

Space Center Summit Facility—Geotechnical Studies

The Space Center Summit Facility in Lee's Summit, Missouri is an underground limestone aggregate mine undergoing conversion to warehouse space. The facility has several million square feet of underground space being developed in phases to accommodate client needs.

CNA evaluated the general facility condition during the due diligence phase of facility purchase. Since purchase, detailed evaluation has been conducted of pillar & roof structural conditions, roof bedding and jointing, roof falls, natural openings and sinkholes, portals, water conditions, floor rocks and floor heave.

The natural roof joints in the northern one-third of the facility were mapped and subsequently evaluated. Based on the jointing present, other geotechnical factors and the planned use, recommendations were formulated for portal treatment, roof support, drainage, backfilling and instrumentation.



CNA Consulting Engineers has provided survey, evaluation and rehabilitation recommendations for more than 30,000,000 sf of underground mines for conversion to warehouse space; including rock conditions, rock support, concrete linings, steel structures, water control and drainage, recommendations for rock trimming and concrete placement to relocate an underground railroad line. Facilities include: Winchester, Kansas City, MO; Geospace, Independence, MO; Gateway, Wampum, Penn; Oldham, Louisville, Kentucky; Cumberland Furnace, TN; Redpath, Independence, MO; CDC Property, Independence, MO.

Owner—Space Center Kansas City

Completion Date—Ongoing

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