antiques and other remains

.1 Protect the remains, antiques and other items with historical or scientific interest, such as cornerstones and their contents, commemorative plaques and other objects bearing inscriptions found during the work.

.2 Immediately notify the CSC project manager and wait its written instructions before continuing the work at this location.

.3 The remains, antiques and other scientific or historic interest become property of the Crown.

1.23 Restrictions on the use of tobacco

.1 Comply with the restrictions on the use of tobacco on crown-owned property – See section 01 35 13 – CSC safety.

1.24 Presence of asbestos

.1 Removal of asbestos fibre sprayed-on and trowelled-on can be dangerous for health. If, during the execution of the work, the contractor discovers materials resembling asbestos applied by spraying or trowel, it shall stop its work and shall forthwith notify the engineer. Do not resume work prior to receiving any written instructions to this effect from the engineer.

1.25 Operation manual

.1 The contractor shall provide, for approval, three copies of an operation manual comprising the following items:

.1 A table of contents.

.2 The suppliers list with their coordinates.

.3 Letters of guarantee.

.4 Approved workshop drawings.

.5 Maintenance and operation manuals.

.6 As-built (TQC) drawings.

PART 2 – PRODUCTS

NOT APPLICABLE

PART 3 – EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 Requirements

.1 The contractor shall comply with the regulations on construction contracts of public bodies.

1.2 Related requirements

.1	Additional conditions	Section 00 73 00
.2	Work schedule	Section 01 32 16
.3	Shop drawings, data sheets and samples	Section 01 33 23
.4	Quality control	Section 01 45 00

.5 All sections of all disciplines' specifications.

1.3 Coordination

.1 Coordinate the work timetables, including dates of submission of the requisite documents and delivery of products.

.2 Plan meetings between subcontractors and other stakeholders to coordinate the work, establish and maintain work and delivery schedules, and resolve outstanding issues and concerns before the completion of the work.

.3 Participate in the meetings on the work progress status. Report on any changes to the work sequence and to schedules for reasons of coordination.

.4 Distribute the site and coordination meeting records to stakeholders and ensure follow-up on the decisions taken during those meetings.

.5 Take into account the special conditions listed in the following article.

1.4 Special conditions

.1 It is essential that the general contractor check in advance, by consulting all the drawings, that there is no conflict, and determine the work sequence. It shall also consult the subcontractors in order to be sure to resolve any conflict before the start of the work.

.2 As a first step, once the main shop drawings verified, the general contractor will hold regular meetings with the different subcontractors to coordinate work to carry out from the drawings.

.3 In a second step, during the whole work, careful coordination shall be required.

1.5 Site coordination

.1 The general contractor shall provide manpower required to coordinate the various trades according to a detailed planning carried out continuously throughout the work. To this effect, it is required that the general contractor has at least one technician specifically assigned to this task.

.2 All work to be done shall be planned and coordinated in detail at least **one week** in advance, in order to detect any issue and allow professionals to examine the situation where applicable.

.3 Delays or additional costs generated and that may have been avoided by a careful review of drawings and rigorous coordination of subcontractors shall be entirely the responsibility of the general contractor.

.4 No supplement or additional delay will be granted to the contractor if, by a detailed and rigorous planning accompanied by verification on-site and a consultation of the contractors, the circumstances leading to such costs or delays can be avoided.

.5 The contractor and subcontractors shall consider that, save in exceptional circumstances, professionals shall have at least 72 working hours to solve a problem that sound planning and rigorous coordination will have not managed to resolve.

1.6 Planning of works

.1 The contractor shall plan the work on a weekly basis, for the next four weeks. To this effect, it shall first check on site the dimensions and ensure that all of the work to be performed is not overlapping. In the event of inconsistency, submit in the form of sketches a proposal to the professionals concerned so that they can study it, approve it and issue the necessary directives.

.2 Subcontractors have the duty to consult all contractual documents and particularly the drawings of all disciplines in order to assist the general contractor.

1.7 Coordination of substitutions and changes

.1 Review the subcontractors proposals and requests. Check if they comply with contractual documents and if they are compatible with works and tasks relevant to other sections.

.2 Return to subcontractors with useful recommendations on actions to be taken.

1.8 Observation of the work

.1 Observe the work to ensure that they comply with the contractual documents.

.2 Keep a list of shortcomings and deficiencies observed; submit it without delay to the contractors.

1.9 Documents

.1 Attend the tests, register and record:

.1 The number of the specification section; the product or material and the name of the subcontractor.

.2 The name of the organization conducting the tests and of the inspector.

.3 The name of the manufacturer’s representative attending the tests.

.4 The date, time and duration of the tests.

.5 The type of test and the results obtained.

.6 The additional tests required.

.2 Gather the necessary documents to handle any eventual dispute or claim.

.3 Submit copies of the documents upon request of the engineer.

PART 2 – PRODUCTS

NOT APPLICABLE

PART 3 – EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 Section contents

.1 Schedule: presentation and content.

.2 Construction work: of certain sectors at specific periods.

.3 Periodic revisions to the work schedule.

.4 Scheduling using the path critical approach.

1.2 Duration of construction

.1 The owner allows the contractor **eight** weeks to complete all the work.

.2 Deficiencies shall be corrected on this date.

1.3 Work sequence

.1 The contractor shall submit a detailed work schedule.

.2 The contractor shall take into account the proposal of work sequences detailed in the specifications, in section 01 00 50 - General Instructions, and in engineers' drawings. The contractor shall submit a work schedule including its own work sequence. Work shall not start before the contractor' schedule is submitted, and an agreement is reached with the Owner.

1.4 Schedules required

.1 Submit the following schedules:

.1 Scheduling of work including critical path.

.2 Schedule for the submission of workshop drawings and data sheets.

.3 Calendar detailing products' order and delivery dates.

1.5 Presentation

.1 Prepare a timetable in a horizontal bar chart format.

.2 Assign a separate bar for each operation or trade.

.3 Display the time on a horizontal linear scale identifying the first working day of each work week.

.4 Presentation of lists: according to the table of contents of the specifications.

.5 Description of the lists' contents: by topics of the specifications' sections.

1.6 Submission of the schedules

.1 Submit the first schedules within five days following the award of the contract.

.2 Submit a copy to the Owner and a copy to each consultant.

.3 The consultant shall verify the proposed schedule and return a revised copy within 48 hours after receipt.

.4 Submit a final schedule within seven days following receipt of the revised copy.

.5 Each application for prepayment shall be accompanied by a revised execution schedule.

6. Send a copy of the revised execution schedule to:

.1 The site office.

.2 The subcontractors.

.3 The other stakeholders.

.7 Ask the recipients to notify the contractor, within a period of 48 hours, any issue that can rise from the execution program proposed in the schedule.

1.7 Work execution schedule

.1 Submit the complete scheduling of construction activities.

.2 Indicate the dates of beginning and end of each of the main activities including those listed below.

.1 Establishing the site.

.2 Viability.

.3 Reinforcement works.

.4 Painting.

.5 Special works outsourced.

.6 Work to correct deficiencies.

.7 Demobilization.

.3 Give as a percentage expected progress the first day of the month, for each activity.

.4 Indicate the status of each activity on the date of submission of the schedule.

.5 Indicate the changes that have occurred since the submission of the last schedule.

.1 Major changes forecast.

.2 Activities changed since the submission of the latest schedule.

.3 Revised forecast of the pace of progress and the date of completion of work.

.4 Other predictable changes.

.6 Make a detailed report on the following topics:

.1 Issues and predictable delays, and their impact on the schedule.

.2 The proposed corrective actions and expected results.

.3 The likely effect of those changes on the schedule of other prime contractors.

1.8 Work monitoring

.1 At each site meeting, the contractor shall make a presentation on the progress of its work. It shall submit its work planning for the **seven** days following the meeting and make a report on the work executed during the **seven** days preceding the meeting; any delay shall be justified and proposals for corrective actions shall be submitted.

1.9 Submission schedule for effects to deliver

.1 Give the dates planned to submit workshop drawings, data sheets and samples.

.2 Indicate dates of submission, the review period, the new submission date, the flexibility margin and the due date for the manufacturing of elements.

.3 Indicate when shall the consultant return the verified effects.

PART 2 – PRODUCTS

NOT APPLICABLE

PART 3 – EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 General

.1 This section specifies the requirements and general procedures for the submission of shop drawings, data sheets and samples by the contractor to the professionals, for verification purpose. Other additional specific requirements are contained in relevant sections of divisions 05, 09 and 10.

.2 Do not undertake the work until the documents or samples have been reviewed by the professional.

.3 All products and equipment of which shop drawings have not been reviewed by engineers (before shipment) will be automatically rejected.

.4 Submit shop drawings, product descriptions and samples in the International System of Units (SI) (metric units).

.5 If products or data sheets are not provided in metric units, the converted values will be acceptable.

.6 It shall in no way relieve the Contractor of full liability for errors and omissions in the documents submitted, even if the professional proceeded to review those documents.

.7 At the time of the submission of documents or samples, notify the professional in writing of exemptions found against the requirements of the contractual documents, and state the specific reasons justifying such derogations.

.8 It shall in no way relieve the Contractor of full liability in regards to exemptions to the contractual requirements, even if the professional has reviewed the documents or submitted samples, except for the case where the latter accepts in writing a particular derogation.

.9 Make all the changes that the professional deems appropriate in terms of the contractual documents, and submit again the documents or samples as directed by the engineer.

.10 At the time of resubmission of documents or samples, notify the professional in writing of changes other than those required by the latter.

1.2 Requirements relative to the submission of documents or samples

.1 Coordinate the submission of documents or samples required according to the requirements of works and contractual documents. Documents or samples, submitted individually, shall not be subject to a review until all related information will not be available.

.2 Allocate 72 working hours to allow the professional to conduct the review of documents or samples submitted.

.3 The letter of transmittal shall contain the following information:

.1 The date.

.2 The project title and number.

.3 The contractor’s name and address.

.4 The name and number of the shop drawings, descriptions of products and samples submitted.

.5 The specifications’ details and articles relevant to items submitted.

.6 Any other useful information.

.4 Documents or samples submitted shall also include the following information:

.1 The preparation and revision dates.

.2 The project title and number.

.3 Name and address of:

.1 the subcontractor;

.2 the supplier;

.3 the manufacturer.

.4 The seal of the contractor accompanied by the signature of its authorized representative certifying that documents or samples submitted have been approved, that the dimensions taken on site have been verified and that everything complies with the contractual documents.

.5 The details of the appropriate parts of the works, according to the needs:

.1 Details of finishing.

.2 The details of arrangement showing the dimensions, including those taken on site as well as sets and required clearances.

.3 Installation details.

.4 Capacity or power.

.5 Characteristics relating to the performance or the efficiency.

.6 Applicable standards.

.7 Service weight.

.8 Wiring diagrams.

.9 Single-line diagram and schematic diagrams.

.10 The relation with adjacent works.

.5 Once the professional has conducted the review of the documents submitted, distribute copies.

1.3 Workshop drawings

.1 Workshop drawings: original drawings or standard drawings modified, provided by the contractor and illustrating the parts of work that apply to these works.

.2 Submit workshop drawings as follows.

.1 Documents, converted in PDF format, and well identified according to the above information. The transmissions shall be via email or through an FTP site.

.1 The professionals shall return to the contractor a copy of the shop drawings reviewed and annotated, in PDF format. The latter shall make copies as it deems necessary for its needs and the needs of its subcontractors and will distribute them to its subcontractors and other stakeholders.

.3 Make the necessary references to the appropriate parts of the contractual documents.

1.4 Descriptions of products

.1 Descriptions of products: manufacturer's catalogue sheets, performance or efficiency charts and graphs to illustrate the standard manufactured products.

.2 Size of the sheets: 215 x 280 mm or 280 x 432 mm maximum.

.3 Delete the information that does not apply to the present works.

.4 Add to standard information additional information that apply to the works.

.5 Make the necessary references to the appropriate parts of the contractual documents.

.6 Submit the data sheets as follows.

