

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. Section 01 14 00 - Restriction of Work.
2. Section 01 52 00 - Construction Facilities.

1.2 WORK COVERED BY THE CONTRACT DOCUMENTS

1. These works are to redo the site drainage around the building workshops and northern area of Little Farm . They also are to redo the floors of bathrooms, plumbing systems and interior finition.

1.3 SCOPE OF WORK

1. Work include, but are not limited to :
 1. Redo drainage on site
 2. Rebuild the concrete slab of the building Workshops bath rooms sector
 3. Redo plumbing, mechanic and electrical systems and interior finishes bathrooms Workshops Building.

1.4 WORK BY OTHERS

1. All information shown on plans to be executed by the Contractor.
2. Work with all stakeholders and execute the instructions Departmental Representative.
3. If the performance or the result of any part of the work covered by this contract, rely on work of another contractor, to immediately report in writing any abnormalities or defects likely to interfere with the proper workmanship.

1.5 FUTURE WORK

1. Insure that Work avoids encroachment into areas required for future work.

1.6 WORK SEQUENCE

1. Co-ordinate Progress Schedule and co-ordinate with Owner Occupancy during construction.

1.7 CONTRACTOR USE OF PREMISES

1. The construction site may be used until a substantial achievement of the work, inside areas identified by the Departmental Representative. Comply with the restrictions mentioned in Section 01 14 00 – *Work Restriction*.
 2. Limit use of premises for Work, for storage, or access to allow:
 1. Owner occupancy;
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2. Partial owner occupancy.
3. Coordinate the use of the site based on the directives of the Departmental Representative.
4. Find additional work or storage areas necessary for the execution of the work as defined in the contract and assume the expenses.
5. Remove or modify the existing works to avoid damaging the sections that are to remain in place.
6. Repair or replace the sections of the existing structure that have been modified during construction in accordance with the directives of the Departmental Representative and for the purpose of connecting to or ensuring harmony with existing or adjacent structures.
7. After the completion of the work, the condition of the existing structure must be equivalent or better than its condition before the beginning of the work.

1.8 OWNER OCCUPANCY

1. The owner will occupy Building Workshops (except the part of WC) for the entire duration of construction, and will pursue normal activities during this period.
2. Collaborate with the owner to establish the work schedule in order to avoid conflicts and to facilitate the latter's use of the facilities.

1.9 PARTIAL DEPARTMENTAL REPRESENTATIVE OCCUPANCY

1. Establish a schedule that will anticipate considerable progress in designated areas so that they can be occupied by the owner before the work defined in the contract is complete.
2. Owner will occupy designated areas for purpose of storage of furnishings and installation of equipment
3. Execute Certificate of Substantial Performance for each designated portion of Work prior to Departmental representative occupancy. Contractor shall allow:
 1. Access for owner personnel;
 2. Operation of HVAC and electrical systems.
4. On occupancy, owner will provide for occupied areas:
 1. Operation of HVAC and electrical systems;
 2. Maintenance;
 3. Security.
5. Execute Partial Interim Certificate of Completion for each designated portion of Work prior to Owner occupancy. Contractor shall allow :
 1. Access for owner personnel;
 2. Operation of HVAC and electrical systems.

1.10 ALTERATIONS, ADDITIONS OR REPAIRS TO EXISTING BUILDING

1. Execute work with least possible interference or disturbance to building operations, occupants, public and normal use of premises. Arrange with Departmental Representative to facilitate execution of work.

1.11 EXISTING SERVICES

1. Notify, Departmental Representative and utility companies of intended interruption of services and obtain required permission.
2. Where Work involves breaking into or connecting to existing services, give 48 hours notice for necessary interruption of mechanical or electrical service throughout course of work. Minimize duration of interruptions. Carry out work at times as directed by governing authorities with minimum disturbance to pedestrian, vehicular traffic and tenant operations.
3. Provide alternative routes for personnel, pedestrian and vehicular traffic.
4. Establish location and extent of service lines in area of work before starting Work. Notify Departmental Representative of findings.
5. Submit schedule to and obtain approval from Departmental Representative for any shut-down or closure of active service or facility including power and communications services. Adhere to approved schedule and provide notice to affected parties.
6. Provide temporary services when directed by Departmental Representative to maintain critical building and tenant systems.
7. Provide adequate bridging over trenches which cross sidewalks or roads to permit normal traffic.
8. Where unknown services are encountered, immediately advise Consultant and confirm findings in writing.
9. Protect, relocate or maintain existing active services. When inactive services are encountered, cap off in manner approved by authorities having jurisdiction.
10. Record locations of maintained, re-routed and abandoned service lines.

1.12 DOCUMENTS REQUIRED

1. Maintain at job site, one copy each document as follows.
 1. Contract Drawings.
 2. Specifications.
 3. Addenda.
 4. Reviewed Shop Drawings.
 5. List of Outstanding Shop Drawings.
 6. Change Orders.
 7. Other Modifications to Contract.
 8. Field Test Reports.

9. Copy of Approved Work Schedule.
10. Health and Safety Plan and Other Safety Related Documents.
11. Other documents as specified.

1.13 RIGHTS, PERMITS AND CERTIFICATES

1. The General Contractor is obligated to obtain the required permits for the execution of the work and has to assume the entire costs. He will comply with all of the federal, provincial and municipal regulations and with any other law or regulation related to the work defined in this contract. He is also obligated to assume responsibility for any violation of relevant laws and regulations.
2. The General Contractor will pay for any obligation related to safety measures required by the "Loi sur la santé et la sécurité du travail du Québec" (Quebec law on health and safety in the work place), as well as for any expense deriving from such obligations.
3. Supply inspection certificates confirming that the work is compliant with the requirements of the competent authorities.
4. Provide to the Departmental Representative a copy of the applications submitted to the above mentioned authorities and the approval documents received.

1.14 SITE VISIT

1. In order to ensure familiarity with the conditions of the contracts and to obtain all of the information relevant to the execution of the work, visit the work site. Ignorance of site conditions does not constitute a valid reason to claim additional payment.

1.15 WORK IMPLEMENTATION

1. Based on the control lines and levels indicated on the plans, the General Contractor will establish the main control and reference points required for the execution of the work and provide the required materials.
2. Take the necessary measures to ensure that the control points will not be moved during construction.
3. Provide all of the required materials to allow the Departmental Representative to make the verifications deemed necessary.
4. Before beginning work, the General Contractor must verify all of the measurements on site and notify the Departmental Representative of any error or discrepancy.
5. During the work, if non-conformities are identified following marking errors from the General Contractor, the latter will do the work again at his expense.

1.16 ERRORS OR OMISSIONS

1. If, during the execution of the work, the General Contractor identifies contradictions between the plans and the site's physical configuration, or errors and omissions on the plans, he is obligated to notify the Departmental Representative in writing immediately. If the General Contractor elects to proceed without notifying the Departmental Representative, he will do so at his own risk until he receives the authorization to proceed from the Departmental Representative.
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1.17 WEATHER CONDITIONS

1. The General Contractor cannot claim additional amounts due to inclement weather, including during the winter period. He will plan his work based on the weather conditions likely to occur at the time of execution and include in his bid the amounts necessary to re-do some work due to weather conditions.

1.18 HISTORICAL AND ARCHAEOLOGICAL CHARACTER PRESERVATION

1. The area of Little Farm of the National Wildlife Cap-Tourmente is a recognized archaeological site. If an archaeological discovery is made during construction, notify the Departmental Representative immediately and wait for his written instructions before continuing the work to the place of discovery.
2. During the excavation, an archaeologist provided and paid by PWGSC will be present at the scene to determine if there is any potential for archaeological finds.
3. Before starting the excavation, notify the representative of the Ministry within 48 hours to ensure the presence of an archaeologist of the Ministry
4. The Contractor shall facilitate access to the site of the archaeologist and ensure his cooperation to obtain the desired information. He will specifically advise archaeologist at least 48 hours in advance before starting the following work and ensure the presence there of the latter for the duration of the work:
 1. Trenching required all around the Workshop during the implementation of the drain and related accessories.
 2. The trenching required all around the Workshop during the installation of pipes and manholes sewer (sanitary and storm).
 3. Excavation of the trench drainage near the administration building.
 4. The excavation of the road "B" near the administration building.
 5. Trenching required between the administration building and the Little Falls Creek during the implementation of the non-perforated drain.
5. To allow complete archaeological surveys, the Contractor shall provide in its contract, at its own expense, stops fifteen minutes per half day of excavation. Unused downtime will be accumulated and used for a longer interruption, if necessary
6. The Contractor shall provide four (4) Stop prolonged periods of four hours each in the event of unforeseen discoveries requiring a lengthy stop beyond 15 minutes as described above. The 4-hour periods may be used as needed and combined to allow larger stops.
7. The Contractor shall take account of these downtimes in preparing his bid and can not, therefore, claim an additional payment due to the application of so-called shutdown periods.
8. If the findings require stopping extended beyond the allotted time, the Contractor shall affect the machinery to another job in another area of the site to allow the continuation of the work of archaeologists. If such reassignment is completely impossible, the Contractor will be compensated subject to the approval of the Representative of the Ministry as to time and cost effectively and directly caused by this situation (if applicable).
9. Given the possibilities of archaeological finds, hand excavation may be required. The presence of archaeological resources will also need to slow the pace of the excavation, and that, in order to identify

certain types of remains and protect against damage. In such case, the Contractor will be compensated subject to the approval of the Representative of the Ministry as to time and cost effectively and directly caused by this situation (if applicable).

10. Protection of relics and books: the Contractor shall take all reasonable precautions to protect excavations unearthed every vestige and to release it for consideration by the archaeologists. Canada will not tolerate any exception in this regard. If the Contractor deteriorates negligently some vestige whether he will be held responsible and Canada will judge the impacts.
11. Provide a plan that defines the procedures for the identification and protection of historical, archaeological, cultural and biological existence known on the site, and / or defining other procedures to be followed in the event of discovery unexpected such elements, on site or in the nearby area during construction.
12. The plan must include methods to protect the known resources and discoveries, as well as channels of communication between the staff of the Contractor and the Departmental Representative.
13. Every element historical / archaeological discovered at the scene of the excavation must be provided to the landowner.
14. Moreover, the Representative of the Department reserves the right to carry out checks during archaeological excavation

1.19 EXPLORATION PIT

1. The Contractor shall perform all exploration wells needed to confirm the location of existing structures before starting work. Without limitation, it must realize the exploration wells at the following locations:
 1. For the locations shown on the plans and connections with existing networks.
 2. In areas where the proposed work intersect utility works (gas, underground cables, optical fibers, etc.).
 3. Two (2) places to verify the presence or absence of contaminated materials.
2. In order to protect existing facilities, development wells are performed with small equipment and existing facilities cleared manually. All exploration wells are performed in the presence of the Departmental Representative. This supervision does not release the liability of the Contractor in carrying out these works.
3. At least two (2) working days before starting work in the areas affected by the exploration well, the results of these will be communicated to the Departmental Representative, who can determine if changes are to be made to plans. Should the exploration well will not be realized, and that work should be taken due to conflicts or problems elevation, the Contractor shall resume work at its expense.

1.20 CALENDAR

1. See article SA06 from tender document.
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PART 2 - PRODUCTS**2.1 NOT USED**

1. Not used.

PART 3 - EXECUTION**3.1 NOT USED**

1. Not Used.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. Section 01 11 01 – general information on works.
2. Section 01 52 00 - construction facilities.
3. Section 01 74 11 – Cleaning.

1.2 ACCESS AND EGRESS

1. Design, construct and maintain temporary "access to" and "egress from" work areas, including stairs, runways, ramps or ladders and scaffolding, independent of finished surfaces and in accordance with relevant municipal, provincial and other regulations.

1.3 USE OF SITE AND FACILITIES

1. Execute work with least possible interference or disturbance to normal use of premises. Make arrangements with Departmental Representative to facilitate work as stated.
2. Maintain existing services to building and provide for personnel and vehicle access.
3. Where security is reduced by work provide temporary means to maintain security.
4. Departmental Representative will assign sanitary facilities for use by General Contractor's personnel. Keep facilities clean.

1.4 ALTERATIONS, ADDITIONS OR REPAIRS TO EXISTING BUILDING

1. Execute work with least possible interference or disturbance to building operations, occupants, public and normal use of premises. Arrange with Departmental Representative to facilitate execution of work.

1.5 EXISTING SERVICES

1. Notify, Departmental Representative and utility companies of intended interruption of services and obtain required permission.
 2. Where Work involves breaking into or connecting to existing services, give Departmental Representative 48 hours of notice for necessary interruption of mechanical or electrical service throughout course of work. Keep duration of interruptions minimum. Carry out interruptions after normal working hours of occupants, preferably on weekends.
 3. Provide for personnel, pedestrian and vehicular traffic.
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1.6 SPECIAL REQUIREMENTS

1. This section presents various specific requirements that need to be met, at all times, during the work. These specific requirements include:
 1. Coordinate the work with the Departmental Representative in order to permit the normal operations of the building and its occupants.
 2. Cap-Tourmente site is open between 08:00 and 17:00 , and 7 days a 7. If the Contractor wants access outside this period, he will make an agreement with Departmental Representative . Access to buildings protected by an alarm system can not be done outside the periods where Environment Canada employees are on site. Ensure that the General Contractor's onsite workers are aware of the regulations and respect them, most especially the rules concerning fire safety, traffic, and construction site safety.
 3. Ensure that access to the construction area are safe at all times. The Contractor is responsible for providing facilities and construction fences ensuring public safety and Environment Canada employees throughout the mobilization period .Remain within the limits of the work area and access roads.
 4. Ensure that the materials/equipment are delivered outside of rush hour and early in the morning, except with the approval of the Departmental Representative, see section 01 52 00 – *Construction Facilities*.
 5. The use of tools or equipment powered by an internal combustion engine (gas, propane, etc.) is strictly forbidden in all areas of the building, including basements, mechanical rooms, the shed and the warehouse. The use of tools such as a propane welding torch or other types of tools will require authorization from Departmental Representative.
2. This list of special requirements is non-exhaustive and the General Contractor must comply with all of the requirements stated in the specifications.

