

MEMO

To:

Bryan Chodkowski

From:

Dan Hoying

Date:

August 13, 2015

Subject:

Major thoroughfare plan review

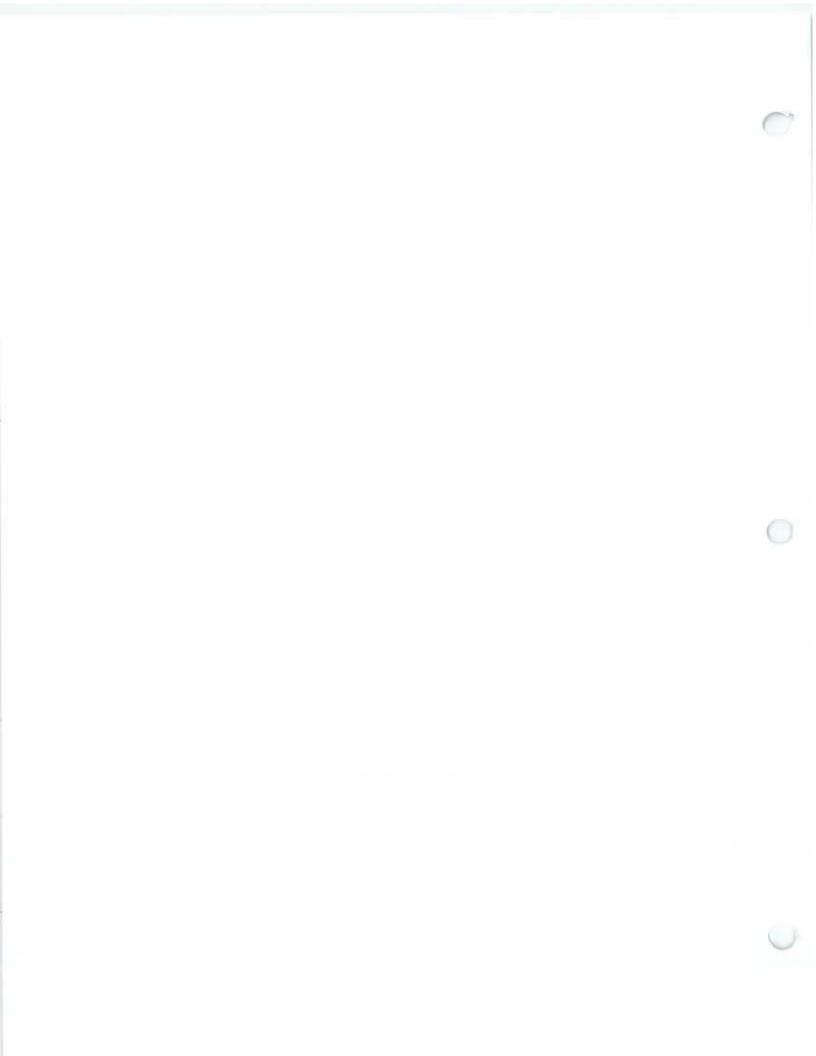
Project #:

0100311A.381

LJB has reviewed the project breakdowns that you provided on July 23, 2015. We reviewed the project funding splits and the edits that were made to the original project construction cost estimates. We offer the following comments:

- Springfield Street (East) Street Lighting Improvements increase to \$540,000 for decorative fixtures.
- Springfield Street (West) Street Lighting Improvements increase to \$250,000 for decorative fixtures.
- Needmore Road (SR 201 to SR 201) increase to \$1,425,000.
- Valley Street Phase I increase to \$1,100,000.
- Valley Street Phase II increase to \$1,450,000.
- Spinning Road Phase I increase to \$1,250,000.
- Spinning Road Phase II increase to \$1,035,000.
- Harshman Road Phase I increase to \$2,300,000.
- Harshman Road Phase II decrease to \$1,900,000.

We appreciate the opportunity to provide this review. Please let me know if you have any questions or need additional review of any of these suggested modifications.





TO:

Riverside City Council

FROM:

Bryan RH Chodkowski

City Manager

SUBJECT:

Major Thoroughfare Improvement Plan -

Final Summary

DATE:

June 3, 2015

CC:

Emily M. Christian,

Assistant City Manager

Mitch Miller,

Director of Public Services

Over the last several months, staff and Council have worked to identify necessary improvements for all the major thoroughfares located within the City. As part of this project, the City looked at the current conditions of these roadways, potential future project scopes for these streets, and classified these projects as either necessities or opportunities.

As presented to Council, the major thoroughfares were first divided into four separate groups. Next, staff performed a comprehensive review of the roadways in each group and identified all work which could be performed to improve that particular thoroughfare. The information assembled from this staff review was then shared with City Council for additional input. Following this review with Council, all documentation was forwarded to the City's engineer; LJB.

LJB provided project estimates for all those streets considered for the Plan. As part of its estimating process LJB included inflationary adjusted construction costs, engineering fees, and administration expenses. Once received from the Engineer; City staff reviewed the information provided classifying elements from each project as necessary to maintain existing infrastructure, necessary safety improvements, and/or improvements of opportunities.

Using staff's classifications, Council was presented a final series of memoranda for each group of streets. These memoranda provided Council with two types of projects and amended cost estimates. The first type of project, General Thoroughfare Improvement Projects, were those focused on replacing existing infrastructure or providing necessary safety improvements. The second type of project, Projects of Opportunity, were projects ancillary to the proposed General Thoroughfare Improvement Projects, addressed non-motorized transportation improvements, or would be in response to economic development projects.



As presented to Council, the projects classified as General Thoroughfare Improvement Projects within the Major Thoroughfare Improvement Plan, as well as their anticipated expense, are as follows:

 Spaulding Rd.: Springfield St. (Woodman east to City Limit): Springfield St. (Woodman west to City Limit): Airway Rd. (Woodman west to City Limit): Needmore Rd. (SR 201 to SR 202): Schwinn Dr. (SR 201 to SR 202): Spinning Rd. – Phase (Linden to Eastman): Spinning Rd. – Phase II (Eastman to Burkhardt): Spinning Rd. – Phase III (Burkhardt to Airway): Airway Rd. (Woodman east to City Limit): Valley St. – Phase I (West City Limit to Rohrer): Valley St. – Phase II (Harshman east to City Limit): Valley St. – Phase III (Harshman east to City Limit): Union Schoolhouse Rd.: Woodman Dr. (CSX Rail Bridge to Airway Rd.): Woodman Dr. (Airway Rd to US 35): Beatrice Dr. (SR 201 to Harshman): Community Dr. (SR 202 to SR 201): Eastman Dr. (Woodman Dr. to Spinning Rd): Old Troy Pike (City Limit to City Limit): Brandt Pike (City Limit to City Limit): Linden Ave. – Phase I (W. City Limit to Quimby): Linden Ave. – Phase II (Quimby to E. City Limit): Woodman Dr. (US 35 to City Limit): Burkhardt Rd. – Phase I (Ketchum to E. City Limit): Harshman Rd. – Phase II (Transportation to S. City Limit): 	\$ 690,000 \$ 1,521,500 \$ 1,439,500 \$ 1,923,700 \$ 1,361,500 \$ 820,900 \$ 1,135,900 \$ 940,100 \$ 1,525,900 \$ 1,896,400 \$ 926,800 \$ 1,256,600 \$ 1,256,600 \$ 2,114,000 \$ 2,056,000 \$ 2,056,000 \$ 1,634,200 \$ 1,634,200 \$ 1,195,500 \$ 1,300,000 \$ 1,300,000 \$ 1,300,000 \$ 1,300,000 \$ 2,000,000 \$ 2,000,000
TOTAL	\$36,334,000

Working through the summary of Major Thoroughfare Improvement Projects, Council requested additional information on the streets being reviewed. The request asked staff to present the streets being reviewed in an order of replacement under a generalized timeline. In accordance with that direction, staff reviewed the catalog of City ordinances and resolutions. Staff performed this exercise to find benchmarks for construction projects awarded between January 1995 and present. Based on the legislation enacted by Council, staff was able to assemble a general timeline of when most of the City's major roadways should have been or will need to be scheduled for improvement.

P: 937.233.1801



The following schedule is based on the year in which relevant legislation was enacted with generally accepted construction standards for roadway improvements. Slurry-seal like applications typically extend roadway life by 10 years while mill-n-fill, overlay, and reconstructions have lifespans of 15-20 years before needing to be replaced. For those streets with a replacement year noted as "N/A," there was no legislative record of work previously performed.

