LYONS 2ND AVENUE BRIDGE REPLACEMENT

Lyons, CO

WHY THIS PROJECT IS RELEVANT

- Collaboration with Otak
- Creative construction phasing
- Robust, early planning process
- Utility coordination and replacement
- Extensive public outreach
- Concrete and asphalt replacement

PROJECT SIZE

Embankment – 4,582 CY
Block Facing – 3841 SF
Concrete Class D – 471 CY
Prestressed Concrete – 1259 LF
Curb and Gutter – 1354 LF

INITIAL/FINAL COST

$3,295,444/$3,293,831

CHANGE ORDERS

10 owner-initiated change orders

CONTRACT SCHEDULE

December 2020-July 2021

ACTUAL SCHEDULE

December 2020-July 2021

Heavy rain and flooding in September 2013 caused debris to build up around bridge piers and water to breach the banks of the St. Vrain Creek. The flood event caused bridge scouring, erosion, and significant damage to infrastructure downstream. The Town was awarded FEMA mitigation funds to build a new single-span bridge designed to handle 100-year flood events. The new bridge is longer and taller to eliminate obstructions and accommodate design flow rates.

In September of 2020, Zak Dirt was contracted to replace the 2nd Avenue bridge over the Saint Vrain by the Town of Lyons. This project was significant to the Town as it marked the final recovery effort from the 2013 Flood and drew site visits from United States Senators and Congressmen.

The project consisted of a bridge replacement, road construction, waterline, sewer and storm drainage pipe, walking trails, MSE walls and river restoration. Bridge work included removing channel sediment, debris, and the damaged bridge structure. Construction will require installing cofferdams in the creek, excavating trenches for reinforced concrete footings, driving steel piles, and compacting backfill materials. Bridge approach work includes removing and replacing asphalt, curb and gutter, sidewalk, pavement structure, storm systems, bridge abutments, and signing and striping.

This project was the first in Colorado to install a new style of bridge girder, the CBT. Zak Dirt worked closely throughout the bridge construction with the Engineer, OTAK to ensure that quality standards and specifications were clearly communicated and understood in order to complete the pioneer bridge. This open and collaborative approach, led to a trusted partnership between Zak Dirt, OTAK, and the Town of Lyons.

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REFERENCES

OWNER

Tracy Sanders
Town of Lyons
920-697-3427
tsanders@townoflyons.com

ENGINEER

Jeff Myer, PE
Otak
720-758-7747
jeffrey.meyer@otak.com

SELF PERFORM

76%

PROJECT TEAM

Ben Jordan
Mike Sewczak

DELIVERY METHOD

Design-Bid-Build requiring heavy collaboration with design team

NUMBER OF CLAIMS

0

The single span bridge structure was initially delayed by almost two months because of FEMA funding issues. Zak Dirt revised its schedule by resequencing and adding manpower to meet the original completion date set by the Town of Lyons. Zak Dirt maintained this “Project First” collaboration with the town throughout the project to ensure all owner-initiated change orders were treated fairly and provided benefit to the project.

The Town of Lyons is a tight-knit community that was only reinforced by the grit and determination displayed by the 2013 Flood Recovery Effort. Because of this strong sense of community, Zak Dirt knew our crews had to display our commitment and professionalism to match the legacy of the Town. To accomplish this, our crews formed personal relationships with the project neighbors, initiated guided tours with school children and provided clear and consistent communication throughout the project.

Zak Dirt was recognized for their outstanding efforts by Senator Hickenlooper and the Town Trustees at the dedication and completion of the 2nd Avenue Bridge Replacement ceremony.