1.7 CONSTRAINTS FOR THE OCCUPATION OF TRAFFIC LANES AND SIDEWALKS

1. Before work begins, the General Contractor is responsible for making all of the necessary arrangements and to coordinate the closure of roads, parking lots and walkways with the owner of the premises.
2. The General Contractor must refer to section 01 52 00 - *Construction Facilities* for the site boundaries to be respected adjacent to the building.

1.8 BUILDING SMOKING ENVIRONMENT

1. Comply with smoking restrictions. Smoking is not permitted.

PART 2 - PRODUCTS

2.1 NOT USED

1. Not used.
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PWGSC

Repairs of Workshop washrooms
and site drainage - Phase II
Ref n° : 064816.019

General Requirements

Work Restriction

Division 01

Section 01 14 00

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PART 3 - EXECUTION**3.1 NOT USED**

1. Not used.

END OF SECTION

PARTIE 1 - GENERAL

1.9 UNIT OR OVERALL PRICES

Each unit or overall price in the contract is a lump sum; the Contractor commits to executing the work at this unit price, regardless of profit or loss. The unit or overall price for a structure or construction package must include all expenses, work, disbursements, payments, direct and indirect expenses, mobilizations, demobilizations, as well as any acts, facts, responsibilities, obligations, omissions and errors associated with the construction of this structure that may be incurred by the Contractor.

Unless otherwise indicated on the drawings and specifications, the Contractor will provide, for this unit or overall price, the materials, labour, equipment and accessories necessary to build the structure.

The unit or overall price must also include the transportation and application of materials, as well as all general company expenses including administration, insurance, contributions, interest, rentals, taxes and any incidental expenses. It must also include losses and damages that may occur due to the nature of the work, fluctuations in prices and salaries, business risks, strikes, delays not attributable to the Departmental Representative, restrictions relating to transportation, accidents and acts of nature.

1.10 OVERALL PRICE: DEFINITION

When work has been identified in a precise and detailed manner, and a price has been agreed upon and accepted by both parties for everything.

1.11 UNIT PRICE: DEFINITION

When specifications relating to the work have been determined in a precise and detailed manner, and all of the quantities or certain quantities indicated on the bid sheet have been provided as estimates.

1.12 APPROXIMATE AMOUNT OF WORK TO EXECUTE

The Contractor will note that the quantities indicated in the tender forms are approximate and that he will be paid only for the quantities actually executed and measured on site.

The Departmental Representative notifies the Contractor that there is no minimum amount of guaranteed work and no minimum amount in dollars. The client reserves the right to reduce or cancel some work without having to justify its decision or to pay any compensation.

1.13 DESCRIPTION OF THE ITEMS ON THE PRICES SCHEDULE

PART A – UNIT PRICE

1. For the item of the prices schedule entitled "**Demolition - Natural stone footpath**", the Contractor will provide a price per square meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, the loading, storage, transportation and disposal of waste, backfilling, the protection of existing structures, and site cleaning as described in Sections 01 74 20 and 02 41 16 of the specifications and shown on the plans.

2. For the item of the prices schedule entitled "**Demolition - Wooden curb**", the Contractor will provide a price per meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, the loading, storage, transportation and disposal of waste, backfilling, the protection of existing structures, and site cleaning as described in Sections 01 74 20 and 02 41 16 of the specifications and shown on the plans.
3. For the item of the prices schedule entitled "**Demolition - Concrete slab**", the Contractor will provide a price per square meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, the loading, storage, transportation and disposal of waste, backfilling, protection of existing structures, and site cleaning, as described in Sections 01 74 20 and 02 41 16 of the specifications and shown on the plans.
4. For the item of the prices schedule entitled "**Demolition - Concrete pavers**", the Contractor will provide a price per square meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of this work, including (but not limited to) excavation, the loading, storage, transportation and disposal of waste, backfilling, the protection of existing structures, and site cleaning as described in Sections 01 74 20 and 02 41 16 of the specifications and shown on the plans.
5. For the item of the prices schedule entitled "**Demolition - Wooden low wall/footpath**", the Contractor will provide a price per square meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of his work, including (but not limited to) excavation, the loading, storage, transportation and disposal of waste, backfilling, the protection of existing structures, and site cleaning as described in Sections 01 74 20 and 02 41 16 of the specifications and shown on the plans .
6. For the item of the prices schedule entitled "**Demolition - Sewer pipe**", the Contractor will provide a unit price per meter including the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, the loading, storage, transportation and disposal of existing pipes to be removed (whether or not they are in the trench), the supply of caps, backfilling, the protection of existing structures, and site cleaning as described in Sections 01 74 20 and 02 41 16 of the specifications and shown on the plans.
7. For the item of the prices schedule entitled "**Demolition - Catch basin**", the Contractor will provide a price that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, the loading, storage, transportation and disposal of the existing wells to be removed (whether or not they are in the trench), backfilling, the protection existing structures, and site cleaning as described in Sections 01 74 20 and 02 41 16 of the specifications and shown on the plans.
8. For the item of the prices schedule entitled "**Exploratory trench**", the Contractor will provide a price that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution this work, including (but not limited to) excavation, storage, surveying, the protection of existing structures, backfilling, and site cleaning as described in Sections 01 11 01 and 31 23 33.01 of the specifications and shown on the plans.
9. For the items of the prices schedule entitled "**Sanitary sewer pipe**", "**Storm sewer pipe**" and "**Pipe 100 mm Φ**", the Contractor will provide prices per meter including the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) clearing, grubbing, stripping, excavating, trenching (including the basic transition zones - 1.2H:1V above the freezing depth), compliance with the CSST's slope requirements, the management of reusable materials (storage, drying at a given site, the transportation of materials, etc.), the supply and installation of the pipe sleeves, elbows, tees, fittings, clamps and other pipe related items, geotextile, waste management, the maintenance and protection of existing services and structures (including utilities) to be left in place, trench drainage, the construction of a stable beds and pipe

covering, testing (water-tightness, creeping, CCTV inspections, etc.), the preservation and/or repair of structures not included in the bid sheet, and backfilling with materials from cuttings and excavations. The prices will also include all ancillary works including woodwork, sheet piling, dewatering, pumping, the removal, recovery, storage and reinstallation of permanent signage and geodetic marks affected by excavation, the installation of temporary safety fences 1200 mm high minimum needed for the support structures required to avoid exceeding the widths of easements, grading, disposal of waste and site cleaning as described in Sections 01 35 43, 31 11 00, 31 14 13, 31 23 33.01, 31 22 13 and 33 41 00 of the specifications and shown on the plans.

13. For the items of the prices schedule entitled "**Precast sanitary sewer manhole**" and "**Precast storm**
14. **sewer manhole**", the Contractor will provide a price that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation and backfilling (including additional transitions at the base of trenches - 3H: 1V above the freezing depth), the supply and installation of the precast manhole, borrowing materials including material for bedding and covering, manhole-related accessories including frames, buffers, etc., adjustments, and the required tests as described in Sections 31 23 33.01 and 33 05 13 of the specifications and shown on the plans.
15. For the item of the prices schedule form entitled "**Precast catch basin**", the Contractor will provide a price that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) clearing, grubbing, stripping and excavating for the installation of the pipe and the catch basin (including basic transition zones - 1.2H: 1V above the freezing depth), the supply and installation of the precast catch basin, the connecting pipe, borrowing materials including material for bedding and covering, backfilling, related accessories including frames, grids, and cast iron valve head sections, leveling, and site cleaning as described in Sections 31 11 00, 31 14 13, 31 23 33.01, 31 22 13 and 33 05 13 of the specifications and shown on the plans .
16. For the item of the prices schedule entitled "**Water pipe deviation**", the Contractor will provide a price that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) additional excavation and backfilling, pipe cutting, trench dewatering, the supply and installation of the pipe (PVC DR-18), couplings, elbows, fittings, anchors, threaded rods, and other stops, borrowing materials, especially for beds and covering, and disinfection as described in Section 31 23 33.01 of the specifications and shown on the plans.
17. For the item of the prices schedule entitled "**20 mm clean crushed stone wrapped in a geotextile to replace the bedding sand**", the Contractor will provide a price per cubic meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) the supply and installation of geotextiles and clean stone 20 mm Ø, taking into account the cost difference between clean stone 20 mm Ø and bedding sand. Stone used to stabilize slopes or for any other work not previously authorized and approved by the Departmental Representative will not be payable and will be included in trenching costs. Refer to Section 33 41 00 of the specifications about the restrictions applicable to this item.
18. For the item of the prices schedule entitled "**Contaminated soil management**", the Contractor will
19. provide a unit price per cubic meter that will include the cost of all labour, all materials, equipment and
20. incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, the storage, loading, transportation and disposal of materials in a site authorized by the MDDELCC or by the Departmental Representative, water control (including pump truck, storage, transportation and disposal), as described in Sections 01 35 13.43 and 01 35 29.14 of the specifications. The Contractor will note that the quantities appearing on the bid sheet for this item are approximate and that claims will not be accepted if these quantities are not used completely, not used at all or insufficient.

21. For the item of the prices schedule entitled "**Existing pipes connection**", the Contractor will provide a price that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, trenching, backfilling, the supply and installation of concrete thrust blocks, fittings, sleeves, special sleeves, elbows and other accessories, and the Contractor will pay for time lost due to pipe dewatering, as described in Section 33 41 00 of the specifications and shown on the plans .
22. For the item of the prices schedule entitled "**Drain**", the Contractor will provide a unit price per meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution this work, including (but not limited to) stripping, excavating and trenching for the drain pipe and the base of the transition zones (1.2H: 1V above the freezing depth), the management of reusable materials (storage, drying at a given site, transport of materials, etc.), waste management, the maintenance and protection of existing services and structures (including utilities) to ensure continuous service, the installation of the drain, couplings, elbows, tees, and other fittings, the supply and installation of clean stone, geotextiles, final grading, and site cleaning as described in Section 33 41 00 of the specifications, in the detailed drawings and shown on the plans.
23. For the item of the prices schedule entitled "**Access chimney/Down pipe**" and "**Drainage small ditch access chimney**", the Contractor will provide a unit price for the trench that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to), additional excavation, trenching and backfilling, the supply and installation of pipes, couplings, tees, elbows, caps, grids, fittings and others, the clean stone and all of the necessary accessories, as described in Section 33 41 00 of the specifications, in the detailed drawings and shown on the plans.
24. For the item of the prices schedule entitled "**Small ditch**" , the Contractor will provide a price per meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, which consists in digging ditches or cleaning ditches to ensure proper drainage. Ditch sections where Contractor intervention is required are shown on the plan or will be identified on site in the presence of Departmental Representative.
25. For the items of the prices schedule entitled "**Small draining ditch**", the Contractor wills provide a price per meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the full execution of the work, including (but not limited to) stripping, excavating and trenching for pipe installation, the management of reusable materials (storage, drying at a given site, transport of materials, etc.), waste management, maintenance and protection of existing services and structures (including utilities) to maintain service, the supply and installation of the drain, couplings, elbows, tees, fittings and other items related to the drain, the supply and placement of clean stone and geotextile, grading, and site cleaning as described in Section 33 41 00 of the specifications, in the detailed drawings and shown on the plans.
26. For the item of the prices schedule entitled "**Rip-rap**", the Contractor will provide a price per cubic meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) additional excavating and the supply and installation of rip-rap and geotextiles as described in Sections 31 32 19.01 and 31 37 00 of the specifications, in the detailed drawings and shown on the plans.
27. For the item of the prices schedule entitled "**Pipe insulation**" and "**Building foundations insulation**", the Contractor will provide unit prices per linear meter, depending on the type of insulation indicated on the bid sheet, that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, backfilling, the preservation and/or repair of existing pipes and additional borrowing materials, thermal insulation, leveling, and site cleaning as described in Section 33 41 00 of the specifications, in the detailed drawings and shown on the plans.
28. For the item of the prices schedule entitled "**Pipe insulation**" and "**Building foundations insulation**", the Contractor will provide unit prices per linear meter, depending on the type of insulation indicated on the bid sheet, that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, backfilling, the preservation and/or repair of existing pipes and additional borrowing materials, thermal insulation, leveling, and site cleaning as described in Section 33 41 00 of the specifications, in the detailed drawings and shown on the plans.