Project Name Spaulding Rd.: Union Schoolhouse Rd.: Needmore Rd. (SR 201 to SR 202):	Estimated Cost	Replacement Year
Spaulding Rd.:	690,000	N/A
Union Schoolhouse Rd.: V	800,000	N/A
Needmore Rd. (SR 201 to SR 202):	1,361,500	N/A
Eastman Dr. (Woodman Dr. to Spinning Rd):	560,000	M/A
Schwinn Dr. (SR 201 to SR 202):	820,900	N/A
Airway Rd. (Woodman east to City Limit):	1,896,400	2015
Airway Rd. (Woodman west to City Limit):	1,923,700	2015
Springfield St.(Woodman east to City Limit):	1,521,500	2017 2020
Springfield St. (Woodman west to Gity Limit):	1,439,500	2017 2021
Valley St Phase II (Romer to Harshman): Broad keed \$	1,256,600	2018 2020
Valley St. – Phase III (Harshman east to City Limit):	1,528,500	2018
Spinning Rd. – Phase II (Eastman to Burkhardt):	940,100	2019 2023
Spinning Rd Phase III (Burkhardt to Airway): \$	1,525,900	2019
Spinning Rd. – Phase I (Linden to Eastman):	1,135,900	2020 2024
Woodman Dr. (CSX Rail Bridge to Airway Rd.):	2,114,000	2021 2025
	2,056,000	2021
Old Troy Pike (City Limit to City Limit): 1-7-00 04 \$	1,634,200	2022 2024
> Community Dr. (SR 202 to SR 201): 19 19 19 19 19 19 19 1	394,000	2023 2027
Brandt Pike (City Limit to City Limit): 1520 y ≥ \$	1,195,500	2023
Beatrice Dr. (SR 201 to Harshman): 10 17 17 17 5	499,000	2024 2028
Woodman Dr. (US 35 to City Limit): \$	954,000	2024
Linden Ave. – Phase I (W. City Limit to Quimby): 6-844 \$	1,300,000	2025 2029
Linden AvePhase II (Quimby to E. City Limit):	1,260,000	2025
Harshman Rd. – Phase I (N City Limit to Transportation): \$	2,000,000	2026 2030
	2,000,000	2026
Valley St Phase I (West City Limit to Rohfer): Buildings	926,800	2027 2031
Burkhardt Rd. – Phase II (Ketchum to E. City Limit): 6 gg/ \$	1,300,000	2027
Burkhardt Rd. – Phase I (W. City Limit to Ketchum): ** \$	1,300,000	2028 2032

Many factors contribute to the rate and manner in which a road will deteriorate to the point of needing resurfacing or reconstruction. And while it is highly likely the above schedule of street reconstruction will change for a variety of reasons, it should provide Council with a general guideline for continued discussion on this matter.



In addition to the General Thoroughfare Improvement Projects identified through the Major Thoroughfare Improvement Plan process, several Projects of Opportunity were acknowledged. The Projects of Opportunity are those that represent ancillary improvements to the proposed General Thoroughfare Improvement Projects, address non-motorized transportation improvements, or would be in response to or in support of economic development projects. The final list of Projects of Opportunity and their anticipated expense are as follows:

	Spaulding/Linden Radii &Stacking Improvements:	\$ 215,000
A	Springfield St. (East) Street Lighting Improvements:	\$ 484,200
A	Springfield St. (West) Street Lighting Improvements:	\$ 216,900
	Wright Point Office Drive Relocation Project:	\$ 180,000
A	Norman/Old Harshman Closure & Ramp Extension:	\$ 500,000
A	Spinning/Burkhardt Radii Improvements:	\$ 225,000
	Spinning/Bayside Traffic Signal:	\$ 340,000
1	Airway Woodman Intersection Safety Improvements:	\$ 500,000
A	Airway/ASC Drive Traffic Signal:	\$ 350,000
	Union Schoolhouse/Forest Ridge Blvd Roundabout:	\$ 600,000
A	Lily Creek/Woodman Dr. Bridge Improvement:	\$ 252,000
	Replace Springfield/Woodman Interchange with At-Grade:	\$ 4,413,000
	Woodman Dr. Multi-use Path:	\$ 563,000
A	Woodman Dr. Replace/Upgrade Guardrail:	\$ 121,000
	Beatrice/Harshman Traffic Signal:	\$ 399,000
	TOTAL	\$ 9,359,100

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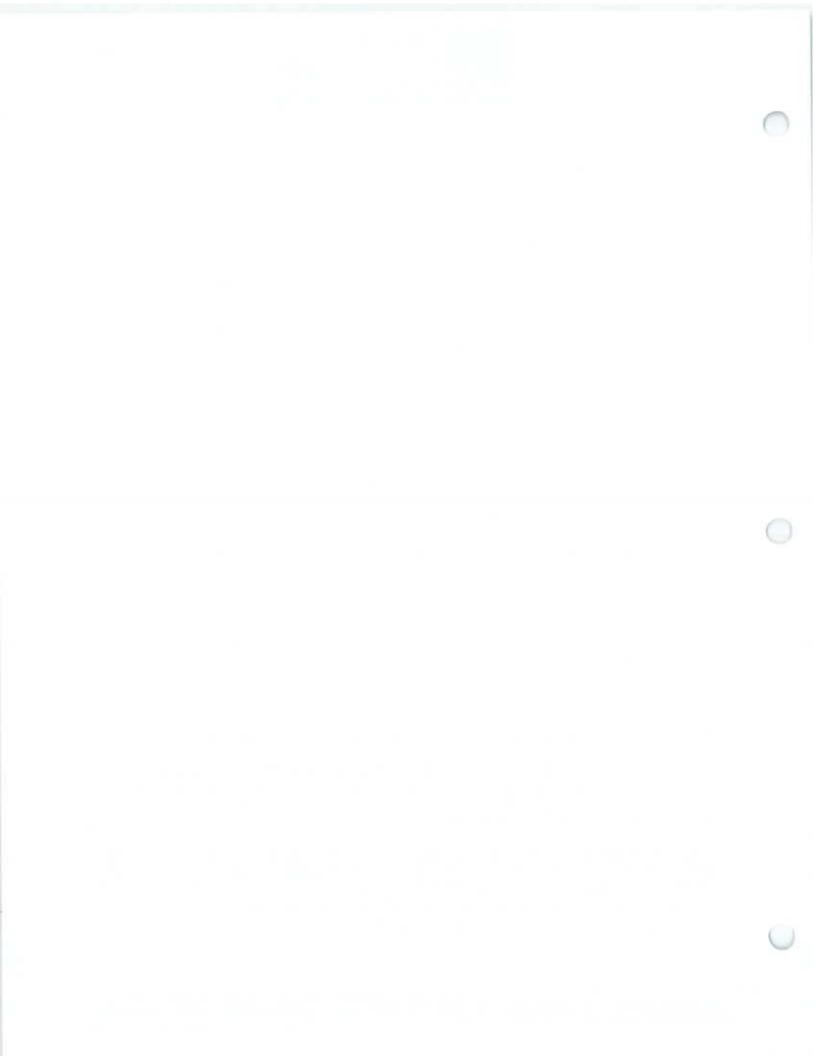
Breaking-down the above Projects of Opportunity by the subcategories of roadway enhancement, non-motorized transportation improvements, or those in response to economic development projects presents a list reorganized as follows:

	Project Name	Estimated Cost	Project Year
	Roadway Enhancement*		
	Union Schoolhouse/Forest Ridge Blvd Roundabout:	\$ 600,000	N/A
A	Springfield St. (East) Street Lighting Improvements:	\$ 484,200	2017
	Springfield St. (West) Street Lighting Improvements:	\$ 216,900	2017
A	Spinning/Burkhardt Radii Improvements:	\$ 225,000	2019 or 2028
A	Spinning/Bayside Traffic Signal:	\$ 340,000	2019
	Airway/Woodman Intersection Safety Improvements:	\$ 500,000	2021
	Lily Creek/Woodman Dr. Bridge Improvement:	\$ 252,000	2021
	Woodman Dr. Replace/Upgrade Guardrail:	\$ 121,000	2021
	Beatrice/Harshman Traffic Signal:	\$ 399,000	2024 or 2026
	Spaulding/Linden Radii &Stacking Improvements:	\$ 215,000	2025
	Economic Development Project		
A	Wright Point Office Drive Relocation Project:	\$ 180,000	N/A
A	Norman/Old Harshman Closure & Ramp Extension:	\$ 500,000	N/A
	Airway/ASC Drive Traffic Signal:	\$ 350,000	N/A
A	Replace Springfield/Woodman Interchange with At-Grade:	\$ 4,413,000	N/A
	Non-Motorized Transportation		
>	Woodman Dr. Multi-use Path:	\$ 563,000	TBD

^{*} The project year dates are correlated to the proposed street replacement schedule for the General Thoroughfare Improvement Projects but are not required to be constructed in combination with those projects.

Since beginning the Major Thoroughfare Improvement Project, Council has directed staff to provide additional details on the identified projects. This detail will include the verification of final project estimates by LJB and a breakdown of each project's potential funding sources. The funding breakdown will categorize project expenses eligible for grants or assessments; dates for establishing assessments or making grant applications (if available), and any per-project limitations for those grant funds (if available).

