CASE STUDY
RETAINING STRUCTURES

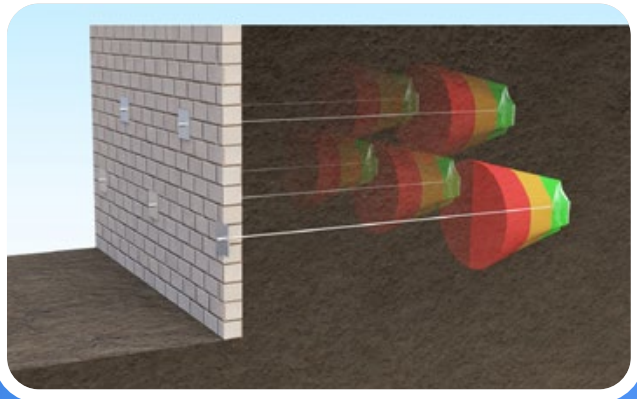
Sturbridge Road, Charlton, Massachusetts - US

OVERVIEW >>>>

The CMU retrofit on Sturbridge Road in Charlton, Massachusetts, involved stabilizing a retaining wall that was up to 64ft tall and 1,300ft long and required supplemental tie-back support. The project presented unique challenges, requiring anchor installation between existing geogrid lifts, all while adhering to a time-critical schedule. Platipus Anchors Inc. in partnership with several engineering firms including John Turner Consulting, and the installer; Hub Foundation, delivered a high-performance anchoring solution that met these requirements effectively.

SOLUTION >>>>

Platipus B4 and B6 Percussion Driven Earth Anchors (PDEA®) with all-thread rods were driven horizontally to depths of 15-17ft. These were deployed directly from the face of the wall without disturbing the existing structure, ensuring minimal disruption to the construction timeline. The anchors were proof-tested on-site to confirm they achieved the required design loads, satisfying strict engineering safety factors. Platipus engineers collaborated extensively with the geotechnical and civil engineering teams to optimize anchor placement and performance while reducing costs. The anchoring solution was vital for supporting the infrastructure surrounding this major development, and ensuring long-term structural stability. The wall retrofit project was completed on schedule by summer of 2024, demonstrating how expert collaboration and effective earth anchoring systems can address complex structural challenges with precision and efficiency.



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