Case History for Elevator Hoistway Retrofit – NIST Government Building in Boulder, Colorado

Before - lobby site for future elevator

After - elevator installation complete

PROJECT SUMMARY

Client:	Armstrong Elevator for (NIST) National Institute of Standards and Technology
Engineer:	Short & Brennan Architects

Engineers load-testing micropiles

Dewatering required – 21" deep

Micropile with underpinning bracket

Park Range was awarded contract to install a new ADA compliant elevator hoist in an existing federal building on the National Institute of Standards & Technology campus in Boulder, Colorado.

Scope of Repairs included:

Create a safe and isolated clean work environment on the interior of a science and research building; Concrete demolition of 12" floor and walls; Excavation for new hoist way to below active water table; Dewatering and water management in excavation below water table; Micropile shoring of concrete building structures and below grade excavation; Casting new structural hoist way shaft with micropile deep foundation; Load testing micropile capacity using FHA pile load test protocol; Installation of structural steel members to accommodate hoist way openings; Waterproofing cast concrete; Meeting customer requirements for noise and dust control in working research facility; Install all finish requirements including custom stainless steel wall panels, granite floor tile, terrazzo flooring, decorative wood wall panel system, ceiling tile, dry wall and paint.

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