For this second segment of the Major Thoroughfare Improvement Plan, I envision a rough draft of this information provided to Council with one of the later drafts of the 2016 Operating Budget. This timing is intended to help ensure that staff and Council are aware of any additional financial needs which might be incurred. The final document of this segment of the Major Thoroughfare Improvement Plan is scheduled for completion by March 3, 2016.





TO:

Riverside City Council

FROM:

Bryan RH Chodkowski,

City Manager

SUBJECT:

Major Thoroughfare Improvement Plan -

Phase III, Group I

DATE:

January 27, 2015

CC:

Emily M. Christian,

Assistant City Manager

Mitch Miller,

Director of Public Services

This memorandum represents the start of the final phase of the Major Thoroughfare Improvement Plan undertaken by staff in 2014. In the first phase of this project, staff and Council reviewed the major roadways of the City and brainstormed about all the improvements that could be included as part of a street's reconstruction. In the second phase of this project, the City Engineer quantified the expense of all the project elements identified in the first phase. In this third phase, staff is providing a recommendation on a final project scope for each street which takes into account cost, scale, and practicality.

This memorandum provides a brief summary of the project elements addressed in Phase II and their estimated expenses. For your reference, the Phase II information provided by the Engineer is attached to this memorandum. Following each summary is staff's recommendation for a final project scope and estimated project cost based on the modifications generally described below.

These project summaries are as follows:

SPAULDING RD.

Phase II Elements and Pricing:

•	General Road Condition Improvement -	\$ 500,000
•	Street Lighting -	\$ 400,000
•	Radii and Traffic Stacking Improvements -	\$ 215,000
	Uniform Right-of-way -	\$ 50,000
	TOTAL	\$1,165,000



SPAULDING RD. (CONT'D)

Phase III Staff Project Scope Recommendations:

 General Road Condition Improvements - limit sidewalk to the west side of Spaulding where sufficient right-of-way exists to provide separation from vehicle traffic and pedestrian traffic.

 Street Lighting - reduce scope of lighting to the intersection of Linden/Spaulding (2), the approach to Linden Ave on Spaulding (4), the intersection of Spaulding/Eastmont driveway (2), and the intersection of Spaulding/Leising (2). This reduced lighting scope is recommended for inclusion with General Road Condition Improvements.

 Radii and Traffic Stacking Improvements – considered a stand-alone project best addressed with a change in use or ownership to the property located on the northwest corner of Spaulding/Linden.

• Uniform Right-of-way - this project is not recommended for further consideration.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvement -	\$ 461,300
Street Lighting -	\$ 228,700
Radii and Traffic Stacking Improvements	\$ 215,000
Uniform Right-of-way -	\$ 0
TOTAL	\$ 905,000

SPRINGFIELD ST. (WOODMAN DR. EAST TO CITY LIMIT)

Phase II Elements and Pricing:

General Road Condition Improvement -	\$1,375,000
Street Lighting -	\$1,000,000
Museum Entrance -	\$ 180,000
TOTAL	\$2,555,000

Phase III Staff Project Scope Recommendations:

- General Road Condition Improvements no changes in scope recommended.
- Street Lighting staff recommends utilizing decorative poles and fixtures similar to those existing in the Center of Flight and extend east to WPAFB Gate B-1. This project should be considered a low-priority project and pursued as a stand-alone improvement.
- Museum Entrance this project should be incorporated as part of the General Road Condition Improvements.



SPRINGFIELD ST. (WOODMAN DR. EAST TO CITY LIMIT - CONT'D)

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvement -	\$1,375,000
Street Lighting -	\$ 484,200
Museum Entrance -	\$ 146,500
TOTAL	\$2,005,700

SPRINGFIELD ST. (WOODMAN DR. WEST TO CITY LIMIT)

Phase II Elements and Pricing:

•	General Road Condition Improvement -	\$1,300,000
•	Street Lighting -	\$ 650,000
	Relocate Wright Point Office Drive -	\$ 180,000
•	Close Norman Blvd at Springfield -	\$ 150,000
•	Close Norman & Old Harshman Extending Ramp	\$ 500,000
	Change Pavement Striping	\$ 100,000
•	Reconfigure Northcliff Intersection	\$ 325,000
	TOTAL	\$3,205,000

Phase III Staff Project Scope Recommendations:

- General Road Condition Improvements staff recommends no modifications in scope.
- Street Lighting limiting the scope of this project and establishing as a stand-alone or tie-in to the Springfield east lighting project is recommended. Amended scope to include decorative street lighting, similar to that in Center of Flight, extended to Memorial Park with limited replacement of existing poles listing.
- Relocate Wright Point Office Drive this project should be considered a stand-alone project, funded through Wright Point Fund but coordinated with General Road Condition Improvement project.
- Close Norman Blvd at Springfield it is staff's recommendation that this project should be included with the General Road Condition Improvement project.
- Close Norman & Old Harshman Extending Ramp staff considers this a low-priority, stand-alone project which should be pursued only if associated with a special economic development project.
- Change Pavement Striping this project should be included as an element of the General Road Condition Improvement project.
- Reconfigure Northcliff Intersection this project is not recommended for further consideration.



SPRINGFIELD ST. (WOODMAN DR. WEST TO CITY LIMIT - CONT'D)

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvement -	\$1,300,000
Street Lighting -	\$ 216,900
Relocate Wright Point Office Drive -	\$ 180,000
Close Norman Blvd at Springfield -	\$ 114,400
Close Norman & Old Harshman Extending Ramp	\$ 500,000
Change Pavement Striping	\$ 25,100
Reconfigure Northcliff Intersection	\$ 0
TOTAL	\$2,336,400

AIRWAY RD. (WOODMAN DR. WEST TO CITY LIMIT)

Phase II Elements and Pricing:

• Gene	General Road Condition Improvement -	\$1,600,000
	Street Lighting -	\$ <u>550,000</u>
	TOTAL	\$2,150,000

Phase III Staff Recommendations:

- General Road Condition Improvements staff recommends no modifications in scope.
- Street Lighting this project, under limited scope of lighting side-street intersections with Airway and the approach to Woodman Dr., should be included as part of the General Road Condition Improvement project.

Phase III Cost Estimates Based on Staff Recommendations:

•	General Road Condition Improvement -	\$1,600,000
•	Street Lighting -	\$ 323,700
	TOTAL	\$1,923,700



NEEDMORE Rd. (SR 201 to SR 201)

Phase II Elements and Pricing:

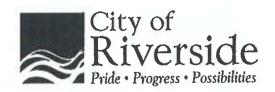
•	General Road Condition Improvements -	\$	950,000
	Street Lighting -	\$	650,000
	Landmark Church Turn Lane -	\$	250,000
	Grass Medians -	\$	100,000
	Improve Gary Dr. Turn Radii -	\$	N/A
	Improve Llyod Dr. Turn Radii -	\$	75,000
	Uniform Right-of-way -	\$	275,000
	TOTAL	\$2	,300,000

Phase III Staff Recommendations:

- <u>General Road Condition Improvements</u> *limited curb work is recommended for inclusion in the area of Llyod and Interpoint.*
- Street Lighting under limited scope of lighting side-street intersections with Needmore
 as well as the approach to SR 202, this project should be included as part of the General
 Road Condition Improvement project.
- <u>Landmark Church Turn Lane</u> provided the church is willing to donate the necessary right-of-way; staff recommends including this project with the General Road Condition Improvement projects.
- Grass median reducing the scope to that area in the immediate vicinity of the Landmark Church, the inclusion of this work in the General Road Conditions Improvement project is recommended.
- Improve Gary Dr. Turn Radii the Engineer recommends that this project element is not necessary.
- Improve Lloyd Dr. Turn Radii this project is recommended for inclusion with the General Road Condition Improvement project.
- Uniform Right-of-way this project is not recommended for further consideration.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvements -	\$	950,000
Street Lighting -	\$	205,300
Landmark Church Turn Lane -	\$	119,300
Grass Medians -	\$	34,100
Improve Gary Dr. Turn Radii -	\$	N/A
Improve Llyod Dr. Turn Radii -	\$	52,800
Uniform Right-of-way -	\$	0
TOTAL	\$1	,361,500



SCHWINN DR. (SR 201 TO SR 201)

Phase II Elements and Pricing:

General Road Condition Improvements -	\$ 450,000
Street Lighting -	\$ 525,000
Improve SR 201 Turn Radii -	\$ 370,000
Improve SR 202 Turn Radii -	\$ 185,000
Uniform Right-of-way -	\$ N/A
TOTAL	\$ 1,530,000

Phase III Staff Recommendations:

- General Road Condition Improvements staff has no additions or deletions to recommend for this project element.
- Street Lighting a limited scope to provide lighting at the approaches/intersections of SR 201, SR 202, and in front of Brantwood Elementary is recommended for inclusion in the General Road Condition Improvement Project.
- Improve SR 201 Turn Radii with the removal of the traffic signal, this modified element is recommended for inclusion in the General Road Condition Improvement project.
- Improve SR 202 Turn Radii this project is no longer recommended based on the impacts to adjacent property owners.
- Uniform Right-of-way the Engineer is recommending that the City not pursue this element.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvements -	 450,000
Street Lighting -	\$ 269,600
Improve SR 201 Turn Radii -	\$ 101,300
Improve SR 202 Turn Radii -	\$ 0
Uniform Right-of-way -	\$ N/A
TOTAL	\$ 820,900

A 450 000



By way of a more generalized, total summary; when project estimates were prepared through the Phase II process to include all aspects of that work which could be included under a major thoroughfare improvement plan for the Group I streets, the cost estimates were calculated as:

➤ Spaulding Rd.:	\$ 1,165,000
Springfield St.(Woodman east to City Limit):	\$ 2,555,000
Springfield St. (Woodman west to City Limit):	\$ 3,205,000
➤ Airway Rd. (Woodman west to City Limit):	\$ 2,150,000
➤ Needmore Rd. (SR 201 to SR 202):	\$ 2,300,000
➤ Schwinn Dr. (SR 201 to SR 202):	\$ <u>1,530,000</u>
TOTAL	\$12,905,000

Following the Phase III process performed by staff, the above projects can be separated into one of two categories. The first, *General Thoroughfare Improvements Projects*, represents the scope of work which the City would seek to perform through its long-term plan. These projects would be those the City would actively seek to perform and obtain grant funding to support. *Projects of Opportunity* are those that would be driven through an economic development project, when non-transportation grant dollars might be utilized, or the financial condition of the City allows the project to be undertaken. These two categories now provide project estimates as follows:

General Thoroughfare Improvement Projects:

➤ Spaulding Rd.:	\$ 690,000
Springfield St.(Woodman east to City Limit):	\$ 1,521,500
➤ Springfield St. (Woodman west to City Limit):	\$ 1,439,500
➤ Airway Rd. (Woodman west to City Limit):	\$ 1,923,700
➤ Needmore Rd. (SR 201 to SR 202):	\$ 1,361,500
> Schwinn Dr. (SR 201 to SR 202):	\$ 820,900
TOTAL	\$ 7,757,100

Projects of Opportunity:

Spaulding/Linden Radii &Stacking Improvements:	\$ 215,000
Springfield St. (East) Street Lighting Improvements:	\$ 484,200
Springfield St. (West) Street Lighting Improvements:	\$ 216,900
Wright Point Office Drive Relocation Project:	\$ 180,000
Norman/Old Harshman Closure & Ramp Extension:	\$ 500,000
TOTAL	\$ 1,596,100



You will note that there is a significant change in project cost estimates from those calculated in Phase II and those provided in this Phase III memorandum. While certain reductions are obvious because a project element was outright deleted from the overall project scope, other saving measures occurred in reduction of scope and/or the reduction of duplicate expenses. The duplicate activities being removed or reduced from the projects include such items as surveying, mobilization, and clearing & grubbing.

As we proceed through Phase III of this project, the Engineer will be preparing more detailed project cost estimates in a format similar to those provided for Phase II. Once all four street groupings have been through the Phase III process; a final document with comprehensive cost estimates, generalized project summaries, and potential timeline will be provided to Council. This final, Major Thoroughfare Improvement Plan document should assist Council in further discussion on how to best begin reconstructing and improving the main streets of the City.

Should you have any questions or concerns regarding the information contained within this memorandum, please do not hesitate to contact me.

SPRINCEFIELD (NOODMAN WEST)

1. GENERAL ROAD CONDITION IMPROVENIENT 4 STAND- ALOWE PROJECT, HIGH PRIORITY NOVE FORWARD, ADD #4 AND #6 4 STP, SMAR, OR TH

STREET LIGHTING

4 STAND-ALOWE PROJECT; LOW PRIORITY

4 REDUCE / CHANGE SCOPE

LA INSTAL DECORATIVE BETWEEN WOODMAN AND OLD HARSHMAN (INCLUDIZ MEMORIAL PARK). 4 REPORCIE EXISTING POLIS THAT ARIZ LISTING

3.) RELOCATE WRIGHT-POINT OFFICE DRIVE 4 STAND- ALOWEZ PROJECT: LOW PRIORITY LA OFF-LOAD TO WAKEHT POINT FOND

CLOSE NORMAN BLUD C SPRINGERISLA 4 INCORPORATE INTO #1

S.) LLOSTE NORMAN + OUD HARGHMAN - EXPAIND LAMP. 4 STAWD - ALOWE PROTECT, LOW PRIDRITY 4 TIE TO PUTURE PEVELOPMENT PROTECT

CHAIXE PAVEMENT STRIPING 4 FINCORPORATE 11070 #/

RECOWFIGURES NORTHWIFF INTERSECTION



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 1 AUGUST 2014

SPRINGFIELD STREET, WOODMAN WEST TO CORP LINE

Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 1. These corridors include Spaulding Road, Springfield Street east of Woodman Drive, Springfield Street west of Woodman Drive, Airway Road west of Woodman Drive, Needmore Road between SR 201 and SR 202, and Schwinn Drive. A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

TASK	ESTIMATED COST
General Road Condition improvement This includes a general rehab including mill and fill, an estimated quantity of full depth pavement repair, some sidewalk replacement and replacement of curb and storm sewer inlets.	Construction=\$1,300,000
Street Lighting This includes continuous ODOT type light poles, underground wiring and new circuits.	Construction = \$650,000
Relocate Wright Point Office Drive This includes moving the drive about 150 feet west and providing an allowance for reconfiguring the existing parking lot to accommodate internal circulation.	Construction = \$180,000
Closing Norman Blvd at Springfield Street This includes closing Norman and reconfiguring the Old Harshman intersection. (The option of closing Old Harshman is not recommended and has not been included.)	Construction = \$150,000



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 1 AUGUST 2014

Closing both Norman and Old Harshman This includes minor curb addition to close both streets and building a new road opposite the existing Woodman'ramp. This option requires significant preliminary engineering and coordination with ODOT, if it is even feasible.	Construction = \$500,000
Change Pavement Strlping This includes a typical road diet and results in one lane in each direction, a center two way left turn lane and bike lanes on each side. The scope of this work is primarily removing and replacing pavement markings. Coordination with the City of Dayton is required for the transition at the west end. NOTE: this cost would be greatly reduced if included in a rehab project.	Construction = \$100,000
Reconfigure Northcliff Intersection This includes realignment of Northcliff to make a 90 degree intersection with Springfield Street and realigning North Garden Ave to meet the new configuration.	Construction =- \$250,000 Property Cost = \$75,000
TOTAL SPRINGFIELD STREET, WOODMAN WEST TO CORP LINE IMPROVEMENTS	\$3,205,000



SPRINGFIELD STREET WOODMAN WEST TO CORP - REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0
202	WALK REMOVED	15000 SF	\$	2.00	\$	30,000.0
202	CURB REMOVED	8500 FT	\$	4.00	\$	34,000.0
202	CATCH BASIN OR INLET REMOVED	12 EA	\$	350.00	\$	4,200.0
253	PAVEMENT REPAIR, FULL DEPTH	1250 SY	\$	50.00	\$	62,500.0
254	PAVEMENT PLANING, ASPHALT CONCRETE	25000 SY	\$	2.00	\$	50,000.0
407	TACK COAT	4000 GAL	\$	3.00	\$	12,000.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, 2"	1400 CY	\$	175.00	\$	245,000.0
603	15" CONDUIT, TYPE B	400 FT	\$	50.00	\$	20,000.0
604	CATCH BASIN	42 EA	\$	2,500.00	\$	105,000.0
604	MANHOLE, NO. 3	6 EA	\$	3,000.00	\$	18,000.0
608	4" CONCRETE WALK	25000 SF	\$		\$	62,500.0
608	CURB RAMPS	26 EA	\$	450.00	\$	11,700.0
609	CURB	9500 FT	\$	15.00	\$	142,500.0
644	PAVEMENT MARKINGS	1 LS	\$	7,500.00	\$	7,500.0
				Subtotal	\$	810,000.0
NE SAME						
614	MAINTAINING TRAFFIC	1 LS	\$	20,000.00		20,000.0
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00		9,600.0
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	3,500.00	\$	3,500.0
624	MOBILIZATION	1 LS	\$	20,000.00	\$	20,000.0
於於於於於				Subtotal	\$	864,000.0
		21 2000	200	D: 1- (0.50/)		202 000 0
		Des	sign	Risk (35%) Subtotal	\$	303,000.0 1,167,000.0
33.W.Su 2025		Victory National	17/8	Odbiolai	GIRE	
najakaria:		ENGIN	EEF	RING (10%)	\$	117,000.0
				Total	\$ '	1,284,000.0

· APRON REPLACEMENT AT SISVERAL LUCATIONS.
· LIMITARD CORTE SAMPLINCO.

1 . 1 .



