

SECTION 02061 SALVAGE, REUSE AND RECYCLING

(Note to author: This Specification does not replace Demolition Section 02060. Instead it is used in conjunction with it when there is salvage, reuse and/or recycling of building materials and equipment.)

PART 1 GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and general provisions of the contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this section.

1.02 SUMMARY:

- A. This Section includes the dismantling, moving or salvaging designated structures, materials and fixtures.
- B. Work in the section also includes sorting materials for salvage, re-use, recycling and recovery.
- C. Work salvage by Owner
- D. Related Work Specified in other Sections
 - 1. Section 01690: Waste Materials Management and Recycling
 - 2. Section 01210: Remove materials from site
 - 3. Section 02060: Building Demolition:
 - 4. Section 02110: Site Clearing

1.03 DEFINITIONS:

- A. Salvage is defined as the recovery or reapplication of a package or product for uses similar or identical to its originally intended application, without manufacturing or preparation processes that significantly alter the original package or product. Salvage refers to materials that are recovered for reuse off-site and sold or donated to a third part.
- B. Reuse is defined as the recovery of a package or product for uses similar or identical to its originally intended application, without manufacturing or preparation processes that significantly alter the original package or product. Reuse refers to materials or equipment that are re used on-site.
- C. Recycling is defined as the process of collecting and preparing recyclable materials and reusing them in their original form or in manufacturing processes that do not cause the destruction of recyclable materials in a manner that precludes further use.
- D. Recovery is defined as any process that reclaims materials, substances, energy or other products contained within or derived from the waste. It includes waste-to-energy, composting, and other processes.

1.04 SUBMITTALS:

- A. Submit dismantling and removal procedures and schedule in accordance with Section 02060.
- B. Materials Salvage and Reuse Management Plan: Before the start of demolition, submit for the approval of Contracting Officer's Representative Materials Salvage and Reuse Management Plan for all materials designated to be salvaged or reused. The Plan shall indicate how the Contractor proposes to salvage and reuse demolition waste. The Contractor must salvage, reuse, recycle and recover at least 80% of demolition waste by volume. Include a list of salvage and reuse outlets which indicated salvageable materials will be sent to. Identify materials that are not recyclable or otherwise not recoverable that must be disposed of in a landfill or other means acceptable under State of Minnesota and local regulations. List permitted landfills and/or other disposal means to be employed for building waste that can not be recycled. Indicate any instances where compliance with requirements of this specification does not appear to be possible and request resolution from the Contracting Officer through the Contracting Officer's Representative.
- C. Submit landfill tipping receipts which provide volumes per Section 01690.
- D. Submit receipts for materials types, weight or volume, and revenues from salvage, reuse and recycling per Section 01690.
- E. Submit inventory of items or materials which were salvage and reused.
- F. Submit inventory of significant landscape features, including assigned penalties as described in 1.08, Habitat Protection

1.05 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with all applicable requirements of the State of Minnesota and applicable local ordinances and regulations concerning management of demolition and land clearing and any and all subsequent modifications and amendments to same.
- B. Pre-Construction Salvage and Reuse Management Conference: Prior to the beginning of Work at the site, schedule and conduct a conference to review the Materials Salvage and Reuse Management Plan and discuss procedures, schedules and specific requirements for materials to salvage, reuse, recycle or disposed. Discuss coordination and interface between the Contractor and other construction activities. Identify and resolve problems with compliance with the plan and other requirements. Record minutes of the meeting, identifying all conclusions reached and matters requiring further discussion and resolution.
 - 1. Attendees: The Contractor and related Contractor personnel associated with the work of this section, including personnel to be in charge of the materials to be salvaged and reused; the Construction Quality Manager; the Architect; and such additional Owner personnel as the Owner deems appropriate.

2. Plan Revision: Make any revision to the Materials Salvage and Reuse Management Plan agreed upon during the meeting and incorporate resolutions agreed to be made subsequent to the meeting. Submit the revised plan to the Architect for approval.

C. Implementation: Designate an on-site party responsible for instructing workers and implementing the Materials Salvage and Reuse Management Plan. Distribute copies of the Materials Salvage and Reuse Management Plan to the job site foreman and each appropriate subcontractor. Provide on-site instruction on appropriate salvaging, removing, recovering and handling procedures to be used by all subcontractors at appropriate stages of the work at the site. Also include discussion of Materials Salvage and Reuse Management Plan in regular job meeting as long as it appropriate to do so.