.1 Submit an original in PDF format and transmit them to the professionals concerned. The transmissions shall be via email or through an FTP site.
.2 The professionals shall return to the contractor a copy of the data sheets reviewed and annotated, in PDF format. The latter shall make copies as it deems necessary for its needs and the needs of its subcontractors and will distribute them to its subcontractors and other stakeholders

1.5 Product samples

.1 Samples: examples of materials, equipment, quality, finishes or execution mode.

.2 If the color, pattern, or texture serve as selection criteria, submit the full range of product samples.

.3 Once verified, product samples shall serve as the quality standard for the purposes of the present work.

1.6 Work samples

.1 Samples: works made on-site using prescribed materials and execution mode.

.2 Make work samples in places deemed acceptable by the professional.

.3 Once verified, work samples shall serve as the quality standard for the purposes of the present work.

1.7 Shop drawings review

.1 The review of shop drawings by the professional is intended only to ensure their compliance with the general concept. This review does not mean that the professional approves the detailed design attached to shop drawings, responsibility which remains with the contractor who submits them, and such review shall in no way relieve the contractor of full liability for any errors or omissions on the workshop drawings or its responsibility to respect the construction requirements and contractual documents. Without however

limiting the foregoing general considerations, the contractor is responsible of the dimensions to confirm and to correlate on site, of manufacturing processes or construction and installation techniques and also to coordinate the work of all subcontractors. It shall comply with the configurations shown in drawings.

1.8 Dimensions and configuration

.1 The contractor is responsible of the dimensions to confirm and to correlate on the site. It shall coordinate and plan the work prior to any order. All dimensions shall be verified and validated with related work and information on drawings. In particular, the openings in the floors, walls and partitions shall be validated.

.2 The checking of shop drawings is not a validation of orders. The contractor is solely responsible for the control of materials. It shall coordinate and make a good validation before proceeding. It shall, at all times, respect the contractual documents.

PART 2 – PRODUCTS

NOT APPLICABLE

PART 3 – EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 Object

.1 See to that the construction project and the institution's activities are conducted without interruption and undue impediments and that the security of the institution is maintained at all times.

1.2 Definitions

.1 “Prohibited items” means:

.1 Intoxicants, including alcohol, drugs and narcotics.

.2 Weapons and parts of weapons, ammunition and any object designed to kill, injure or neutralize a person or any object modified or assembled for this purpose, which possession has not been authorized in advance.

.3 Explosives or bombs or their components.

.4 The amounts of money, exceeding regulatory limits of $50.00.

.5 Any other item not described in paragraphs1 to. 4, possessed without prior authorization and that may endanger the security of the penitentiary or the people.

.2 "Unauthorized smoker's articles" means tobacco products including, but not limited to, cigarettes, cigars, tobacco, chewing tobacco and snuff tobacco, cigarette rollers, matches and lighters, which are considered as unauthorized objects.

.3 "Commercial vehicle" means any motor vehicle intended for the transport of material, equipment or tools needed for the construction project.

.4 "CSC" means Correctional Service Canada.

.5 "Director" means the Director of the establishment, or their authorized representative.

.6 "Construction workers" means the employees of the principal contractor, one of its subcontractors, equipment operators, equipment suppliers, expertise and inspection laboratories, and regulatory agencies.

.7 "Departmental representative" designates the project manager of Public Works, Government Services Canada (PWGSC) or Service correctional Canada (CSC) according to the project.

.8 "Perimeter" means the institution area surrounded by security fences or walls limiting the movements of detainees.

.9 "Construction zone" means the area where, as indicated in the contract documents, the contractor will be allowed to work. May be or not isolated from the security perimeter of the institution.

1.3 Preliminary measures

.1 Before starting the work, the contractor shall meet with the director to:

.1 Discuss the nature and scope of all the project-related activities.

.2 Establish acceptable security measures on both sides, pursuant to this directive and the specific needs of the institution.

.2 The contractor shall:

.1 Ensure that all construction workers are aware of CSC safety requirements.

.2 Ensure that the CSC security requirements are always displayed prominently on the site.

.3 Work with the staff of the establishment to ensure that the construction workers comply with all safety requirements.

1.4 Construction workers

.1 The contractor shall submit to the Director the list of names with dates of birth for all employees to work on the construction site and a security screening form duly completed for each of its employees. The establishment may also request a copy of the driving licence for each security screening form submitted.

.2 Allow two weeks for processing the security clearance applications. No employee will be admitted to the institution without duly approved security clearance and an identity card with recent photo, such as driver's license of a province. Security clearances are specific to each CSC institution and any authorization obtained from another institution is not valid for the establishment where the project will take place.

.3 The Director may require that the faces of the construction workers be photographed and that photographs are displayed at some appropriate places in the institution or transferred to a database for identification purposes. The Director may require photo ID cards are produced for all construction workers. Those cards shall be left at the designated entrance where they will be handed over to cardholders upon arrival at the establishment. They shall be worn prominently on their clothes at all times when they are at the institution.

.4 Access to the property of the institution is prohibited to anyone if there are grounds to believe that it can pose a risk to security.

.5 Any person employed on the construction site will be immediately expelled from the property of the institution if:

.1 It seems to be under the influence of alcohol, a drug or narcotic drugs.

.2 It has abnormal or disorderly conduct.

.3 It is in possession of unauthorized object.

1.5 Vehicles

.1 Any one leaving a vehicle unattended on the CSC property shall close the windows, lock the doors and trunks and remove the key. The owner of the vehicle or the employee of the company owner of the vehicle shall make sure to keep the keys safely on its person.

.2 The Director may, at any time, limit the number and type of vehicles allowed in the perimeter of the establishment.

.3 The person delivering equipment required for the project will not have to undergo a security clearance, but they shall not move away from their vehicle for the duration of their stay in the institution. The Director may require that they be accompanied by an employee of the establishment or a commissionaire.

.4 If permitted by the Director to leave trailers within the security perimeter of the institution, doors thereof shall remain locked in a safe manner at all times, as shall also be windows, when trailers are left unoccupied. The windows will be protected by an expanded metal mesh. All trailers used for storage by the contractor, inside and outside the perimeter, shall remain locked securely when not used.

1.6 Parking

.1 The Director will identify parking areas authorized for construction workers' vehicles. Parking in other areas will be prohibited and the offending vehicles may be towed.

1.7 Delivery

.1 Any delivery of material, equipment or tools for the project shall be addressed to the contractor to properly distinguish it from shipments destined to the establishment. The contractor shall ensure that its employees are onsite to receive shipments, as the CSC staff will not accept any delivery of material, equipment and tools for the contractor.

1.8 Telephones

.1 No installation of phone, fax or computer connected to the Internet will be permitted inside the perimeter of the institution without the prior permission of the Director.

.2 Unless expressly authorized by the Director, cellular or digital cordless phones, including but not limited to messaging devices, pagers, BlackBerry's, phones used as two-way radios, are prohibited in the facility. If cell phones are optionally allowed, their user will not allow their use by inmates.

.3 The Director may authorize, but limit the use of two-way radios.

1.9 Working hours

.1 The period of access to the establishment extends from Monday to Friday from 7:30 to 4 p.m. each day. Check with the Director of the institution before the commencement of the work.

.2 Work is not permitted on weekends or legal holidays without the express permission of the Director of the establishment. The authorization shall be requested at least seven days in advance. In the event of an emergency or in any other circumstances, this period may be cancelled by the Director of the establishment.

1.10 Work outside normal working hours

.1 The permission of the Director is required for any work performed outside normal working hours. The contractor shall give notice of 48 hours when it is necessary to perform work approved outside of normal working hours. If there is need to work overtime to complete an urgent task, for example, for pouring concrete or to ensure the safety of the construction, the contractor shall notify the Director as soon as it is aware of the fact of such necessity, and then follow the instructions given by the Director. The costs incurred by the Canada by virtue of this situation may be attributed to the contractor.

.2 When it is necessary to perform work outside normal hours or work weekend or one legal holiday, and that this additional work is authorized by the Director, the latter or a person designated by him can assign additional staff to safety. The costs associated with this assignment may be charged to the contractor.

1.11 Tools and equipment

.1 Maintain a complete list of tools and equipment that will be used during the construction project at the site. Make this list available for inspection when required.

.2 Maintain the list of tools and equipment specified above throughout the construction project.

.3 Never leave tools unattended, particularly motorized tools, explosive impact tools, files, saw blades, carbide saws, wires, ropes, ladders and any type of lifting device (jacks, lifting jacks, etc.)

.4 Store tools and equipment in approved secure locations.

.5 Lock all tool chests after use. The contractor employees shall keep the keys with them at all times.

.6 Attach and lock scaffolds not erected. When erected, the scaffolding shall be secured in a safe manner to the satisfaction of the Director.

.7 Immediately notify the Director of any loss or disappearance of tools or equipment.

.8 The Director will ensure that security personnel perform controls of the contractor tools and equipment, according to the list provided by the latter:

.1 At the beginning and at the end of each construction project; or

.2 According to the frequency that the Director of the establishment will require.

.9 Some tools/equipment, such as cartridges and hacksaw blades, are items under very strict control. The contractor may receive at the beginning of the day a sufficient amount for the day's work. The used cartridges/blades can then be handed over to the designated representative of the CSC at the end of each working day.

.10 When propane or natural gas is used for the project heating, the establishment will require that an employee of the contractor supervises the construction site outside working hours.

1.12 Prescription drugs

.1 Contractor’s employees who take prescription drugs in the course of the working day shall obtain authorization from the Director to be allowed to bring their one-day dosage with them to the establishment.

1.13 Restrictions on the use of tobacco

.1 Contractors and construction workers are not allowed to smoke inside correctional facilities or outdoors within the perimeter of a correctional facility. Inside the perimeter, they shall not have in their possession unauthorized tobacco products.

.2 Contractors and construction employees who fail to respect this policy will be asked to stop smoking or immediately throw all unauthorized tobacco product. If they refuse to comply, they will be ordered to leave the establishment.

.3 It is allowed to smoke only outside the perimeter of the correctional institution, at a place designated by the Director.

1.14 Prohibited objects

.1 Weapons, ammunition, explosives, alcoholic beverages, drugs and narcotics are prohibited on the premises of the establishment.

.2 The discovery of prohibited objects on the site and identification of the person or persons responsible for the presence of those objects shall be immediately reported to the Director.

.3 Contractors shall be vigilant in regards to their employees and their subcontractors employees because the discovery of a prohibited object may result in cancellation of the security authorization of the employee concerned. A serious offence can lead to the expulsion of the establishment site of the company concerned, for the duration of the construction project.

.4 If weapons or ammunition are found in the vehicle of a contractor, subcontractor, supplier or an employee thereof, the security clearance of the driver of the vehicle will be revoked immediately.

1.15 Search

.1 Every person and vehicle accessing the institution's property can undergo a search.

.2 If the Director has reasonable grounds to believe that an employee of the contractor is in possession of contraband or prohibited object, it may require that the person be searched.

.3 Personal effects of any employee arriving at the establishment can be subject to checks for the presence of residues of prohibited drugs.

1.16 Access to the facility

.1 Unless expressly authorized by the Director, construction workers and commercial vehicles will be not admitted to the institution outside normal working hours.

1.17 Vehicle traffic

.1 Vehicles can access and exit the establishment under escort, by the access barrier for vehicles, at the following periods:

.1 from 07:45 to 11:00; and

.2 from 13:00 to 15:30.

.2 Construction vehicles may not leave the establishment until an account of prisoners has been completed.

.3 The contractor shall notify the Director 24 h in advance of the arrival of heavy equipment such as concrete mixers, cranes, etc.

.4 The vehicles loaded with soil or waste or any other vehicle deemed impossible to search shall be subject to constant supervision by CSC employees or agents reporting to the Director.

.5 Before a commercial vehicle is accepted within the perimeter of the institution, the contractor or its representative shall certify that the contents of the vehicle is definitely necessary for the construction project.

.6 Access to the CSC property will be denied to any vehicle whose content, in the opinion of the Director, represents a risk to the security of the establishment.

.7 Construction workers' personal vehicles are not allowed inside the perimeter of the establishment without the express permission of the Director.

