

1.1 RELATED
SECTIONS

- .1 Section 01 35 43 - Environmental Procedures.
- .2 Section 02 41 16 - Sitework, Demolition, and Removal.
- .3 Section 03 30 00 - Cast-in-Place Concrete.
- .4 Section 06 05 73 - Wood Treatment.
- .5 Section 31 53 13 - Timber Cribwork.
- .6 Section 31 53 16 - Structural Timber.

1.2 WASTE
MANAGEMENT PLAN

- .1 Prior to commencement of Work, prepare Waste Management Workplan.
- .2 Workplan to include:
 - .1 Waste audit;
 - .2 Waste reduction practices;
 - .3 Material source separation process;
 - .4 Procedures for sending recyclables to recycling facilities;
 - .5 Procedures for sending non-salvageable items and waste to approved waste processing facility or landfill site;
 - .6 Training and supervising workforce on waste management at site.
- .3 Workplan to incorporate waste management requirements specified herein and in other sections of the Specifications.
- .4 Develop Workplan in collaboration with all sub-contractors to ensure

all waste management issues and opportunities are addressed.

- .5 Submit copy of Workplan to Departmental Representative for review and approval.
 - .1 Make revisions to Workplan as directed by Departmental Representative.
- .6 Implement and manage all aspects of Waste Management Workplan for duration of Work.
- .7 Revise Workplan as Work progresses, addressing new opportunities for diversion of waste from landfill.

1.3 WASTE AUDIT

- .1 At beginning of project, conduct waste audit of:
 - .1 Site conditions, identifying salvageable and non-salvageable items and waste resulting from demolition and removal Work.
 - .2 Projected waste resulting from product packaging and from material left over after installation Work.
- .2 Develop written list. Record type, composition, and quantity of various salvageable items and waste anticipated, reasons for waste generation, and operational factors which contribute to waste.

1.4 WASTE REDUCTION

- .1 Based on waste audit, 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 Protected and turned over to Departmental Representative when indicated;
 - .2 Salvaged for resale by Contractor;
 - .3 Sent to recycling facility;
 - .4 Sent to waste processing/landfill site for their recycling effort; or
 - .5 Disposed of in approved 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; and
 - .3 Use of effective and strategically placed facilities on site for storage and staging of left-over or partially cut materials (such as gypsum board, plywood, ceiling tiles, insulation, etc.) to allow for easy incorporation into Work whenever possible thus avoiding unnecessary waste.
- .5 Develop other strategies and innovative procedures to reduce waste such as minimizing the extent of packaging used for delivery of materials to site, etc.

1.5 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.
 - .1 Use suitable containers for individual collection of items based on intent.
 - .2 Locate to facilitate deposit but without hindering daily operations of existing building tenants.
 - .3 Clearly mark containers and stockpiles as to purpose and use.
- .3 Perform demolition and removal of existing structure components and equipment following a systematic deconstruction process. Separate materials and equipment at source, carefully dismantling, labelling, and stockpiling alike items for the following purposes:
 - .1 Reinstallation into the Work where indicated.
 - .2 Salvaging reusable items not needed in project which Contractor may sell to other parties. Sale of such items not permitted on site.
 - .3 Sending as many items as possible to locally available recycling facility.
 - .4 Segregating remaining waste and debris into various individual waste categories for disposal

in a "non-mixed state" as recommended by waste processing/landfill sites.

- .4 Isolate product packaging and delivery containers from general waste stream; send to recycling facility or return to supplier/manufacturer.
- .5 Send leftover material resulting from installation Work to recycling facility whenever possible.
- .6 Establish methods whereby hazardous and toxic waste materials and their containers, encountered or used in the course of Work, are properly isolated, stored on site, and disposed of in accordance with applicable laws and regulations from authorities having appropriate jurisdiction.
- .7 Isolate and store existing materials and equipment identified for re-incorporation into the Work and protect said materials and/or equipment against damage.

1.6 WORKER TRAINING
AND SUPERVISION

- .1 Provide adequate training to workforce, through meetings and demonstrations, to emphasize purpose and worker responsibilities in carrying out the 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 the Waste Management Plan, to:

- .1 Oversee and supervise waste management during Work; and
 - .2 Provide instructions and directions to all workers and sub-contractors on waste reduction, source separation, and disposal practices.
 - .3 Post a copy of the Waste Management Plan in a prominent location on site for review by workers.

- 1.7 CERTIFICATE OF MATERIAL DIVERSION
 - .1 Submit to Departmental Representative copies of certified weigh bills from authorized waste processing sites and sale receipts from recycling/reuse facilities confirming receipt of building materials and quantity of waste diverted from landfill.
 - .2 Submit data at pre-determined project milestones as determined by Departmental Representative.
 - .3 Compare actual quantities diverted from landfill with projections made during waste audit.

- 1.8 DISPOSAL REQUIREMENTS
 - .1 Burying or burning of rubbish and waste materials is prohibited.
 - .2 Disposal of waste, volatile materials, mineral spirits, oil, paint, paint thinner, or unused preservative material into waterways or storm or sanitary sewers is prohibited.
 - .3 Do not dispose of preservative-treated wood through incineration.

- .4 Do not dispose of preservative-treated wood with other materials destined for recycling or reuse.
- .5 All treated wood is to be disposed of at the one of the Provincial Regional lined waste disposal sites at either Robin Hood Bay, St. John's, NL or Norris Arm, NL. The owner will be responsible for testing of the treated wood in accordance with the "Treated Wood Waste Disposal" Guidance Document published by the Provincial Department of Municipal Affairs and Environment" (GD-PPD-PPD-075.1). The results of this testing will be provided to the Contractor prior to the disposal of any treated wood. Refer to Appendix "A" Regulatory Approvals for details.
- .6 Dispose of waste only at provincially approved landfill sites.
- .7 Contact the authority having jurisdiction prior to commencement of Work to determine what, if any, demolition and construction waste materials have been banned from disposal in landfills and at transfer stations. Take appropriate action to isolate such banned materials at site of Work and dispose of in strict accordance with provincial and municipal regulations.
- .8 Transport waste intended for landfill in separated condition, following rules and recommendations of Landfill Operator in support of their effort to divert, recycle, and

reduce amount of solid waste placed
in landfill.

- .9 Collect, bundle, and transport
salvaged materials to be recycled in
separated categories and condition
as directed by recycling facility.
Ship materials only to recycling
facilities approved by Departmental
Representative.
- .10 Sale of salvaged items by Contractor
to other parties not permitted on
site.

END OF SECTION