

Historic Community, Modern Drainage, Lasting Flood Protection.

*East 16th Avenue Storm Interceptor
Denver, CO*

Uniqueness / Innovative Applications

- One of Colorado's first direct-bury, non-circular HOBAS® fiberglass storm sewer applications.
- "Threaded the needle" through one of Denver's most congested underground utility corridors without major utility relocation.
- Custom hydraulic structure combines flow control, trash interception, and maintenance access in a single integrated system.
- Delivered through Denver's One Build program, integrating stormwater, roadway, utilities, bicycle, and pedestrian improvements into one coordinated investment.

Future Value to the Profession & Public Awareness

- Demonstrates how aging urban infrastructure can be modernized through multidisciplinary collaboration instead of isolated projects.
- Scalable delivery model for future One Build and phased stormwater improvements.
- Shows engineering success is measured by balancing hydraulics, constructability, maintenance, mobility, and neighborhood priorities—not optimizing a single objective.

Social, Economic & Sustainable Development

- Solves chronic flooding during routine rainstorms in one of Denver's oldest neighborhoods.
- Maximized taxpayer investment by reconstructing utilities, streets, multimodal facilities, and drainage during one construction effort.
- Preserved mature neighborhood trees, improved water quality entering Ferril Lake in City Park, enhanced accessibility, and created safer travel for motorists, cyclists, and pedestrians.



*Firm's location:
Lakewood, CO*



*Owner's location:
Denver, CO*



Complexity

- Designed around dense existing utilities, historic brick sewers, flat grades, mature trees, and constrained right-of-way.
- Microtunneled beneath Colorado Boulevard while adapting to undocumented utilities and changing field conditions.
- Required contractor collaboration and balancing dozens of competing priorities throughout design and construction.

Fulfillment of Client/Owner Needs

- Eliminated chronic flooding while delivering a corridor that is safer, more accessible, easier to maintain, and prepared for future growth.
- Engineering documents translated into smooth construction with minimal engineering intervention.
- Consistently expanded project value by improving the corridor beyond the original stormwater scope.