32. For the item of the prices schedule entitled "**Additional filling**", the Contractor will provide a unit price per cubic meter for borrow material for the rest of the trench that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to), the supply, loading and transportation of additional type 3 filling material to replace the material on site deemed unacceptable for trenches and transitions, and the loading, transportation and disposal of waste materials as described in Section 31 23 33.01 of the specifications and shown on the plans. The Contractor will note that the quantities appearing on the bid sheet for this item are approximate and that claims will not be accepted if these quantities are not used completely, not used at all or insufficient.
33. For the item of the prices schedule entitled "**Transition zone excavating and backfilling**", the Contractor will provide a price per cubic meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) the excavation and backfilling of the transition under the infrastructure line (see typical trench transition cross-section) to create slopes steeper than typical trenches for pipe installation (1.2H: 1V above the freezing depth), backfilling with material from the construction site or additional type 3 filling material, and the disposal of waste material as described in Section 31 23 33.01 of the specifications and shown on the plans. The bidder must consider that the use of any method to support the walls in order to take into account execution constraints does not change the need for the excavation and backfilling of transitions under the infrastructure in any way.
34. For the item of the prices schedule entitled "**Road**", the Contractor will provide a price per square meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) the excavation of the existing roadway, the loading, transportation and management of salvageable and filling materials, the disposal of waste materials, the grading of the infrastructure, the supply of granular materials and related information (test certificates and size requirements for the initial approval of materials), the transportation, placement and compaction of the material on site, dust control, grading, and site cleaning as described in Sections 31 05 16, 32 11 16.01 and 32 15 60 of the specifications, in the detailed drawings and shown on the plans.
35. For the items of the prices schedule entitled "**Concrete curb**", the Contractor will provide a unit price per meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, disposal of waste, filling the gaps around the structure, backfilling, the supply and preparation of the granular base and formworks, and the supply, placement and curing of concrete as described in Sections 03 30 00 and 32 16 15 of the specifications and shown on the plans.
36. For the items of the prices schedule entitled "**Concrete footpath**" and "**Concrete slab**", the Contractor will provide a price per square meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation and concreting, the installation of flexible boards, forms, frames, insulation and sealant, the supply and preparation of the granular base, the filling of the gaps around the structures, waste disposal, and adequate curing as described in Sections 03 10 00, 03 20 00, 03 30 00 and 32 16 15 of the specifications, in the detailed drawings and shown on the plans.
37. For the items of the prices schedule entitled "**Hydraulic seeding (including 100 mm of topsoil)**", the Contractor will provide a price per square meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) excavation, backfilling, grading and waste disposal, the supply and installation of topsoil, hydraulic seeding, and maintenance as described in Sections 32 91 19.13 and 32 92 19.16 of the specifications and shown on the plans.
38. For the items of the prices schedule entitled "**Sodding (including 100 mm of topsoil)**", the Contractor will provide a price per square meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to)
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- 40.
- 41.

excavation, backfilling, grading, and waste disposal, the supply and placement of topsoil, sod and marking stakes, and protection and maintenance as described in Sections 32 91 19.13 and 32 92 23 of the specifications and shown on the plans.

42. For the item of the prices schedule entitled "**Existing fence to remove and replace**", the Contractor will provide a unit price per meter that will include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, including (but not limited to) the removal and temporary storage of the existing fence, its re-installation including the replacement of any part damaged by the work, the concrete bases, etc. The fence and/or gate must be similar in type and appearance to the fence located on either side of the repaired area.

PART B – OVERALL PRICE

43. In Article of the price schedule form article "**Piles**", the Contractor shall provide a lump including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete performance of the work, there including, without limitation, the implementation of the piles and loading tests, as described in Section 31 62 16.10 of specifications and shown on the plans.
44. In Article of the price schedule form article "**Interior slab**", the Contractor shall provide a lump including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete performance of the work, there including, without limitation, steel reinforcement, concrete and finition, as described in Sections 03 10 00, 03 20 00 et 03 30 00 of specifications and shown on the plans.
45. In Article of the price schedule form article "**Wood structure**", the Contractor shall provide a lump including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete performance of the work , there including, without limitation, wood frames, as described in Section 06 10 00 of specifications and shown on the plans.
46. In Article of the price schedule form article "**Building mecanical**", the Contractor shall provide a lump including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete performance of the work, there including, without limitation, CVAC and plumbing, as described divisions 22 and 23 of specifications and shown on the plans.
47. In Article of the price schedule form article "**Building electricity**", the Contractor shall provide a lump including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete performance of the work , there including, without limitation , electric distribution, as described division 26 of specifications and shown on the plans .
48. In Article of the price schedule from article "**Organisation site**", the Contractor shall provide a lump including the cost of everything that deals with the construction organization presented to the 01 division of the specifications.
49. In the article titled «**Interior demolition and dismantling**» in the bid form, the Contractor shall provide a fixed price including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete execution of these works , including but not limited to, all interior demolition and dismantling work indicated in the plans, all material identified for removal or demolition, all demolition and drilling work required for the construction work required in architecture and engineering, including demolition and drilling work required for installing a new equipment, system, ducts or other elements required in engineering, as described in Section 02 41 17 of specifications and indicated in the plans.
50. In the article titled «**Isulation, vapor barrier, sealing**» in the bid form, the Contractor shall provide a fixed price including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete execution of these works , including but not limited to, provide and install vapor barrier under the slab on the exterior walls and ceiling, provide and install isulation under the slab and in periphery of exterior walls, all sealing works, as described in Sections 07 21 16, 07 26 00, 07 92 00 and indicated in the plans.

51. In the article titled «**Dywall, cement and gypsum panels, carpentry and finish carpentry**» in the bid form, in the bid form, the Contractor shall provide a fixed price including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete execution of these works , including but not limited to, build new partitions and attend to blow molding, patch exterior walls, ceiling and the adjoining partition, provide and install new wood frames along the entire perimeter of exterior doors and windows, as described in Sections 06 10 00, 06 20 00, 09 21 16, 09 22 16 and indicated in the plans.
52. In the article titled «**Interior doors and frames, hardware parts**» in the bid form, in the bid form, the Contractor shall provide a fixed price including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete execution of these works , including but not limited to, provide and install new wooden doors and steel frames and requested hardware parts, on preserved exterior doors reinstall and/or relocate all components of the door opening system, modify lock cores and the sills, as described in Sections 08 11 00, 08 14 16, 08 71 00 and indicated in the plans.
53. In the article titled «**Built-in cabinets**» in the bid form, the Contractor shall provide a fixed price including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete execution of these works, including but not limited to, provide and install built-in cabinets in the maintenance unit, as described in Section 06 40 00 and indicated in the plans.
54. In the article titled «**Ceramic and accessories**», in the bid form, the Contractor shall provide a fixed price including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete execution of these works, including but not limited to, provide and install new ceramic floor or wall covering, provide and include all required finishing trim, uncoupling membrane, granite tablet, as described in Section 09 30 13 and indicated in the plans.
55. In the article titled «**Painting**», in the bid form, the Contractor shall provide a fixed price including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete execution of these works, including but not limited to, all the requested painting including all visible surfaces of interior walls and partitions, all ceilings, all components of finish carpentry and new frames, as described in Section 09 91 23 and indicated in the plans.
56. In the article titled «**Plastic toilet compartements**» in the bid form, the Contractor shall provide a fixed price including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete execution of these works, including but not limited to, provide and install all plastic toilet compartements and hardware, including all the fastening strips and support required for installation, as described in Section 10 21 13.19 and indicated in the plans.
57. In the article titled «**Equipement and facilities**» in the bid form, the Contractor shall provide a fixed price including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete execution of these works, including but not limited to, provide and install all facilities and equipment identified in the documents, including all the fastening strips required in architecture and mechanical engineering, as described in Section 10 28 10 and indicated in the plans.
58. In the article titled «**Entrance floor grilles**» in the bid form, the Contractor shall provide a fixed price including the cost of all labor, all materials, equipment and incidental expenses necessary for the complete execution of these works, including but not limited to, provide and install entrance floor grilles, as described in Section 12 14 16 and indicated in the plans.
59. For the item of the prices entitled "**Whitewash (mortar)**", the Contractor will provide a price that include the cost of all labour, all materials, equipment and incidental expenses necessary for the complete execution of the work, as described in section 04 45 30 of the specifications and shown on the plans.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. Section 01 45 00 – Quality Control.
2. Section 01 35 29.06 – Health and Safety Requirements.
3. Section 01 74 11 – Cleaning.
4. Section 01 74 21 – Construction/Demolition Waste Management and Disposal.

1.2 ADMINISTRATIVE

1. Submit to Departmental Representative submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
 2. The documents issued by a Subcontractor must be sent through the General Contractor, both incoming and outgoing. The Subcontractor must stamp the documents with the received date and keep a log of the documents that are both received and issued. The representative of the General Contractor must also ensure the overall coordination in terms of drawings and follow up with suppliers.
 3. Do not undertake work for which the delivery of documents and samples is requested before all of the pieces submitted have been completely finished, and that the shop drawings, samples and product descriptions have not been returned as well as reviewed by the Departmental Representative.
 4. Present shop drawings, product data, samples and mock-ups in SI Metric units.
 5. Where items or information is not produced in SI Metric units converted values are acceptable.
 6. Review submittals prior to submission to Departmental Representative. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and co-ordinated with requirements of Work and Contract Documents. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined and considered rejected.
 7. Arrange the submitted documentation with the work requirements and contractual documents. The drawings will not be approved one at a time. The audit will be performed when all of the related drawings have been submitted.
 8. Notify Departmental Representative, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
 9. Verify field measurements and affected adjacent Work are co-ordinated.
 10. General Contractor's responsibility for errors and omissions in submission is not relieved by Departmental Representative's review of submittals.
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11. General Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Departmental Representative review.
12. Keep one reviewed copy of each submission on site.

1.3 SHOP DRAWINGS AND PRODUCT DATA

1. The term "shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by General Contractor to illustrate details of a portion of Work.
2. Submit drawings stamped and signed by professional engineer registered or licensed in Province of Quebec of Canada (Engineer who is a member of the "Ordre des ingénieurs du Québec", or OIQ).
3. Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been co-ordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.
4. Allow 10 days for Departmental Representative's review of each submission. The General Contractor's delay for the production of shop drawings, and their review by the Departmental Representative, must be taken into consideration in the General Contractor's deadline and cannot be used as an excuse for missed deadlines.
5. Adjustments made on shop drawings by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
6. Make changes in shop drawings as Departmental Representative may require, consistent with Contract Documents. When resubmitting, notify Departmental Representative in writing of revisions other than those requested
7. Accompany submissions with transmittal letter, in 2, containing:
 1. Date;
 2. Project title and number;
 3. General Contractor's name and address;
 4. Identification and quantity of each shop drawing, product data and sample;
 5. Other pertinent data.
8. Submissions include :
 1. Date and revision dates;
 2. Project title and number;
 3. Name and address of:
 - a. General Contractor;
 - b. Subcontractor;
 - c. Supplier;

- d. Manufacturer;
 - e. Retailers.
 - 4. General Contractor's stamp, signed by General Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
 - 5. Details of appropriate portions of Work as applicable:
 - a. Fabrication;
 - b. Layout, showing dimensions, including identified field dimensions, and clearances;
 - c. Setting or erection details;
 - d. Capacities;
 - e. Performance characteristics;
 - f. Standards;
 - g. Operating weight;
 - h. Wiring diagrams;
 - i. Single line and schematic diagrams;
 - j. Relationship to adjacent work.
 - 9. After Departmental Representative's review, distribute copies.
 - 10. Submit one (1) electronic copy of the shop drawings prescribed in the technical sections of the specifications and according to the reasonable requirements of the Departmental Representative. After a review by the Departmental Representative, the shop drawings, including comments if any, will be scanned in the PDF format and returned to the General Contractor, who will be advised via email at the address provided to the Departmental Representative. This notification
 - 11. This notice will specify the procedure for the pick-up of the reviewed shop drawings. No paper copies of the reviewed shop drawings will therefore be sent to the General Contractor. The General Contractor must pick up the drawings and distribute them, as required.
 - 12. Certaines sections du devis prévoient, qu'en certains cas, les croquis schématiques normalement fournis par le fabricant, caractéristiques indiquées dans ses catalogues, diagrammes, tableaux, abaques, illustrations et données descriptives ordinaires, peuvent tenir lieu de dessin d'atelier.
 - 13. La documentation ci-dessus (point 11) n'est acceptée que si elle est conforme aux prescriptions suivantes :
 - 1. elle ne doit pas contenir de renseignements qui ne concernent pas le projet;
 - 2. les informations de base doivent être complétées par des informations additionnelles propres au projet.
 - 14. Submit 1 electronic copy of test reports for requirements requested in specification Sections and as requested by Departmental Representative.
 - 1. Report signed by authorized official of testing laboratory that material, product or system identical to material, product or system to be provided has been tested in accord with specified requirements.
 - 2. Testing must have been within 3 years of date of contract award for project.
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15. Submit 1 electronic copy of certificates for requirements requested in specification Sections and as requested by Departmental Representative.
 1. Statements printed on manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that product, system or material meets specification requirements.
 2. Certificates must be dated after award of project contract complete with project name.
16. Submit 1 electronic copy of manufacturer's instructions for requirements requested in specification Sections and as requested by Departmental Representative.
 1. Pre-printed material describing installation of product, system or material, including special notices and Material Safety Data Sheets concerning impedances, hazards and safety precautions.
17. Submit 6 electronic copies of Manufacturer's Field Reports for requirements requested in specification Sections and as requested by Departmental Representative.
18. Submit 1 electronic copies of Operation and Maintenance Data for requirements requested in specification Sections and as requested by Departmental Representative.
19. Delete information not applicable to project.
20. Supplement standard information to provide details applicable to project.
21. If upon review by Departmental Representative, no errors or omissions are discovered or if only minor corrections are made, transparency copies will be returned and fabrication and installation of Work may proceed. If shop drawings are rejected, noted copy will be returned and resubmission of corrected shop drawings, through same procedure indicated above, must be performed before fabrication and installation of Work may proceed.
22. The procedure for the submittal and review of shop drawings is intended to enable the Departmental Representative to review the drawings and detect, if appropriate, any cases of non-compliance or deviations. Under no circumstances does this review constitute an exhaustive verification of the data or information appearing therein.
23. The review of shop drawings by Public Works and Government Services Canada (PWGSC) is for sole purpose of ascertaining conformance with general concept.
 1. This review shall not mean that PWGSC approves detail design inherent in shop drawings, responsibility for which shall remain with General Contractor submitting same, and such review shall not relieve General Contractor of responsibility for errors or omissions in shop drawings or of responsibility for meeting requirements of construction and Contract Documents.
 2. Without restricting generality of foregoing, General Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of Work of sub-trades. The comments and/or the corrections included in these drawings do not constitute any surety or approval, if an exemption to these requirements should be present.