1.06 STORAGE AND HANDLING:

A. Site Storage: Remove all materials that is to be salvaged and reuse from the site to an approved location designated by the Owner. If the salvage materials are to remain on site, the Contractor shall at his option either place the materials on the site or move the materials off site until they are required. If the material is stored, a secure and protected location shall be created where the salvage materials will be secure from damage and thief. If the material is of extreme value, the Contractor or the Owner shall specifically include these items on this Builder Risk or Property Insurance.

B. Handling: Remove and handle salvage materials with care. Move salvage materials so that no damage, dirt, adhesives, solvents or other contaminants come in contact with them. If the materials becomes contaminated, request resolution by the Construction Quality manager so that the situation can be cleaned or mitigated.

1.07 EXISTING CONDITIONS

A. Following all demolition procedures described in Section 02060 Building Demolition to do salvage work.

1.08 HABITAT PROTECTION

A. The Owner shall identify and tag significant landscape features and assign penalties for damaging each feature. The following is a list of significant features and assigned penalties.

(Note to author: list all existing trees, bushes, wetlands areas, and other significant natural features to be preserved and assign a value for their disruption.)

PART 2 PRODUCTS

2.01 SALVAGED AND REUSED MATERIALS:.

A. The following paragraphs supplement materials to be salvaged or reused listed in part 1 Summary article above: (Note to author: the following is a list of items that would typically be salvage or reused in a project. Edit to suit

project.)

1. Building(s): [move] or [dismantle and relocate] or [donate].
2. Building components and fixtures:
 - a. Windows
 - b. Doors
 - c. Cabinets, millwork,
 - d. Paneling and other similar interior finishes
 - d. Hardware
 - e. Electrical fixtures, motors, switch gear and other similar equipment
 - f. Plumbing fixtures: [Salvage] or [crush porcelain plumbing fixtures for fill].
3. Wood: Sort by type and size for salvage.
 - a. Clean dimensional wood
 - b. Timber, micro and laminated beams.

PART 3 EXECUTION

3.01 PREPARATION

- A. Follow demolition specifications Section 02060 for all procedure concerning demolition and dismantling of the structure.

3.02 EXECUTION

- A. The Contractor will be responsible for ensuring that the appropriate governmental entities, such as the Minnesota Pollution Control Agency (MPCA) or local authorities, are notified of the work.
- B. Follow demolition specifications Section 02060 for all procedure concerning demolition and dismantling of the structure.
- C. Except materials designated for reuse on site, immediately relocated, recycle or dispose of all other demolished material away from site in accordance with section 02060. When the drawings indicate that trees are to be removed, the subcontractor shall chip the demolished vegetation and deliver it to a staging site designated by the Owner.
- D. Archeological relics, antiques, and similar objects remain the property of the Owner . Notify the Owner when such items are discovered on the site and obtain acceptance regarding method of relocation.
- E. Remove and relocate reusable materials to be reinstalled or retained in manner to prevent damage. Store and protect in accordance with requirements of section 01210.
- F. Remove demolished materials from site in accordance with section 01210 as work progresses. Leave site in clean condition.

- G. Conduct dismantling and demolition to minimize damage to trees, plants and landscape elements.

3.03 CONSTRUCTION WASTE MANAGEMENT

- A. All recycled materials shall comply with the 01690 Waste Materials Management Plan.

3.04 SCHEDULES

- A. The following materials, at a minimum, shall be reused, salvaged recycled or recovered:

1. [Windows]
2. [Doors]
3. [Cabinets, millwork, paneling and other similar interior finishes]
- 4 [Hardware]
5. [Electrical fixtures, motors, switch gear and other similar equipment]
6. [Plumbing fixtures]
7. [Wood: palettes, dimensional wood and timbers.]

- B. Relocate, store, and protect for reinstallation the following reusable materials and equipment:

1. [_____].
2. [_____].
3. [_____].

- C.1. Relocate the following material and equipment to be salvaged by the Owner. Deliver to [location agreed upon] [_____].

1. [_____].
2. [_____].
3. [_____]

- C.2. Relocate, store, and protect for salvage the following materials and equipment: 1. [_____].

2. [_____].
3. [_____].

- C.3. Relocate, store, and protect for reuse/relocation the following plant materials:

1. [_____].
2. [_____].
3. [_____].

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C.4. Relocate, store, and protect for recycling and/or recovery the following materials and equipment:

1. [_____].
2. [_____].
3. [_____].

END OF SECTION 02061