SPRINGFIELD STREET WOODMAN WEST TO CORP LIGHTING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

		_		_		-1
ITEM DESCRIPTION	QUANTITY		UNIT COST	_	TOTAL COST	1
201 CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00	
625 LIGHT POLES(1)	-60 EA	\$	4,000.00	\$	~240,000.0 0	50,00
625 WIRING 2000	-4500 FT	\$	25.00	\$	112,500.00	50,00
625 SINGLE CIRCUIT	2 EA	\$	20,000.00	\$	40,000.00	
		1				
		-	Subtotal	\$	-398,000.00	142,0
	2-225 (0.225)	網製	ONE STORY			1
614 MAINTAINING TRAFFIC	1 LS	\$	10,000.00	\$	10,000.00	1
619 FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	\$	- 9,600.00	1
623 CONSTRUCTION LAYOUT STAKES	1 LS	\$	4,500.00	\$	4,500.00	4,000
624 MOBILIZATION	1 LS	\$	10,000.00	\$	10,000.0 0	71
Secretary visit and the second secretary and the second se			7,18 E 18 E			
			Subtotal	\$	433,000:00	146,00
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		1646			美国教教院	-1 1
	De	sign	Risk (35%)	\$	152,000:00	51,10
			Subtotal	\$	585,000,00	197,1
	ENGIN	EER	ING (10%)	\$	59,000.00	19,7
			Total	\$	644,000.0 0	214.8
		湖湖				14,0

Notes:

(D) 13 DECORPTIVE POLISS PARE ESTIMATIED AS NEEDED BETWEEN WOODMAN DR AND MEMORIAL PARK.



4.7

RELOCATE WRIGHT POINT DRIVE TO THE WEST CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 2014

ITEM	DESCRIPTION	QUANTITY	_	UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
202	PAVEMENT REMOVED, CONCRETE	70 SY	\$	30.00	\$	2,100.00
202	PAVEMENT REMOVED, ASPHALT	70 SY	\$	30.00	\$	2,100.00
202	CURB REMOVED	200 FT	\$	4.00	\$	800.00
203	EXCAVATION	900 CY	\$	12.00	\$	10,800.00
203	EMBANKMENT	100 CY	\$	20.00	\$	2,000.00
204	SUBGRADE COMPACTION	200 SY	\$	2.00	\$	400.00
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	200 SY	\$	10.00	\$	2,000.00
304	AGGREGATE BASE, 10"	60 CY	\$	60.00	\$	3,600.00
407	TACK COAT	50 GAL	\$	3.00	\$	150.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	15 30	\$	225.00	\$	3,375.00
609	CURB	140 FT	\$	15.00	\$	2,100.00
SPECIAL		1 LS	\$	50,000.00	\$	50,000.00
644	PAVEMENT MARKINGS	1 LS	\$	2,500.00	\$	2,500.00
659	TOPSOIL	25 CY	\$	25.00	\$	625.00
659	SEEDING AND MULCHING	100 SY	\$	2.00	\$	200.00
832	EROSION CONTROL	2500 EA	\$	1.00	\$	2,500.00
NOVE ENDOUG		机构的需要设施				(A. J. L. S.
CONTRACTOR INC.				Subtotal	\$	91,000.00
4000			1			Hell Ships
614	MAINTAINING TRAFFIC	1 LS	\$	10,000.00	\$	10,000.00
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00		9,600.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$		\$	4,500.00
624	MOBILIZATION	1 LS	\$	4,000.00	\$	4,000.00
		Selection of the selection	275	Value of the latest of the lat	A STATE OF	400 000 00
		reserved services.	THE STATE OF THE S	Subtotal	\$	120,000.00
SE SANDAY			對對	DI-1- (0.50()		40,000,00
		Des	sign	Risk (35%)	\$	42,000.00 162,000.00
	AND		and the	Subtotal	\$ Perco	102,000.00
		CNOW	0.5500	21NO (400/)	A 1	17,000.00
		ENGIN	EEF		\$	17,000.00
resoultaneous to the		945 HOURS	# St		\$	17 8,000.00
高端的研究			are a		256800	THE SECTION OF THE

STAND - ALOURE PROSTSET LOFF-BOOK TO WAF (402)



CLOSE NORMAN AT SPRINGFIELD ST CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$		\$	5,000.00
202	PAVEMENT REMOVED, ASPHALT	1000 SY	\$		\$	8,000.00
202	WALK REMOVED	1200 SF	\$	1.50	\$	1,800.00
202	CURB REMOVED	300 FT	\$	3.00	\$	900.00
202	CATCH BASIN OR INLET REMOVED	2 EA	\$	350.00	\$	700.00
204	SUBGRADE COMPACTION	400 SY	\$	2.00	\$	800.00
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	400 SY	\$	5.50		2,200.00
301	ASPHALT CONCRETE BASE, PG64-22, 6"	70 CY	\$	125.00	\$	8,750.00
304	AGGREGATE BASE, 10"	100 CY	\$	50.00	\$	5,000.00
407	TACK COAT	60 GAL	\$	3.00	\$	180.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	35 CY	\$	200.00	\$	7,000.00
603	15" CONDUIT, TYPE B	100 FT	\$	50.00	\$	5,000.00
604	CATCH BASIN, NO. 3	2 EA	\$	2,500.00	\$	5,000.00
604	MANHOLE, NO. 3	1 EA	\$	3,000.00	\$	3,000.00
608	4" CONCRETE WALK	1200 SF	\$	5.00	\$	6,000.00
608	CURB RAMPS	4 EA	\$	450.00	\$	1,800.00
609	CURB, TYPE 6	350 FT	\$		\$	5,250.00
630	SIGNAGE	1 LS	\$	1,500.00	\$	1,500.00
659	TOPSOIL	80 CY	\$		\$	3,200.00
659	SEEDING AND MULCHING	500 SY	\$	2.00	\$	1,000.00
832	SWPPP	1 LS	\$	2,500.00	\$	2,500.00
832	EROSION CONTROL	1500 EA	\$		\$	1,500.00
		A. S.	egg			
				Subtotal	\$	77,000.00
的自然。它		(1865) Nation (1865)				
	MAINTAINING TRAFFIC	1 LS	\$	10,000.00	\$	-10,000.00
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	\$	-9,600.00
	CONSTRUCTION LAYOUT STAKES		\$	1,000.00		1,000.00
624	MOBILIZATION		\$	4,000.00		-4,000.00
投資的		Contract to			提到	100
				Subtotal	4	102-000-00

Subtotal \$.402,000.00

Design Risk (35%) \$ 36,000.00 Subtotal \$ 438,090.00

ENGINEERING (10%) \$ 14,000.00 Total \$ 162,000.00 77,000

26,950

114,345



1. 1.

SPRINGFIELD ST WOODMAN WEST RESTRIPING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

ITEM	DESCRIPTION	QUANTITY		JNIT COST		TOTAL COST
643	REMOVAL OF PAVEMENT MARKING	12600 F.T	\$	-3.00	\$	-97,800.00
644	PAVEMENT MARKINGS	0.8 MI	\$	5,000.00	\$	4,000.00
604	CATCH BASIN GRATES REPLACED	25 EA	\$	500.00	\$	12,500.00
500 m	CATTON CONTROL TO THE CONTROL THE CONTROL TO THE CONTROL TO THE CONTROL TO THE CONTROL TO THE CO	es encologica for new states (etc.		大百二十二		1.63 50000
ON STATISTICS.	520 (32 (32 (32 (32 (32 (32 (32 (32 (32 (32			Subtotal	\$	65,000. 00
10/32/5/4/		The state of the s		"你说我们的 "	WE.	(S) 20 / 65 (S) 45 (S)
614	MAINTAINING TRAFFIC	1 LS	\$	10,000.00	\$	40,000:00
619	FIELD OFFICE, TYPE B	2 MN	\$	1,600.00	\$	3,200.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$		\$	<u> </u>
624	MOBILIZATION	1 LS	\$	4,000.00	\$	4,000.00
(A) (A)			NAME OF	30.2363	88	
				Subtotal	\$	73,000.0 0
		A CONTRACTOR OF THE STATE OF TH			和冰	26,000.00
S CHI MINI MANAGEMEN		De	sign	Risk (35%)	\$	A STATE OF THE PARTY OF THE PAR
				Subtotal	\$	99,000.00
1888		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	186		184	(在1920年1920年191
2000 Contraction		ENGIN	IEEF	RING (10%)	\$	-10,000.0 0
				Total	\$	100,000.00



SPRINGFIELD ST RECONFIGURE NORTHCLIFF CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 2014

