



CITY OF ROANOKE, VIRGINIA

RSTP Funds Application

FOR

**Campbell Avenue Bicycle and Pedestrian Improvements
from Tinker Creek to Williamson Road (Downtown)**

Date: September 15, 2014

RSTP Project Profile – Candidate Project

Please limit overall application to a maximum of 5 pages (11 pt. font 1.5 spacing) – supporting materials such as a previous study or aerial photography may be submitted as an addendum and not subject to 5 pages maximum.

1. Project Sponsor(s): City of Roanoke, Virginia
2. Proposed Implementing Agency: City of Roanoke, Virginia
3. Project Description and Attached Aerial Showing Proposed Improvement Location:
Campbell Avenue Improvements from Tinker Creek to Williamson Road, see Attachment A.
4. Detailed Scope of Work, proposed Schedule and Relation to Other Projects or Project Phases, Project Status, and Other Funding Sources: (attach document if extra space is needed – please refer to overall application limit noted above)

Attachment A: Project Description, Scope of Work, and Aerial Location Map

Attachment B: Schedule and Relation to Other Projects and Project Phases

Items 5-9 Pertain to Highway Projects:

5. Functional Classification:
Campbell Avenue Collector
6. Existing Traffic Volume and Level of Service with Improvement:
AADT=6000 ; LOS F
7. Existing Volume/Capacity:
AADT=6000
8. Future Traffic Volume or Projected Ridership with Service Implementation:
AADT=6600
9. Future Volume/Capacity and Level of Service:
AADT=6600
10. Estimated Project Cost by Phase (Preliminary Engineering, Right-of-Way (including utilities) and Construction (including administration): (attach a detailed cost estimate and/or budget to support your application)

PE: \$250,000
R/W: \$50,000
CN: \$3,000,000

(Cont'd Next Page)

| Task by Project Development Phase | Project Cost | |
|--|---------------------|---------------------|
| PRELIMINARY ENGINEERING PHASE | | |
| Engineering/Design Fees | \$ | 200,000.00 |
| Environmental Document | \$ | 20,000.00 |
| Surveying | \$ | 20,000.00 |
| Estimated VDOT Review Charges | \$ | 10,000.00 |
| PE Phase TOTAL COSTS | \$ | 250,000.00 |
| RIGHT OF WAY PHASE | | |
| Right of Way Purchase | \$ | 30,000.00 |
| Utility Relocation | \$ | 20,000.00 |
| RW Phase TOTAL COSTS | \$ | 50,000.00 |
| CONSTRUCTION PHASE | | |
| Mobilization | \$ | 200,000.00 |
| Grading | \$ | 300,000.00 |
| Drainage/SWM/E&S | \$ | 1,200,000.00 |
| Concrete | \$ | 1,000,000.00 |
| Paving | \$ | 235,000.00 |
| Crosswalks/Signage | \$ | 15,000.00 |
| Maintenance of Traffic | \$ | 50,000.00 |
| Base Bid TOTAL COSTS | \$ | 3,000,000.00 |
| TOTAL COSTS (PE, RW, & CN) | \$ | 3,300,000.00 |

Campbell Avenue from Tinker Creek to Williamson Road (Downtown)

RSTP Candidate Project Rating Factors

A. Regional Project Consideration

This project would provide a direct connection from SE Roanoke City, Vinton, and East Roanoke County into the City of Roanoke's Downtown metropolis. With the proposed extension of Tinker Creek Greenway from Wise Avenue to Orange Avenue, this spur from Tinker Creek following Campbell Avenue provides a separated bicycle and pedestrian accommodation into the heart of the City.

B. Support the Economic Vitality of the Metropolitan Area

The connection between communities encourages economic vitality. Studies have consistently shown that greenway systems attract businesses, enhance the health of a community and its citizenry, produce an economic boost and make a community more livable. This increase is the intrinsic value people place on having access to a greenway system. SE Roanoke and points beyond are lower income and alternative modes of transportation, in particular, serve this population. The proposed improvements would provide for a continuous pedestrian and bicycle accommodation from SE Roanoke into the heart of Downtown - the largest employment and commercial center in the area.

