
1.1 GENERAL

- .1 Carry out work placing maximum emphasis on the areas of:
 - .1 Waste Reduction
 - .2 Division of waste from landfill and;
 - .3 Material recycling.

1.2 RELATED SECTIONS

- .1 Section 01 35 44 - Environmental Protection Procedures for Marine Work
- .2 Section 01 10 10 - General Instructions
- .3 Section 03 30 00 - Cast-in-Place concrete

1.3 MEASUREMENT PROCEDURES

- .1 Removal of construction material/excavation.
 - .1 All non-creosote, non-treated and non-fill (type) construction material, including reinforced concrete, armour stone, ballast, steel, untreated timber etc. that needs to be removed from the work (to either facilitate the work or to ensure the structural integrity of the work) and as agreed upon with Departmental Representative shall be disposed off-site.
 - .2 All creosote and treated timber construction material including piles that need to be removed from the work (to facilitate the work or ensure the structural integrity of the work as agreed upon with the Departmental Representative.
 - .3 All excavated material shall be disposed off-site.
- .2 Removal of construction material existing and excavated, etc. shall be disposed off-site in accordance with all applicable environmental legislation or other requirements. This item shall be considered incidental to the project and not paid separately.
- .3 Measurement for Payment
 - .1 Costs associated with Section, unless indicated otherwise, will be considered incidental to the Work.
 - .2 The removal and reinstatement of the items will be measured for payment on a Lump Sum and included in this Section.
 - .3 Other demolition and disposal will be paid as Lump Sum.

1.4 WASTE MANAGEMENT PLAN

- .1 Prior to commencement of work, prepare waste management work plan.
- .2 Work plan to include:
 - .1 Waste reduction practices.
 - .2 Material source separation process.
 - .3 Procedures for sending recyclables to recycling facilities.

- .4 Procedures for sending non-salvageable items and waste to approved waste processing facility or landfill site.
- .5 Training and supervising workforce on waste management at site.
- .3 Work plan to incorporate waste management requirements specified herein and in other sections of the Specifications.
- .4 Develop work plan in collaboration with all subcontractors to ensure all waste management issues and opportunities are addressed.
- .5 Submit copy of work plan to Departmental Representative for review.
- .1 Make revisions to plan as directed by Departmental Representative.
- .6 Implement and manage all aspects of Waste Management Work plan for duration of work.
- .7 Revise plan as work progresses addressing new opportunities for diversion of waste from landfill.

1.5 WASTE REDUCTION

- .1 Develop waste reduction program.
- .2 Structure program to prioritize actions, with waste reduction as first priority, followed by salvage and recycling effort, then disposal as solid waste.
- .3 Identify materials and equipment to be:
 - .1 Salvaged for resale by Contractor.
 - .2 Sent to recycling facility.
 - .3 Sent to waste processing/landfill site for their recycling effort
 - .4 Disposed of in approval landfill site.
- .4 Reduce construction waste during installation work. Undertake practices which will minimize waste and optimize full use of new materials on site, such as:
 - .1 Use of a central cutting area to allow for easy access to off-cuts;
 - .2 Use of off-cuts for blocking and bridging elsewhere.
 - .3 Use of effective and strategically placed facilities on site for storage and staging of left-over or partially cut materials (such as plywood, dimension timber, etc.) to allow for easy incorporation into work whenever possible avoiding unnecessary waste.
- .5 Develop other strategies and innovative procedures to reduce waste.

1.6 MATERIAL SOURCE SEPARATION PROCESS

- .1 Develop and implement material source separation process at commencement of work as part of mobilization and waste management at site.
- .2 Provide on-site facilities to collect, handle and store anticipated quantities of reusable, salvageable and recyclable materials.
- .3 Use suitable containers for individual collection of items based on intended purpose.

- .4 Locate to facilitate deposit but without hindering daily operations.
- .5 Establish methods whereby hazardous and toxic waste materials, and their containers, encountered or used in the course work are properly isolated, stored on site and disposed in accordance with applicable laws and regulations from authorities having jurisdiction.

1.7 WORKER TRAINING AND SUPERVISION

- .1 Provide adequate training to workforce, through meetings and demonstrations, to emphasize purpose and worker responsibilities in carrying out Waste Management Plan.
- .2 Waste Management Coordinator: designate full-time person on site, experienced in waste management and having knowledge of the purpose and content of Waste Management Plan to:
 - .1 Oversee and supervise waste management during work.
 - .2 Provide instructions and directions to all workers and subcontractors on waste reduction, source separation and disposal practices.
 - .3 Post a copy of plan in a prominent location on site for review by workers.

1.8 DISPOSAL REQUIREMENTS

- .1 Dispose of waste only at approved waste processing facility or landfill sites approved.
- .2 Contact the authority having jurisdiction prior to commencement of work, to determine what, if any construction waste materials have been banned from disposal in landfills. Take appropriate action to isolate such banned materials at site of work and dispose in strict accordance with provincial and municipal regulations.
- .3 Collect, bundle and transport salvaged materials to be recycled in separated categories and condition as directed by recycling facility. Ship materials only to approved recycling facilities.
- .4 Sale of salvaged items by Contractor to other parties not permitted on site.

END OF SECTION