

# CTS Retaining Walls

Offered by  
**SPECIALTY CONSTRUCTION DESIGN, INC.**

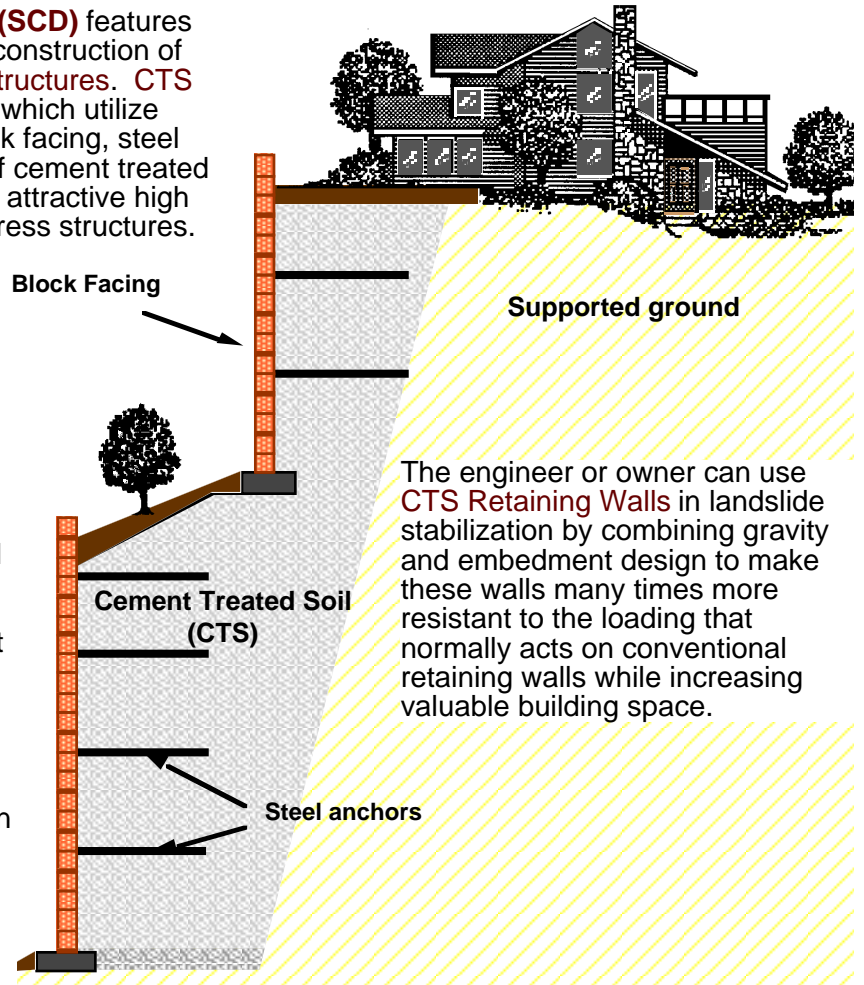
**SPECIALTY CONSTRUCTION DESIGN (SCD)** features the use of Cement Treated Soil (CTS) in construction of CTS Retaining Walls and Buttress Wall Structures. CTS Retaining Walls are composite structures which utilize reinforced grouted concrete masonry block facing, steel anchors combined with the stable mass of cement treated soil. This innovative technology results in attractive high strength, low cost retaining walls and buttress structures.

## TECHNICAL FEATURES

CTS Retaining Walls are designed as gravity and embedded resistant earth structures. The design of the CTS Retaining Wall incorporates geologic information to select the cement treated soil configuration and the amount of cement treatment. Using Computer Aided Design (CAD) systems, our engineers identify the loading that acts on the CTS Retaining Wall and the stresses that act at critical locations within it. Based on this information, the optimum geometry and cement treatment are selected.

Construction of the CTS Retaining Wall begins with a small conventional footing on which the concrete masonry units are set. Placement of the cement treated soil follows completion of a suitable height of facing. The manufacture of the cement treated soil uses a mechanically mixed combination of cement and select native earth. The cement treated soil is delivered to the CTS Retaining Wall construction area and placed with conventional earth moving and compaction equipment. The anchors and drainage components are strictly coordinated with the placement of the cement treated soil to assure the proper construction of the finished structure.

The higher CTS Retaining Walls may include terraces with the terrace forming planter areas for a variety of landscaping styles that coordinate with vegetation placed adjacent the base. Additionally, certain growth can be incorporated into the landscaping that attaches to the facing to provide an additional attractiveness.



The engineer or owner can use CTS Retaining Walls in landslide stabilization by combining gravity and embedment design to make these walls many times more resistant to the loading that normally acts on conventional retaining walls while increasing valuable building space.

