



Project: Nate Perry Elementary

*Beam
Strengthening*



New York, NY



Project Description:

The existing glue-lam beams were to be strengthened to carry the loads as shown diagrammatically on the structural drawings. The loading on the gymnasium glue-lam beams was increased by 144 pounds per lineal foot. The cafeteria beams also had new loading requirements.

Solution:

The engineer (C&S Engineers Inc.) designed a strengthening using fiber wrap applied to the bottom of the beams. He showed a loading diagram on the drawings and required a design to handle the increased loads.

Summary:

The gymnasium beams had a 53 foot span and were 30" deep; the cafeteria beams had a 40 foot span and were 27" deep. Three layers of SCH-41 were installed on the underside of the gym beams and two layers were applied to the cafeteria beam undersides.

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