

INDEPENDENT CEMENT CLINKER SILO

Owner

Independent Cement Corporation

Size/Capacity

30,000 tons

Completion Time

Civil - 6 months

Mechanical - 5 months

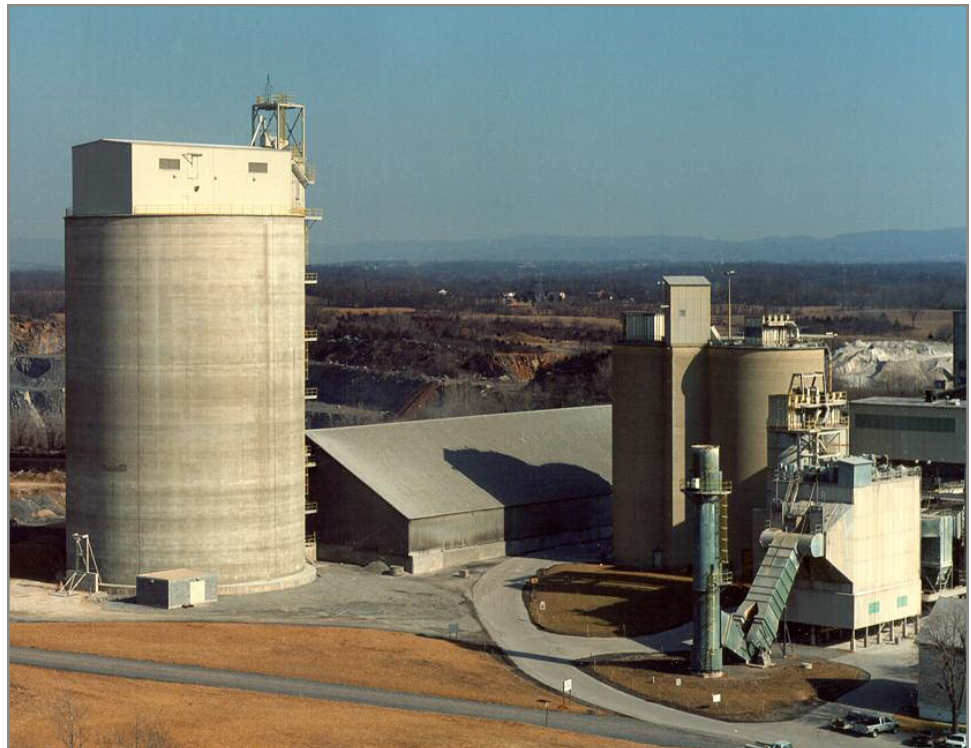
Younglove's Services

- General construction
- Construction management
- Slipform concrete construction
- Equipment installation

Hagerstown, Maryland

This 98-foot-diameter by 148-foot-tall silo required 16-inch thick walls with hoop reinforcing on the inside face, outside face, and in the center. The heavy reinforcing was required not only because of the large diameter of the silo, but also because clinker is roughly twice as dense as grain. Approximately 2,700 cubic yards of concrete went into the foundation, not including concrete for the mud slab, which evened up the rock surface below. A total of 104 tons of steel supported the roof deck in truss fashion, which also encompassed the penthouse structural.

The mechanical included some renovation and the modification of a two-way tripper into a three-way tripper. A belt conveyor extended from the tripper to a 250-ton-per-hour bucket elevator. Reclaim was via vibratory feeders and a belt conveyor. Work-hardened Triten steel was used for liner plates.



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