1.4 SAMPLES

1. Submit for review samples in triplicate as requested in respective specification Sections. Label samples with origin and intended use.

2. Deliver samples prepaid to Departmental Representative's.
3. Notify Departmental Representative in writing, at time of submission of deviations in samples from requirements of Contract Documents.
4. Where colour, pattern or texture is criterion, submit full range of samples.
5. Adjustments made on samples by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
6. Make changes in samples which Departmental Representative may require, consistent with Contract Documents.
7. Reviewed and accepted samples will become standard of workmanship and material against which installed Work will be verified.

1.5 SAMPLES OF WORK

1. Provide samples of the work required in section 01 45 00 – *Quality Control*.

1.6 CERTIFICATES AND TRANSCRIPTS

1. Submit the relevant documents required by the "Commission de la santé et de la sécurité au travail" or CSST (workplace health and safety commission) immediately after the contract has been awarded.

PART 2 - PRODUCTS

2.1 NOT USED

1. Not Used.

PART 3 - EXECUTION

3.1 NOT USED

1. Not Used.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. Section 01 35 29.14 – Health and Safety for Contaminated Sites.
2. Section 01 35 43 – Environmental Procedures.

1.2 REFERENCES

1. Canadian General Standards Board (CGSB).
 1. CGSB 51-GP-51M-[81], Polyethylene Sheet for Use in Building Construction.
2. Transportation and Dangerous Goods Act (1999).
3. Canadian Council of Ministers of the Environment (CCME) Documentation.
4. "Ministère des Transports du Québec" – *Cahier des charges et devis généraux* (CCDG) – Latest edition.

1.3 SITE CONDITIONS

1. Refer to environmental characterization report annexed to the project specifications.

1.4 ACTION AND INFORMATIONAL SUBMITTALS

1. Submittals: in accordance with Section 01 33 00 - Submittal Procedures.
2. Equipment Decontamination Pad: submit the equipment decontamination pad design to the Departmental Representative for review prior to commencing construction.
3. Submit the documentation that certifies that the employees called upon to handle hazardous materials have been trained, tested, and certified to safely and effectively carry out their assigned duties in accordance with Section 01 35 29.14 - Health and Safety for Contaminated Sites.

1.5 REGULATORY REQUIREMENTS

1. Provide erosion and sediment control measures in accordance with Article 10.4.3.5 of Section 10.4 – "Protection de l'environnement" (environment protection) of the CCDG.
 2. Comply with federal, provincial, and local anti-pollution laws, ordinances, codes, and regulations when disposing of waste materials, debris, and rubbish.
 3. Work must meet or exceed the minimum requirements established by applicable federal, provincial, and local laws and regulations.
 4. The Contractor must comply with amendments to the laws and regulations in effect.
 5. Should the requirements of the regulatory bodies exceed the scope of work or conflict with specific contractual requirements, the Departmental Representative must be notified immediately.
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1.6 SEQUENCING AND SCHEDULING

1. Do not commence Work involving contact with potentially contaminated materials until decontamination facilities are operational and approved by the Departmental Representative.

1.7 SOIL STOCKPILING FACILITIES

1. Provide, maintain, and operate storage/stockpiling facilities as indicated.
2. Install liner below proposed stockpile locations to prevent contact between stockpile material and ground. Equip facility with tarps capable of covering stockpiled material.

1.8 DUST AND PARTICULATE CONTROL

1. Execute construction work and operations through methods that minimize dust.
2. Implement and maintain dust and particulate control measures immediately as deemed necessary by the Departmental Representative during construction and in accordance with Province of Québec regulations.
3. Provide effective means to prevent airborne dust from dispersing into atmosphere. Use water for water misting system for dust and particulate control.
4. At the very least, use appropriate covers on trucks hauling fine or dusty material. Use watertight vehicles to haul wet materials.
5. Prevent dust from spreading to adjacent property sites.
6. The Departmental Representative will stop work at any time when the Contractor's control of dusts and particulates proves to be inadequate for the wind conditions at the site, or when air quality monitoring indicates that release of fugitive dusts and particulates into the atmosphere equals or exceeds specified levels.
7. Work must stop if Contractor's dust and particulate control is not sufficient to control dusts and particulates into atmosphere. The Contractor must then provide procedures to resolve the problem and make the necessary changes to operations, as required, prior to resuming operations (excavation, handling, processing, or other work that may cause release of dusts or particulates).

1.9 POLLUTION CONTROL

1. Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious toxic substances and pollutants produced by construction operations.
2. The Contractor must be prepared to intercept, clean up, and dispose of spills or releases that may occur whether on land or water. He must also maintain the materials and equipment required for cleanup of spills or releases readily accessible on site.
3. Promptly report spills and releases potentially damaging the environment to:
 1. The Authority having jurisdiction or interest in spill or release including conservation authority, water supply authorities, drainage authority, road authority, and fire department.
 2. The Owner of the pollutant, if known.

3. The person having control over pollutant, if known.
4. The Departmental Representative.
4. Contact the manufacturer of the pollutant, if known, and ascertain the hazards involved, the precautions required, and the measures used in cleanup or mitigating action.
5. Take immediate action using available resources to contain and mitigate effects on environment and persons from spill or release.
6. Provide spill response materials including, containers, adsorbent, shovels, and personal protective equipment. Make spill response materials available at all times during which hazardous materials or wastes are being handled or transported. Spill response materials: compatible with type of material being handled.

1.10 EQUIPMENT DECONTAMINATION

1. Commence Work involving equipment contact with potentially contaminated material only after the equipment decontamination facility is operational.
 2. Decontaminate equipment after working in potentially contaminated work areas and prior to subsequent work or travel on clean areas.
 3. Perform equipment decontamination on Contractor-constructed equipment decontamination pad.
 4. At minimum, perform following steps during equipment decontamination: mechanically remove packed dirt, grit, and debris by scraping and brushing without using steam or high-pressure water to reduce amount of water needed and to reduce amount of contaminated rinsate generated. Use high-pressure, low-volume, hot water or steam supplemented by detergents or solvents as appropriate and as approved by Departmental Representative. Pay particular attention to tire treads, equipment tracks, springs, joints, sprockets, and undercarriages. Scrub surfaces with long handle scrub brushes and cleaning agent. Rinse off and collect cleaning agent. Air dry equipment in Clean Zone before removing from site or travelling on clean areas. Perform assessment as directed by Departmental Representative to determine effectiveness of decontamination.
 5. Maintain inspection record on site which includes: equipment descriptions with identification numbers or license plates; time and date entering decontamination facility; time and date exiting decontamination facility; and name of inspector with comment stating that decontamination was performed and completed.
 6. Each piece of equipment will be inspected by the Departmental Representative after decontamination and prior to removal from site and/or travel on clean areas. The Departmental Representative reserves the right to require additional decontamination to be completed if deemed necessary.
 7. Take the appropriate measures necessary to minimize drift of mist and spray during decontamination, including provision of wind screens.
 8. Collect decontamination wastewaters and sediments which accumulate on equipment decontamination pad in accordance with Province of Québec regulations and project specifications.
 9. Transfer sediments to disposal transport vehicle.
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10. Furnish and equip personnel engaged in equipment decontamination with protective equipment including suitable disposable clothing, respiratory protection, and face shields.
11. Have on hand sufficient pumping equipment, of adequate pumping capacity and associated machinery and piping in good working condition for ordinary emergencies, including power outage, and competent workers for operation of pumping equipment. Maintain piping and connections in good condition and leak-free.

1.11 WATER CONTROL

1. Maintain excavations free of water.
 2. Protect site from puddling or running water. Grade site to drain.
 3. Prevent surface water runoff from leaving work areas.
 4. Do not discharge decontaminated water, or surface water runoff, or groundwater which may have come in contact with potentially contaminated material, off site or to municipal sewers.
 5. Prevent precipitation from infiltrating or from directly running off stockpiled materials. Cover stockpiled waste materials with an impermeable liner during periods of work stoppage, including at the end of each working day and as directed by the Departmental Representative.
 6. Direct surface waters that have not contacted potentially contaminated materials to existing surface drainage systems.
 7. Control surface drainage, including ensuring that gutters are kept open, water is not directed across or over pavements or sidewalks except through approved pipes or properly constructed troughs, and runoff from un-stabilized areas is intercepted and diverted to suitable outlet.
 8. Dispose of water in manner not injurious to public health or safety, to property, or to any part of Work completed or under construction.
 9. Provide, operate, and maintain necessary equipment appropriately sized to keep excavations, staging pads, and other work areas free from water.
 10. Contain water from stockpiled materials and waste materials. Transfer potentially contaminated surface waters to wastewater storage tanks separate from wastewater from Personnel Hygiene/Decontamination Facility.
 11. The Contractor must have on hand sufficient pumping equipment, machinery, and tankage in good working condition for ordinary emergencies, including power outage, as well as competent workers for the operation of the pumping equipment.
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1.12 DEWATERING

1. Dewater various parts of Work including, without limitation, excavations, structures, foundations, and work areas.
2. Employ construction methods, operational procedures, and precautions to ensure that Work, including excavations, is stable, free from disturbance, and dry.
3. Dewatering methods include sheeting and shoring, groundwater control systems, surface or free water control systems employing ditches, diversions, drains, pipes and/or pumps, as well as and other measures necessary to enable Work to be carried out in dry conditions.
4. Provide sufficient and appropriate labour, tools and equipment necessary to keep Work free of water, including the standby equipment necessary to ensure continuous operation of dewatering system.
5. Take the precautions necessary to prevent the uplift of the structure or pipeline and to protect excavations from flooding and damage due to surface runoff.
6. Test and analyze water generated from dewatering activities and treat said water to meet the required discharge or disposal criteria.

1.13 EROSION AND SEDIMENT CONTROL

1. Use construction methods that allow the control of surface water from cuts and fills, from borrow and waste disposal areas, from stockpiles, staging areas, and other work areas. Prevent erosion and sediment transport.
2. Minimize the amount of bare soil exposed at one time. Stabilize disturbed soils as quickly as practical. Strip vegetation, re-grade, or otherwise develop to minimize erosion. Remove accumulated sediments resulting from construction activities from adjoining surfaces, drainage systems, and water courses, and repair damages caused by soil erosion and sedimentation as directed by the Departmental Representative.
3. Provide and maintain temporary measures, which may include silt fences, hay or straw bales, ditches, geotextiles, drains, berms, terracing, riprap, temporary drainage piping, sedimentation basins, vegetative cover, dikes, and any other construction required to prevent erosion and migration of silt, mud, sediments, and other debris off site or to other areas of site where damage might result, or that might otherwise be required by Laws and Regulations. Make sediment control measures available during construction. Place silt fences and/or hay or straw bales in ditches to prevent sediments from escaping from ditch terminations.
4. Hay or straw bales: wire bound or string tied; securely anchored by at least 2 stakes or rebars driven through bale 300 mm to 450 mm into ground; chinked (filled by wedging) with hay or straw to prevent water from escaping between bales; and entrenched at least 100 mm into the ground.
5. Silt fence: assembled, ready to install unit consisting of geotextile attached to driveable posts. Geotextile: uniform in texture and appearance, having no defects, flaws or tears that would affect its physical properties; and containing sufficient ultraviolet ray inhibitor and stabilizers to provide minimum 2-year service life from outdoor exposure.

