

March 18, 2021

**Marco Carani**  
**Director of Public Works**  
**Town of Johnstown**  
450 S. Parish  
Johnstown, CO 80534

**PROPOSAL FOR PLANNING AND ENGINEERING SERVICES FOR THE TOWN OF JOHNSTOWN'S CHARLOTTE STREET REHABILITATION IMPROVEMENTS**

**Mr. Carani:**

Tait & Associates, Inc., Design Concepts, Kellar Engineering, and Underground Consulting Solutions are excited to support the Town of Johnstown with roadway, landscape, drainage, and utility reconstruction along the Charlotte Street Corridor from Columbine Avenue to Jay Avenue. This proposal is based on our site walk with you where potential alternatives for the corridor were discussed and additional correspondence since that time. The efforts on the Old Town Street and Drainage Rehabilitation Project have also provided us with a good basis for understanding of the Town's expectations for drainage and street layout concepts.

Attached is a scope of services and cost breakdown for planning and engineering services anticipated. These efforts will take the project from concept development to final construction documents for the project. Do not hesitate to contact us with any questions or concerns.

Very truly yours,  
**TAIT & Associates, Inc.**



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Alex Hoime, PE  
Vice President

Agreed & accepted by:  
**Town of Johnstown**

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Matt LeCerf  
Town Administrator



# CHARLOTTE STREET CONCEPT DEVELOPMENT

## SCOPE OF SERVICES

### Phase 1: Concept Design and Investigation

**Task 1 - Concept Design, Meetings, and Preliminary Cost Estimate:** TAIT, Kellar, and Design Concepts will review existing information available on the project. Based on the initial research, site aerials, and communication with Town Staff, concept plans and exhibits will be prepared to depict 2 alternative design scenarios. Deliverables with each of these options include the following:

- Colored Site Plan Layouts
- Colored Cross Sections
- Preliminary Utility and Drainage Layout
- Rough Order of Magnitude Cost Estimate

**Task 2 - Field Survey – Roadway and Utilities:** TAIT will perform a detailed field survey of the existing road and utility infrastructure improvements. Survey data will be collected for all existing surface improvements, including drives, sidewalks and access drives within and adjacent to the area of work. Sub-surface utility locations will be marked by our utility locate subconsultant. Potholing will be performed at locations of crossings. This effort will include evaluation of the following features:

- Existing surface conditions, curb & gutter, returns, sidewalks, ramps
- Existing water, sewer, storm drainage, and dry utility improvements in the Right of Way
- Right of Way issues / visible encroachments
- Horizontal & Vertical alignments

Phase 1: Concept Design and Investigation \_\_\_\_\_ \$78,687

### Phase 2: Construction Documents

**Task 1 - Project Management, Meetings, and Scoping:** TAIT & Associates, Inc. (TAIT) will research, investigate and review existing documents, studies and reports relevant to the project. In addition, TAIT will review base information available from the Town before commencement of field or design work. TAIT will meet with Town staff to identify background information and incorporate staff suggestions, recommendations and other requirements. TAIT will be available for meetings throughout the design stage to ensure the design proposed will meet the intent of the Town Staff.

**Task 2 - Potholing and Supplemental Survey:** Upon furthering of the design, utility crossing locations will be more refined allowing for potholing to occur in the known areas of potential conflicts. TAIT will work with Underground Consulting Solutions (UCS) perform a detailed field survey of the existing utility infrastructure. Survey data will be collected for the exposed utilities. In addition to utilities, TAIT will collect survey at critical grade tie in locations as determined by the initial design.



**Task 3 - Drainage Analysis:** TAIT will perform a drainage analysis to define drainage basins and establish the sizing and placement of inlets within the project. The infrastructure installed with the Old Town project will be utilized to pass flows to the downstream infrastructure. Existing drainage patterns will be preserved where possible to not further create downstream issues.