ITEM	DESCRIPTION	QUANTITY	T	UNIT COST	Г	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
202	PAVEMENT REMOVED, ASPHALT	1800 SY	\$	5.00	\$	9,000.00
202	WALK REMOVED	50 SF	\$	2.50		125.00
202	CONCRETE DRIVE APPROACH REMOVED	100 SY	\$	8.00	\$	800.00
202	CONCRETE PAVEMENT REMOVED	425 SY	\$	12.00	\$	5,100.00
202	CURB REMOVED	450 FT	\$	3.00	\$	1,350.00
202	CATCH BASIN OR INLET REMOVED	1 EA	\$	500.00	\$	500.00
203	EXCAVATION	500 CY	\$	10.00	\$	5,000.00
203	EMBANKMENT	150 CY	\$	12.00	\$	1,800.00
204	SUBGRADE COMPACTION	1000 SY	\$	2.00	\$	2,000.00
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	1000 SY	\$	5.50	\$	5,500.00
301	ASPHALT CONCRETE BASE, PG64-22, 6"	175 CY	\$	125.00	\$	21,875.00
304	AGGREGATE BASE, 10"	300 CY	\$	40.00	\$	12,000.00
407	TACK COAT	150 GAL	\$	3.00	\$	450.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	80 CY	\$	175.00	\$	14,000.00
603	15" CONDUIT, TYPE A	200 FT	\$	50.00	\$	10,000.00
604	CATCH BASIN, NO. 3	3 EA	\$	2,500.00		7,500.00
604	MANHOLE, NO. 3	1 EA	\$	3,000.00	\$	3,000.00
605	6" BASE PIPE UNDERDRAIN	500 FT	\$	8.00	\$	4,000.00
608	4" CONCRETE WALK	600 SF	\$	5.00		3,000.00
608	CURB RAMPS	2 EA	\$	450,00		900.00
609	CURB	500 FT	\$	15.00		7,500.00
644	PAVEMENT MARKINGS AND SIGNS	1 LS	\$	1,500.00	\$	1,500.00
659	TOPSOIL	200 CY	\$	25.00		5,000.00
659	SEEDING AND MULCHING	1000 SY	\$		\$	3,000.00
832	SWPPP	1 LS	\$	5,000.00	\$	5,000.00
832	EROSION CONTROL	2500 EA	\$	1.00	\$	2,500.00
108686						
(A.K. 12)			113-15		\$	138,000.00
614	MAINTAINING TRAFFIC	1 LS	\$	10,000.00		7,500.00
	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00		9,600.00
	CONSTRUCTION LAYOUT STAKES	1 LS	\$	4,500.00		4,500.00
624	MOBILIZATION	1 LS	\$	4,000.00	\$	4,000.00
(#121.28		Section Section	19.4%		200	19.62 (91.02%)
					\$	164,000.00
No.					(E)	
		Des	ign l	Risk (35%)	\$	58,000.00
				Subtotal	\$	222,000.00
		CALLES CONTRACTOR STATES CONTRACTOR				
		ENGIN	EER	ING (10%)	\$	23,000.00
					\$	245,000.00
ZWAZ.		AND MAKE A PARTY AND A P	(3.51Y)		10.5	

Notes:

- 1 Right of way is estimated separately
- 2 Existing pavement is assumed to be asphalt
- 3 Utility relocation not Included

STAWD - PLONIE PROJECT
LATIE TO DEVELOPMENT PROSECT

(WOODMAN EAST)

LEWERAL ROAD CONSITION FAPROVENEWS LO HOUR FORWARD, ADD MUSEUM. ENTERANCE LO STAND- ALOWE PROJECT

2) STREAT LIGHTING

4) REDUCE SCOPE

+ DECORDITIVE POSTS MATCHING COF EXISTING

+ EXTEND FROM LOF EAST TO AREA B GATTE

LA STAND- ALOURE MOSTRET; LOW PRIORITY

3.) MUSISUM ENTIRANCE
LA INCLUBIE AS PART OF GENERAL ROAD CONDITION FOR



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 1 AUGUST 2014

SPRINGFIELD STREET, WOODMAN EAST TO CORP LINE

Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 1. These corridors include Spaulding Road, Springfield Street east of Woodman Drive, Springfield Street west of Woodman Drive, Airway Road west of Woodman Drive, Needmore Road between SR 201 and SR 202, and Schwinn Drive. A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

TASK	ESTIMATED COST
General Road Condition Improvement This includes a general rehab including mill and fill, and estimated quantity of full depth pavement repair and replacement of curb and storm sewer inlets. Sidewalk is not recommended for this section of the corridor and is not included in the project estimate. The existing sidewalk connection under Woodman Drive on the north side of the road is sufficient for future needs and no improvements are included.	Construction= \$1,375,000
Street Lighting This includes continuous ODOT type light poles, underground wiring and new circuits. The existing sidewalk connection under Woodman Drive on the north side of the road is sufficient for future needs and no improvements are included.	Construction = \$1,000,000
Museum Entrance A reconstructed signal is included at the Air Force Museum entrance.	Construction = \$180,000
TOTAL SPRINGFIELD STREET, WOODMAN EAST TO CORP LINE IMPROVEMENTS	\$2,555,000



SPRINGFIELD STREET WOODMAN TO EAST CORP - REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 201

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0
202	CURB REMOVED	11400 FT	\$	4.00	\$	45,600.0
202	CATCH BASIN OR INLET REMOVED	4 EA	\$	350.00	\$	1,400.0
253	PAVEMENT REPAIR, FULL DEPTH	2000 SY	\$	50.00	\$	100,000.0
254	PAVEMENT PLANING, ASPHALT CONCRETE	40000 SY	\$	2.00	\$	80,000.0
407	TACK COAT	6000 GAL	\$	2.00	\$	12,000.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	2500 CY	\$	125.00	\$	312,500.0
603	15" CONDUIT, TYPE B	400 FT	\$	50.00	\$	20,000.0
604	CATCH BASIN REPLACED	38 EA	\$	2,500.00	\$	95,000.0
609	CURB	11400 FT	\$	15.00	\$	171,000.0
609	6" CONCRETE TRAFFIC ISLAND REPLACED	100 SY	\$	50.00	\$	5,000.0
644	PAVEMENT MARKINGS	1 LS	\$	7,500.00	\$	7,500.0
Part of the		12.65 (14年) 第二年	200		MAN N	
			MINICAL	Subtotal	\$	855,000.0
100			2012	15.000.00		
614	MAINTAINING TRAFFIC	1 LS	\$		\$	15,000.0
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00		9,600.0
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	3,500.00		3,500.0
624	MOBILIZATION	1 LS	\$	40,000.00	D COROLA	40,000.0
		是是是於於於國際	SERVI	Subtotal	\$	924,000.0
NU ELECTRICAL PROPERTY.		erestana seletar an	*155.00	Subtotal	Ψ 2014	924,000.0
		muranesta ana	PERSON	Dials (250/)	@125-56 Ch	324,000.0
		Des	ign	Risk (35%) Subtotal	\$	1,248,000.0
naresee A		S1140FF() 700276	28534	Gubiolal	A W	1,240,000.0
特别的		ENGIN	CEP	ING (10%)	\$	125,000.0
		ENGIN	LLI	Total		1,373,000.0
	and alternative and alternativ	core. distribution		IVIAI	φ.	1,010,000.0

· GONZ SUMPER TO VERYPY SCORE OF WARK.



SPRINGFIELD STREET WOODMAN EAST TO CORP LIGHTING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

Ī	TOTAL COST		UNIT COST	1	QUANTITY	DESCRIPTION	ITEM
5	-5,000.0 0	\$	5,000.00	\$	1 LS	CLEARING AND GRUBBING	201
)	-360,000.00	\$	4,000.00	\$	18 7-00-EA	LIGHT POLES (1)	625
)	170,000.00	\$	25.00	\$	6800 FT	WIRING	625
)	80,000.00	\$	20,000.00	\$	4 EA	SINGLE CIRCUIT	625
100							
1	-615,000.0 0	\$	Subtotal			77	AND SERVICE
1				製料	14 1 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	to a selection of the contract	1455
1	20,000. 00	\$	20,000.00	\$	1 LS	MAINTAINING TRAFFIC	614
	- 0,000.0 0	\$	1,600.00	\$	6 MN	FIELD OFFICE, TYPE B	619
	4,500.0 0	\$	4,500.00	\$	1 LS	CONSTRUCTION LAYOUT STAKES	623
	-20,000.00	\$	20,000.00	\$	1 LS	MOBILIZATION	624
å	5533002E3	弱		黎 德		A STREET OF THE STREET OF THE STREET	1,4000
	-670,000.0 0	\$	Subtotal	rinto:		300.W15.0000777.3.0	NAME OF STREET
4			Sales and the	100	10 miles (100 parts)		美国的
1	235,000:00	\$	Risk (35%)	ign	Des		
4	9 05,000.00	\$	Subtotal	10000			A TEAPANTO
śΪ	(1) 建物质 (1)	5					
ч	91,000:00	\$	RING (10%)	EER	ENGINE		
1	996,000.00		Total				

Notes:

18 DECORATIVE POLISS TO REPLACE EXISTING MULT WOOD POLISS



SPRINGFIELD ST WOODMAN WEST NEW SIGNAL AT MUSEUM CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

_	TOTAL COST	1	5000		QUANTITY	DESCRIPTION	ITEM
_	-6,000.00	\$	5,000,00	\$	1 LS	CLEARING AND GRUBBING	201
Û	1,500.00	\$	1,500.00	\$	1 LS	PAVEMENT MARKINGS	644
0	100,000.00	\$	100,000.00	\$	1 EA	TRAFFIC SIGNAL	632
崖				開發	ASSESSMENT OF THE STATE OF		3/05/81
b	4 07,00 0.00	\$	Subtotal			A 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	SEA CONTRACTOR
0	-5 ,000.0 0	\$	5,000.00	\$	1 LS	MAINTAINING TRAFFIC	614
	4,800.00	\$	1,600.00	\$	3 MN	FIELD OFFICE, TYPE B	619
	1,000.00	\$	1,000.00	\$	1 LS	CONSTRUCTION LAYOUT STAKES	623
0	-4,000.0 0	\$	4,000.00	\$	1 LS	MOBILIZATION	624
縣	Sales Sales	建	经营销的	36			10000
0	422,000.00	\$	Subtotal				200000000000000000000000000000000000000
滋	CAN SERVICE	(2) S	100000	and the			
	49,000.00	\$	Risk (35%)	sign	Des		Continuos de la continuo de la conti
0	165,000.00	\$	Subtotal	0.750	D-SWI-SHAWARA AND AND AND AND AND AND AND AND AND AN		
選				23			
	17,000.00	\$	RING (10%)	EER	ENGIN		CHEMINA S
	182,000.00		Total				

SPAULDING

4 GENERAL ROAD CONDITION IMPROVENT LY (LIMIT SIDIZWACK TO EAST SIDE.) MONE FORWARD, NO CHANGE STAND - ALONE PROTECT 4 ISSURE I OR STP STRIZET LIGHTING LA REDUCES LIGHTING LOCATIONS 4 APROACH TO LINDISW H SUHOOL ENTERANCE 4 LEBING INTERSISETION 4 STANG - ALONE PROTECT; LOW PRIORITY 3.) LINDEN RADII IMPROVEMENT 4 STAND- ALONE PROTECT; LOW PRIORITY 40 WHEN RV USTE PLAND OWNERSHIP CHAWKEE. UNIFORM RIGHT-OF-WAY LO SIBLIETTE AS A PROSPECT



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 1 AUGUST 2014

SPAULDING ROAD

Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 1. These corridors include Spaulding Road, Springfield Street east of Woodman Drive, Springfield Street west of Woodman Drive, Airway Road west of Woodman Drive, Needmore Road between SR 201 and SR 202, and Schwinn Drive. A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

TASK	ESTIMATED COST
General Road Condition improvement This includes a general rehab including mill and fill; estimated quantity of full depth pavement repair and minor drainage rehab and additions. The overlay includes the throat of Leising Drive. We have also included the addition of sidewalk and curb for the length of the project.	Construction = \$500,000
Street Lighting This includes continuous ODOT type light poles, underground wiring and new circuits.	Construction = \$400,000
Radil Improvement and Increased Stacking at Linden Avenue This includes both improving the turning radii and adding storage for turning vehicles.	Construction = \$165,000 Acquisition = \$50,000
Uniform Right of Way Most of the street is a 60 foot wide right of way. It is unbalanced; 20 foot and 40 foot per half. There is a section at the south end near Leising that is 55 foot wide. In order to get a consistent 60 foot wide r/w, property is needed from 2 parcels.	Acquisition = \$50,000
TOTAL SPAULDING ROAD IMPROVEMENTS	\$1,165,000



SPAULDING ROAD REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

ITEM	DESCRIPTION	QUANTITY	T	UNIT COST	Т	TOTAL COST	1
201	CLEARING AND GRUBBING	1 LS	\$		\$	5,000.00	1
202	CURB REMOVED	50 FT	\$	4.00	\$	200.00	-
202	CATCH BASIN OR INLET REMOVED	2 EA	\$	350.00	\$	700.00	
253	PAVEMENT REPAIR, FULL DEPTH	1200 SY	\$	50.00	\$	60,000.00	
254	PAVEMENT PLANING, ASPHALT CONCRETE	7000 SY	\$	2.50	\$	17,500.00	1
407	TACK COAT	500 GAL	\$	3.00	\$	1,500.00	1
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	400 CY	\$	175.00	\$	70,000.00	1
603	15" CONDUIT, TYPE B	900 FT	\$	50.00	\$	45,000.00	1
604	CATCH BASIN, NO. 3	6 EA	\$	2,500.00	\$	15,000.00	1
604	MANHOLE, NO. 3	3 EA	\$	3,000.00	\$	9,000.00	i
608	4" CONCRETE WALK (4) 4000	-8000 SF	\$	The second second second	\$	40,000.00	20,000
608	CURB RAMPS	4 EA	\$	450.00	\$	1,800.00	
609	CURB	2000 FT	\$	15.00	\$	30,000.00	l
644	PAVEMENT MARKINGS	1 LS	\$	3,000.00	\$	3,000.00	
THE STATE OF			1	1.00		The same of the same	
CONTRACTOR			-	Subtotal	\$	299,000.00	279,000
CAA	MAINTAIN UNIO TRAFFIO	學的情報發展				公安的研究中	
614	MAINTAINING TRAFFIC	1 LS	\$		\$	10,000.00	
619	FIELD OFFICE, TYPE B	6 MN	\$		\$	9,600.00	
623 624	CONSTRUCTION LAYOUT STAKES	1 LS	\$		\$	2,000.00	
024	MOBILIZATION	1 LS	\$	10,000.00	\$	10,000.00	
				Service Control		大學的學術學	41
SE SESSESSES		D-P-F-GC N/Q-R-F200 YOU THEE S	2015/000	Subtotal	\$	331,000.00	310,600
ENTERNA NOTE		250 DE 2008 HE 1935		402013591935		金河 经联系股票	40 210
		Desi	gn F	, , ,	\$	416,000.00	108, 710
2505050000		va-loud energy estudiate	PENCH	Subtotal	\$	447,000.00	419, 310
me takabasa mela		CNOINE	8528	NO (400()	(B)(4)	45.000 00	41,93/
		ENGINE	EKI	NG (10%)	*		100 St. 100 St
C 100000	polytopy of Alberta Constitution of Constitution (Alberta Constitution)	SKILD ZUNG HINSUNG	333	Total	S Server	492,000:00	461, 241
net to exceptions		and the second seconds	图		9. S. C.	VIII SALES	_

Notes:

1 Right of way is estimated separately

2 Utility relocation not included

3 Sidewalk, curb and storm sewer added entire street

(4) LIMIT SIDEWALK TO FAST SIDES UNLY



SPAULDING ROAD STREET LIGHTING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

	TOTAL COST	T	JNIT COST	U	QUANTITY	DESCRIPTION	ITEM
	-5,000.00	\$	5,000.00	\$	1 LS	CLEARING AND GRUBBING	201
50,	-125,000:00	\$	5,000.00	\$	10-25 EA	LIGHT POLES *//	The second second
	60,000.00	\$	30.00	\$	2000 FT		625
P	40,000.00	\$	20,000.00	\$	2 EA	WIRING SINGLE CIRCUIT	625
		360	1.000	200		ISINGLE CIRCUIT	625
150	230,000:00	\$	Subtotal			City-High-Passacher (Sept. Dec.)	MESH COL
4			A SAME	9883	经基础的		5000 A 条件
2	-10,000:00	\$	10,000.00	\$	T 1LS	MAINTAINING TRAFFIC	614
	,9,600,00	\$	1,600.00	\$	6 MN	FIELD OFFICE, TYPE B	619
4000	4,500,00	\$	4,500.00	\$	1 LS	CONSTRUCTION LAYOUT STAKES	623
	1 0,000.00	\$	10,000.00	\$	1 LS	MOBILIZATION	624
.01		1993	(S) (Y) (Y)		100	(MODILIE) (17014	024 038555000
134	265,000. 00	\$	Subtotal			NOME SHOULD SHOW THE RESIDENCE OF THE PARTY	STRUCTED BY
0	10% 经基础的		公共 有1000年	經濟	非常为其他生态		AND DES
53,	93,000.00	\$	Risk (35%)	sign	De	02/00/04/00/04 (20/00/00/04/20/04/20/00/00/00/00/00/00/00/00/00/00/00/00/	SESTIMATE OF
103	- 358,000:0 0	\$	Subtotal	100			
7/1	(共產黨)	200	《 特别的条件》	100			A STATE OF THE STA
20,	36,000.00	\$	RING (10%)	EER	ENGIN	AND	LEDEN/VSC/S
228	394,000.00	\$	Total				

Notes: O REDUCE TOTAL PINTUEISS TO ELECT!