6. Net backing: industrial polypropylene mesh joined to geotextile at both top and bottom with double stitching of heavy-duty cord, with minimum width of 750 mm.
7. Posts: sharpened wood, approximately 50 mm square, protruding below bottom of geotextile to allow minimum 450 mm embedment; post spacing 2.4 m maximum. Securely fasten each post to geotextile and net backing using suitable staples.
8. Plan construction procedures to avoid damage to work or equipment encroachment onto water bodies or drainage ditch banks. In event of damage, promptly take action to mitigate effects. Restore affected bank or water body to existing condition.
9. Installation:
 1. Construct temporary erosion control items as indicated. Actual alignment and/or location of various items as directed by Departmental Representative.
 2. Do not construct bale barriers and silt fence in flowing streams or in swales.
 3. Check erosion and sediment control measures weekly after each rainfall; during prolonged rainfall check daily.
 4. Bales and/or silt fence may be removed at beginning of work day, replace at end of work day.
 5. Whenever sedimentation is caused by stripping vegetation, re-grading, or other development, remove it from adjoining surfaces, drainage systems, and watercourses, and repair damage as quickly as possible.
 6. Prior to or during construction, the Departmental Representative may require the installation or construction of improvements to prevent or correct temporary conditions on site. Improvements may include berms, mulching, sediment traps, detention and retention basins, grading, planting, retaining walls, culverts, pipes, guardrails, temporary roads, and other measures appropriate to specific condition. Temporary improvements must remain in place and in operation as necessary or until otherwise directed by Departmental Representative.
 7. Repair damaged bales, end runs, and undercutting beneath bales.
 8. Unless Departmental Representative, remove temporary erosion and sediment control devices upon completion of Work. Spread accumulated sediments to form a suitable surface for seeding or dispose of, and shape area to permit natural drainage to satisfaction of Departmental Representative. Materials once removed become property of Contractor.
 9. Construct fill areas through selective placement in order to avoid erosive surface silts or clays.
 10. Do not disturb existing embankments or embankment protection.
 11. Periodically inspect earthworks to detect evidence of erosion and sedimentation; promptly apply corrective measures.
 12. If soil and debris from site accumulate in low areas, storm sewers, roadways, gutters, ditches, or other areas where it is deemed undesirable by the Departmental Representative, remove accumulation and restore area to original condition.

1.14 PROGRESS CLEANING

1. Maintain cleanliness of Work area and surrounding site in compliance with federal, provincial, and local fire and safety laws, ordinances, codes, and regulations.
 2. Co-ordinate cleaning operations with disposal operations to prevent accumulation of dust, dirt, debris, rubbish, and waste materials.
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1.15 FINAL DECONTAMINATION

1. Perform final decontamination of construction facilities, equipment, and materials which may have come in contact with potentially contaminated materials prior to removal from site.
2. Perform decontamination as specified to satisfaction of the Departmental Representative. The Departmental Representative may instruct Contractor to perform additional decontamination, if required.

1.16 REMOVAL AND DISPOSAL

1. Remove surplus materials and temporary facilities from site.
2. Dispose of non-contaminated waste materials, litter, debris, and rubbish off site.
3. Do not burn or bury rubbish and waste materials on site.
4. Do not dispose of volatile or hazardous wastes such as mineral spirits, oil, or paint thinner in storm or sanitary drains.
5. Do not discharge wastes into streams or waterways.
6. Dispose of following materials at appropriate off-site facility identified by Contractor and approved by Departmental Representative :
 1. Debris including excess construction material.
 2. Non-contaminated litter and rubbish.
 3. Disposable PPE worn during final cleaning.
 4. Wastewater removed from wastewater storage tank.
 5. Wastewater generated from final decontamination operations including wastewater storage tank cleaning.
 6. Lumber from decontamination pads.
7. Dispose of materials as directed by Departmental Representative.
8. Wastewater sample and analysis: Laboratory will perform sampling and analysis of stored wastewater for disposal purposes prior to removal from site. Results of analyses will determine appropriate methods of disposal. Upon receipt of analytical results, transfer tank contents without spills or release, as directed by Departmental Representative, to liquid waste tankers or sanitary sewer.

PART 2 - CONTAMINATED SOIL MANAGEMENT**2.1 GENERAL**

1. As mentioned in the environmental characterization report annexed to the project specifications, land affected by polycyclic aromatic hydrocarbons (PAHs) and metals are present at various locations.
 2. For the whole project, about 250 m³ of cut with metal concentrations and/or PAH should be disposed of in a site authorized by the MDDELCC or approved by the Departmental Representative. The
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Departmental Representative will choose the laboratory that will ensure monitoring during the work and pay for its services. Additional soil analyzes will be conducted within 72 hours.

3. The proposed work is not rehabilitation work. The management of contaminated soils relates only to cuttings from excavated trenches, not all of the contaminated horizons. However, additional analyses may be carried out to clarify the data on the distribution of contaminated soil during construction.
4. The Contractor will manage the cuttings in compliance with the provincial regulations in effect and assist the laboratory with sampling, as required. Compensation will not be granted for any delay caused by said land management work during construction.

2.2 SCOPE OF WORK

1. When excavating soil in identified contaminated areas, the Laboratory will be permanently present on site to certify that the management of excavated material is carried out according to plans and specifications and regulations in effect in the province of Quebec. If potentially contaminated water accumulates in excavations, it will be pumped and managed by a specialized contractor or managed according to the regulations in effect in the province of Quebec. The same applies if the Contractor performs the drawdown contaminated groundwater.
2. Cuttings with concentrations of metals or PAH above the generic criterion "A" of the MDDELCC will be excavated and loaded directly onto trucks and transported to a treatment center or disposal site authorized by the MDDELCC or its Representative. The Contractor will take care not to mix the contaminated and uncontaminated materials. If this principle is not respected and the least contaminated materials are carelessly mixed with non-contaminated material, the Contractor will be responsible for the transportation and disposal of the needlessly contaminated materials.

2.3 DELAYS, EXCAVATION AND STORAGE OF CONTAMINATED MATERIALS

1. During the excavation of the cuttings, certain precautions must be taken to ensure the safety and quality control of the excavated material, as well as the material in place. In addition, special attention should be paid to excavation operations in order not to dilute contaminated material with clean material.
 2. If unknown or suspicious quality soils may not be immediately loaded for disposal, they will be transported to a temporary storage site located at the construction site. The materials will be stored on a polyethylene membrane with a minimum thickness of 0.15 mm in order to avoid contact between the contaminated materials and the underlying soil. The use of the membrane will not be necessary if the materials are stored on a surface consisting of cement concrete or bituminous concrete. The materials will be covered with a polyethylene sheet at the end of each working day in order to prevent the rainwater infiltration and the evaporation of volatile compounds.
 3. The only temporary storage surfaces authorized for contaminated materials are paved or unpaved surfaces, included in the work area. The Contractor will find, at its own expense, a storage area outside the construction site if the boundaries of the construction site do not provide sufficient storage space to manage the contaminated materials.
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2.4 MATERIAL AND SOIL MANAGEMENT

1. Soil will be managed based on the general management principles summarized in the table on the management of excavated contaminated soil included in the "Politique de protection des sols et de réhabilitation des terrains contaminés" (policy on soil protection and the rehabilitation of contaminated sites) (MDDELCC, 1999, revised 2004). The environmental characterization study summarizes the environmental quality of the cuttings for every areas to be excavated.
2. Materials with metal concentrations and/or PAH below the generic criterion "A" and below the CCME criteria can be reused on the site without restriction and managed as standard cuttings, if the geotechnical quality of the materials is adequate.
3. The materials with metals and PAH concentrations below the generic criterion "A" of the MDDELCC can be moved out of the site without restriction and managed as standard cuttings.
4. Excess "A-B" quality materials will be transported to a technical landfill site or to a site authorized by the MDDELCC or to a site authorized by the Departmental Representative only after having received approval from the Departmental Representative. In order to dispose of the materials in sites other than technical landfill sites or sites authorized by the MDDELCC, the Contractor will provide the disposal site with a characterization report demonstrating that the contaminant concentrations (parameter setting) of the soil from the removal site are lower than those of the soil in the disposal site. In addition, Contractor expenses relating the disposal of "A-B" and "B-C" quality soils will not be paid without the prior approval of the Departmental Representative.
5. Soils subject to temporary storage, as noted above, will be sampled by the Laboratory. Following receipt of analytical results, the soil will be transported later to a soil treatment centers in the immediate area of Quebec City.

2.5 CONTAMINATED SOIL DISPOSAL

1. The carrier of cuttings having metal concentrations and/or PAH and/or higher metals generic criterion "A" must obtain a carrier manifest report for each load of soil transported outside the site. The carrier manifest reports may be provided by the Laboratory. This carrier manifest report must include the following information:
 1. The name of the carrier;
 2. The vehicle's registration;
 3. The date;
 4. The load departure and arrival times;
 5. The origin of the load;
 6. The type of contaminated soil transported ("A-B", «B-C», «>C» et « > CCME»);
 7. The destination of the load;
 8. The signature of the Departmental Representative;
 9. The signature of the representative of the disposal site.

2. Distribution of the copies of the carrier manifest report:
 1. A copy of the carrier manifest report is retained by the Laboratory;
 2. A copy of the carrier manifest report is retained by the representative of the disposal site;
 3. A copy of the completed carrier manifest report is returned to the Contractor and the Departmental Representative;
 4. A copy is kept by the carrier.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. Section 01 33 00 – Submittal procedures.
2. Section 01 35 43 – Environmental procedures.

1.2 INCLUDED IN THE SECTION

1. The General Contractor must manage their activities so that the health and safety of the public and their employees, as well as the environment, always takes precedence over issues related to work costs and schedule.

1.3 REFERENCES

1. Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations.
2. Canadian Standards Association (CSA).
3. Health Canada/Workplace Hazardous Materials Information System (WHMIS).
 1. Material Safety Data Sheets (MSDS).
4. An Act Respecting Occupational Health and Safety, R.S.Q. 1997 (updated 26 July 2005).
5. Safety Code for the Construction Industry, S-2.1, r.4.
6. National Building Code of Canada, Volume 8.
7. CSA Z462-F12 – Workplace Electrical Safety.

1.4 ACTION AND INFORMATIONAL SUBMITTALS

1. Make submittals in accordance with section 01 33 00 - Submittal Procedures.
 2. Submit site-specific Health and Safety Plan to the "Commission de la santé et de la sécurité du travail", or CSST (workplace health and safety commission) and ("Association paritaire en santé et sécurité du secteur de la construction" or APSAM (joint health and safety association of the construction sector) (ASP Construction), as described in article 1.8, within 10 days after date of Notice to Proceed and prior to commencement of Work. Submit copies of General Contractor's authorized representative's work site health and safety inspection reports to Departmental Representative. The Departmental Representative can, after receiving the program and at any time during the project, request that the system be modified or competed in order to better reflect the reality of the work site. The General Contractor must then make the requested changes before the beginning of the work.
 3. Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors indicated in article 1.13.1.
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4. Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
 5. Submit copies of incident and accident reports.
 6. Submit WHMIS MSDS - Material Safety Data Sheets, at least seven (7) days before their use at the site.
 7. Provide the Departmental Representative with copies of the applicable training certificates that are required for the prevention program, specifically:
 1. General health and safety courses for construction sites.
 2. Security guard certificate.
 3. Workplace first aid and CPR.
 4. Work susceptible to causing asbestos dust.
 5. Enclosed spaces work.
 6. Locking procedures.
 7. Wearing and adjustments to personal protection equipment.
 8. Safe operation of forklifts.
 9. Elevated electrical platforms.
 10. And all other training required by regulation or by the prevention program.
 8. Medical exams: When medical examinations are required, whether by a law, a regulation, a directive, a specification or a prevention program, the General Contractor must:
 1. Before mobilization, send to the Departmental Representative the certificates of medical examinations for the supervisory personnel and all employees covered by the first paragraph of this article that will be present at the opening of the construction site.
 2. Send any subsequent certificates of medical examinations as soon as possible for all of the newly arrived personnel at the construction site that are covered by the first paragraph of this article.
 9. On-site Contingency and Emergency Response Plan: address standard operating procedures to be implemented during emergency situations.
 10. Notice of opening of the construction site: The notice of opening of the construction site must be sent to the "Commission de la santé et de la sécurité du travail" or CSST (workplace health and safety commission) before work can begin, with a copy to the Departmental Representative. A copy of this notice must also be prominently displayed at the site. During the closing of the site, a closing notice must be sent to the CSST, with a copy of the Departmental Representative.
 11. Engineering compliance plans and certificates: The General Contractor must send to the CSST and to the Departmental Representative a copy, signed and sealed by an engineer, of the compliance plans and certificates that are required as per the Safety Code for the Construction Industry (S-2.1, r. 6), another law, another regulation, or another clause of the specifications or contract. A copy of these documents must be available at all times at the construction site.
 12. Certificate of compliance issued by the CSST: The compliance certificate is a document delivered by the CSST, confirming that the General Contractor has complied with the CSST, in other words, have paid the total amount due in relation to that particular contract. This document must be delivered to the Departmental Representative at the end of the work.
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1.5 SAFETY ASSESSMENT

1. The General Contractor must identify the hazards related to each task performed on the construction site.
2. The General Contractor must plan and organize the work in a way that favors the elimination of the sources of danger or has collective protection and thus keep to a minimum the use of personal protective equipment. When personal protection against falls is required, workers must use a safety harness in accordance with the standard CAN/CSA-Z-259.10-M90. The safety harness must not be used as protection against falls.
3. Equipment, tools, or a means of protection that cannot be installed or used without compromising the health and safety of the workers or the public is deemed to be inadequate for the work to be completed.
4. All mechanical equipment must be inspected before it is delivered to the construction site. Before the use of mechanical equipment, the General Contractor must send to the Departmental Representative a compliance certificate signed by a competent mechanic. If the Departmental Representative suspects a defect or risk of an accident, they can, at any time, order the immediate shutdown of the equipment and request a second inspection by a specialist of their choice.
5. For the use of lifting equipment, for either personnel or materiel, ensure that the inspections required by the applicable and current standards are met and be able to provide a copy of the inspection certificate to the Departmental Representative.