C. Increase the Safety and Security of the Transportation System

The proposed project provides continuous pedestrian and bicycle accommodation with ADA accessibility on a collector street leading into the downtown limits. Improving bicycle and pedestrian accommodation on this street enhances public safety and accessibility by reducing vehicular and bicycle and pedestrian conflicts. This project enhances transportation facilities for those with special needs.

D. Increase the Accessibility and Mobility Options Available to People and/or Freight

ADA accessible curb ramps will be provided for the limits of improvement. The proposed Tinker Creek Greenway extension from Wise Avenue to Orange Avenue will be fully accessible as will be this proposed connector into Downtown. The Region's Greenways are fully accessible and the proposed improvements will be designed to adhere to 2010 ADA Standards for Accessible Design.

E. Protect and Enhance the Environment, Promote Energy Conservation, and Improve Quality of Life

The alternative of bicycling or walking reduces green house gas emissions, promotes energy conservation, and with mobility, reduces rates of obesity - all of which improve quality of life. Studies have consistently shown that greenway systems enhance the health of a community and its citizenry. Greenway trails provide an economic boost and make a community more livable. This proposed improvement provides a critical route for alternative modes from SE Roanoke into the heart of Downtown Roanoke.

F. Enhance the Integration and Connectivity of the Transportation System, Across and Between Modes, for People and/or Freight

With the integration of this connector route along Campbell Avenue and the Tinker Creek Greenway, access to public transit is enhanced providing for far reaching mobility. Downtown has access to transit, future passenger rail, and connections to the airport. The potential provided with access along Campbell Avenue into Downtown via multiple modes is significant.

G. Promote Efficient System Management and Operation

This interconnectivity for SE Roanoke to multiple modes of transportation promotes a more efficient and functional corridor for residents and visitors. The Campbell Avenue connection interconnects Downtown to the proposed extension of the Tinker Creek Greenway. The Tinker Creek Greenway is connected to the Roanoke River Greenway. These interconnections of the Regions Greenways provides for increased accesbilty and mobility around the region via a safe, alternative to the passenger vehicle.

H. Emphasize the Preservation of Existing Transportation System

Campbell Avenue is an existing collector roadway that connects into the heart of Downtown Roanoke. The proposed improvements enhances the function of this roadway to include the needs of pedestrians and bicyclists while providing a connection to the Region's greenway network.

I. Cost/Benefit Consideration

The City is retrofitting improvements within available City ROW that maximizes the modes of travel and potential number of users via alternative modes for this corridor. By offering multiple modes of travel, demands placed on the vehicular roadway are reduced as are the costs associated with maintenance and reconstruction of roadways associated with vehicular demand. Providing for alternative modes of travel is a cost effective solution that provides a multitude of benefits to the neighborhood and region.

J. Projects included in previous plans that had a public input process associated with the plan.

The proposed improvements are in the conceptual stage. As part of the design effort, public input will be first and foremost to define the typical section applied to Campbell Avenue. Other compatible improvements are currently underway in various stages of design and construction. The Town of Vinton is providing sidewalk connections to Glade Creek and Tinker Creek Greenways. The City is seeking funds at this time to extend the Tinker Creek Trail, the pedestrian bridge connection between Glade Creek and Tinker Creek, and this proposed streetscape improvement into Downtown Roanoke. These proposed improvements are all consistent with the Roanoke Valley Greenway Plan for the vision of interconnected trails along our natural resources.

