

CASE STUDY

Scanning Concrete Prior to Anchor Installations

PROJECT:

Cement Cutting, Inc. was hired by a large General Contractor in the greater San Diego, California area. The project required new anchor locations for electrical work and sprinkler fittings to be placed in the ceilings of a multi-story building.

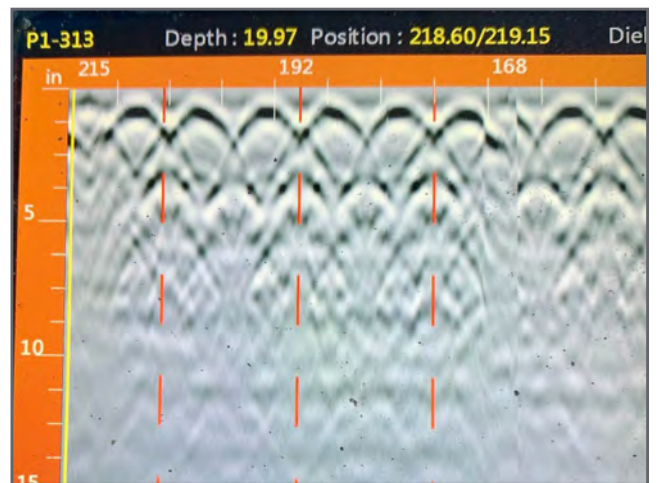
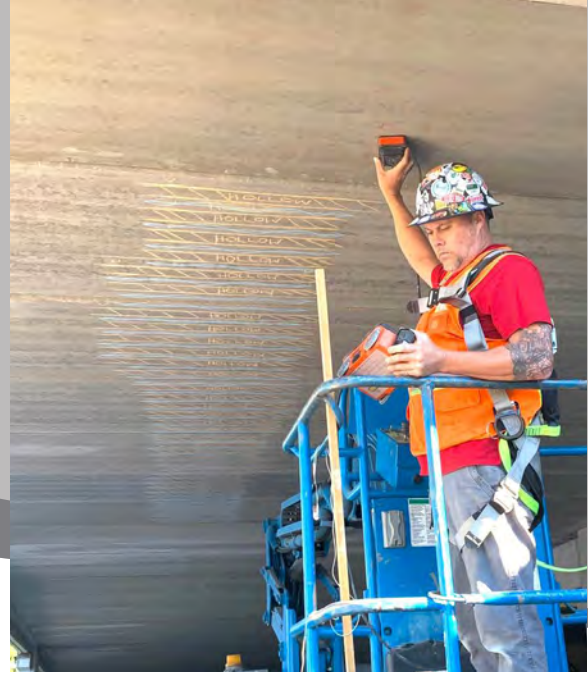
Cement Cutting technicians scanned the ceilings to determine the location of the pre-tensioned cables running through the hollow core concrete.

EQUIPMENT:

StructureScan™ Mini XT and Palm XT

RESULTS:

Pictured below are markouts of targets drawn on the concrete ceiling. Blue marks indicate the location of the pre-tensioned cables. Orange lines delineate the boundary of the voided areas.



GPR data image (above) displayed on the Mini XT system shows hyperbolic targets and user generated marks (red dashed lines) representing the location of the pre-tensioned cables.



WHAT IS HOLLOW CORE?

Hollow core slabs are prestressed and precast concrete elements manufactured using long line steel casting pallets. Longitudinal voids, or cores, run throughout a hollow core slab and provide ready-made ducts for services. Spans can be anywhere up to 20 m (65 ft) in length and vary in thicknesses from 15-30 cm (6- 12 in).



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