.8 Subject to the prior approval of the Director, a vehicle can be used in the morning to bring a group of workers to the site and in the evening to take them back. This vehicle will not be allowed to remain on site during the day.

.9 With the permission of the Director, some equipment may be left at the site overnight or during weekend. They shall be locked and the battery removed. The Director may require that the equipment be attached with a chain and padlock to another fixed object.

1.18 Movement of construction workers on the institution property

.1 Subject to the need to maintain adequate security, the Director will leave to the contractor and its employees as much freedom of action and movement as possible.

.2 However, and notwithstanding the preceding paragraph, the Director can:

.1 Prohibit or restrict access to any part of the establishment.

.2 Require that, throughout the construction project or at certain times, construction workers be accompanied by a security officer or a CSC agent in certain areas of the establishment.

.3 All construction workers shall remain on site during the coffee and health breaks and lunch. They are not allowed to eat in the correctional officers' rest area or in the establishment dining room.

1.19 Surveillance and inspection

.1 Construction activities and movements of personnel and vehicles will be subject to monitoring and inspection by the CSC security staff to ensure that security standards are met.

.2 The CSC staff will ensure that construction workers understand the need for monitoring and inspections, and that this understanding be maintained throughout the project.

1.20 Stop-work

.1 At any time, the Director may order the contractor, its employees, subcontractors or their employees to not enter the site or exit immediately due to a security incident ongoing at the establishment. The foreman of the contractor responsible for the construction site shall then note the name of the CSC employee transmitting the order, the time of the directive, and comply with the order as quickly as possible.

The contractor shall notify the departmental representative of the situation within 24 hours after the stoppage of work.

1.21 Contact with inmates

.1 It is forbidden, without specific authorization, to enter in contact with detainees, talk to them, give them objects or receive objects from them. Any breach of this policy will result in the expulsion of the site of the employee concerned and the revocation of its security clearance.

.2 Note that the cameras are prohibited on the CSC property.

.3 Notwithstanding the above, if the Director authorizes the use of cameras, it still remains prohibited to photograph inmates or CSC employees or any part of the establishment whose photography is not necessary for the performance of this contract.

1.22 Completion of the construction project

.1 Upon completion of the construction project or, where relevant, at the takeover of the facilities, the contractor shall remove all materials, tools and equipment that are not identified as to be left to the establishment in the construction contract.

PART 2 – PRODUCTS

NOT APPLICABLE

PART 3 – EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 Section contents

.1 The contractor shall manage its activities so that the health and safety of the public and field crew, as well as the protection of the environment always have precedence on issues relative to the work costs and schedule.

1.2 References

.1 Canada Labour code, part II, Canada Occupational Health and Safety Regulations.

.2 Canadian Standards Association (CSA).

.3 Workplace hazardous materials information system (WHMIS) / Health Canada.

.4 Loi sur la santé et la sécurité du travail, L.R.Q. Chapitre S-2.1.

.5 Safety Code for the construction industry, S-2.1, r.6.

.6 National Fire Code (NFC).

1.3 Documents/samples to submit

.1 Submit the documents and samples required in accordance with section 01 33 23 - Shop drawings, data sheets and samples.

.2 Transmit to the CSC designated representative, to the CSST, and to the Association paritaire en santé et sécurité du secteur de la construction (ASP Construction): the prevention plan specific to the construction site as described in section 1.8, at least **ten** (10) days before the beginning of the work. The contractor shall then update its prevention plan if the course of the work differs from its initial forecasts. The CSC designated representative may, following receipt of the plan and at any time during the work, require the plan to be either modified or completed to better reflect the reality of the work. The contractor shall then make the corrections required before the beginning of the work.

.3 Transmit to the CSC designated representative, within 24 hours, a copy of any inspection report, notice of correction, or recommendation issued by provincial or federal inspectors.

.4 Transmit to the CSC designated representative, within 24 hours, an investigative report for any accident resulting in injury and on any incident that underline hazard potential.

.5 Transmit to the CSC designated representative all safety data sheets for controlled products used during construction, at least three days prior to their use on the site.

.6 Transmit to the CSC designated representative copies of training certificates that are required for the implementation of the prevention plan, including:

.1 Santé et sécurité générale sur les chantiers de construction (SSGCC) certification.

.2 Security Officer certificate.

.3 First aid in workplace and CPR.

.4 Work likely to issue of asbestos dust.

.5 Confined space entry course.

.6 Lockout procedure.

.7 Use and fit of personal protective equipment.

.8 Forklift operation.

.9 Work lifting platforms.

.10 Any other training required by regulation or prevention plan.

.7 Medical examinations: when medical examinations are required, by virtue of a law, a regulation, a directive, a specification or a prevention plan, the contractor shall:

.1 Before mobilization, transmit to the CSC designated representative medical certificates of its supervisory staff and of all employees covered by the first paragraph of this article who will be present at the opening of the construction site.

.2 Subsequently, will continue to convey without delay the medical certificates of all personnel newly arrived to the site, referred to in the first paragraph of this article.

.8 Contingency plan: the emergency plan, as described in section 1.7.3, shall be forwarded to the CSC designated representative with the prevention plan.

.9 Notice of opening of construction site: notice of opening of the construction site shall be transmitted to the Commission de la Santé et de la Sécurité du Travail (CSST) before the beginning of the work, with copy to the CSC designated representative. A copy of this notice shall also be displayed prominently on the site. During demobilization, a notice of closing of construction site shall be transmitted to the CSST, with a copy to the CSC designated representative.

.10 Engineering compliance plans and certifications: the contractor shall transmit to the CSST and the CSC designated representative a copy signed and sealed by a professional engineer of all compliance plans and certificates required under the Safety Code for the construction industry (S-2.1, r. 6), of another law, another regulation or another clause of the specification or contract. A copy of those documents shall be available at all times on site.

.11 Compliance certificate issued by the CSST: the compliance certificate is a document issued by the CSST confirming that the contractor is in status with the CSST, that he has paid all amounts due relatively to a given contract. This document shall be provided to the CSC designated representative at the end of the work.

1.4 Risk analysis

.1 The contractor shall proceed to identification of the hazards associated with each of the tasks carried out on the construction site.

.2 The contractor shall plan and organize the work so to promote collective protection and the elimination of hazards at the source and thus to minimize the use of personal protective equipment. When a personal protective equipment against falls is required, workers shall use a safety harness in accordance with CAN/CSA-Z-259.10-M90. The safety belt shall not be used as protection against falls.

.3 An equipment, a tool, or a means of protection which may not be installed or used without compromising the health and safety of workers or the public is deemed to be inadequate for the work to be performed.

.4 All mechanical equipment shall be inspected before their delivery to the site. Before the use of mechanical equipment, the contractor shall forward to the CSC designated representative a compliance certificate signed by a competent mechanic. The CSC designated representative may at any time, if it suspects a defect or a risk of accident, order the immediate stop of the equipment and require a second inspection by an expert of its choice.

1.5 Meetings

.1 A representative of the contractor with any decision power shall attend all meetings where it is question of health and safety on site.

1.6 Requirements of regulatory agencies

.1 To comply with all laws, regulations and all the standards that are applicable to the performance of the work.

.2 Respect the standards and regulations prescribed to ensure a normal course of work on land contaminated by hazardous or toxic substances.

.3 Notwithstanding the date of publication of the standards indicated in the safety code for construction work, one shall always use the version in force at the time where it applies.

1.7 Health and safety management

.1 Accept and assume all tasks and obligations normally attributed to the principal contractor under the Loi sur la santé et la sécurité du travail (R.S.Q., chapter S-2.1) and the Safety Code for the construction industry (S-2.1, r.6).

.2 Develop a prevention plan specific to the site which is based on the identification of risks and implement this plan at the beginning of the project up to the final stage of demobilization. It shall be conveyed to all concerned. The prevention plan shall include at least:

.1 The company’s health and safety policy.

.2 The description of the work, the total cost of the work, the schedule and the projected manpower curve.

.3 The organizational chart of responsibilities for health and safety.

.4 The physical and material organization of the site.

.5 First aid and treatment standards.

.6 The identification of the risks in regards with the site.

.7 The identification of risks in relation to the tasks performed, including preventive measures and modalities for implementation.

.8 Training required.

.9 The procedure in the event of accident/injury.

.10 The written commitment of all stakeholders to respect this prevention plan.

.11 A site inspection grid based on preventive measures.

.3 The contractor shall develop an effective emergency plan relative to the characteristics and constraints of the site and its environment. The emergency plan shall be transmitted to all concerned. The emergency plan shall include:

.1 Evacuation procedure.

.2 The identification of resources (police, fire, ambulance, etc.).

.3 The identification of the persons responsible on-site.

.4 The identification of first aiders.

.5 The training required for the persons responsible for its application.

.6 Any other information that can be required, taking into account the characteristics of the site.

1.8 Responsibilities

.1 Regardless of the size of the site or the number of workers present, designate a person competent as a supervisor and responsible for health and safety. Take all necessary measures to ensure the health and safety of persons and assets in situ and in the site immediate surroundings which can be affected by the conduct of the work.

.2 Take all necessary measures to ensure the implementation of and compliance with the health and safety requirements contained in the contractual documents, federal and provincial regulations, applicable standards and the site specific prevention plan, and comply without delay to any order or notice of correction issued by the CSST.

.3 Take all necessary measures to keep the site clean and orderly throughout the work.

1.9 Communication and display

.1 Take all necessary steps to ensure effective communication of information on health and safety on the site. Upon arrival at the site, all workers shall be informed of the peculiarities of the prevention plan, their obligations and their rights. The contractor shall insist on the right of workers to refuse work if they believe that this work may endanger their health, their safety, their physical integrity or those of other persons present on the site. It shall maintain on site and update a registry with the information transmitted and the signing of all workers who received this information.

.2 The following documents and information shall be displayed in an easily accessible place for workers:

.1 Notice of opening of the construction site.

.2 Identification of the principal contractor.

.3 The company OHS policy.

.4 The site specific prevention plan.

.5 The emergency plan.

.6 Safety data sheets for all controlled products used on site.

.7 Minutes of the meetings of the site committee.

.8 Name of the first-aiders.

.9 Intervention reports and notices of correction issued by the CSST.

1.10 Contingencies

.1 When a source of danger non-specified in the specifications and unidentifiable during the preliminary inspection of the site appears on the occasion of or in the performance of the work, the contractor shall immediately stop work, implement temporary protection measures for workers and the public and notify the CSC designated representative verbally and in writing. The contractor shall subsequently make the necessary changes to the prevention plan so that the work can resume safely.

1.11 Blasting

.1 Blasting and any other use of explosives are prohibited, unless they have been authorized in writing by the departmental representative.

.2 Any operation involving explosives must be carried out under the direct supervision of a certified blaster.

.3 The purchase, transport, storage and use of explosives shall comply with applicable federal and provincial laws:

1. Canada: Explosives Act (E-17), Explosives Regulations (C.R.C. CH. 599), Storage standards for industrial explosives, Transportation of Dangerous Goods Regulations.

.2 Québec: An Act respecting explosives (E-22), Regulation under the Act respecting explosives (E-22, r.1), Safety Code for the construction industry (S-2.1, r.6), Transportation of Dangerous Substances Regulation.

.4 The contractor shall obtain all permits required under the laws and regulations and keep an easily accessible copy on site.

.5 The contractor shall facilitate the visit of the site and explosives storage, and the inspection of vehicles used for their transportation to all police officers and government officials who have jurisdiction over matters of explosives.

1.12 Stud guns and other cartridge devices

.1 Stud guns and other cartridge devices are prohibited on the CSC property. Refer to section 01 35 13 – CSC safety.

1.13 Site safety

.1 Respect and enforce the safety requirements set out in section 8 of the National Building Code of Canada in force and the Construction Code (RBQ) or prescribed by the provincial government, the agency responsible for the regulation on work accidents or the municipal authorities, the more stringent requirements that prevail in the case of inconsistency or discrepancy between the codes requirements and those of the above-mentioned organizations.

.2 Before starting work and before receiving payment at the end of work, the contractor shall provide evidence that it complied with all the requirements with regard to the law on occupational health and safety, including pertaining payments.