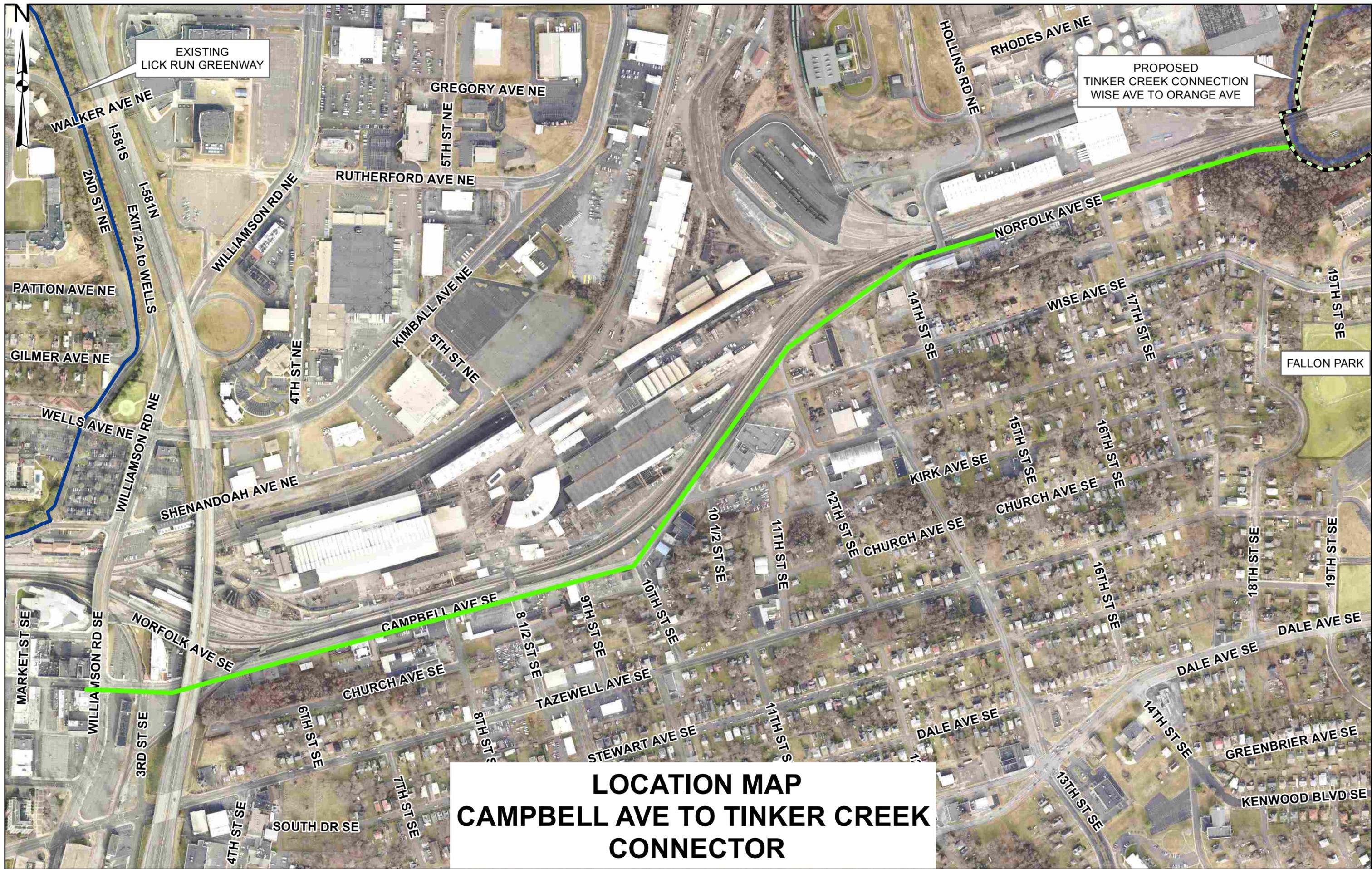
Attachment A – Location and Scope of Work

Campbell Avenue Streetscape Improvements from Tinker Creek to Williamson Road (Downtown)

Project Location: Please refer to the sheets that follow showing Campbell Avenue Streetscape limits from the future connection at the Tinker Creek Greenway and Trail to the Downtown limits at Williamson Road. The limits of this project are along Campbell Avenue from its current terminus to Williamson Road.

Project Description: Two proposed typical sections will be explored in design. A grade separated sidewalk and protected trail, otherwise known as a cycle track, with on-street parking to accommodate the numerous vehicles parking in this area is shown in the first typical section. A traditional combination of sidewalk and in road bike lanes with urban tree plantings in the sidewalk furnishing zone is the second option. All design will comply with AASHTO's Guide for the Development of Bicycle Facilities and the 2010 ADA Standards for Accessible Design.