**Task 4 - Storm Drain Plan and Profile Design:** Based on the information obtained in the Topographic Survey, evaluation performed in the Drainage Analysis, and further analysis performed as a part of the Phase 2 Drainage Analysis, TAIT will lay out the horizontal and vertical alignment of the proposed drainage system. Careful attention will be paid to crossing utilities, obstructions, adjacent utility alignments, and cover. Crossings will be labelled showing clearance anticipated based on locates and potholing. Precise descriptions and details will be provided within the plans to ensure accuracy in bidding and throughout construction.

**Task 5 - Charlotte Street Redesign Plans:** Charlotte Street is proposed to be removed and replaced from Jay Avenue to Columbine Avenue. TAIT will delineate the extent of removal to allow for adequate tie-ins to the adjacent properties. The proposed roadway will be designed to connect to existing improvements within 50 feet of each intersection. Public Right-of Way Accessibility Guidelines will be followed to provide a safe and accessible pedestrian pathways throughout the project. Eight intersections will be fully detailed with precise grades for transitions to existing and accessible pathways. It is understood that the existing school at the west end of the project is being removed. Deliverables included with this task include the Roadway Plan, Street Plan and Profile, Intersection Grading Details, Demolition Plans, Signage and Striping Plans, and Erosion Control Plans.

**Task 6 - Water Main Replacement Plan:** TAIT will develop the design drawings for a half mile of water main replacement. Special attention will be given to water and sewer line separation distance along with storm drainage improvements. Connections to existing mains will be evaluated along with the location of fire hydrants, meter pits and other small wire utilities and features.

**Task 7 - Sanitary Sewer Main Replacement Plan and Profile:** TAIT will develop the design drawings for a half mile of sanitary sewer main replacement. Existing sewer laterals will be connected at the Right of Way limit and be redirected to the proposed main. Location of the sewer will be set based to allow for efficient phasing of the lateral reconnections.

**Task 8 - Dry Utility Coordination:** Coordination with providers of gas, electric, and communication service will be performed throughout the project to accommodate required relocations, lowering, and undergrounding of overhead lines. Replacement of light poles along the corridor is also anticipated.

**Phase 2: Construction Documents** \_\_\_\_\_ **\$338,904**



## Phase 3: Project Manual and Bidding Coordination

**Task 1 - Project Manual, Special Conditions, and Engineers Estimate:** TAIT will prepare a project manual using CDOT Specifications for Road and Bridge Construction in conjunctions with Johnstown’s specifications for water and sewer. The manual will include a project specification, measurement and payment sections, contract documents, special conditions, Stormwater Management Plan, and a bid tabulation summary for the project. TAIT will also prepare an Engineers Cost Estimate for the project.

**Task 2 - Bidding Coordination:** TAIT will provide support for the Town during the Bid process. TAIT will be available to respond to questions during bidding, attend a pre-bid meeting, and evaluate bids for completeness.

**Phase 3: Project Manual and Bidding Coordination** \_\_\_\_\_ **\$25,920**

### FEE SUMMARY

<b>Phase 1: Concept Design and Investigation</b>	_____	<b>\$78,687</b>
<b>Phase 2: Construction Documents</b>	_____	<b>\$338,904</b>
<b>Phase 3: Project Manual and Bidding Coordination</b>	_____	<b>\$25,920</b>
<b>Reimbursables</b>	_____	<b>\$2,000</b>

**Total Cost: \$ 445,512**

### CONDITIONS, ASSUMPTIONS, AND EXCLUSIONS

The following conditions, assumptions, and exclusions are an integral part of this proposal:

- 1) The Town will provide record data of all infrastructure within the limit of work, as available.
- 2) Survey will not be required for the Concept Planning effort. Concepts will be based on available aerial information and record platting. Survey will be gathered as the
- 3) A traffic study has not been included in our fees.
- 4) Architecture, geotechnical evaluations, mechanical engineering, structural engineering, electrical engineering, construction consulting, staking, as-built survey, and other related trades not specifically mentioned in this proposal are excluded from this proposal and not a part of our services.
- 5) The consultant will be utilizing all Town and County information made available for this project. We assume that the Town will support the consultant for any data required, either in the form of archived reports or studies or request for information from Weld County, as required.
- 6) If conditions materially change during the course of this project, we reserve the right to re-negotiate this contract to reflect the changed conditions.