.3 At any time for the duration of the contract, the contractor shall provide the professional, upon request, proof that itself and all its subcontractors respected the requirements of said Act.

.4 In addition, the **contractor is specifically considered the principal contractor** within the meaning of the Act, with regard to the health and safety on the construction site. As such, its obligations summarily expressed, but non-restrictive, are as follows:

.1 Ensure that a prevention plan is prepared.

.2 Transmit when appropriate the prevention plan to persons or units designated by the Act on occupational health and safety and related regulations.

.3 Transmit the notice of opening and of closing of the construction site to the CSST within the time limit and terms prescribed.

.4 To ensure that the prevention plan is applied.

.5 Ensure compliance of each employer in regards with the prevention plan (written commitment).

.6 Receive the orders of the Inspector.

.7 In all respects comply with the requirements of the Loi sur la santé et la sécurité au travail (L.R.Q., c. S-2.1) (LSST).

.5 The contractor is responsible for any possible work stoppage which follows an order of a CSST inspector. It shall reimburse the Owner any fine that it may be charged as a result of the failure of the contractor to comply with the requirements of the Act.

1.14 Overload

.1 Ensure that no part of the work is subject to a load likely to compromise its integrity or causing permanent deformation.

1.15 Temporary works

.1 Design and build temporary works in accordance with CSA S269.1.

1.16 Scaffolding

.1 Design and build the scaffolding in accordance with CSA S269.2 (m1).

1.17 Source control

.1 The contractor shall ensure that its prevention plan specifies methods of control at the source of emission of silica. It shall specify the protective equipment to be used. It shall ensure that the prevention plan includes training and information for workers exposed to silica-crystalline dust. The contractor shall:

.1 Identify all sources of silica dust emissions.

.2 Control dust emission by using tools with water supply or collect and contain them in a high efficiency filter so that they do not spread in the environment. In addition, it shall emphasize non-silica abrasives for blasting and sanding of surfaces.

.3 Define the hazardous work areas in order to keep at bay workers who do not participate in the tasks generating silica-crystalline dust and who do not wear the individual protection equipment required.

.2 Provide workers with respiratory protective equipment and ensure that they wear it.

.3 The contractor shall ensure that workers comply with the following instructions. A worker shall:

.1 Use appropriate equipment and follow the method advocated by the employer to control emission of silica-crystalline dust. It shall also wear the respiratory protective equipment, selected in accordance with the "Guide on respiratory protection equipment used in Québec (IRSST)" for the duration of the operations. When the selected respiratory protection equipment is equipped with a particle filter, it shall have a degree of efficiency of 99.97%.

.2 Wear a protective overall to prevent contamination outside the working area and remove dust deposited on the protection overall and the respiratory protective equipment with a damp cloth or a vacuum cleaner equipped with a high efficiency filter.

.3 Eat and drink outside the dusty zone. It shall also wash its hands and face before eating, drinking and smoking.

.4 Clean surfaces and tools with water. The use of compressed air is prohibited.

1.18 Fire safety plan

.1 The requirements of section 8 of the CCQ (Construction Code), as well as the NFC (National Fire Code) will apply for the entire project.

.2 Before the beginning of the work, the contractor shall submit a fire safety plan complying with the regulations in force. The general contractor shall present to the Owner and the City fire department the methods and measures its plans to undertake to meet the codes requirements and particularly the articles and the following sections, without limitation:

.1 Section 2.8 NFC latest edition (Emergency planning).

.2 Section 5.2 NFC latest edition (Hot works).

.3 Safety Code for the construction industry, R.R.Q. c. S-2.1, r6.

.3 Everything shall be subject to approval of the fire service and the Owner. Any changes or adjustments to the measures will be at the expense of the general contractor.

PART 2 – PRODUCTS

NOT APPLICABLE

PART 3 – EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 Information and clarifications

.1 Any request for clarification or additional information concerning fire safety guidelines shall be sent to the head of the fire department of the Owner or of the municipality, who will respond in an appropriate manner.

1.2 Inspections carried out by the head of the fire department

.1 Inspections of the site by the head of the fire department will be coordinated by the project manager.

.2 The head of the fire department shall be allowed free access to the site.

.3 Collaborate with the head of the fire department during periodic inspections of the site.

.4 Immediately correct any situation deemed dangerous by the head of the fire department.

1.3 Knowledge of the fire safety plan e

.1 Contractors and their employees shall be familiar with the fire safety guidelines stated in this section, as well as the requirements that shall be met in this regard.

1.4 Statement of the fire department

.1 The project manager shall take the necessary steps so that the head of the fire department of the Owner or of the municipality can convey fire safety instructions to the contractor at the meeting preceding the beginning of the work.

1.5 How to report a fire

.1 Plan a meeting with the Director of the establishment or its designated representative to obtain knowledge of the procedures to follow in case of fire. Discuss and establish all "special" measures to undertake for the entire duration of the work.

1.6 Fire alarm systems (interior and exterior)

.1 Alarm and fire protection systems shall in no case:

.1 Be obstructed.

.2 Be closed.

.3 Be left out of service at the end of a period or of a day's work without notifying the head of the fire department or its representative and obtaining its authorization.

.2 Unless authorized by the head of the fire department, fire hydrants and sprinkler, standpipe or hose systems shall not be used for purposes other than firefighting.

1.7 Extinguishers

.1 The contractor shall provide, according to the directives of the head of fire department, the extinguishers necessary to protect the work in progress and the facilities on the site in case of emergency.

1.8 Obstruction of roadways

.1 The head of the fire department shall be informed in advance of the execution of any work that may interfere with the movement of fire vehicles, of any derogation from the minimum clearance required and prescribed, of the setting of barricades and of the performance of work.

1.9 Waste and scrap

.1 Accumulate as little waste and scrap as possible.

.2 Unless otherwise authorized by the CSC designated representative, it is forbidden to burn material waste on site.

.3 Disposal of waste and scrap

.1 Remove off the site all material waste at the end of each day, each work period or according to the prescribed intervals.

.4 Storage

.1 The storage of waste or oily materials in work areas shall require specific attention to ensure maximum safety and cleanliness.

.2 Rags and greasy or oily materials that may ignite spontaneously shall be disposed and kept in approved containers, then evacuated according to the defined rules.

1.10 Flammable liquids

.1 Flammable liquids shall be handled, stored and used in accordance with the NFC requirements.

.2 May be kept on site up to 45 litres of gasoline, naphtha, kerosene or other flammable liquids, provided that they are kept in approved containers bearing the Underwriters Laboratories of Canada (ULC) or Factory Mutual certification. The storage of more than 45 litres of flammable liquids for the performance of certain work shall be approved by the head of the fire department.

.3 It is forbidden to transfer flammable liquids inside buildings or on loading platforms.

.4 It is forbidden to transfer flammable liquids near open flames or any heat generating device.

.5 Flammable liquids with a flashpoint exceeding 38°C, e.g., naphtha or gasoline, shall not be used as diluents or cleaning products.

.6 Shall be kept on site as little used flammable liquids as possible; they shall be stored in approved containers and be stored in a safe, well-ventilated place. Any request for disposal of those products shall also be submitted to the fire of the establishment.

1.11 Hazardous material

.1 All work requiring the use of toxic or dangerous material, chemicals or explosives, or presenting any risk whatsoever for life, safety or health shall be executed in accordance with the requirements of the NFC.

.2 A permit shall be obtained from the head of the fire department for work requiring the use of a heat source in buildings or facilities, such as welding, burning or the use of heat gun or heat-generating devices. It is important to take all necessary precautions to protect people and assets against any risk of fire or explosion.

.3 All work requiring the use of a heat source in places where there is a risk of fire or explosion shall be performed in the presence of fire protection officers equipped with appropriate suppression equipment. The head of the fire department will delineate the areas where there is risk of fire or explosion, and define safety measures to be taken in each case. It is the responsibility of the contractor to retain the services of a fire protection officer at the site, according to the procedures set out in advance with the head of the fire department.

.4 Adequate ventilation shall be ensured and all sources of ignition shall be eliminated when flammable liquids such as paints and urethanes are used. The head of the fire department shall be informed of the use of such products before the beginning and at the end of the work concerned.

1.12 Area dedicated to fire vehicles

.1 Respect, at all times, the areas reserved for fire vehicles, along the existing building.

PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 Requirements

.1 In addition to General instructions, the contractor shall comply with the requirements of this section.

1.2 Section contents

.1 Inspections and tests, administrative and operational requirements.

.2 Tests and dosage formulations.

.3 Works samples.

.4 Factory tests.

.5 Setting and calibration of equipment and systems

1.3 Related sections

.1 Section 01 33 23 – Shop drawings, data sheets and samples: submission of product samples to establish their quality.

.2 Section 01 61 00 – General requirements for products: quality of the materials, equipment and performance of the work; reference standards.

1.4 Inspection

.1 The Owner and the professionals shall have access to the works. If a part of the works is carried out offsite, ensure access throughout the execution of the works.

.2 In the case where the works shall be subject to special tests, inspections, and approvals required by the professional or laid down in the rules of the site, make the request within reasonable time.

.3 If the contractor has covered or allowed to cover a work until it was been submitted to inspections, approvals or required tests, it shall uncover the work in question, have the test or inspection done to the satisfaction of the competent authorities, then put the work back in its initial state.

.4 The professional may order the inspection of any part of works whose compliance with the contractual documents seems dubious. If, after examination, the work in question is declared non-compliant with the requirements of the contractual documents, the contractor shall take the measures required so to make the work meet the specified requirements, and assume the costs of inspection and repair. If the work is declared compliant with the requirements of the contractual documents, the Owner will assume the costs of inspection and rehabilitation.

PART 2 – PRODUCTS

NOT APPLICABLE

PART 3 – EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

All the site facilities shall be submitted and approved by the Director of the establishment or its designated representative.

1.1 Section contents

.1 This section addresses without limitation, the temporary installations required on site, the layout of the site office, storage, as well as the site-specific signage.

1.2 Related sections

.1 Additional general conditions, section 01 00 50 – General instructions.

1.3 Installation and removal of material

.1 Provide, set up or develop the site facilities necessary to allow execution of work in the shortest time.

.2 Disassemble the equipment and remove from the site when no longer needed.

1.4 Scaffolding

.1 Provide scaffolding, ramps, ladders, swing scaffolds, platforms, temporary stairs and other required equipment necessary for the performance of the work, and ensure maintenance.

1.5 Lifting equipment

.1 Provide and install hoists and cranes needed to the movement of workers, of equipment and materials, and ensure the maintenance and operation. Negotiate the necessary financial arrangements with subcontractors for the use of lifting equipment.

.2 The operation of hoists and cranes shall be entrusted to certified workers.

1.6 Onsite storage – Allowable loads

.1 Ensure that the work is performed within the limits shown in the contractual documents. Do not clutter areas unreasonably with equipment and materials.

.2 Do not overload or allow overloading of any part of the work so to not jeopardize its integrity.

.3 Provide and install a weather-proof container to store materials, tools and equipment that can be damaged.

.4 The location of the containers will be determined by the Owner and the engineer.

1.7 Access roads

.1 The Director of the establishment will identify parking areas authorized for the vehicles of the construction workers. Parking in other areas will be prohibited and the offending vehicles may be towed.

.2 Build suitable approaches to the construction site and ensure maintenance.

.3 Construct temporary roadways in locations indicated by the CSC designated representative, and ensure snow removal throughout the works.

.4 If it is permitted to use existing roads to access the site, ensure their maintenance for the duration of the works and, if necessary, repair any damage that may occur.

.5 Clean the tracks and roadways which have been used by the contractor equipment and vehicles.

1.8 Safety measures

.1 For safety reasons, any container shall be placed at more than 5 metres of buildings unless it is equipped with a metal, watertight, closing lid which shall be locked every night and at every work stoppage.

1.9 Contractor site office

.1 Install an office: ventilated, heated to a temperature of 22°C, equipped with lighting ensuring a lighting level of 750 lux and of sufficient size to allow holding site meetings, and include a table for the sprawl of drawings.

.2 Provide complete and clearly identified first aid kit and store it in an easily accessible location.