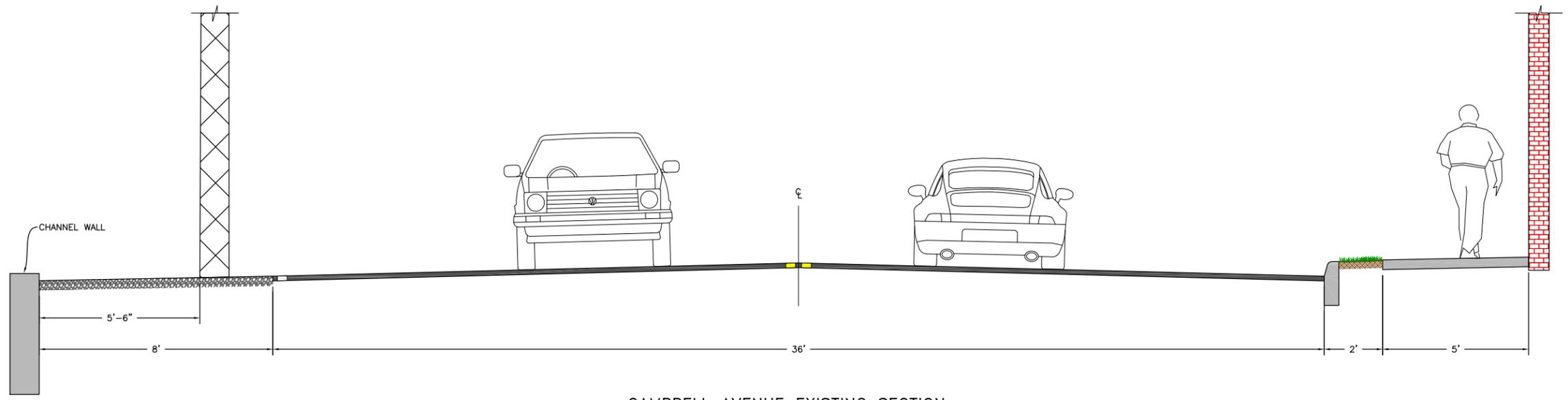
Scope of Work: The Campbell Avenue Streetscape Improvements would consist of bicycle and pedestrian accommodations from the Tinker Creek Trail into Downtown, ending at the intersection of Campbell Avenue with Williamson Road. This streetscape improvement would provide for a separated bicycle and pedestrian route originating from the Tinker Creek Trail in SE Roanoke. Streetscape improvements would consist of sidewalk, curb and gutter, street trees, and milling and resurfacing the existing roadway. Not limited to these improvements, project scope also includes construction of storm drain improvements and possible stormwater management facilities as a requirement for development.



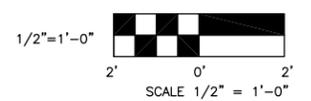
EXISTING
LICK RUN GREENWAY

PROPOSED
TINKER CREEK CONNECTION
WISE AVE TO ORANGE AVE

**LOCATION MAP
CAMPBELL AVE TO TINKER CREEK
CONNECTOR**



CAMPBELL AVENUE EXISTING SECTION
 SCALE: 1/2"=1'-0"



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 OFFICE OF THE CITY ENGINEER
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DESIGNED: **PMC**
 DRAWN: **ARG**
 CHECKED: **PMC**

SEALS:

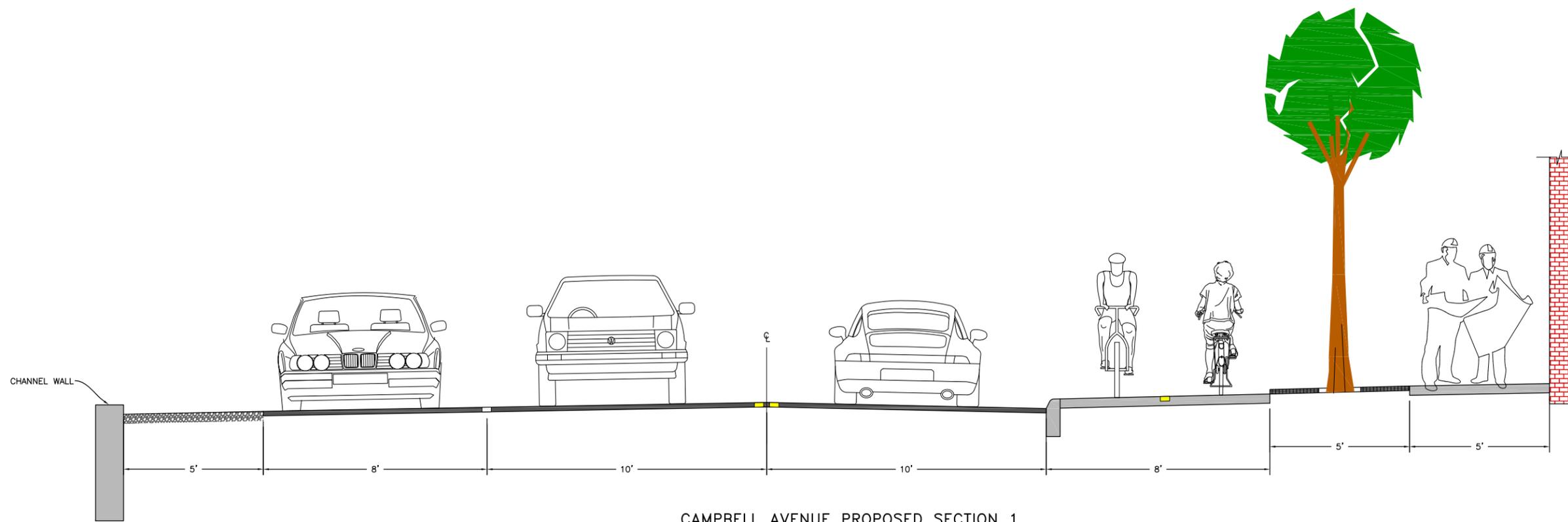
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DATE: **08/14/2014**
 SCALE: **1/2"=1'-0"**
 24"x36" SHEET

