

## **TEMPORARY FACILITIES**

### **PART 1 GENERAL**

- 1.01 OTHER CONTRACT DOCUMENTS    The General Conditions of the Contract, General Requirements, and Supplemental Conditions attached hereto shall apply to and be a part of this Section
- 1.02 DESCRIPTION OF WORK        The Work described herein is for the supply and installation of temporary construction facilities and equipment not incorporated into the final or permanent Work.
- 1.03 RELATED SECTIONS    Section 01545 Safety  
Section 01710 Cleanup

### **PART 2 PRODUCTS        None Required**

### **PART 3 EXECUTION**

- 3.01 INSTALLATION AND REMOVAL    The Contractor shall supply and install temporary facilities, utilities, construction aids and controls, as directed by the Engineer, in order to expeditiously execute the Work, and shall remove from the Site all such temporary construction facilities, utilities, construction aids, and controls when no longer required or as directed by the Engineer.
- 3.02 TEMPORARY ELECTRICITY        If required during the Work, the Contractor shall supply, install and maintain all temporary electrical power and lighting including pole lines, required for the Work in accordance with governing regulations and ordinances. The wiring for temporary lighting shall be entirely separate from the temporary electricity installation, except for a common supply connection at either an electrical service or distribution centre. The existing power and lighting system of a building, or portions thereof, may be used when available, and the use is approved by the Engineer. The Contractor shall pay all costs of maintaining and providing temporary electricity from the existing system and shall be responsible for all damages and repairs to the existing system which are a result of his use and upon completion of the Work, he shall replace all lamps and restore the existing system to the satisfaction of the Engineer.

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- 3.03 TEMPORARY HEAT & VENTILATION If required during the Work, the Contractor shall supply portable heaters or other types of radiation for temporary heat, including attendants, maintenance and fuel. Unless stated elsewhere in the Specifications, the minimum temperature shall be 10 degrees Celsius in all areas in which construction is in progress, and 21 degrees Celsius in any occupied interior building area. The Contractor shall use Engineer approved heating devices only which shall protect the Work and Products against dampness and cold, prevent moisture condensation on surfaces, provide ambient temperatures and humidity levels for storage, installation and curing of materials.
- The existing heating system of a building shall not be used for temporary heating and the temporary heating equipment shall operate independently of any mechanical equipment or heating system being installed as part of the Work.
- The Contractor shall be responsible for any damages to the Work due to failure in providing adequate heat during construction.
- The Contractor shall provide ventilation to prevent hazardous accumulations of dust, fumes, mist, exhaust, vapours or gases in all areas occupied during execution of the Work.
- 3.04 ENGINEER'S PHONE The Contractor shall provide and pay all charges for a hand held cellular telephone for the exclusive use of the Engineer during the Work. The cellular telephone shall be supplied complete with a battery charger, a minimum of two rechargeable batteries, an car adaptor plug and a carrying case capable of being clipped or strapped to a belt. The battery charger shall be capable of charging two batteries at one time. The cellular telephone shall be available for use one week prior to the first of the Work. Long distance calls placed on this phone by the Engineer, which are not associated with the Work, will be paid for by the Engineer.
- 3.05 TEMPORARY WATER If required by local authorities, or requested in the Supplemental Conditions, the Contractor shall obtain and maintain in good condition a supply of potable water for construction use.

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The Contractor shall install and maintain all temporary lines and connections, and supply and install the service and meter as required by the City. The Contractor shall pay for all water consumed in the Work with the exception of water consumed by a temporary water system installed to maintain water service to any City of Brandon Water Utility ratepayers, and the cost thereof shall be included in the prices shown in the Unit Price Schedule.

**3.06 USE OF HYDRANTS** The Contractor shall not operate City hydrants or valves. Where the City approves of the use of water from hydrants in the Work, the hydrants and valves will be operated by City employees only.

The Contractor must not obstruct access to hydrants under pressure, valve boxes, curb stop boxes or other existing utility controls at the Site. Where such access must be temporarily blocked, the duration of such obstruction shall be as brief as practicable

**3.07 SANITARY FACILITIES** The Contractor shall provide and maintain in a clean and tidy condition sufficient sanitary facilities for the work force all in accordance with local health authorities, governing regulations and By Laws.

**3.08 TEMPORARY STRUCTURES** The Contractor shall supply, install and maintain all temporary sheeting, retaining walls, piling or shoring required to protect adjacent building foundations, roadways, excavations, and trenches from damage or movement caused by rain water, groundwater and other soil and weather conditions.

The Contractor shall supply, install and maintain scaffolding, ramps, ladders, swing staging, platforms, temporary stairs, as may be required for workers.

Falsework and Scaffolding shall be designed and constructed in accordance with CSA S269.1 'Falsework for Construction Purposes' and CAN/CSA S269.2 'Access Scaffolding for Construction Purposes'. Scaffolding and falsework shall be rigid, secure and constructed to ensure proper safety for workers and erected and maintained in full compliance with Provincial Codes and regulations governing scaffolding.