.3 If necessary, subcontractors can install their own office. Shoe them where they can set it.

1.10 Sanitary facilities

.1 The general contractor shall provide on-site the sanitary facilities required to serve all the construction workers.

.2 Ensure the zone and toilets cleanliness at all time.

1.11 Signage

.1 Install in appropriate places signposts indicating the limits of the construction site, direction to exits relocated temporarily or other relevant information.

.2 In the three weeks following the signing of the contract, provide a project site sign and install it at the place designated by the consultant.

.3 The sign shall measure 1200 mm x 2400 mm, be made of plywood with wood-frame and show a listing produced by a specialist in lettering.

.4 The sign surfaces shall be covered with one coat of print paint and two layers of enamel paint.

.5 The inscriptions on the sign will be made with self-adhesive vinyl laminate.

.6 On the sign, shall be indicated the names of the Owner, the consultant and the contractor; the stylized lettering used shall comply with the instructions.

.7 Aside from warning signs, no other sign nor any other poster can be installed onsite.

.8 Install the site sign at the place designated by the engineer.

.9 Maintenance and removal of site signs

.1 Maintain the signs and notices approved in good condition for the duration of the works and remove them from the site once the work is completed, or earlier if requested by the engineer.

1.12 Equipment for service, temporary protection and site delimitation

.1 Provide, install and maintain in operation all service and temporary protection equipment such as lifts, stairs, ladders, scaffolding, ramps, hoists, etc., necessary for the efficient performance of the work in accordance with the laws and regulations of the Quebec Safety Code and designed to ensure the best protection possible.

.2 Provide, install and maintain operation of portable torches or flashing lights in places where there are ramps, obstructions in roadways, sidewalks or pathways.

1.13 Electricity, water supply and temporary heating

.1 The general contractor shall, during the time of construction, fill its needs and needs of the subcontractors and of any trades by supplying: lighting, electricity, water and heating, and assume the costs of installation, maintenance and consumption.

1.14 Scaffolding

.1 Build safe, rigid, solid and well-anchored scaffoldings and maintain them.

.2 Scaffolds shall not be supported on walls; they shall be removed promptly when you no longer needed. Refer to section 01 35 30 - Health and safety for the security measures concerning scaffolding.

1.15 Removal of temporary installations

.1 Remove from the site all temporary facilities when the professional deems it appropriate.

1.16 Temporary works

.1 In accordance with the requirements of the drawings and specifications (Section 01 35 30 - General Instructions), perform all temporary works necessary for the full realization of the project.

1.17 Protection of the public and private properties nearby

.1 Protect public and private properties nearby against any damage that may result from the execution of the work.

.2 Where appropriate, assume full responsibility for damage.

1.18 Protection of the finished surfaces of the building

.1 Throughout the duration of the work, protect the work equipment and surfaces completely or partially finished.

.2 Provide the necessary screens, tarps and fences.

.3 Three days before the installation of the protection elements, confirm with the engineer the location of each as well as the installation timetable.

.4 Assume full responsibility for all damage caused to the works due to a lack of protection or inappropriate protection.

1.19 Air flow on construction sites

.1 Reduce and control dust emission in the ambient air.

.2 Ambient air of work areas shall be exhausted outside the building and discharge outlets shall be installed far from the building air supply systems.

PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 Requirements

.1 The contractor and its subcontractors will work to protect the environment.

.2 Comply with environmental standards to dispose of waste, products, materials and obtain the necessary permits (municipal, provincial, and federal).

.3 The contractor shall, based on regulations, store and dispose properly of hazardous materials.

1.2 Fires

.1 Fires and the burning of waste are prohibited on the site.

1.3 Waste disposal

.1 Except when expressly authorized by the CSC designated representative, it is prohibited to bury the waste and construction waste on the site.

.2 It is prohibited to dispose of waste materials or volatile materials such as mineral spirits and oil or paint thinners, by discharging them into watercourses, storm sewer or sanitary sewer.

1.4 Pollution prevention

.1 Maintain the temporary facilities to prevent erosion and pollution, and installation according to this contract.

.2 Ensure the control of gases produced by the equipment and facilities, in accordance with the requirements of local authorities.

.3 Build temporary shelters to prevent sanding materials and other foreign matter from contaminating the air beyond the working zone.

.4 Spray dry materials and cover the waste to prevent wind to raise dust and move debris. Remove the dust on the temporary roadways.

PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 General

.1 Unless otherwise indicated, use new materials and equipment free of flaw or defect, of the required quality bearing approval labels of CSA, ULC, FM, according to specialties.

.2 Within **seven** days after receipt of the engineer written request, submit the following information relative to the materials and equipment to be provided:

.1 The name and address of the manufacturer.

.2 The trademark and model and catalog numbers.

.3 Data sheets and test results.

.4 The manufacturer's instructions relating to the installation and the application.

.5 The evidence supporting the acquisition process.

.3 Unless otherwise indicated, use the products of a single manufacturer in the case of materials and equipment of the same type or same category.

1.2 Manufacturer’s instructions

.1 Unless otherwise indicated, comply with the latest written instructions of the manufacturer concerning materials and equipment to be used and installation procedures. In the event of inconsistency, the recommendations of the manufacturer shall apply.

.2 Notify the professional in writing of any discrepancy between this specification and the manufacturer's instructions; the professional will determine what document shall be used.

1.3 Delivery and storage

.1 Materials and equipment shall be delivered, stored, and kept in their original packaging so that the manufacturer's seal and label remain intact.

.2 Ensure that materials and equipment are not damaged, altered or soiled during shipping, handling and storage. Transport offsite without delay the materials and equipment denied.

.3 Store materials and equipment in accordance with instructions from the suppliers.

.4 Touch up damaged factory finished surfaces to the satisfaction of the engineer. Use primer or enamel, identical to the original finish. Do not paint the nameplates.

1.4 Selection of material by the contractor for tender purposes

.1 If materials are prescribed by reference to a standard, choose any material that meets the requirements of this standard, or which exceeds.

.2 If the material shall appear on the list of qualified products published by the Canadian General Standards Board, choose one of the manufacturers which are listed therein.

.3 If material are prescribed under the terms of a technical specification or a performance specification, choose any material that meets the requirements of the specifications, or which exceeds.

.4 If material are prescribed by designation of one or several brands, choose one of the designated brands. For the purpose of this specification, 'acceptable material' means a product complete and ready for use, according to the description given by a manufacturer name, catalog number, a trademark or any combination of these elements.

.5 If materials are prescribed pursuant to a standard, a technical specification or a performance specification, at the professionals' request, obtain from the manufacturer the report of an independent testing laboratory certifying that the material or equipment meet the prescribed requirements or exceed.

1.5 Substitution

.1 In addition to the requirements of the General conditions, any request for substitution or equivalency of material shall be submitted for approval of the owner. When such a request is made by the contractor, it is its responsibility to demonstrate the equivalence and assume the costs.

.2 Alternative proposals may be submitted only after the award of the contract. Applications shall be accompanied by a breakdown of the respective costs of the items prescribed in the specifications and of those proposed as substitutes.

.3 The professional will take those requests into consideration only if:

.1 The material chosen by the tenderer, among those prescribed in the specifications are not available; or if

.2 The date of delivery of the material selected from those prescribed in the specifications unduly delays the work, provided, however, that the contractor has done due diligence to place purchase orders for material in a timely manner; or if

.3 The material proposed as substitutes are deemed by the professional as being the equivalent of the prescribed products and if their use results in a decline in the price of the contract.

.4 The products offered meet in all respects the technical characteristics, finishes, dimensions, clearances, pit depths and clear spans of the reference product.

.5 For all requests for equivalency, an actual size sample shall be provided on the project site or at a location determined by the professional, for analysis of the product by the professionals and the Owner.

.4 If the proposed substitution is accepted in whole or in part, assume full responsibility and costs that this substitution can bring on other works. Assume the cost of the changes to the drawings as a result of this substitution.

.5 Notwithstanding the checking of shop drawings of the products accepted by the professionals, assume full responsibility of substitution and product replacements and changes to be made if it turns out that the products are not completely equivalent, at the level of the technical characteristics, finishes, dimensions, clearances, and clear spans.

.6 All the savings resulting from approved substitutions will be credited according to the amount fixed by the engineer and the contract price will be reduced accordingly. This credit will be processed through a change order. No substitutions will be permitted until the engineer issues its written approval.

.7 No substitution shall replace a product manufactured in Québec by a product made outside Québec.

1.6 Construction equipment and facilities

.1 Upon request, demonstrate to the satisfaction of the professional that the construction equipment and facilities have sufficient capacity to manufacture, transport, set up and complete the required works according to the standards of quality and productivity required. Otherwise, replace equipment or existing facilities, or supply and install equipment or additional facilities necessary, according to the received instructions.

.2 Maintain the construction equipment and facilities in good service condition.

1.7 Material compatibility

.1 The contractor shall ensure prior to their installation or application of the compatibility of materials that shall overlap to the building.

.2 Materials that can cause harmful chemical or electrolytic reactions shall be separated by other insulating materials or neutralizing vinyl, butyl or neoprene or another approved material.

.3 Materials such as glues, adhesives, adhesive cement, formwork oil, primer coating, ripening agent, and other similar materials, etc., shall be fully effective and shall not affect the adhesiveness of juxtaposed materials and the quality of the finished work.

.4 Materials used in a protection system or several layers finish such as membranes, paints, synthetic finishes shall be compatible; they shall come from the same source, except where otherwise prescribed.

.5 The contractor has the obligation to ensure the compatibility of all materials, including filling materials for control joints and other openings to seal in concrete with leveling materials and those used for flexible floor coverings, tiles and sheets.

PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 Section contents

.1 Requirements for cleaning during on-going work and for final cleaning required prior to the takeover by the Owner.

1.2 Related sections

.1	General instructions	Section 01 00 50
.2	Management and disposal of construction waste	Section 01 74 19

1.3 Site cleanliness

.1 Keep the site clean and remove any buildup of debris and material waste.

.2 Remove debris and material waste offsite and place them in waste containers at the end of each work period.

.3 Clean interior surfaces prior to beginning the finishing work and keep those areas free of dust and other impurities during the work.

1.4 Final cleaning

.1 When the work is almost entirely completed, remove excess materials, tools and equipment, and construction materials and equipment that are no longer needed in the performance of the unfinished work.

.2 Remove debris and material waste other than those generated by the Owner, other contractors or their employees, and leave the premises clean and ready for occupation.

.3 Upon completion of the work, remove excess materials, tools and equipment, and construction materials and equipment. Remove debris and material waste other than those generated by the Owner or other contractors.

.4 Remove material waste offsite at predetermined fixed intervals or dispose of them according to the professional’s guidelines. Do not burn material waste onsite, unless expressly approved by the architect.

.5 Make the required arrangements and obtain permits from the competent authorities for the disposal of debris and material waste.

.6 Sweep the work surfaces prior to the site inspection.

.7 Clean and polish glass, mirrors, hardware, wall tiles, chrome and enamelled surfaces (oven-dried), and stainless steel, porcelain, and laminate surfaces. Remove dust in electrical and mechanical equipment with a vacuum cleaner. Replace any broken, scratched or damaged glass.

.8 Remove dust and stains, marks and scratches observed on decorative works, mechanical and electrical equipment, items of furniture, walls, floors and ceilings.

.9 Dust the inside surfaces of the building and vacuum; do not forget to clean behind grids, louvers and registers.

.10 Wash, soap, wax, seal or treat in any other manner the flooring, according to the manufacturer's instructions.

.11 Observe the finishes, accessories and equipment to ensure that they meet the requirements prescribed in the quality of workmanship and for operation.

.12 Sweep and clean the sidewalks, stairs and other exterior surfaces.

.13 Remove dirt and other elements that spoil exterior surfaces.

.14 Clean and sweep the roof, gutters, downspouts and drains and outfalls.

.15 Clean the mechanical conduits in ceiling space. Remove all dust residue that has accumulated on equipment and mechanical ducts during the construction.

.16 Thoroughly clean the equipment and devices, and clean or replace the mechanical device filters.

PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 – GENERAL

1.1 Objectives for waste management

.1 This section defines the requirements for this project management and disposal of waste. It covers the demolition and construction work.

.2 The objective of waste management is to reduce the total amount of construction/demolition waste which will be transported to the landfill in the framework of this project.

.3 The contractor shall define and implement a waste management plan whose objectives, approaches and methods will be submitted to and reviewed by the professional appointed.

.4 The contractor shall also provide the designated professional with documents certifying that the measures and procedures for waste management, recycling, reuse/reuse of recyclable and reusable materials have been implemented.

.5 Protect the environment and prevent pollution and environmental impacts.

1.2 Definitions

.1 Waste: in Quebec, the Environment Quality Act incorporates the term of waste rather than residual matter. This term means any residue, dangerous or not, and incorporates the notion that waste can be reused for other purposes. It can be reused or revert to feedstock, rather than finish its life in a landfill site.

.2 Recycling: operations comprising sorting, cleaning, treatment and recovery of waste solids and other materials or material waste, intended to promote the use of those in a different form of their original state. Recycling does not include combustion, incineration or thermal destruction of waste.

.3 Recovery/reuse: repeated use of a product or material in its original form to a different use in the case of recovery, and a similar use in the case of reuse. Recovery/reuse includes:

.1 Recovery products and materials that can be recycled/reused, generated by works of modernization of a structure or a work, before their demolition, for the purposes of resale, reuse, their re-employment within the same project or even their storage for future use.

.2 Return to suppliers of products and materials that can be recycled/reused.

.4 Reclamation: removal of construction components and materials during deconstruction work and dismantling of structures for their recovery/reuse or recycling.

.5 Waste management plan: document in which is described the sorting activities planning, onsite or offsite, of reusable/re-usable and recyclable waste, to ensure the collation in the appropriate categories. It involves, inter alia, planning how waste will be managed, where to position the containers, which materials are accepted, how to inform the workers, how to manage contamination and provide information on the processes and pathways of material waste up to their final destination, etc.

.6 The waste management coordinator: representative of the contractor responsible for the supervision of the waste management plan, activities related to the management of waste on site, the dissemination of information to stakeholders on the management plan. Others shall be also designated among the staff of each subcontractor to ensure the coordination of the waste management with the coordinator. The coordinator is also the person responsible for the follow-up to perform and the documents to submit to the designated professional.

.7 Sorted waste: waste already classified by type.

1.3 Visit of the site

.1 Preliminary visit: bidders shall make a detailed tour of the construction site before submitting their tender.

1.4 Documents

.1 Keep onsite a copy of each of the following documents:

.1 Waste management plan.

1.5 Use of the premises and facilities

.1 Perform the work with as little disturbance to the normal use of the premises as possible.

.2 Implement the temporary safety measures approved by the professional.

1.6 Documents and samples for submission

.1 Submit the documents/samples required in accordance with the requirements of Section 01 33 23 – Shop drawings, data sheets and samples.

.2 Prepare and submit two copies of the waste management plan before the beginning of the work.

.3 The designated professional will not issue the provisional completion certificate until all the documents required in this section have not been submitted, reviewed and accepted by the designated professional.

1.7 Waste management plan

.1 Prepare the waste management plan before the beginning of the work.

.2 The waste management plan shall include:

.1 A description of the waste sorting method that will be used: either sorting onsite or sorting offsite, and explain how this method shall be implemented.

.2 A description of the facilities necessary to collect, handle and transport waste, and specify the exact location of those facilities on the site as well as the signage that will be used to ensure the sorting.

.3 Security and protection measures.

.4 The details relative to the handling and removal of waste.

.5 The final destinations of the waste sorted with the description of the companies concerned: address, activities, operations, and proof of receipt of this site material waste.

.3 Waste must be collected, handled and removed either already sorted or to be sorted on an independent site.

.4 Waste can be collected, handled and stored on the site and then sold already sorted to individuals for recovery/reuse or to recycling sites operated under a certificate of approval.

.5 Waste collected in one single container (sorting offsite) shall be sent in specialized sorting centres. The contractor shall inform, through its management plan, the designated professional of agreement(s) negotiated with the sorting centres. Centres shall provide evidence of receipt of waste products from this site (delivery notes, weighing ticket) as well as final destinations of sorted materials.

.6 The waste management plan shall be posted on the site, or a summary of the plan, at a place where workers can become aware of it.

1.8 The waste management coordinator

.1 Waste management coordinator shall:

.1 Plan and prepare the waste management plan.

.2 Supervise the installation of the construction equipment, the implementation of the plan and ensure its monitoring and supervision.

.3 Be continually present onsite to supervise construction stakeholders, answer workers inquiries, coordinate and track containers of construction/demolition waste as well as the collection of the information necessary for the preparation of the final summary.

.4 Take all appropriate measures to avoid any contamination of containers for sorting of waste. (Recycling and recovery streams refuse containers contaminated with other waste than those specified or additional fees are charged.)

.5 Provide on-site facilities to collect, handle, and store the projected quantities of reusable and/or recyclable waste without inconvenience to the construction activities.

.6 Regularly remind contractors and workers, the importance of preventing contamination of the premises by fuels, oils or other hazardous chemicals.

.7 Plan and facilitate training sessions for the construction workers to ensure proper sorting of waste in the appropriate containers.

.8 Provide the appropriate number of containers for the estimated quantities of waste and plan the frequency of pick-ups.

.9 Use several small mobile containers (bins) to facilitate the sorting and recycling of cardboard, metals, concrete, bricks, asphalt, wood, plastics, glass, gypsum, and drink containers on the site.

.10 Clearly identify the content acceptable to each container or bin to facilitate the sorting of construction waste and avoid contamination.

.11 Ensure follow-up with the designated professional and the collection of information relating to the management of waste.

.2 On the site, the waste management coordinator shall:

.1 Monitor the transport to verify the delivery of waste to suitable facilities.

.2 Receive a copy of the weighing tickets, sorting slips, invoices and keep them as evidence.

1.9 Contract with subcontractors

.1 The contract between the subcontractors and the general contractor is the implementation and awareness basic tool to achieve the objectives of the management of construction waste.

.2 The main difficulty of the waste management will be to modify the behaviour of all workers and stakeholders on the site.

.3 The general contractor shall use a contractual form with subcontractors to ensure the smooth running of the waste management.

1.10 References and useful Internet links on the treatment of waste

.1 http://www.mddep.gouv.qc.ca/matieres/valorisation.htm#debris

Documentation available:

.1 Factsheet: “Waste from construction, renovation and demolition”.

.2 Guide on dry materials recycling.

.2 RECYC-QUÉBEC, 7171, rue Jean-Talon Est, bureau 200, Anjou (Québec) H1M 3N2, 514 352-5002. http://www.recyc-quebec.gouv.qc.ca

.3 Canadian Environmental Protection Act, 1999.

.4 Environment Quality Act and its regulations.

.5 Politique québécoise de gestion des matières résiduelles (1998-2008).

.6 The Environmentally Responsible Construction and Renovation Handbook (PWGSC).

.7 http://www.3rmcdq.qc.ca/

.8 http://www.cca-acc.com

1.11 Disposal of waste

.1 It is prohibited to bury debris and waste on the site.

.2 It is illegal to dispose of waste, mineral spirits, oil, or paint thinner in watercourses, sanitary sewer and storm sewer

1.12 Storage, handling and protection of materials

.1 Store in locations designated on the site the materials to be reused, recycled or recovered.

.2 Unless otherwise indicated, materials that shall be removed become property of the contractor.

.3 Protect, pile, store and catalog the waste collected.

.4 Separate non-recoverable waste from recoverable waste. Transport and deliver non-recoverable waste to authorized disposal facility.

.5 Support the works affected by the work. If the safety of the building may be compromised, stop work and then notify immediately the engineer.

.6 Protect the surface water discharges as well as electrical and mechanical installations to ensure that they are not damaged or clogged.

1.13 Work schedule

.1 Coordinate the waste management with other activities to ensure the orderly conduct of the work.

PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

3.1 General

.1 Perform the work in accordance with the waste management plan.

.2 Handle waste which are not reused, recovered or recycled in accordance with codes and regulations.

3.2 Cleaning

.1 Once work is completed, remove the tools and waste; leave the premises clean and tidy.

.2 Clean the work area as it progresses.

.3 Sort at the source materials that shall be reused/recycled and place them at the designated places.

3.3 Materials to recover and send to recovery sites

.1 Sort materials from the general waste and put them in separate piles or in separate containers, with the approval of the engineer, and in accordance with the relevant fire safety regulations. Identify containers or stockpile areas. Provide instructions concerning disposal practices.

.2 The sale of recovered materials onsite is prohibited.

.3 Construction materials: the following material waste shall be sorted, placed into separated containers and transported to recovery sites for recovery purpose.

.1 Steel (structure and other metal elements).

.2 Masonry.

.3 Cardboard.

.4 Gypsum.

.5 Wood.

END OF SECTION

PART 1 – GENERAL

1.1 Section contents

.1 Project file, samples and specifications.

.2 Material and apparatus.

.3 Data sheets, materials, material and finish products, and related information.

.4 Sheets and operation and maintenance manuals.

.5 Replacement material/equipment, special tools and spare parts.

.6 Guarantees.

.7 Final survey certificate.

1.2 Related sections

.1	Work schedule	Section 01 32 16
.2	Shop drawings, data sheets and samples	Section 01 33 23

1.3 Documents and items to provide

.1 The instructions shall be prepared by competent persons, with the know-how required for the operation and maintenance of the products described.

.2 Submit a copy of the manuals in their final forms, seven days before provisional acceptance.

.3 Submitted copies will be returned accompanied by the comments of the engineer.

.4 If necessary, review the content of the documents before submitting again.

.5 One week before the substantial completion of the work, submit to the engineers, three final copies of operation and maintenance manuals.

.6 In addition to the information contained in this section, refer to the engineers documents for requirements and contents of manuals to handover.

1.4 Presentation

.1 Present the data in the form of an instruction manual.

.2 Use rigid binders, in vinyl, with three D-rings, loose-leaf format of 219 mm x 279 mm.

.3 When several binders are needed, aggregate data in logical order. Indicate the contents of the binders on the spine of each.

.4 On the cover page of each binder shall be indicated the designation of the document, i.e. - project file, typed or in block letters, the title of the project as well as the table of contents.

.5 Organize the content according to the specification sections' numbers and the order in which they appear in the table of contents.

.6 Provide, for each product and each system, a tab separator on which shall be typed the product description and the list of the equipment main parts.

.7 The text shall consist of printed data supplied by the manufacturer or typed data.

.8 Provide drawings with a strengthened and perforated tab. Insert them into the binder and fold the large drawings in the format of text pages.

1.5 Contents of each volume of the final project file

.1 Table of contents: indicate the title of the project.

.1 The deposit date of documents.

.2 The name, address and telephone number of the professional and the contractor as well as the name of their authorized representatives.

.3 A list of products and systems, indexed as per the content of the volume.

.4 The list of subcontractors and their coordinates.

.2 For each product or system, indicate the following:

.1 The name, address and the number of subcontractors and suppliers.

.2 The name of the project stakeholders.

.3 The name of the local distributors of spare parts.

.3 Data sheets: Mark each sheet so to clearly identify the products and specific parts and installation data. Delete all non-relevant information.

.4 Drawings: drawings are used to complement the data sheets and illustrate the relationship between the different elements of the equipment and systems. They include control schedules and schematics diagrams.

.5 Typed text: as needed, to complete the datasheets. Give instructions in a logical order for each intervention, incorporating manufacturer's prescribed instructions.

.6 The following data specified in the individual chapters of Divisions 05, 09 and 10.

.1 The list of equipment, including service centre.

.2 The information appearing on the nameplate such as the equipment number, the trademark, dimensions, capacity or power, and serial number.

.3 The list of parts.

.4 Details of the installation of the equipment.

.5 The instructions for the operation of the equipment.

.6 Instructions for maintenance of the equipment.

.7 Instructions for maintenance of the finishes.

.7 Divide the volumes by specialty, if applicable: architecture, structure, outdoor layout, mechanical, electrical, etc.