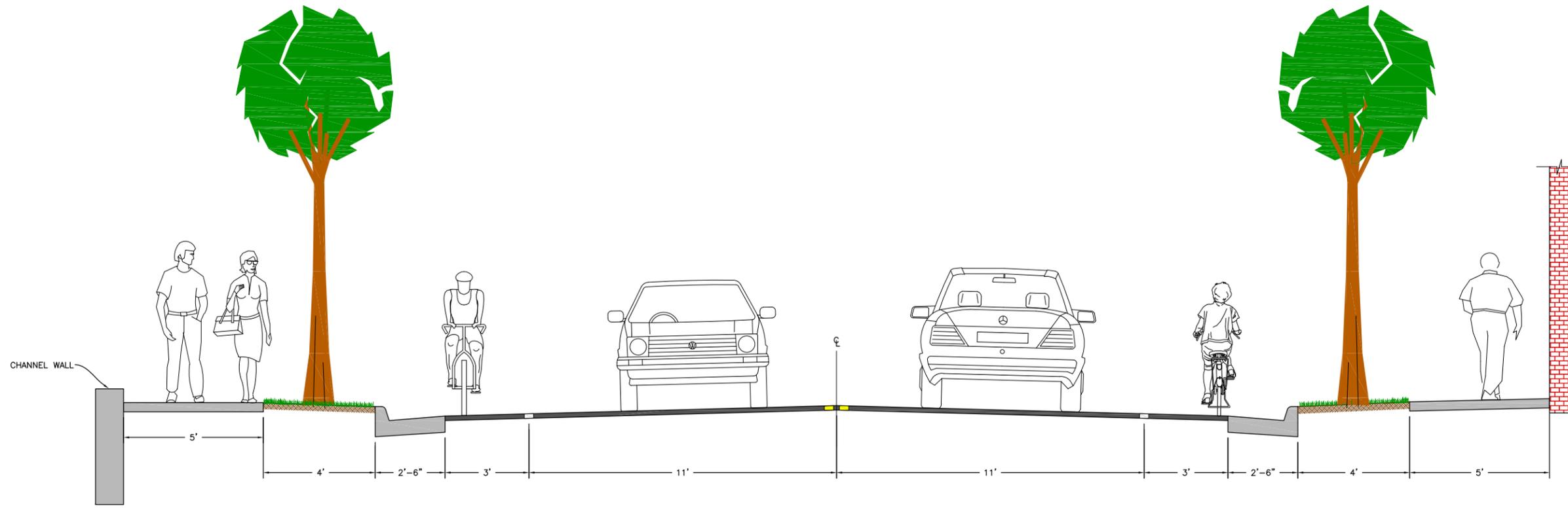
CAMPBELL AVENUE TO TINKER CREEK CONNECTOR
 CITY OF ROANOKE, VIRGINIA

EXISTING ROAD SECTION

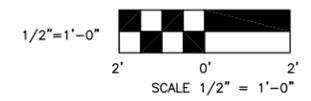
SHEET **1 OF 2**
 PLAN NO. **XXXX**



CAMPBELL AVENUE PROPOSED SECTION 1
SCALE: 1/2"=1'-0"



CAMPBELL AVENUE PROPOSED SECTION 2
SCALE: 1/2"=1'-0"



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DESIGNED: **PMC**
DRAWN: **ARG**
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SEALS:

| REV. | DATE | DESCRIPTION |
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CAMPBELL AVENUE TO TINKER CREEK CONNECTOR
CITY OF ROANOKE, VIRGINIA

PROPOSED ROAD SECTIONS

SHEET **2 OF 2**
PLAN NO. **XXXX**

Attachment B – Schedule and Other Project Phases

Project Request Location: Campbell Avenue Streetscape Improvements from Tinker Creek Trail to Williamson Road, Downtown Roanoke

Schedule:

Project Engineering: July 2015 to July 2016

ROW Acquisition: January 2016 to July 2016

Project Advertisement: July 2016

Begin Construction: September 2016

End Construction: September 2017

Other Project Phases: Tinker Creek Extension from Wise Avenue to Orange Avenue

Schedule:

Project Engineering: July 2015 to July 2016

ROW Acquisition: January 2016-July 2016

Project Advertisement: July 2016

Begin Construction: September 2016

End Construction: September 2017

Tinker Creek/Glade Creek Pedestrian Bridge Connection

Schedule:

Project Engineering: July 2015 to January 2016

Project Advertisement: February 2016

Begin Construction: April 2016

End Construction: July 2016



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September 16, 2014

Roanoke Valley Area Metropolitan Planning Organization and
Transportation Technical Committee
P.O. Box 2569
Roanoke, VA 24010

Re: RSTP Application for Campbell Avenue

Dear Members of the MPO and TTC:

The Roanoke Valley Greenway Commission reviewed RSTP applications at its August 27 meeting and would like to express its support for the City of Roanoke's application for completion of improvements on Campbell Avenue to connect Tinker Creek Greenway to downtown.

This connection has been needed for a long time. This is a major bicycling corridor into downtown from the Blue Ridge Parkway and also from the Roanoke River Greenway via Tinker. It is also the most direct connection between the downtowns of Vinton and the City of Roanoke. Vinton is currently working on bike/ped facilities along Walnut Avenue, and this connection is important to carrying non-motorized traffic safely through the most industrial section of the corridor.

There is great economic development potential for renovation and reuse of structures in the corridor with completion of this project. Many apartments have been developed on the western side of downtown, and there is great opportunity here on the eastern side. In addition, there is the economic synergy of connecting the two downtowns.

We appreciate the support of the MPO in funding Roanoke River Greenway and look forward to its completion. Thank you for your consideration of this project which would enhance the whole network.

Sincerely,

Bob Blankenship, Chairman
Roanoke Valley Greenway Commission