



**Nomination for Outstanding
Construction Project**

**Kennys Run Greenway
Golden, CO**



April 2024

CASFM Nomination for Outstanding Construction Project

April 5, 2024

TO: Mr. Jeff Batiste, PE and the CASFM Project Award Nominating Committee

RE: Nomination for a spectacular public-private partnership flood risk mitigation project: *Kennys Run Greenway*

Dear Members of the Awards Committee:

For over 150 years the Coors Brewery has been a landmark of the City of Golden. In the last 75 years, the City and the brewery have grown and that growth led to a 'confluence' of needs that became known as the **Kennys Run Greenway**.

Urbanization of the front range of Colorado led to piping and undergrounding of the natural open channels along the southern tributaries to Clear Creek. Resulting flood risk overflowed these conduits and put over 1 million square feet of industrial structures under water in major storm events.

As expansion plans were made for the brewery, the Molson Coors Beverage Company partnered with the City of Golden and the Mile High Flood District for a monumental restoration of Kennys Run as an open channel diverting minor and major storm flows safely away from the brewery. This protected the Clear Creek watershed from the potential contaminants of flood water through the industrial areas, but also protected the City of Golden with an open channel outlet for surface flooding across three city blocks of downtown Golden.

This partnership allowed the brewery and the City to continue to serve the customers, citizens and watershed neighbors with a responsible, maintainable, and beautiful watercourse that literally bridges public and private goals.

We sincerely believe this project is a shining example of what it will take for future infrastructure projects to succeed in the rapid evolution of high-cost infrastructure retrofit solutions. Much like the founder of the Coors brewery did in 1873 restoring an old tannery building to serve the growing community of miners and cowboys, the Kennys Run project restores an open channel that can protect and serve the brewery, residents and visitors to Clear Creek for generations to come!

Thank you for your consideration of the Kennys Run Greenway as Outstanding Construction Project for CASFM this year.

Sincerely,

Dan Hartman
Retired Public Works Director, City of Golden



City of
Golden



Kennys Run Greenway | Golden, Colorado

PUBLIC HEALTH, SAFETY, AND WELFARE. Kennys Run Greenway protects over 1 million square feet of industrial property from minor and major storm flows that affect over 15 miles of Clear Creek through the metro area.

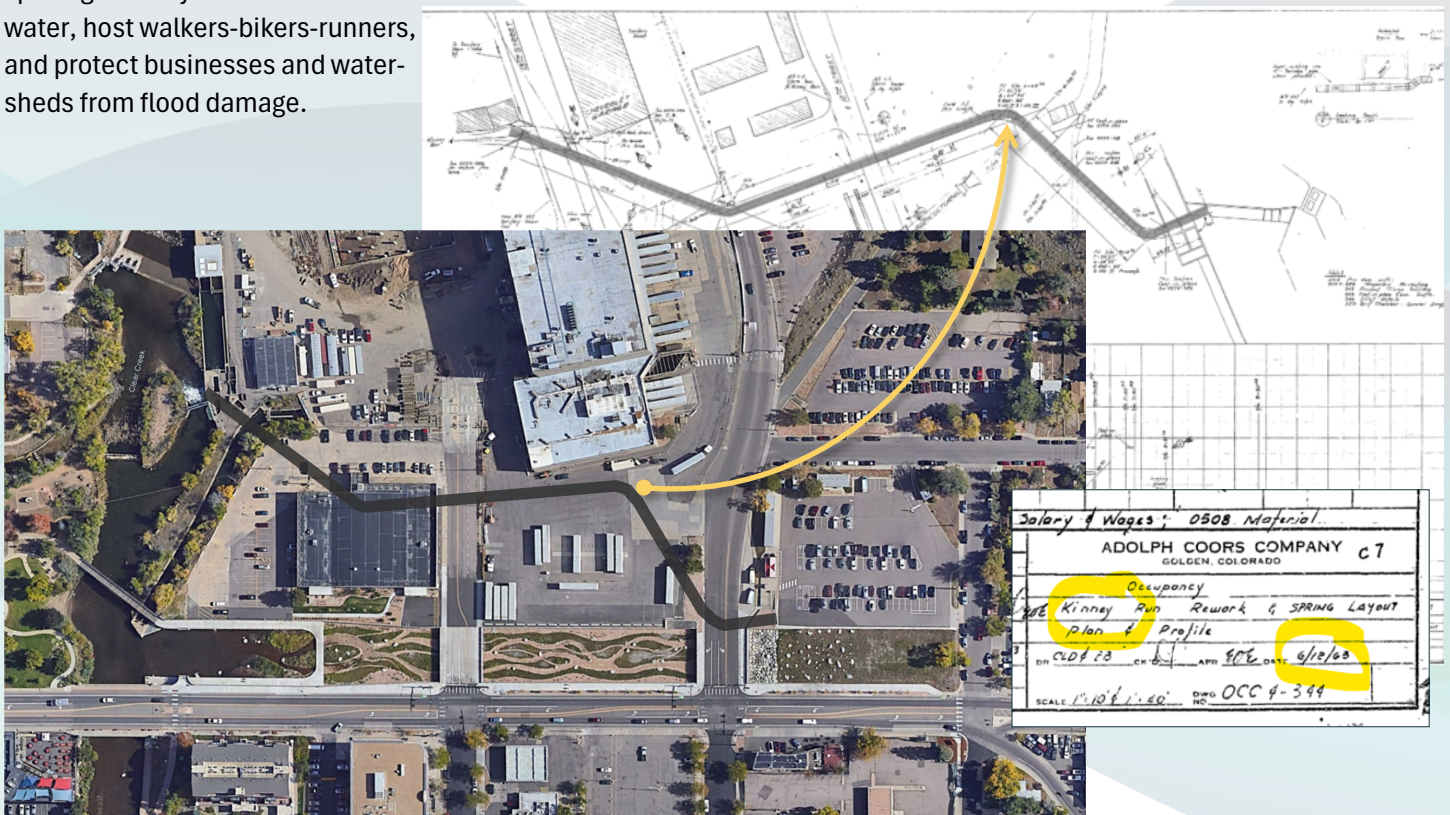
ECOLOGICAL. Kennys Run Greenway daylightes over 1,000 feet of concrete box culvert into an open channel, native soil vegetated greenway between downtown Golden and the Coors brewery.