.8 Refer to the engineers documents for the distribution of volumes.

.9 Administrative information: include the following:

.1 Certificate of compliance with the Act and regulations on energy efficiency.

.2 Certificate of conformity issued by Commission de la Santé et de la Sécurité au Travail.

.3 Good standing certificate issued by the Commission de la Construction du Québec.

.4 Statutory declaration to be executed by the contractor and to accompany its application to release the withholding, the security deposit or both, upon substantial completion or full completion of work.

.5 The receipts of the subcontractors and suppliers.

.6 Test or inspection report.

.7 Guarantees requested in each section.

.8 An acknowledgement on the part of the Owner for all keys, all key boxes or other items delivered directly to the Owner.

.9 A list of used colours (colors schedule) and paint products.

.10 Maintenance guidelines concerning surfaces and required materials.

.10 Shop drawings

.1 Bind separately a complete set of revised final shop drawings and data sheets.

.11 The list of special tools to provide to the Owner.

.12 The list of spare parts to provide to the Owner.

.13 An inventory of replacement materials handed over to the Owner with an acknowledgement of receipt of those products.

.14 The "as built" drawings, on which were recorded the actual conditions of the site, such as described in the article 1.7 below.

1.6 Documents and samples to fill in the project file

.1 In addition to the requirements set out in the General Conditions, keep onsite, for the Owner, a copy or a set of the following documents:

.1 Contractual drawings.

.2 Specifications.

.3 Addenda.

.4 Change orders and other amendments to the contract.

.5 Revised shop drawings, data sheets and samples.

.6 Records of the tests carried out on the site.

.7 Inspection certificates.

.8 Certificates issued by manufacturers.

.2 Store documents and samples of the project file in the site office, separately from the documents used for the work. Provide file cabinets and shelves as well as a secure storage place.

.3 Label the documents and classify them according to the list of the sections' numbers indicated in the table of contents of the project file. Identify clearly - **Register Project**, in block print, on the label of each document.

.4 Keep the documents of the project file clean, dry and readable. Do not use as a work execution documents.

.5 The professionals shall have access to the documents and samples of the project file for inspection purpose.

1.7 Recording of the construction conditions

.1 Record the information on a set of opaque drawings in black lines and in a copy of the project file provided by the Owner. The contractor shall provide, at the end of the work, two sets of corrected drawings.

.2 Record the information using felt tip markers with a different color for each important system.

.3 Record the information as the work progresses. Do not conceal the works before required information have been recorded.

.4 Contractual drawings and shop drawings: clearly mark each data, so to show the works as they are, including the following:

.1 The measured depth of foundations from the level of the finished first floor.

.2 The location, measured in horizontal and vertical views of utility lines and underground accessories compared to permanent facilities on the surface.

.3 The location of utility lines and interior accessories, measured against visible and accessible building elements.

.4 Changes made on the site as to the dimensions and details of works.

.5 The changes made following change orders.

.6 Details that do not appear on the original contractual documents.

.7 References to shop drawings and related changes.

.5 Specifications: identify clearly each data so to describe the works as they are, including the following:

.1 The manufacturer's name, trademark and each actually installed product catalog number, including optional elements and replacement elements.

.2 Changes treated in addenda or change orders.

.6 Other documents: keep the certificates of the manufacturers, inspection certificates, records of tests performed on the site in each of the technical sections of the specifications.

1.8 Equipment and systems

.1 For each piece of equipment and for each system:

.1 Give a description of the device or system and its constituent parts.

.2 Indicate its function, and the constraints and normal operating characteristics.

.3 Give the characteristic curves, with technical data and the results of the tests.

.4 Give the full list as well as the commercial number of parts that can be replaced.

.2 Provide lists of the electrical supply and distribution systems, with an indication of the electrical characteristics, control circuits and telecommunication circuits

.3 Provide installed material color coded wiring diagrams.

.4 Methods of operation: indicate the instructions and sequences of commissioning, running and normal operation, control, control, shutdown, decommissioning and relief; operating in summer and winter and any other particular instruction.

.5 Maintenance: provide instructions concerning the routine maintenance and search for faults as well as instructions on disassembly, repair and reassembly, alignment, setting, calibration and checking of elements and networks.

.6 Provide maintenance and lubrication schedules as well as the list of necessary lubricants.

.7 Provide written instructions of the manufacturer concerning the operation and maintenance of the elements.

.8 Provide descriptions of the sequence of operations prepared by various manufacturers of equipment and command/control devices.

.9 Provide the list of OEM parts as well as illustrations, drawings and installation diagrams for maintenance.

.10 Provide the control diagrams of the command/control devices installed, prepared by different manufacturers.

.11 Provide the coordination drawings of the contractor as well as the color coded diagrams of the piping installed.

.12 Provide the list of labelling numbers of valves, with indication of the location and the function of each device, and reference to control diagrams and schematics diagrams.

.13 Provide a list of OEM spare parts with indication of current prices and the quantities recommended to keep in stock.

.14 Provide testing and calibrating reports prescribed in the engineers documents.

.15 Additional requirements: according to the requirements of the specifications various technical sections.

1.9 Materials and finishing products

.1 Construction materials, finishing products, and other products to apply: provide data sheets and indicate the catalogue number, the size, the composition and the designations of the colours and textures of products and materials. Provide the information needed to order special products.

.2 Provide instructions for cleaning agents and methods as well as schedules recommended for cleaning and maintenance, and indicate the precautions to be taken against harmful methods and dangerous products.

.3 Water-repellent products and products exposed to weather: provide the recommendations of the manufacturer on cleaning agents and methods as well as schedules recommended for cleaning and maintenance, and indicate the precautions to be taken against harmful and dangerous products.

.4 Additional requirements: according to the requirements of the specifications various technical sections.

1.10 Spare parts

.1 Provide spare parts according to the quantities prescribed in the various technical sections of the specifications

.2 Spare parts supplied shall originate from the same manufacturer and be of the same quality as the components incorporated in the work.

.3 Deliver and store spare parts where indicated.

.4 Receive and list the parts, then submit the inventory list to the engineer. Insert the approved list in the maintenance manual.

.5 Enter the following information:

.1 The spare parts numbers.

.2 The equipment or system for which the parts are used.

.3 Instructions for installation.

.4 The name and address of the nearest supplier.

.6 Keep a receipt of the delivered parts and submit it before the final payment.

1.11 Replacement equipment/material

.1 Provide replacement equipment and materials according to the quantities specified in the various technical sections of the specifications.

.2 Replacement equipment and materials shall originate from the same manufacturer and be of the same quality equipment and materials incorporated in the work.

.3 Deliver and store replacement equipment/ materials where indicated.

.4 Receive and list the replacement equipment/materials, then submit the inventory list to the engineer. Insert the approved list in the maintenance manual.

.5 Keep a receipt of the delivered parts and submit it before the final payment.

1.12 Special tools

.1 Provide special tools according to the quantities prescribed in the various technical sections of the specifications.

.2 Tools shall bear a label indicating their function and the equipment for which they are intended.

.3 Deliver and store the special tools where indicated

.4 Receive and list the special tools, and then submit the inventory list to the engineer. Insert the approved list in the maintenance manual

1.13 Storage, handling and protection

.1 Store the spare parts, equipment and materials for replacement as well as the special tools to prevent damage or deterioration.

.2 Store the spare parts, equipment and materials for replacement as well as the special tools in their original packaging kept in good condition with intact seal and manufacturer's label.

.3 Store the components likely to be damaged by storms in weather-resistant containers.

.4 Store the paint and products likely to freeze in a heated and ventilated room.

.5 Remove the damaged or deteriorated elements or products and replace at no additional charge, to the satisfaction of the engineer.

1.14 Guarantees

.1 Separate each guarantee with a tab separator to tab listed according to the list provided in the table of contents.

.2 Provide the list of subcontractors, suppliers and manufacturers, with the name, address and the telephone number of the designated representative of each.

.3 Include signed guarantees, in duplicate, by subcontractors, suppliers and manufacturers.

.4 Except for the elements put into service with the permission of the Owner, do not change the date of entry into force of the guarantee until the date of substantial completion of work has been determined.

.5 Ensure that documents are in good and due form, that they contain all the necessary information and that they are notarized.

.6 Countersign the documents to be submitted when necessary.

.7 Retain the guarantees and bonds until the time prescribed to remit them. Include them in the final project file at the completion of work.

PART 2 - PRODUCTS

NOT APPLICABLE

PART 3 - EXECUTION

NOT APPLICABLE

END OF SECTION

PART 1 - GENERAL

1.1 Related works

.1 Painting Section 09 91 00

1.2 Reference standards

.1 CAN/CGSB- 1.40-2000, Anticorrosive Structural Steel Alkyd Primer.

.2 CGSB 1-GP-181-M90, Coating, Zinc-Rich, Organic, Ready-Mixed.

.3 CAN/CSA-G40.21-F04, Structural Quality Steels.

.4 CSA G164-FM1992 (C2003) , Hot Dip Galvanizing of lrregularly Shaped Articles .

.5 CSA W59-F-03 (C2008), Welded Steel Construction (Metal Arc Welding).

.6 CSA W59 .2-FM1991 (C2003), Welded Aluminium Construction.

.7 Welders shall be recognized by the Canadian welding Bureau.

1.3 Shop drawings

.1 Submit shop drawings in accordance with the requirements of Section 01 33 23 – Shop drawings, data sheets and samples.

.2 Shop drawings shall indicate, show or comprise materials, web thicknesses, finishes, assemblies, joints, the mode and number of anchorages, supports, reinforcements, details and accessories.

PART 2 - PRODUCTS

2.1 Materials and equipment

.1 Profiles and steel plates: according to standard CAN/CSA-G40. 21, grade 300W

.2 Steel pipe: comply to standard ASTM A53-99 (b), of standard weight, with type E galvanized finish, grade A, seamless.

.3 Welding materials: comply with standard CSA W59.

.4 Welding electrodes: comply with standard CSA W48 series.

.5 Bolts and anchors: comply with standard ASTM A307-00.

.6 Galvanizing: hot-dip galvanizing, with 600 g/m^2 zinc coating, complies with CSA G164.

.7 Print painting applied in workshop: complies with standard CGSB 1-GP-40M.

.8 Zinc print painting: zinc-rich, ready for use, in accordance with the standard CGSB 1-GP-181M.

.9 Grout: no indented, non-metal, fluid, with strength of 15 MPa and holding power of 7.9 MPa at 24 h.

2.2 Shaping

.1 The works shall be square, leveled, aligned and compliant with the dimensions prescribed; the seals shall be tight and properly set.

.2 Unless otherwise indicated, flat, round and oval countersunk head screws, self-tapping and self-locking shall be used for screw connections or according to instructions.

.3 Insofar as possible, the works shall be fitted and assembled in the workshop, and delivered, ready to mount.

.4 Apparent welds shall be continuous along the entire length of the seal; they shall be filed or ground, so to present a smooth, solid surface.

2.3 Finish

.1 Galvanizing: immersion galvanizing, with 600 g/m^2, complies with CAN/CSA G164.

.2 Primer applied in workshop: complies with the standard CAN/CGSB-1.40.

.3 Primer zinc: zinc-rich paint, prepared; in accordance with the standard CAN/CGSB-1.181.

.4 Bituminous paint: complies with the standard CAN/CGSB-1.1 08.

2.4 Paint applied in workshop

.1 Metal parts, except the galvanized parts and parts that will be embedded in concrete shall be coated with primer, applied in workshop.

.2 The primer shall have suffered no alteration and as it was prepared by the manufacturer. It shall be applied on dry surfaces, free of rust, grease and deposits, at a temperature of at least 7°C.

.3 The surfaces to be welded on site shall be cleaned and with no paint coating.

PART 3 - EXECUTION

3.1 Assembly

.1 Unless otherwise indicated, execute welding in accordance with the standard CSA W59.

.2 Welding companies shall be certified either under section 2.1 of the standard CSA W47.1 in the case of fusion welding or the CSA W55.3 standard in the case of resistance welding.

