City of Scottsdale
Green Building Program

CONSTRUCTION AND DEMOLITION WASTE REUSE AND RECYCLING

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Construction and demolition waste constitutes about 40 percent of the total solid waste stream in the United States. Besides source reduction, building and material reuse is the most effective strategy for reducing the environment impacts of the waste stream. Reusing existing materials reduce the environmental burden of the manufacturing process. Replacing existing materials with new ones broadens environmental impacts associated with natural resource extraction, production, and transportation.

In most urban areas, landfill space is reaching capacity, requiring the conversion of more land elsewhere and raising the transportation costs of waste. Innovations in recycling technology improve sorting and processing to supply raw material to secondary markets, keeping those materials in the production stream for an extended period.

Material Reuse

By reusing materials on-site, donating, or selling salvageable items, you can cut waste costs and reduce material expenses. Determine the savings and cost of reusing, donating, and/or selling salvageable materials. The following are just a few of the materials that can be salvaged and/or donated locally:

> Appliances, block, bricks, carpeting, doors, flooring, lighting fixtures, metal framing, pipes, shelving, tile, windows, bathroom fixtures, cabinets, dimensional lumber, ductwork, insulation, marble, paneling, OSB & plywood, siding, trim, wood beams.

Construction Site Recycling

Recommended steps for an effective construction site recycling program:

- Include requirements for on-site recycling in all project documents and subcontracts.
- Decide what materials will be recycled on the project and determine which wastes subcontractors will be responsible for recycling.
- Clearly designate the recycling bins.
- Place garbage and recycling bins near each other, and close to the point of waste generation but out of the traffic pattern.
- Periodically check bins for contamination and check the wastes in the garbage dumpsters to see if recyclables are being thrown away.

Local Recycling and Reuse Facilities

Metal and steel

- Copper State Metals

- Davis Metals and Salvage
- Hendrix Salvage
- Liberty Iron and Metal
- Southwest Metals
- American Metals
- DeReel Tech Scrap Metal Processioning

Concrete, asphalt, masonry

- Johnson-Stewart
- Contractors Landfill & Recycling

Cardboard, wood, metal, and multiple materials

- Waste Management
- Weinberger Waste Disposal
- Republic Services
- Friedman Recycling
- Sierra Waste Systems
- SA Recycling

High density polyethylene (HDPE), low density polyethylene (LDPE), polyethylene, polystyrene (PS), terephthalate (PET)

- Friedman Recycling

Wood and millwork

- AZ Wood Grinding and Recycling
- Gro-Well

Ceiling tiles, millwork, doors, windows, misc.

- Stardust Building Supply
- Armstrong ceiling recycling program

Carpeting

- Aquafil Carpet Recycling

Please note that Tenant Improvement projects often reuse existing materials including doors, interior partitions, suspended ceiling, light fixtures, and mechanical duct work.