1.6 MEETINGS

1. A decision-maker for the General Contractor must be present at all of the meetings that are related to health and safety on the construction site.
2. If required, depending on the number of workers on the construction site, the General Contractor should put together a construction site committee and hold meetings as per the requirements in the Safety Code for the Construction Industry.

1.7 REGULATORY REQUIREMENTS

1. Conform to all of the laws, regulations, and all other standards that are applicable to the execution of the work.
 2. Observe and enforce the safety measures for construction work required by the codes and standards listed in Article 1.3 in addition to complying with the standards of the Quebec provincial government and the municipal organizations.
 3. In the case of conflict between the provisions of the above authorities, follow the strictest provision.
 4. Follow the standards and regulations prescribed to ensure the normal flow of work on land contaminated by hazardous or toxic materials.
 5. Notwithstanding the publication date of the standards indicated in the Safety Code for the Construction Industry, the current version should always be used when it applies.
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1.8 PROJECT/SITE CONDITIONS

1. At this construction site, the General Contractor must take into account the following characteristics, among others:
 1. Take into consideration that business is conducted in the building and the occupants are always 7 days on 7 present. When the work is in progress, make every effort to not hinder the building's activities outside of the work zones delineated on the plans.
 2. The proximity of the road traffic requires increased vigilance in relation to health and safety of the workers.
 3. The General Contractor will provide a sufficient quantity of portable fire extinguishers within the construction site area.

1.9 HEALTH AND SAFETY REQUIREMENTS

1. Accept and assume all of the tasks and obligations normally assigned to the principal contractor under the Act Respecting Occupational Health and Safety (L.R.Q., Chapter S-2.1) and the Safety Code for the Construction Industry (S-2.1, r.4).
 2. Develop a prevention program specific to the construction site that is based on the identification of risks and have this program in place from the beginning of the project until the final stage of demobilization. The prevention program must take into account the information in Article 1.7. It must be sent to all individuals involved, in accordance with Article 1.3. The prevention program must, at a minimum, include:
 1. The company policy on health and safety;
 2. The description and total cost of the work, the schedule, and the anticipated labour needs;
 3. The organizational chart of the individuals responsible for health and safety;
 4. The physical and materiel organization of the construction site;
 5. First aid standards;
 6. Identification of risks in relation to the construction site;
 7. Identification of risks in connection with the work performed, including preventative measures and the modality of implementation;
 8. Required training;
 9. Procedure in case of accidents/injuries;
 10. Written agreement for all of the stakeholders in relation to the prevention program;
 11. Construction site inspection checklist based on the preventative measures;
 12. Rescue procedures if there is the risk of falls due to working at heights.
 3. The General Contractor must develop an efficient emergency plan, taking into account the characteristics and the constraints of the construction site and its environment. This emergency plan must be sent to everyone concerned, in accordance with Article 1.3. The emergency plan must include in particular:
 1. The evacuation procedure;
 2. Identifications of resources (police, fire department, ambulances, etc.);
 3. Identification of those responsible on the construction site;
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4. Identification of first-aid attendant;
 5. The necessary training for those responsible for its implementation;
 6. And any other information required, given the characteristics of the construction site.
4. When the General Contractor uses or brings products regulated by the WHMIS into the building, they must have in their possession the updated material safety data sheets (MSDS) for the hazardous products regulated by the WHMIS. These data sheets are kept onsite so that they may be consulted for the dangers of using these products and for the information of doctors should there be an incident involving these products. In addition, the General Contractor must ensure that all of the workers understand the risks associated with these products, and that they have and use adequate individual protection equipment. Also, the workers must evaluate if any of the fumes from these products could seep into the various ventilation systems and cause incidents and harm to customers.

1.10 RESPONSIBILITY

1. No matter the size of the construction site or the number of workers present, one competent person must be named as the supervisor responsible for health and safety, and take every measure necessary to ensure the health and safety of the people onsite and in the immediate surroundings that could be affected by the ongoing work.
2. Take all of the measures necessary to ensure the implementation and enforcement of the health and safety requirements contained in the contractual documents, federal and provincial regulations, the applicable norms, and the prevention program designed specifically for the construction site and immediately comply with any order or notice of correction issued by the CSST.
3. Take all of the measures necessary to keep the construction site clean and orderly throughout the work.

1.11 COMMUNICATION AND SIGNAGE

1. Take all of the necessary steps to ensure effective communication of the health and safety information at the construction site. Upon arrival at the site, all workers must be informed of the specifics of the prevention program, their obligations and their rights. The General Contractor must insist on the right of the workers to refuse to perform a job if they believe that the task will compromise their health, safety, physical wellbeing, or that of others present at the construction site. A log must be kept onsite and updated with the information provided and the signature of the all of the workers who have received this information.
2. The following information and documents must be posted for the workers in an easily accessible area:
 1. Notice of the initiation of construction;
 2. The identity of the prime contractor;
 3. Company policy on health and safety;
 4. Prevention program specific to the construction site;
 5. Emergency plan;
 6. Material safety data sheets for all of the controlled products used on the construction site;
 7. Construction site committee meeting minutes;
 8. List of construction site committee members;
 9. Names of the first-aid attendants;

10. Intervention and correction reports issued by the CSST.

1.12 UNFORSEEN HAZARDS

1. When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and in writing. The General Contractor must thereafter make the necessary changes to the prevention program so that work may safely resume.

1.13 INSPECTION OF THE WORKPLACE AND CORRECTION OF HAZARDOUS CONDITIONS

1. Inspect the workplace and complete the construction site inspection checklist at least once per day.
2. Promptly take all necessary measures to correct deviations from the laws and regulations and hazardous situations that are identified by a government inspector, by the Departmental Representative, by the construction health and safety coordinator, or during periodic inspections.
3. Send to the Departmental Representative a written confirmation that all of the measures have been taken to correct the deviations and hazardous situations.
4. Work stoppage: Grant the security guard, or if there is no security guard, the person responsible for the health and safety, all of the authority required to order the stoppage and the resumption of work when they judge it necessary or for reasons of health and safety. This person must ensure that the health and safety of the public and the workers at the site, as well as the protection of the environment, override issues related to cost or schedule.
5. Without limiting the scope of articles 1.8 and 1.9, the Departmental Representative may at any time order a work stoppage if, according to his opinion, there is danger or a risk to the health and safety of the workers on the site or the public or the environment.

1.14 NAIL GUNS AND OTHER CARTRIDGE DEVICES

1. The use of nail guns, Ramset type explosive-actuated nail guns, or other cartridge devices is not authorized, unless with the authorization of the Departmental Representative.
2. Anyone that uses a nail gun must obtain a training certificate and meet all of the requirements of section 7 of the Safety Code for the Construction Industry (S-2.1, r. 6).
3. Any other cartridge device must be used according to the manufacturer instructions and conforming with the applicable standards and regulations.

1.15 WORK AT HIGH TEMPERATURES (WELDING, CUTTING, GRINDING, ETC.)

1. All work that causes heat, smoke or sparks (welding, cutting, using a grinder, etc.) requires a "High Temperature Work Permit". The permit that authorizes this type of work is issued by the Departmental Representative and must be completed in conjunction with the General Contractor. The arrangements must be made a minimum of 48 hours in advance. No high temperature work can take place with the high temperature work permit. The General Contractor must be in possession at all times (on the construction site) of the high temperature work permit that was issued when the work necessitated this type of permit. The high temperature work permit form will be provided to the General Contractor at the

beginning of the work. When performing work at high temperatures, take all of the temporary protection precautions so that the work can be carried out safely for both the workers and the existing building.

1.16 ELECTRICAL WORK

1. In accordance with standard CSA Z462-2012, any worker performing electrical work and working in these facilities must wear at the very least wear clothing that is infusible (does not melt) or non-treated natural fibers, with long sleeves, or as the case may be, clothing resistant to electrical arcs corresponding to the risk associated with the task being performed.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. Section 01 35 13.43 – Special Project Procedures for Contaminated Sites
2. Section 01 35 43 – Environmental Procedures

1.2 REFERENCES

1. Province of Quebec
 1. “Loi sur la santé et la sécurité du travail” (health and safety act), R.S.Q.
2. Canada Labour Code, Canada Occupational Safety and Health Regulations.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

1. Make submittals in accordance with Section 01 33 00 - Submittal Procedures.
2. Submit a site-specific Health and Safety Plan within 7 days after the date of the Notice to Proceed and prior to mobilization to the site.

1.4 REGULATORY REQUIREMENTS

1. Comply with specified standards and regulations to ensure safe operations at the site containing hazardous or toxic materials.

1.5 SITE CONDITIONS

1. Refer to the environmental characterization report attached to these specifications.

1.6 GENERAL REQUIREMENTS

1. Produce a written site-specific Health and Safety Plan prior to commencing Work at the site and continue to implement, maintain, and enforce the said plan until final demobilization from the site. The Health and Safety Plan must address project specifications.
 2. Ensure that the Health and Safety guidelines provide a safe working environment with the least amount of risk for site personnel and which minimizes the impact of activities involving contact with hazardous materials or hazardous waste on the general public and on the environment.
 3. Exemption or substitution requests regarding a portion or any provision of the Health and Safety Guidelines addressed in this section or in the revised site-specific Health and Safety Plan must be submitted to the Departmental Representative in writing.
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1.7 RESPONSIBILITY

1. Assume responsible for the safety of persons and the property on site and for the protection of persons off site as well as the environment to the extent that they may be affected by the Work.
2. Comply with and ensure that employees respect the safety requirements included in the Contract Documents, applicable federal, provincial, and local statutes, regulations, and ordinances, and in the site-specific Health and Safety Plan.

1.8 WORK STOPPAGE

1. Give precedence to the safety and health of public and site personnel and to the protection of the environment over Work cost and schedule considerations.
2. Assign responsibility and obligation to Health and Safety Officer to stop or start Work, when and where required, when he deems it necessary or advisable for reasons of health or safety. The Departmental Representative may also stop Work for health and safety considerations.

1.9 UNFORESEEN HAZARDS

1. Should unforeseen or peculiar safety-related factors, hazards, or conditions occur during the execution of the, stop work and immediately notify the Departmental Representative verbally and in writing.

1.10 CONTINGENCY AND EMERGENCY RESPONSE

1. Meet the specified requirements regarding emergency response.
2. Arrange and attend a coordination meeting with the appropriate authorities, including city, fire department and hospital representatives, provincial and municipal police, government transportation and health authorities, and the community emergency coordinator. During the meeting, the off-site Emergency Response Coordinator will be identified, through whom information will be disclosed and coordination will take place in the event of an incident.

PART 2 - PRODUCTS**2.1 NOT USED**

1. Not applicable.

PART 3 - EXECUTION**3.1 NOT USED**

1. Not applicable

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. Section 01 33 00 – Submittal procedures.
2. Section 01 74 11 – Cleaning.
3. Section 01 74 21 – Construction/demolition waste management and disposal.
4. Section 01 35 29.06 – Health and safety requirements.

1.2 REFERENCES

1. Definitions :
 1. Environmental Pollution and Damage: presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavourably alter ecological balances of importance to human life; affect other species of importance to humankind; or degrade environment aesthetically, culturally and/or historically.
 2. Environmental Protection: prevention/control of pollution and habitat or environment disruption during construction.
2. Reference Standards:
 1. U.S. Environmental Protection Agency (EPA)/Office of Water
 - a. EPA 832/R-92-005-92, Storm Water Management for Construction Activities, Chapter 3.
 - b. General construction permit from EPA 2012.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

1. Provide submittals in accordance with Section 01 33 00 - *Submittal Procedures*.
 2. Technical data sheets
 1. Submit the required technical data sheets, as well as instructions and literature from the manufacturer regarding the various products used at the construction site. The technical data sheets must include product characteristics, performance criteria, dimensions, limitations, and the type of finish.
 2. Submit two (2) copies of the data sheets required for the Workplace Hazardous Materials Information System (WHMIS), as specified in Section 01 35 29.06 – *Health and Safety Requirements* and in Section 01 35 43 – *Environmental Procedures*.
 3. Prior to commencing construction activities or delivery of materials to site, provide Environmental Protection Plan for review and approval by Departmental Representative.
 4. Ensure Environmental Protection Plan includes comprehensive overview of known or potential environmental issues to be addressed during construction.
 5. Address topics at level of detail commensurate with environmental issue and required construction task.
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6. Include in Environmental Protection Plan:
 1. Names of persons responsible for ensuring adherence to Environmental Protection Plan.
 2. Names and qualifications of persons responsible for manifesting hazardous waste to be removed from site.
 3. Descriptions of environmental protection personnel training program.
 4. Erosion and sediment control plan identifying type and location of erosion and sediment controls to be provided including monitoring and reporting requirements to assure that control measures are in compliance with erosion and sediment control plan, Federal, Provincial, and Municipal laws and regulations, EPA 832/R-92-005, Chapter 3 requirements.
 5. Drawings showing locations of proposed temporary excavations or embankments for haul roads, stream crossings, material storage areas, structures, sanitary facilities, and stockpiles of excess or spoil materials including methods to control runoff and to contain materials on site.
 6. Traffic Control Plans including measures to reduce erosion of temporary roadbeds by construction traffic, especially during wet weather.
 - a. Ensure plans include measures to minimize amount of mud transported onto paved public roads by vehicles or runoff.
 7. Work area plan showing proposed activity in each portion of area and identifying areas of limited use or non-use.
 - a. Ensure plan includes measures for marking limits of use areas and methods for protection of features to be preserved within authorized work areas.
 8. Spill Control Plan including procedures, instructions, and reports to be used in event of unforeseen spill of regulated substance.
 9. Non-Hazardous solid waste disposal plan identifying methods and locations for solid waste disposal including clearing debris.
 10. Air pollution control plan detailing provisions to assure that dust, debris, materials, and trash, are contained on project site.
 11. Contaminant Prevention Plan identifying potentially hazardous substances to be used on job site; intended actions to prevent introduction of such materials into air, water, or ground; and detailing provisions for compliance with Federal, Provincial, and Municipal laws and regulations for storage and handling of these materials.
 12. Waste Water Management Plan identifying methods and procedures for management and/or discharge of waste waters which are directly derived from construction activities, such as concrete curing water, clean-up water, dewatering of ground water, disinfection water, hydrostatic test water, and water used in flushing of lines.
 13. Historical, archaeological, cultural resources biological resources and wetlands plan that defines procedures for identifying and protecting historical, archaeological, cultural resources, biological resources and wetlands.