.3 Provide a certificate attesting that all welded joints are certified by the Canadian welding Bureau

.4 Mount the metal structures, square, leveled, aligned and adjusted with precision, and ensure that the seals and the braces are tight.

.5 Supply and install anchors appropriate and approved by the engineer, such as dowels, staples, rods, bolts and expansion sleeves, toggle bolts, as well as toggle anchors.

.6 The apparent fixing devices shall be compatible with the material they pass through or to which they are tied; their finish shall be the same as that of the said material.

.7 Supply and install the building components prescribed in other sections, in accordance with the listing and shop drawings submitted.

.8 Assemble the parts onsite either by welding or using bolts, according to standard CAN/CSA - 516.1.

.9 Submit to the skilled trades the templates and parts to embed in concrete or in masonry.

.10 Once the mounting is complete, touch up with a primer the rivets, welds made onsite, the bolts and burned or scraped surfaces.

.11 Using a zinc-rich primer, touch up the galvanized surfaces on spots burned during welding work on the site.

END OF SECTION

PART 1 - GENERAL

1.1 Scope of work

.1 This section covers all interior painting works, in accordance with the following requirements.

.2 This section also covers the paint works on all the steel and concrete-block structures.

1.2 Reference standards

.1 Architectural Painting Specifications Manual, Master Painters lnstitute (MPI) - www.paintinfo.com.

.2 Canadian Painting Contractors Association (CPCA).

.1 Painting Specifications Manual 1993.

.3 National Fire Code 1990.

.4 Steel Structures Painting Council (SSPC).

.1 Systems and Specifications Manual, 1989.

1.3 Samples

.1 Provide two panels/samples of 300 x 200 mm, of each type of prescribed painting.

.2 Use a panel of plasterboard of 10 mm for the finishing on smooth surfaces.

1.4 Conditions of implementation

.1 Do not apply paint in places where are performed works that emit dust.

1.5 Examination of surfaces and rooms to paint

.1 The premises shall be swept thoroughly to remove all dust.

.2 Surfaces shall be properly cleaned, dried, of regular appearance and texture, free from defects.

.3 Unless reservations made prior to the engineers and/or the general contractor, the beginning of the work shall mean the implicit acceptance of the conditions and the condition of the surfaces on which the work will be performed. Painting contractor shall then be liable for the quality and condition of the finish if they are not first quality.

1.6 Weather conditions

.1 No painting, dyeing, preservative, will be applied when the temperature is below 10°C indoors, and when the ambient temperature is below 10°C and above 32°C outdoors. No exterior finish can be applied during the night, snowfall or after, as the surfaces are not completely dry. The substrate temperature shall not be less than 10°C and higher than 32°C.

.2 Respect a maximum moisture content of 12% for plaster, gypsum boards, canvas, concrete and concrete blocks; and of 15% for wood.

1.7 General protections

.1 The paint contractor shall protect its work against moisture or damage from any cause whatsoever. Also protect adjacent work of all damage caused by its workers, materials, tools or equipment used for the performance of its work. Assume responsibility for the adequate protection of structures against any damage caused by the performance of work under this division or others.

.2 The paint contractor shall repair all damages, without charge to the Owner, and to the satisfaction of the architects. If in their opinion, such damage cannot be repaired properly, the damaged work will be replaced at the expense of the painting contractor.

PART 2 - PRODUCTS

2.1 Materials

.1 Qualified materials: for execution of this work, use only painting materials from the list of qualified products, issued by the Canadian General Standards Board (CGSB) and MPI.

.2 Use painting materials complying with the CGSB and MPI standards mentioned in the list of finishing paint systems.

.3 The materials of each system of painting shall originate from a single manufacturer.

.4 On existing surfaces, provide and install a primer appropriate to ensure perfect adhesion of finish coat, according to paint manufacturer's recommendation.

2.2 Degrees of gloss

.1 Gloss of the paint means the degree of luster of the painting utilized, according to the current MPI gloss levels presented in the following table:

Degree of gloss	**Description**	**Units** at **60°**	**Units at 85°**
G1	Matte finish	0 to 5	10 max.
G2	Velour finish	0 to 10	10 to 35
G3	Eggshell finish	10 to 25	10 to 35
G4	Satin finish	20 to 35	35 min.
GS	Semigloss finish	35 to 70	
G6	Gloss finish	70 to 85	
G7	High shine finish	> 85	

PART 3 – EXECUTION

3.1 Preparation of surfaces

.1 Prepare wood surfaces in accordance with CAN/CGSB-85.100 – 93, or according to the recommendations of the paint manufacturer:

.1 Cover knots and resin surfaces with a vinyl sealing paste, consistent with the recommendations of the manufacturers.

.2 Dye filling paste of the same color as the colour of woodwork.

.2 Touch up the steel surfaces primed at the factory with a product compliant to CAN/CGSB 85.10-99.

.3 Prepare the surfaces in steel galvanized and zinc plated, according to CAN/CGSB-85.10 - 99.

.4 Metals:

.1 Iron and steel: remove rust, mill scales, welding fluxes and other solid contaminants using mechanical brushes or a sandblasting, as appropriate. The steel brush is acceptable for small works. Treat the metal to the 635-104 SICOPREP or Devprep 88 of Peintures ICI; rinse with water, then wipe off. Proceed with the application of the anticorrosion primer within the shortest possible time after the cleaning of the metal (no more than four hours).

.2 Steel and cast iron with workshop coating, SSPC-SP1 standard: wash surfaces with the SICOPREP 635-104 cleaner to remove grease, oil, dirt and dust. If there is rust in places where the primer has been damaged, remove it with the steel brush or the Emery cloth. Touch up the bare parts with a 5281 Sico/Rust-Oieum corrosion-resistant primer.

.3 Prepare the surfaces according to SSPC standards (Steel Structures Painting Council). All surfaces shall be perfectly clean of rust, scale, welding slag, relief burrs, oil, dirt and other foreign material.

.4 Protected steel (indoor environment) non-apparent: SSPCSP2 standard: manual tool such as steel brush, sanding, scraper.

.5 Apparent protected steel (to receive a finishing paint) and wrought metal indoors: SSPC-SP3 standard: mechanical tool.

.6 Unprotected steel (external environment) and wrought metal outdoors: SSPC-SP6 standard; commercial sandblasting for transparent finishing, preparation SSPC-SP1 O.

.5 Prepare the surfaces of masonry, stucco and concrete in accordance with CAN/CGSB-85.100- 93.

.6 Prepare the plaster and drywall surfaces in accordance with CAN/CGSB-85.100 - 93. Fill small cracks with a smoothing product.

.7 Vacuum on fibre-based acoustic tiles and insulating coverings.

.8 Prepare the piping and pipe fittings in accordance with CAN/CGSB-85.100-93.

3.2 Application

.1 Sand and dust between the application of each paint coat so to correct defects apparent from a distance of 1.5 m.

.2 Finish the top of the cabinets and the edges protruding above and below the line of sight, according to the requirements for the surrounding surfaces.

.3 Coordinate with the general contractor the painting works including application methods and work execution periods.

3.3 Mechanical and electrical works

.1 Paint the ducts, pipes, hangers and other mechanical and electrical equipment apparent which are in finite areas, as well as inside cabinets and cupboards. Choose a hue and texture which match the nearby surfaces, unless otherwise indicated.

.2 Paint the ducts, pipes, air ducts and other materials not finished located in the boiler room and machine room and electrical installations. Other spaces not finished, keep the original finish of material, piping, ducts, hangers, etc., and touch up scrapes and scratches.

.3 Ensure that the heads of fire extinguishers are not covered with paint during the work.

.4 Cover the apparent parts of the inside of the ducts with a layer of primer and a coat of matte black paint.

.5 Painted in red enamel the disconnectors of alarm and emergency systems and emergency exit lighting systems.

.6 Prior to installing, paint both sides and the edges of mounting plywood panels, intended to receive equipment. In principle, retain the original finish of the equipment and intervene only to make necessary touch ups, and paint pipes, mounting accessories and other non-finished items.

3.4 Interior finishing

.1 Colour to the choice of the Owner.

.2 Paint system for concrete blocks:

.1 A coat of primer/sealer and latex base coat, series 675-115 of SICO (MPI4).

.2 Two coats of 100% acrylic paint reinforced with urethane, series 261 SICO.

.3 Paint system for concrete:

.1 A coat of primer/sealer and latex base coat, 870-130 series of SICO (MPI 50).

.2 Two coats of 100% acrylic paint reinforced with urethane, series 261 SICO.

.4 Paint system for gypsum walls:

.1 A coat of primer/sealer and latex base coat, 870-130 series of SICO (MPI 50).

.2 Washrooms, kitchen, storage: two coats of 100% Acrylic latex paint, 0 VOC, such as Ecosource, melamine finish, series 855 SICO. Green Seal GS-11.

.3 Offices: two coats of100% Acrylic latex paint, 0 VOC as Ecosource, series 853 SICO, velour finish. Green Seal GS 11.

.5 Paint system for gypsum ceilings:

.1 A coat of primer/sealer, series 850-130, 0 COV such as Ecosource of SICO Green Seal GS-11.

.2 Two matte latex top coats for ceiling, 0 VOC, such as SICO Ecosource, series 851-116 Green Seal GS-11.

.6 Paint system for ferrous metal (steel, stairs, railings, columns, etc.):

.1 One coat of latex anticorrosive primer 5281 of Rust-Oieum.

.2 Two coats of semigloss latex urethane D.S.M., S-37 Metalmax series of Sierra.

.7 Paint system for galvanized steel (doors, frames, steel, etc.):

.1 Make a treatment with 635-104 of SICO and rinse with water.

.2 A coat of primer series 635-045 SICO.

.3 Two coats of 100% Acrylic paint reinforced with urethane, series 261 SICO.

.8 Paint system for plywood in machine room and electrical installations:

.1 Fire retardant and intumescent interior latex paint SICO EXPERT 609-114 made from:

.1 One coat of primer SICO EXPERT 890-114.

.2 Three top coats SICO no. 609-114.

Colour: light grey. Requires three coats for fire resistance.

.9 Clear topcoat system for floors and stairs:

.1 Cleaning of concrete in advance, using Rust- Oieum 108 and two top coats of Sierra performance S-40 clear finish of Rust-Oieum (transparent).

.10 Paint system for apparent structure and bridging:

.1 Latex topcoat with dry fallout:

.1 Clean the steel galvanized bridging with a 635-104 cleaning solution and rinse.

.2 Touch up the steel structure, rust and scratches, with water-based metal primer Sico/Rust-Oieum series 5281.

.3 Apply a dry fallout latex top coat on the surface, series 871-140 SICO-Expert.

END OF SECTION

PART 1 - GENERAL

1.1 Workshop drawings

.1 Submit shop drawings or catalog illustrations for approval.

.2 Shop drawings shall indicate the size and nature of the elements, the base material, the finish of the internal and external surfaces, hardware and locks, fastening devices, and installation details. Details of the construction of the cabinets, as well as the layout and sizes of the various elements, with cross-sections, shall appear on the drawings.

1.2 Work included

.1 Supply and installation of the various manufactured products specified.

PART 2 – PRODUCTS

2.1 Adhesive

.1 Supply and apply Sika Ancorfix-3001 epoxy-based adhesive as recommended by the manufacturer.

PART 3 – EXECUTION

3.1 Installation of manufactured products

.1 Provide strapping for the installation of manufactured products.

.2 Install the manufactured products in accordance with the manufacturer’s recommendations.

END OF SECTION

APPENDIX Tender Form

Appendix – Tender Form

Correctional Service Canada – Joliette Detention Centre		
FIELD	**SUBCONTRACTORS**	**TOTAL**
Mobilization and demobilization		$
Angle irons and steel reinforcement plates		$
Tether anchors/Adhesive		$
Adhesive for cracks		$
Painting		$
Cleaning		$
	Total bid amount (before taxes)	**$**
	GST	**$**
	QST	**$**
	Total bid amount (after taxes)	**$**

Each of the subdivided prices includes all fees concerning installation, correction of deficiencies, insurance, pension, equipment, transportation, rental, along with other costs and administration fees as well as the profit of general contractor and subcontractors, but excludes the GST and QST.

Signature