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Scaffolding shall be erected in a manner which will not encumber the performance of the Work, independent of walls, without damage to any building or finishes and shall be removed promptly when no longer required.

The Contractor shall be solely responsible for the design, erection, operation, maintenance and removal of temporary structures and other temporary facilities and the design and execution of construction methods required in their use. The Contractor shall engage and pay for a registered professional engineer skilled in the appropriate discipline to perform these functions where required by law or by the Contract Documents and in all cases where such temporary facilities and their methods of construction are of such a nature that professional engineering skill is required to produce safe and satisfactory results.

Notwithstanding any provisions to the contrary elsewhere in the Contract Documents where such Contract Documents include designs for temporary structural and other temporary facilities or specify a method of construction in whole or in part, such facilities and methods shall be deemed to comprise part of the overall design or the specified method of construction. The Contractor shall be responsible for the execution of such design or specified method of construction in the same manner that he is responsible for the execution of the Work.

### **3.09 SITE ENCLOSURES**

The Contractor shall supply, erect and maintain in good repair guard railing and barricades, temporary Site enclosures and pedestrian walkways complete with roof, side covers, signs and electrical lighting as required by the Engineer, local authorities, or By-Laws to protect workers, the public, and public/private property from injury or damage during the performance of the Work. Barricades shall be erected around all deep excavations, open shafts, open stair wells, or other areas of construction. The Contractor shall barricade the sidewalk at a location in line with the property line upon commencement of construction and maintain the barricades until the Work is complete and the sidewalks have been repaired.

Temporary fencing shall be constructed using a minimum 1.2 metre high new snow fence securely wired to rolled steel 'T'

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bar fence posts spaced at 2.4 metre centers all of which shall conform to the requirements of the authorities having jurisdiction.

**3.10 TREE AND PLANT  
PROTECTION**

No trees whatsoever shall be cut down or removed from the Site without the written permission of the Engineer. Trees, shrubbery, fences, poles and all other private or public surface structures shall be protected unless their removal is shown on the Drawings or authorized by the Engineer.

Cutting of roots and tree branches shall be done under the supervision and direction of the Engineer. The Contractor shall protect existing trees and plants located on the Site or adjoining properties from any potential damage which could occur as a result of the Work. The Contractor shall carefully wrap and encase all trees with burlap and timbers to a minimum height of 2.5 metres where adjacent to the Work, material storage areas or vehicle lanes. Site enclosures, fencing, hoardings, or other protective facilities shall not be secured, braced, or otherwise fastened to trees.

Tree roots shall be protected during excavation and grading so they receive minimum possible disturbance and damage. The Contractor shall not allow traffic, vehicles and equipment to compact the soil over tree and plant root systems.

**3.11 ACCESS AND  
PARKING**

The Contractor shall provide and maintain access roads, sidewalk crossings, ramps, and construction runways in a condition suitable for a passenger car to enter the Site. Access to the Site shall be restricted to designated access roads as shown on the Drawings, or as directed by the Engineer.

Access to driveways, lanes and unloading areas shall be provided and maintained by the Contractor except when actual construction operations prohibit such access during normal working hours. Prior to the closure of any private driveway or loading area, the public so affected by the closure shall be given a minimum of forty eight (48) hours notice in order that vehicles may be removed if necessary. The Contractor shall advise all emergency services as to the location, nature and duration of any road closure

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Parking space on City Streets will be made available for construction vehicles, but shall be limited to light duty trucks and small equipment. The parking of heavy construction equipment shall be restricted to the Site. Parking will not be allowed on roadways if disruptive to public traffic flow or access to the Site and parking shall be permitted on the Site, only if it does not disrupt the performance of the Work. The City assumes no responsibility for any inconvenience or costs incurred by the Contractor due to road passage restrictions or interruptions resulting from the Work.

**3.12 TEMPORARY  
OFFICE**

If requested in the Supplemental Conditions, the Contractor shall supply and maintain in a clean condition during entire progress of the Work, a suitable office, furnished with a table, chairs, drawing lay down table, storage for the Contract Documents, and of sufficient size to accommodate site meetings (10 people) and not interfere or conflict with the Contractor's daily office usage. The office shall be of sound construction, weather proof, well ventilated, and adequately heated and lighted.

**3.13 TEMPORARY  
STORAGE**

The Contractor shall supply and maintain, in a clean and orderly condition, suitable locked, weatherproof sheds with raised floors, for the storage and protection of tools, equipment, Products and materials. The Contractor shall allocate storage areas on Site for materials which are not required to be placed in weatherproof sheds. Limit storage of materials and items to designated storage areas only and store in a manner which causes the least interference with construction activities.

END OF SECTION