

1. SITE CONDITIONS/LIMITS

1.1 Examination of Site

- .1 Prior to commencing actual construction work, inspect field conditions, obtain and confirm actual site dimensions, examine surface conditions as required to ensure correct execution of the Work.
- .2 Maintain or arrange for the removal, relocation and replacement as appropriate of any existing utilities, which may be affected by the Work.
- .3 Arrange for the removal, relocation, and replacement as appropriate, of process piping, equipment, electrical conduit, and concrete pads and supports.

2. DOCUMENTS/INSTRUCTIONS

2.1 Documents Provided

- .1 Upon award of the Contract, the Contractor will be provided with five (5) complete sets of the Tender Documents (including Drawings) and two (2) copies of any revised Drawings or Addenda to the Tender Documents, which may have been issued during the tendering period. Should the Contractor require additional sets of Drawings or Documents, these will be supplied to him at cost.

2.2 Discrepancies/Omissions

- .1 Notify the Contract Administrator immediately upon discovery of discrepancies or omissions in the Contract Documents or of any doubt as to the meaning or intent of any part thereof.
- .2 To proceed with the work when an error is suspected or when there is doubt as to the interpretation of the project requirements constitutes full acceptance of any cost associated with any remedial work, which may be required.

2.3 Documents on Site

- .1 Maintain one (1) copy of all current Contract Documents and all shop drawings on site, in good order and available to the Contract Administrator or his representatives.
- .2 This requirement does not include the executed Contract Documents.

3. CHANGES TO THE WORK

- .1 Refer to the Contract General Conditions regarding changes to the Work.
- .2 Contemplated Change Notice (CCN): issued after award of Contract, does NOT constitute an order to perform the change but is a notice of a proposed change only. Submit to the

Contract Administrator within seven (7) days after receipt of “Contemplated Change Notice” a statement of cost adjustments and effect upon construction schedule required by the proposed change. Itemize statement in accordance with all items separately listed.

- .3 Field Order (FO): during Construction, the Contract Administrator may issue a Field Order to authorize a change or additional work of an emergency nature. A firm total cost (extra or credit) or a method for determining this cost must be included (unit price, cost plus or time basis).
- .4 Change Order (CO): after receipt of the statement of cost adjustment and the City’s approval, the Contract Administrator will issue a “Change Order” in the amount of the approved cost adjustment, which will authorize the Contractor to proceed with the change to the Work, or alternatively will notify the Contractor that the proposed change is cancelled.
- .5 Field Instructions (FI): the Contract Administrator may issue during construction, a Field Instruction to supplement or clarify the Contract Documents. Neither the contract price nor the contract time is affected by a Field Instruction.

4. SUBSURFACE CONDITIONS

- .1 A copy of the geotechnical report with respect to the project is available for review and is for general information only. The contents of this report shall not be construed as a requirement of this contract. The Bidder shall make his own interpretation of the data provided and shall carry out such additional investigations, as he deems necessary for the preparation of his Bid at his own expense.

5. SITE PREPARATION

5.1 Description

- .1 This specification shall cover site preparation, including mobilization, field office facilities, equipment and fuel compounds, site drainage, access roads, storage areas, and turnarounds, site contamination and clean-up, demobilization and site restoration, and other contractor related tasks required as a portion of the Works for this Contract.
- .2 The work to be done by the Contractor under this Specification shall include the furnishing of all superintendence, overhead, labour materials, all things necessary for and incidental to the satisfactory performance and completion of all work as hereinafter specified.

5.2 Construction Methods

- .1 Use of Public Roads and Right-of-Ways
 - .1 Maintenance
 - .1 It shall be the responsibility of the Contractor to keep public roads and right-of-ways used by their construction activities and traffic clean and maintained during the construction period.

- .2 Earth, gravel, sand or other construction materials spilled from hauling equipment onto public roads and right-of-ways shall be picked up promptly and continuously at the Contractor's expense.
 - .3 Any damage to public roads and right-of-ways caused by the Contractor's construction activities shall be repaired at the Contractor's expense as directed by the Contract Administrator or the authority having jurisdiction.
 - .4 Public roads and right-of-ways shall be kept unobstructed and not used for stockpiling or storage of materials, equipment, garbage, or Contractor's vehicles.
- .2 Construction Traffic Crossing and Entering Public Roads
 - .1 The Contractor shall limit their construction traffic crossing or entering public roads to as few locations as possible. Crossing and entrance locations shall be provided to the Contract Administrator for review and approval prior to construction starting.
 - .2 Where construction traffic crosses or enters onto public roads and right-of-ways the Contractor shall obtain the necessary approvals and provide signing and temporary traffic controls detailed in the Workzone Signing Procedures for Utility Operations (Revised June 1999) from the Manitoba Transportation and Government Services.
- .2 Site Drainage
 - .1 Provision of adequate site drainage during the Work shall be the Contractor's responsibility. No extra payments or time extensions will be granted as a result of difficulties associated with site access resulting from poor site drainage during any part of the Work.
 - .2 Any areas requiring clearing and grubbing to maintain adequate site drainage shall be reviewed with the Contract Administrator prior to commencement of the Work.
- .3 Demobilization and Site Restoration
 - .1 Further to GC:6.29, the Contractor shall demobilize, clean up, and remove all repair work related surplus materials, tools, equipment, waste and debris, access roads, storage areas, turnarounds, approaches to public roads, ditch crossings, and temporary culverts and dispose off site and backfill excavations by the day set for Substantial Performance.
 - .2 The Contractor shall at their own expense, restore all surface areas damaged or disturbed by their activities at or adjacent to the site to a condition equal to or better than was existing.
- .4 Restricted Access Areas
 - .1 Refer to the site plan for area identified as restricted access. No admittance to this area by the Contractor or Contractor's personnel without the Contract Administrator's permission.