1.4 FIRES

1. Fires and burning of rubbish on site not permitted.
 2. Where fires or burning permitted, prevent staining or smoke damage to structures, materials or vegetation which is to be preserved.
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1.5 WASTE DISPOSAL

1. Unless expressly authorized by the Ministry's representative, burying waste material at the construction site is strictly prohibited.
2. Dumping waste or volatile materials, such as mineral essences and oil or paint solvents, in watercourses and in storm and sanitary sewers is strictly prohibited.

1.6 DRAINAGE

1. Provide Erosion and Sediment Control Plan identifying type and location of erosion and sediment controls provided. Ensure plan includes monitoring and reporting requirements to assure that control measures are in compliance with erosion and sediment control plan, Federal, Provincial, and Municipal laws and regulations, EPA 832/R-92-005, Chapter 3 requirements.
2. Storm Water Pollution Prevention Plan (SWPPP) to be substituted for erosion and sediment control plan.
3. Provide temporary drainage and pumping required to keep excavations and site free from water.
4. Ensure pumped water into waterways, sewer or drainage systems is free of suspended materials.
5. Dumping water containing suspended particles from materials in watercourses, sewers and drainage systems is strictly prohibited.
6. Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements.

1.7 SITE CLEARING AND PLANT PROTECTION

1. Protect trees and plants on site and adjacent properties as indicated.
2. Wrap in burlap, trees and shrubs adjacent to construction work, storage areas and trucking lanes.
3. Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage.
4. Minimize stripping of topsoil and vegetation.
5. Restrict tree removal to areas indicated or designated by Departmental Representative.
6. When trees or shrubs are removed, supply and plant trees and shrubs of the same species and size once the work is finished.

1.8 POLLUTION CONTROL

1. Maintain temporary erosion and pollution control features installed under this Contract.
 2. Control emissions from equipment and plant to local authorities' emission requirements.
 3. Prevent sandblasting and other extraneous materials from contaminating air and waterways beyond application area.
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4. Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.

1.9 ARCHEOLOGICAL

1.9.1 Generality

1. The area of the Petite-Ferme at Cap-Tourmente National Wildlife Area is considered as an archeological site of national importance. Contractor must collaborate with Canada if archeological remains are discovered.

1.9.2 Archeological findings

1. If Contractor thinks to have discovered archeological remains during construction, immediately advise Departmental Representative and wait for written directives before proceeding with construction in area of discovery.
2. Remains and antiquities, and any other element having a historic, archeological or scientific interest, such as, angular stones, commemorative plaques, slates, and other objects (remains or fragment) found on-site or in excavation or demolition areas, remain the property of Canada. Protect objects and obtain directives from Departmental Representative.

1.9.3 Protection of remains and objects

1. Contractor must take every reasonable precaution during excavation to protect every discovered remains and clear area for archeological examination. Canada will not tolerate any violation. If Contractor negligently deteriorates any type of remains, he will be held responsible and judged accordingly by Canada.
2. During demolition work, take necessary precautions to protect kept existing structures. Progressively demolish elements in a controlled manner. Carefully demolish elements which have sections for future use. If elements are damaged during demolition work, immediately inform Departmental Representative.

1.10 NOTIFICATION

1. Departmental Representative will notify Contractor in writing of observed noncompliance with Federal, Provincial or Municipal environmental laws or regulations, permits, and other elements of Contractor's Environmental Protection plan.
 2. Contractor: after receipt of such notice, inform Departmental Representative of proposed corrective action and take such action for approval by Departmental Representative.
 1. Do not take action until after receipt of written approval by Departmental Representative.
 3. Departmental Representative will issue stop order of work until satisfactory corrective action has been taken.
 4. No time extensions granted or equitable adjustments allowed to Contractor for such suspensions.
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PART 2 - PRODUCTS**2.1 NOT USED**

1. Not Used.

PART 3 - EXECUTION**3.1 CLEANING**

1. Clean in accordance with Section 01 74 11 - Cleaning.
 1. Leave the premises clean at the end of each work day.
2. Ensure public waterways, storm and sanitary sewers remain free of waste and volatile materials disposal.
3. Final cleaning: Remove materials, surpluses, waste, tools and equipment from the construction site, as specified in Section 01 74 11 - *Cleaning*.
4. Waste management: Sort the waste for reuse/recycling purposes, as specified in Section 01 74 21 - *Construction/Demolition Waste Management and Disposal*.
 1. Remove the recycling bins from the construction site and dispose of the waste material in appropriate facilities.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. Requirements specifically related to inspection and testing by a laboratory designated by the Departmental Representative are included in various sections of the specifications.

1.2 INSPECTION

1. Allow Departmental Representative access to Work. If part of Work is in preparation at locations other than Place of Work, allow access to such Work whenever it is in progress.
2. Give timely notice requesting inspection if Work is designated for special tests, inspections or approvals by Departmental Representative instructions, or law of Place of Work.
3. If Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have inspections or tests satisfactorily completed and make good such Work.
4. Departmental Representative will order part of Work to be examined if Work is suspected to be not in accordance with Contract Documents. If, upon examination such work is found not in accordance with Contract Documents, correct such Work and pay cost of examination and correction. If such Work is found in accordance with Contract Documents, Departmental Representative shall pay cost of examination and replacement.

1.3 INDEPENDENT INSPECTION AGENCIES

1. Independent Inspection/Testing Agencies will be engaged by Departmental Representative for purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by Departmental Representative.
 2. The Departmental Representative will designate the laboratory that will perform the testing and will pay for their services, with the exception of the following cases, which will be paid for by the General Contractor:
 1. The inspection and testing required by law, decrees, regulations or instructions of a public nature;
 2. The inspection and testing performed exclusively at the convenience of the General Contractor;
 3. The tests specified as having to be performed by the General Contractor under the supervision of the Departmental Representative;
 4. Additional testing specified in Paragraph 1.3.3.
 3. When the tests or inspections by testing laboratories show the non-conformity of the work *versus* the requirements of the contract, the General Contractor must pay for the additional fees that may be demanded by the Departmental Representative in order to verify the acceptability of the corrective actions.
 4. Provide equipment required for executing inspection and testing by appointed agencies.
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5. Employment of inspection/testing agencies does not relax responsibility to perform Work in accordance with Contract Documents.
6. If defects are revealed during inspection and/or testing, appointed agency will request additional inspection and/or testing to ascertain full degree of defect. Correct defect and irregularities as advised by Departmental Representative at no cost to Departmental Representative. Pay costs for retesting and reinspection.

1.4 RESPONSIBILITIES OF THE GENERAL CONTRACTOR

1. Provide the labour and necessary facilities to:
 1. Allow access to the structures for inspection and testing;
 2. Facilitate inspection and testing;
 3. Return the structures affected by inspection and testing to their original condition;
 4. Provide a room on the construction site where laboratory personnel will store materials and process the samples.
2. Notify the Departmental Representative sufficiently in advance of operations to allow him to schedule meetings with the laboratory personnel and establish a testing schedule.
3. When materials must be tested, ship the required quantity of representative samples to the testing laboratory.
4. Assume the expenses related to the work required to uncover the structures that were protected before inspection or testing has been approved by the Departmental Representative, and to their subsequent covering afterward.

1.5 ACCESS TO WORK

1. Allow inspection/testing agencies access to Work, off site manufacturing and fabrication plants.
2. Co-operate to provide reasonable facilities for such access.

1.6 PROCEDURES

1. Notify appropriate agency and Departmental Representative in advance of requirement for tests, in order that attendance arrangements can be made.
2. Submit samples and/or materials required for testing, as specifically requested in specifications. Submit with reasonable promptness and in orderly sequence to not cause delays in Work.
3. Provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.

1.7 REJECTED WORK

1. Remove defective Work, whether result of poor workmanship, use of defective products or damage and whether incorporated in Work or not, which has been rejected by Departmental Representative as failing to conform to Contract Documents. Replace or re-execute in accordance with Contract Documents.

2. Make good other Contractor's work damaged by such removals or replacements promptly.
3. If in opinion of Departmental Representative it is not expedient to correct defective Work or Work not performed in accordance with Contract Documents, Owner will deduct from Contract Price difference in value between Work performed and that called for by Contract Documents, amount of which will be determined by Departmental Representative.

1.8 REPORTS

1. Submit three (3) copies of inspection and test reports to Departmental Representative.
2. Provide copies to subcontractor of work being inspected or tested manufacturer or fabricator of material being inspected or tested.

1.9 TESTS AND MIX DESIGNS

1. Furnish test results and mix designs as requested.
2. Cost of tests and mix designs beyond those called for in Contract Documents or beyond those required by law of Place of Work will be appraised by Departmental and may be authorized as recoverable.

1.10 MOCK-UPS

1. Prepare mock-ups for Work specifically requested in specifications. Include for Work of Sections required to provide mock-ups.
2. Construct in locations acceptable to Departmental Representative as specified in specific Section.
3. Prepare mock-ups for Departmental Representative review with reasonable promptness and in orderly sequence, to not cause delays in Work.
4. Failure to prepare mock-ups in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
5. If requested, Departmental Representative will assist in preparing schedule fixing dates for preparation.
6. Remove mock-up at conclusion of Work or when acceptable to Departmental Representative.
7. Mock-ups may remain as part of Work.
8. Specification section identifies whether mock-up may remain as part of Work or if it is to be removed and when.

1.11 MILL TESTS

1. Submit mill test certificates as required of specification Sections.

1.12 EQUIPMENT AND SYSTEMS

1. Submit adjustment and balancing reports for mechanical, electrical and building equipment systems.
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PART 2 - PRODUCTS**2.1 NOT USED**

1. Not used.

PART 3 - EXECUTION**3.1 NOT USED**

1. Not used.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. Section 01 14 00 – work restrictions.
2. Section 01 33 00 – submittal procedures.

1.2 REFERENCES

1. Canadian Standards Association (CSA International)
 1. CAN/CSA-S269.2-FM 1987(C2003), Access Scaffolding for Construction Purposes.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

1. Provide submittals in accordance with Section 01 33 00 - *Submittal Procedures*.

1.4 INSTALLATION AND REMOVAL

1. Prepare site plan indicating proposed location and dimensions of area to be fenced and used by Contractor, number of trailers to be used, avenues of ingress/egress to fenced area and details of fence installation.
2. Identify areas which have to be gravelled to prevent tracking of mud.
3. Indicate use of supplemental or other staging area.
4. Provide construction facilities in order to execute work expeditiously.
5. Remove from site all such work after use.

1.5 SCAFFOLDING

1. Scaffolding in accordance with CAN/CSA-S269.2 and according to the current regulations and laws.
 2. Provide and maintain scaffolding, ramps, ladders, swing staging, platforms, temporary stairs.
 3. The scaffolding must be approved and sealed by an engineer who is a member of the “Ordre des Ingénieurs du Québec” (Quebec order of engineers).
 4. The scaffolding anchors to the building must be adequately sealed once the scaffolding has been dismantled.
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1.6 HOISTING

1. Provide, operate and maintain hoists and cranes required for moving of workers, materials and equipment. Make financial arrangements with Subcontractors for their use of hoists.
2. Hoists and cranes to be operated by qualified operator.

1.7 ELEVATORS

1. Designated existing and permanent elevators not to be used by construction personnel and transporting of materials.

1.8 SITE STORAGE/LOADING

1. Confine work and operations of employees by Contract Documents. Do not unreasonably encumber premises with products.
2. Do not load or permit to load any part of Work with weight or force that will endanger Work.

1.9 BUILDING ACCESS

1. Develop and maintain convenient access inside the building.
2. Clean the access points (doors, stairs, corridors, windows) that were used by the General Contractor for the entry and exit of workers, materials and debris. Maintain the access points throughout the work and repair all damage caused by the use of the General Contractor.
3. The delivery of materials and the disposal of waste must be performed at the times indicated by the Departmental Representative, in accordance with Section 01 14 00 - *Work Restriction*. In all cases, the General Contractor must take care not to damage or dirty the streets, local or adjacent surfaces. If the General Contractor damages these surfaces through the work or because of passing machinery, the costs for all of the necessary repairs to return the surface to its original state will be assumed by the General Contractor.