UNIQUE. Kennys Run Greenway is a unique public-private partnership that provides a “five pillar” solution that converts a shared risk of flooding into a shared resource for the City of Golden and the Molson Coors Beverage Company. Mitigating risk, restoring natural systems, and supporting sustainable operation and maintenance in a dynamic, expandable flood control system within a recreational corridor enjoyed by thousands of residents and visitors ever year!

MODEL. Kennys Run Greenway is a model for other communities and their industrial, commercial, and manufacturing partners to find mutually exclusive benefit-cost ratios that support the project from both sides. Retrofits of existing land uses is a fundamental reality of a growing metroplex with aging infrastructure—there will be new solutions that can transform under utilized parking lots into open space greenways that treat storm-water, host walkers-bikers-runners, and protect businesses and watersheds from flood damage.

PROJECT HIGHLIGHTS & INNOVATIVE IDEAS

- ≈ 35,000 CY of dirt was excavated and hauled away
- ≈ Parking lots and four city blocks were removed to create shoring system
- ≈ Includes 2,700 LF of concrete retaining walls, totaling approximately \$4.5M
- ≈ One large grouted boulder drop structure was used
- ≈ 7,200 tons of cobble/river boulders were used
- ≈ 9,500 tons of soil filled rip rap was used
- ≈ This is a predecessor for the brewery’s G-150 modernization, which removed the proposed property and future improvements out of the floodplain
- ≈ Savings: as an alternative to the original design, about 600 FT of micro-piles were installed along Ford Street, eliminating the need for shoring and backfill. This saved more than \$150,000 in project costs and reduced project duration
- ≈ Clear Creek Tie-In: the construction team left existing walls in place as a cofferdam to use as a BMP to later tie in to Clear Creek at the end of the project when flows are typically lower, versus starting at the confluence of Clear Creek to work south toward 14th Street as originally contemplated
- ≈ Molson Coors provided construction management



Kennys Run was a combination of 3-sided, 4-sided, and elliptical pipes since at least 1963. With an estimated maximum capacity of 550 cfs, the disjointed profile pipe system pushed over 3,000 cfs onto the surface of three blocks of Downtown Golden: A flood risk that significantly restricted growth and redevelopment.

Kennys Run Greenway | Golden, Colorado

COMMUNITY. Golden had significant community concerns around pedestrian, trail, and bike connections, as well as aesthetic concerns for the project. Working together, the City added elements to the projects, including the ability to extend the Greenway to further carry the 100-year floodplain in additional areas of the City. The City and Molson Coors Beverage Company agreed on the additional cost added to the project for these additions and the City contributed nearly \$800,000 to the project. The Kennys Run Greenway project was completed mostly on Coors property and they granted the City an easement over the property in order for the project to qualify for Mile High Flood District funding and maintenance.

OUTCOME. While there were funding complications from three separate entities, land encumbrances, and extremely tight working perimeters, the Kennys Run Greenway project was completed within the designated time frame and budget. This project now provides both safety and improved aesthetics to the City and the Coors property in Golden.



This former concrete box culvert has been transformed into an open channel, native soil, vegetated greenway



Kennys Run Greenway, post construction overview



Now a recreational amenity, this greenway also protects over 1 million SF of industrial property from storm flows



From a trail system, headgate, and parking lot covering a conglomeration of old culverts ...



...To an open channel amenity providing a symbolic confluence of a historic City with a modernized brewery.



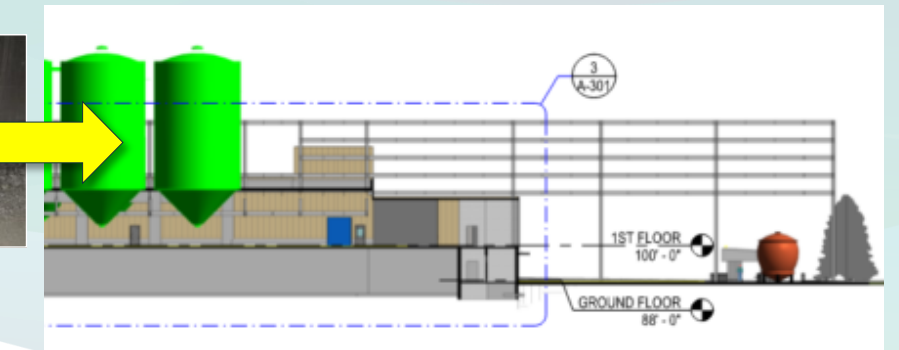
From a grey wall and paved asphalt ...



...To a multi-modal connection between the City river recreation that makes this a special amenity to the community.



From an emergency flood response plan with dozens of manual flood doors, sealed entrances, and railway closers...



...To an elevated, modernized brewing complex with redundant protections that will support the local economy in a flood resilient manner for generations to come.

PROJECT TEAM

ICON Engineering, Inc. | San Engineering, LLC | Valerian, LLC
 ECI Site Construction Management | Molson Coors Beverage Company

