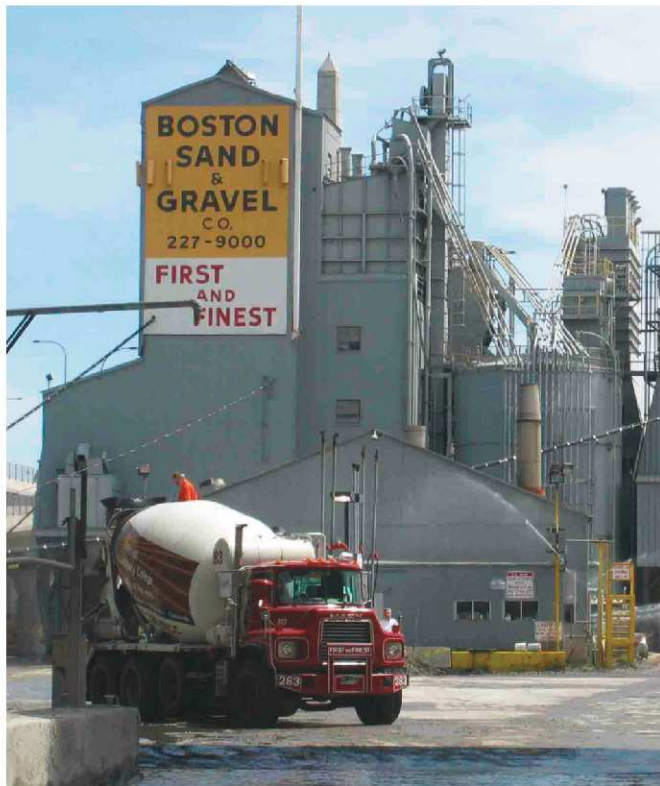


CATEGORY D HONORABLE MENTION

BOSTON SAND AND GRAVEL CO. CHARLESTOWN PLANT, BOSTON, MASS.



The Charlestown plant is a Boston landmark and industry classic. It encompasses three batch plants plus aggregate distribution and vehicle maintenance facilities on noncontiguous parcels of land approximately 10 and 5 acres, respectively, connected by a private access road. The Massachusetts Bay Transit Authority subway system, Massachusetts Transit Authority rail lines, Interstate 93, Bunker Hill Community College, and various industrial and commercial facilities abut the parcels.

Joining the batch plants in the ready mixed production complex are central dispatch office, quality control lab, and a wastewater treatment plant, fueling depot with two 10,000-gal. tanks; boiler house and plant; maintenance facility; recycling systems for co-mingled process and storm water; returned concrete recycling system; and, an area for managing returned concrete (block casting and ribbon feed). The aggregate distribution operation includes storage piles, conveyors, tunnels and a rail terminal. The vehicle maintenance complex houses one wash and eight service bays; lube, parts and equipment rooms; offices and driver break room; the "Barn," where 60 mixers park overnight; and, a warehouse.

The maintenance facility also houses a solar energy production system, powered by a roof-mounted, 109-kW photovoltaic panel array. Nearing its sixth year in operation, the array was designed to provide 75 percent of the maintenance facility's annual energy demand. Through a series of small improvements in garage operation, the building now consumes 43 percent less power than in 2008, while the array generates the equivalent of 110 percent of the facility's power needs. Accounting for lower output when the sun does not shine, annual electricity costs for the garage are down 89 percent since the photovoltaic panels were activated in December 2008. Boston Sand & Gravel carries a renewable energy message on mixer trucks, contracting with an artist who interprets the solar theme.