1.10 CONSTRUCTION PARKING

1. A parking area will be made available to the Contractor near the construction area for machinery. The Contractor shall submit the area required for approval by the Departmental Representative. Clean runways and taxi areas where used by General Contractor's equipment.
2. Maintain access for fire control purposes. Also anticipate means to fight fire for the entire duration of the work.

1.11 SECURITY

1. Provide and pay for responsible security personnel to guard site and contents of site after working hours and during holidays.
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1.12 OFFICES

1. The Lavoir-Forge building may be made available to the Contractor to arrange an office space or for meals. Note that there is no fresh water in the building. If the Contractor needs extra space, he must provide, at its expense, a caravan site.

1.13 EQUIPMENT, TOOL AND MATERIALS STORAGE

1. Provide and maintain, in clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials.
2. Post notices and take precautions as required by local health authorities. Keep area and premises in sanitary condition gardés à l'abri des intempéries, mais s'assurer qu'ils gênent le moins possible le déroulement des travaux.
3. The Contractor will pay for the storage of the material belonging to the Departmental Representative that must be temporary relocated during the work, with the exception of furniture. Prior to the beginning of the work, the Contractor must inform the Department Representative of the location where he intends to store the material prior to its return at the end of the work, for approval. The selected location must be clean, tidy and safe in order to ensure the return of the material in its original condition. The Contractor will be held responsible for any damage to the material and will pay for replacements at the satisfaction of the Departmental Representative, if applicable.
4. The Contractor must maintain access to the storage areas and will be held responsible for damages he may cause.

1.14 SANITARY FACILITIES

1. Due to sanitary repairs, there will be more accessible to the public toilets in the work area. The Contractor shall provide two (2) chemical toilets to be used for his own use and for public use during construction. The equipment must be kept clean and be maintained by the Contractor for the duration of the work.

1.15 PROTECTION AND MAINTENANCE OF TRAFFIC

1. Provide access and temporary relocated roads as necessary to maintain traffic.
 2. Maintain and protect traffic on affected roads during construction period except as otherwise specifically directed by Departmental Representative.
 3. Comply with the requirements and recommendation of competent authorities regarding the occupation of traffic lanes, including partial occupation for the delivery of material.
 4. Provide measures for protection and diversion of traffic, including provision of watch-persons and flag-persons, erection of barricades, placing of lights around and in front of equipment and work, and erection and maintenance of adequate warning, danger, and direction signs.
 5. Protect travelling public from damage to person and property.
 6. General Contractor's traffic on roads selected for hauling material to and from site to interfere as little as possible with public traffic.
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7. Verify adequacy of existing roads and allowable load limit on these roads. General Contractor: responsible for repair of damage to roads caused by construction operations.
8. Construct access and haul roads necessary.
9. Haul roads: constructed with suitable grades and widths; sharp curves, blind corners, and dangerous cross traffic shall be avoided.
10. Provide necessary lighting, signs, barricades, and distinctive markings for safe movement of traffic.
11. Dust control: adequate to ensure safe operation at all times.
12. Location, grade, width, and alignment of construction and hauling roads: subject to approval by Departmental Representative.
13. Lighting: to assure full and clear visibility for full width of haul road and work areas during night work operations.
14. Provide snow removal during period of Work.
15. Remove, upon completion of work, haul roads designated by Departmental Representative.
16. Coordinate all of the traffic protection and management activities with competent authorities.

1.16 ANTI-INTRUSION ALARM SYSTEM

1. The Contractor will not have access to the security codes of the alarm system. The deactivation and reactivation of the alarm system or any work to the alarm system must be performed by building management. The Contractor must notify the Departmental Representative regarding work and inspections performed on the alarms system.

1.17 ELECTRIC PANEL

1. Any employee qualified to perform electrical work must first obtain the approval of the Departmental Representative and follow the padlocking procedure. This procedure must be submitted in writing to the Departmental Representative for approval prior to the work. The Contractor must notify the Department Representative regarding modifications to any electrical panel.

1.18 CLEAN-UP

1. Remove construction debris, waste materials, packaging material from work site daily.
 2. Clean dirt or mud tracked onto paved or surfaced roadways.
 3. Store materials resulting from demolition activities that are salvageable.
 4. Stack stored new or salvaged material not in construction facilities.
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PART 2 - PRODUCTS

2.1 NOT USED

1. Not Used.

PART 3 - EXECUTION

3.1 TEMPORARY EROSION AND SEDIMENTATION CONTROL

1. Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction, sediment and erosion control drawings, sediment and erosion control plan, specific to site, that complies with EPA 832/R-92-005 or requirements of authorities having jurisdiction, whichever is more stringent.
2. Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
3. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

PART 4 - DRAWINGS

4.1 CONSTRUCTION SITE LAYOUT AND TEMPORARY OUTDOOR FACILITIES

1. Prior to mobilize, the Contractor is responsible for submitting a sketch of his organization site and external temporary facilities (storage, stack -up of soil, etc.) that it plans to implement for approval by the Ministry Representative.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. Section 01 74 21 - construction/demolition waste management and disposal.

1.2 PROJECT CLEANLINESS

1. Maintain Work in tidy condition, free from accumulation of waste products and debris, including other than that caused by Owner or other Contractors.
2. Remove waste materials from site at daily regularly scheduled times or dispose of as directed by Departmental Representative. Do not burn waste materials on site, unless approved by Departmental Representative.
3. Clear snow and ice from access to building, bank/pile snow in designated areas only remove from site.
4. Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
5. Provide on-site containers for collection of waste materials and debris.
6. Provide and use marked separate bins for recycling. Refer to Section 01 74 21 - *Construction/Demolition Waste Management and Disposal*.
7. Dispose of waste materials and debris at designated dumping areas on Crown property off site.
8. Clean interior areas prior to start of finishing work, and maintain areas free of dust and other contaminants during finishing operations.
9. Store volatile waste in covered metal containers, and remove from premises at end of each working day.
10. Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation systems is not permitted for this purpose.
11. Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
12. Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

1.3 FINAL CLEANING

1. When Work is Substantially Performed remove surplus products, tools, construction machinery and equipment not required for performance of remaining Work.
 2. Remove waste products and debris other than that caused by others, and leave Work clean and suitable for occupancy.
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3. Prior to final review remove surplus products, tools, construction machinery and equipment.
4. Remove waste materials from site at regularly scheduled times or dispose of as directed by Departmental Representative. Do not burn waste materials on site, unless approved by Departmental Representative.
5. Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
6. Clean and polish glass, mirrors, hardware, wall tile, stainless steel, chrome, porcelain enamel, baked enamel, plastic laminate, and mechanical and electrical fixtures. Replace broken, scratched or disfigured glass.
7. Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fittings, walls, floors or from any other building architectural element.
8. Clean lighting reflectors, lenses, and other lighting surfaces.
9. Vacuum clean and dust building interiors, behind grilles, louvres and screens.
10. Wax, seal, shampoo or prepare floor finishes, as recommended by manufacturer.
11. Inspect finishes, fittings and equipment and ensure specified workmanship and operation.
12. Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds.
13. Remove dirt and other disfiguration from exterior surfaces.
14. Clean and sweep roofs, gutters, areaways, and sunken wells.
15. Sweep and wash clean paved areas.
16. Clean equipment and fixtures to sanitary condition; clean or replace filters of mechanical equipment.
17. Clean roofs, downspouts, and drainage systems.
18. Remove debris and surplus materials from crawl areas and other accessible concealed spaces.
19. Remove snow and ice from access to building.
20. Clean the carpets in all of the areas directly or indirectly affected by the work.
21. Clean the solarium and the windows directly or indirectly affected by the work.

1.4 WASTE MANAGEMENT AND DISPOSAL

1. Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - *Construction/Demolition Waste Management and Disposal*.

PART 2 - PRODUCTS**2.1 NOT USED**

1. Not Used.

PART 3 - EXECUTION**3.1 NOT USED**

1. Not Used.

END OF SECTION

PART 1 - GENERAL

1.1 WASTE MANAGEMENT GOALS

1. Accomplish maximum control of solid construction waste.
2. Preserve environment and prevent pollution and environment damage.

1.2 RELATED REQUIREMENTS

1. Section 01 33 00 – Submittal procedures.
2. Section 01 74 11 – Cleaning.

1.3 DEFINITIONS

1. Definitions
 1. Class III: non-hazardous waste - construction renovation and demolition waste.
 2. Inert Fill: inert waste - exclusively asphalt and concrete.
 3. Recyclable: ability of product or material to be recovered at end of its life cycle and re-manufactured into new product for reuse.
 4. Recycling: process by which waste and recyclable materials are transformed or collected for purpose of being transferred into new products. Recycling does not involve combustion, incineration or destruction of waste through heat.
 5. Re-utilization/re-use: Repeated use of a product or material in its original form for the purpose of using it in a different context in the case of re-utilization or in a similar context in the case of re-use. Re-utilization/re-use involves the following:
 - a. The recovery of products and materials from the rehabilitation or modernization of a structure which can be re-utilized or re-used, before they are demolished, for the purpose of selling them, re-utilizing them, re-using them in the context of the same project, or storing them for subsequent use.
 - b. Return of products or materials that can be re-used by suppliers, such as pallets and unused products.
 6. Recovery: Removal of components and construction materials, load bearing or not, during the deconstruction or dismantling of industrial, commercial or institutional structures, for the purpose of re-utilizing or re-using them or recycling.
 7. Separate Condition: refers to waste sorted into individual types.
 8. Source Separation: acts of keeping different types of waste materials separate beginning from first time they became waste.
2. References
 1. Public Works and Government Services Canada (PWGSC)
 - a. National protocol for the management of non-hazardous solid waste from construction, renovation and demolition work, 2002.

- b. Market research report on construction, renovation and demolition waste management (available from the PWGC's Environmental Services Directorate).
- c. Sustainable development strategy 2007-2009: Target 2.1, Sustainable use of natural resources.
 - 1) For real estate projects of more than one million dollars in communities where industrial recycling is available, CRD waste management practices will be implemented to re-use/re-utilize or recycle waste.
 - 2) Make sure that under the contract, the resources used for construction or maintenance are used and recovered in a sustainable manner.

1.4 ACTION AND INFORMATIONAL SUBMITTALS

1. Submittals in accordance with Section 01 33 00 - *Submittal Procedures*.

1.5 SORTING OF WASTE

1. Place the containers in locations where it will be easy to deposit waste without hindering the activities of the construction site.
2. Waste materials must be collected, handled and stored on the construction site, then removed after sorting.
3. Recovered waste materials must be transported to approved and authorized recycling facilities.

1.6 USE OF SITE AND FACILITIES

1. Execute the work while disturbing the normal use of the site as little as possible.
2. Maintain in effect the safety measures established for the facility. Implement temporary safety measures approved by the Departmental Representative.

1.7 WASTE PROCESSING SITES

1. The Contractor is responsible for finding resources regarding waste reclamation, as well as service providers. Recuperated waste must be transported to approved and/or authorized recycling facilities or to material recyclers.

1.8 STORAGE, HANDLING AND PROTECTION

1. Unless specified otherwise, materials for removal do not become Contractor's property.
 2. Separate non-salvageable materials from salvaged items. Transport and deliver non-salvageable items to licensed disposal facility.
 3. Protect structural components not removed for demolition from movement or damage.
 4. Support affected structures. If safety of building is endangered, cease operations and immediately notify Departmental Representative.
 5. Protect surface drainage, mechanical and electrical from damage and blockage.
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6. Separate and store materials produced during dismantling of structures in designated areas.
7. Prevent contamination of materials to be salvaged and recycled and handle materials in accordance with requirements for acceptance by designated facilities.
 1. On-site source separation is recommended.
 2. Remove co-mingled materials to off-site processing facility for separation.
 3. Provide waybills for separated materials.
 4. The materials re-used/re-utilized on site are considered reclaimed and that they must be included in reports.

1.9 DISPOSAL OF WASTES

1. Do not bury rubbish or waste materials.
2. Do not dispose of waste, volatile materials, mineral spirits, oil, paint thinner into waterways, storm, or sanitary sewers.
3. Remove materials from deconstruction as deconstruction/disassembly Work progresses.
4. Prepare project summary to verify destination and quantities on a material-by-material basis as identified in pre-demolition material audit.

1.10 SCHEDULING

1. Co-ordinate Work with other activities at site to ensure timely and orderly progress of Work.

PART 2 - PRODUCTS

2.1 NOT USED

1. Not Used.

PART 3 - EXECUTION

3.1 CLEANING

1. Cleaning during the work: Carry out cleaning activities in compliance with section 01 74 11 - *Cleaning*.
 1. Leave the site clean at the end of each workday.
 2. Provide containers on site for the removal of debris and waste materials.
 3. Remove the debris and waste materials from the site at the end of each work shift.
 4. Take the waste and demolition materials to a site approved by competent authorities.
 5. Provide the Departmental Representative with the bills of lading from the waste disposal site regarding the construction material.
 2. Final cleaning: Remove materials, surplus materials, waste, tools and equipment from the construction site in accordance with section 01 74 11 - *Cleaning*.
-

3. Waste management: Sort the waste for the purpose of re-utilization/re-use and recycling, in compliance with this section.
 1. Remove the recycling bins from the construction site and dispose of the materials at the appropriate facilities.
 2. Sort the waste material that will be re-used/re-utilized or recycled at the source and place them at the specified locations.

END OF SECTION