6. ENVIRONMENTAL PROTECTION

- .1 The Contractor shall be aware that the Deacon Booster Pumping Station is for potable water supply and no contamination by fuel or other chemicals shall be permitted at any time.
- .2 The Contractor shall plan and implement the Work of this Contract strictly in accordance with the requirements of the environmental protection measures as herein specified.
- .3 The Contractor is advised that at least the following Acts, Regulations, and By-laws apply to the Work.
 - .1 Federal
 - .1 Canadian Environmental Protection Act (CEPA) c.16
 - .2 Transportation of Dangerous Goods Act and Regulations c.34
 - .2 Provincial
 - .1 The Dangerous Goods Handling and Transportation Act D12
 - .2 The Endangered Species Act E111.
 - .3 The Environment Act c.E125
 - .4 The Fire Prevention Act F80
 - .5 The Manitoba Nuisance Act N120
 - .6 The Public Health Act c.P210
 - .7 The Workplace Safety and Health Act W120
 - .8 And current applicable associated regulations.
- .4 The Contractor is advised that the following environmental protection measures apply to the Work.
 - .1 Materials Handling and Storage
 - .1 The Contractor shall abide by the requirements of Manitoba Conservation for handling and storage of fuel products.
 - .2 All fuel handling and storage facilities shall comply with the Dangerous Goods and Transportation Act, Storage and Handling of Petroleum Products Regulation and any local land use permits.
 - .2 Fuel Handling and Storage

- .1 Fuels, lubricants, and other potentially hazardous materials as defined in The Dangerous Goods and Transportation Act shall be stored and handled within the approved storage areas.
 - .2 The Contractor shall ensure that all fuel storage containers are inspected daily for leaks and spillage. Damaged or leaking fuel storage containers shall be promptly removed from the site.
 - .3 When servicing requires the drainage or pumping of fuels, lubricating oils or other fluids from equipment, a groundsheet of suitable material (such as HDPE) and size shall be spread on the ground to catch the fluid in the event of a leak or spill. This groundsheet may be supplemented with absorbent fabric material.
 - .4 Refuelling of mobile equipment and vehicles shall take place at least 100 metres from a water reservoir shoreline.
 - .5 The areas around storage sites and fuel lines shall be distinctly marked and kept clear of snow and debris to allow for routine inspection and leak detection.
 - .6 A sufficient supply of materials, such as absorbent material and plastic oil booms, to clean up minor spills shall be stored nearby on-site. The Contractor shall ensure that additional material can be made available on short notice.
- .3 Waste Handling and Disposal
- .1 The construction area shall be kept clean and orderly at all times during and at completion of construction.
 - .2 At no time during construction shall personal or construction waste be permitted to accumulate for more than one (1) day at any location on the construction site, other than at a dedicated storage area as may be acceptable to the Contract Administrator.
 - .3 Indiscriminate dumping, littering, or abandonment shall not take place.
 - .4 No on-site burning of waste is permitted.
 - .5 The Contractor shall provide waste collection bins within the laydown area acceptable to the Contract Administrator.
- .4 Dangerous Goods/Hazardous Waste Handling and Disposal
- .1 Dangerous goods/hazardous waste is identified by, and shall be handled according to, the Dangerous Goods Handling and Transportation Act and Regulations.
 - .2 The Contractor shall be familiar with the Dangerous Goods Handling and Transportation Act and Regulations.
- .5 Emergency Spill Response

- .1 The Contractor shall ensure that due care and caution is taken to prevent spills.
- .2 The Contractor shall report all major spills of petroleum products or other hazardous substances with the potential for impacting the environment and threat to human health and safety to the Contract Administrator and Manitoba Conservation, immediately after occurrence of the environmental accident, by calling the 24-hour emergency telephone number (204) 945-4888.
- .3 The Contractor shall designate a qualified supervisor as the on-site emergency response coordinator for the project. The emergency response coordinator shall have the authority to redirect manpower in order to respond in the event of a spill.
- .4 The following actions shall be taken by the person in charge of the spilled materials or the person(s) arriving at the scene of a hazardous material accident or the on-site emergency response coordinator.
- .5 Notify emergency-response coordinator of the accident:
 - .1 Identify exact location and time of accident
 - .2 Indicate injuries, if any
 - .3 Request assistance as required by magnitude of accident (Manitoba Conservation 24-hour Spill Response Line (204) 945-4555, Police, Fire Department, Ambulance, company back-up).
- .6 Assess situation and gather information on the status of the situation, noting:
 - .1 Personnel on-site
 - .2 Cause and effect of spill
 - .3 Estimated extent of damage
 - .4 Amount and type of material involved
 - .5 Proximity to waterways and the reservoirs.
- .7 If safe to do so, try to stop the dispersion or flow of spill material:
 - .1 Approach from upwind
 - .2 Stop or reduce leak if safe to do so
 - .3 Dike spill material with dry, inert absorbent material or dry clay soil or sand
 - .4 Prevent spill material from entering waterways and utilities by diking
 - .5 Prevent spill material from entering manholes and other openings by covering with rubber spill mats or diking.

- .8 Resume any effective action to contain, clean up, or stop the flow of the spilled product.
- .9 The emergency response coordinator shall ensure that all environmental accidents involving contaminants shall be documented and reported to Manitoba Conservation according to the Dangerous Goods Handling and Transportation Act Environmental Accident Report Regulation 439/87.

END OF SECTION