

Cable-Supported Sloped Glazing: MIT Brain & Cognitive Sciences Building



Project:

MIT Brain & Cognitive Sciences Building
Cambridge, MA

Completion Date:

2004

Architect:

Goody, Clancy & Associates
Boston, MA

Contractor:

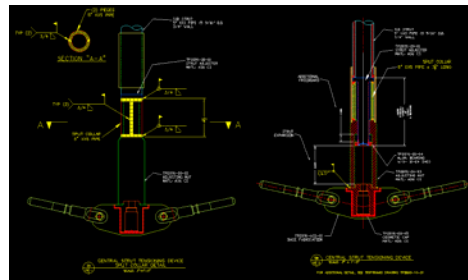
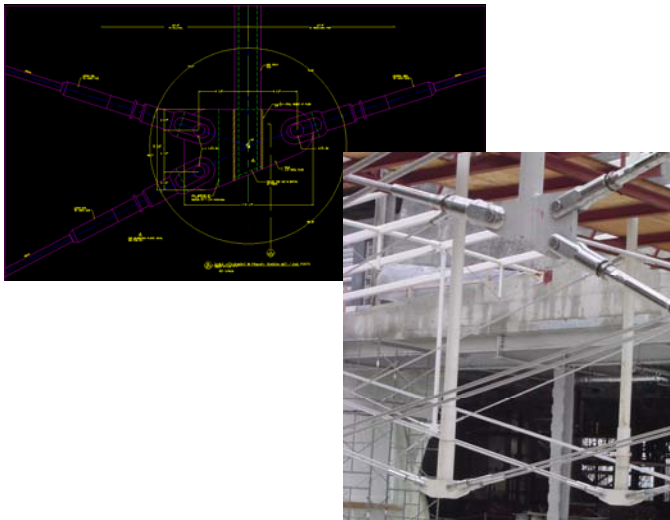
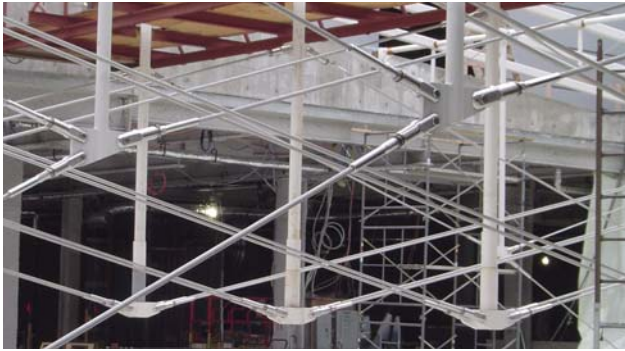
Turner Construction Company
Boston, MA

Project Summary:

The cable supported structural glazing system created for the MIT Brain & Cognitive Sciences Building presented an extremely challenging design requirement:

In order for the system to be structurally balanced, the cables had to be pre-tensioned to over 41,000 pounds.

Since there was no way to manually tighten the clevises to that degree, AGT designed a tension net solution which incorporates a sacrificial hydraulic cylinder positioned inside the king post.



A full-size 96' long mock-up was tested to prove the design concept prior to construction.



ARCHITECTURAL



GLAZING



TECHNOLOGIES