4 - APPROACHING LINDRAD

Z - LINBRA/SPAULDING TOTRRESECTIONS

Z - SPAULDING/ EASTMONT PRIVE TOTRRESECTION

Z - SPAULDING/ LEISING FOTFRESECTION

10 - TOTAL FIXTURES



SPAULDING/LINDEN RADIUS IMPROVEMENT AND LEFT TURN STORAGE IMPROVEMENT CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -AUGUST 2014

ITEM	DESCRIPTION	QUANTITY	T	UNIT COST	Т	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0
202	PAVEMENT REMOVED, ASPHALT	200 SY	\$	8.00		1,600.0
202	CATCH BASIN OR INLET REMOVED	2 EA	\$	350.00		700.0
203	EXCAVATION	150 CY	\$	15,00		2,250.0
203	EMBANKMENT	20 CY	\$	12.00		240.0
204	SUBGRADE COMPACTION	300 SY	\$	2.00	\$	600.0
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	300 SY	\$	5.50	\$	1,650.0
254	PAVEMENT PLANING, ASPHALT CONCRETE	550 SY	\$	2.50	\$	1,375.0
301	ASPHALT CONCRETE BASE, PG64-22, 6"	50 CY	\$	125.00	\$	6,250.0
304	AGGREGATE BASE, 10"	80 CY	\$	40.00		3,200.0
407	TACK COAT	50 GAL	\$	3.00		150.0
448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22, 1.5"	15 CY	\$	250.00	\$	3,750.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, 1.5"	40 CY	\$	250,00	\$	10,000.0
603	15" CONDUIT, TYPE B	250 FT	\$	50.00	\$	12,500.0
604	CATCH BASIN	4 EA	\$	2,500.00	\$	10,000.0
604	MANHOLE, NO. 3	2 EA	\$	3,000.00	\$	6,000.0
608	CURB	120 LF	\$	20.00	\$	2,400.0
644	PAVEMENT MARKINGS	1 LS	\$	4,000.00	\$	4,000.0
659	TOPSOIL	20 CY	\$	25.00		500.0
659	SEEDING AND MULCHING	150 SY	\$	2.00		300.0
832	SWPPP	1 L\$	\$	5,000.00		5,000.0
832	EROSION CONTROL	2500 EA	\$		\$	2,500.0
ALWAYS .					SER.	
503700		Nizarenton Naku	500000	Subtotal	\$	80,000.0
614	MAINTAINING TRAFFIC	The second secon	C	10,000.00	d d	10,000.00
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00		9,600.00
623	CONSTRUCTION LAYOUT STAKES		\$	4,500.00		
	MOBILIZATION	1 LS	\$	4,000.00		4,000.00
UK SAN DE				4,000.00	φ (GRAZ	4,000.00
20040000	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	SSELECTED PROPERTY.	31(2)	Subtotal	\$	109,000.00
		5000 State State State	27155	DOMESTIC STATE OF THE PARTY OF	Ψ 30073	100,000.00
	A TOTAL STATE OF THE PROPERTY	Chicago and a service of the service	A PURKET	Risk (35%)	\$	39,000.00
		Des	SIII			148,000.00
\$400 CA		375.7293086959	9590	MAGRICULA STATE	95/90	1-70,000.00
		SEARCH STREET, SAN ASSESSMENT OF THE ACCOUNT.	FR	NG (10%)	**************************************	15,000.00
		HIOHI	(Y			163,000.00
Company of the Company of the Company		The Lates and the Control of the Con		I Otal	Q.	100,000.00

Notes:

- Right of way is estimated separately
 Existing pavement is assumed to be full depth asphalt
 Pavement widening is assumed to be full depth asphalt
- 4 Utility relocation not included

AIRWIDT LA (WOODMAN WISST)

HOUR TORNARY TRUNCT REDURE STREET LIGHTER

STRINGT HAHTING LO REDUCE SCOPE TO 11 LIGHTS & INTERSPECTION, FUCLUOISE WITH ITEM #1



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 1 AUGUST 2014

AIRWAY ROAD, WOODMAN WEST TO CORP LINE

Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping I. These corridors include Spaulding Road, Springfield Street east of Woodman Drive, Springfield Street west of Woodman Drive, Airway Road west of Woodman Drive, Needmore Road between SR 201 and SR 202, and Schwinn Drive. A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

TASK	ESTIMATED COST
General Road Condition Improvement This includes a general rehab including mill and fill, and estimated quantity of full depth pavement repair, some sidewalk replacement and replacement of curb and storm sewer inlets.	Construction=\$1,600,000
Street Lighting This includes continuous ODOT type light poles, underground wiring and new circuits.	Construction=\$550,000
TOTAL AIRWAY ROAD, WOODMAN WEST TO CORP LINE IMPROVEMENTS	\$2,150,000



AIRWWAY WOODMAN WEST REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

ITEM	DESCRIPTION	QUANTITY	-	UNIT COST	_	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
202	WALK REMOVED	6000 FT	\$	4.00	\$	24,000.00
202	CURB REMOVED	2000 FT	\$	4.00	\$	8,000.00
202	CATCH BASIN OR INLET REMOVED	6 EA	\$	350.00	\$	2,100.00
253	PAVEMENT REPAIR, FULL DEPTH	8000 SY	\$	50.00	\$	400,000.00
254	PAVEMENT PLANING, ASPHALT CONCRETE	32000 SY	\$	2.50	\$	80,000.00
407	TACK COAT	5000 GAL	\$	3.00	\$	15,000.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, 2"	2000 CY	\$	175.00	\$	350,000.00
603	15" CONDUIT, TYPE B	300 FT	\$	50.00	\$	15,000.00
604	CATCH BASIN, NO. 3	6 EA	\$	2,500.00	\$	15,000.00
604	MANHOLE, NO. 3	3 EA	\$	3,000.00	\$	9,000.00
608	4" CONCRETE WALK	6000 SF	\$	5.00	\$	30,000.00
608	CURB RAMPS	16 EA	\$	450.00		7,200.00
609	CURB	2000 FT	\$		\$	
644	PAVEMENT MARKINGS	1 LS	\$	6,000.00	\$	6,000.00
STATE OF	0.00	11.00多数数数			200	
				Subtotal	\$	997,000.00
《 政策学生		and the second state	200	I. K. W. L. L. L. K.		42.000.00
614	MAINTAINING TRAFFIC	1 LS	\$	10,000.00		10,000.00
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	\$	9,600.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	7,000.00		7,000.00
624	MOBILIZATION	1 LS	\$	40,000.00	\$	40,000.00
		NICONNECTION OF THE	A SA	Subtotal	5	1,064,000.00
UKAWE SIDE			23.05	Subtotal	e dazije	1,004,000.00
		Day	eian.	Risk (35%)	<u>\$</u>	373 000 00
		D6:	1911	Subtotal	\$	1,437,000.00
Vision and the same of the sam			A	Oubtotal	92250	
		FNGIN	FFR	RING (10%)	\$	144,000.00
		LIVOIN				1,581,000.00
retemperate		GIBONE RESIDENCE	500050	AN SHORES	0.95S	SECTION AND SECTION ASSESSMENT

· HOR CHICH BUSIN REPAIRS AT OVERLOOK IN PARKING. · PERESTRIAN SAFETY TSLAND: LAW IT STAY OR GO?



AIRWAY WOODMAN WEST TO CORP LIGHTING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

1	TOTAL COST		UNIT COST	1	QUANTITY	DESCRIPTION	ITEM
1	-5,000.00	\$	5,000.00	\$	1 LS	CLEARING AND GRUBBING	201
192,0	-200,000.00	\$	4,000.00	\$	19 50 EA	LIGHT POLES	625
		\$	25.00	\$		WIRING	625
1	40,000.00	\$	20,000.00	\$	2 EA	SINGLE CIRCUIT	625
1					Fig. 43 area de		
217,	-350,000.00	\$ -	Subtotal				
,		363		100			國際原於
l	40,000:00	\$	10,000.00	\$	1 LS	MAINTAINING TRAFFIC	614
	-9,600.00	\$	1,600.00	\$	6 MN	FIELD OFFICE, TYPE B	619
3000	3,500.00	\$	3,500.00	\$	1 LS	CONSTRUCTION LAYOUT STAKES	623
	4,000:00	\$	20,000.00	\$	1 LS	MOBILIZATION	624
	$x > y \le a x$		The second	200			
220	.378,000.00	\$	Subtotal				NESCHARACT
	正数型数据合 定	翻的	5日本文学 200				NEW COLUMN
77,0	133,000.00	\$	Risk (35%)	ign	Desi		
297,	-511,000.00	\$	Subtotal	-	of E. Conn. Coloreda polonography	AN SAME NO HEROED PROPERTY AND ADDRESS OF THE PARTY OF TH	SHALL STORES
				解 答			美华女公 里
79,	52,000:00	\$	ERING (10)	NEE	ENGIN		
2-00 "	563,000.00	8	Total				

Notes:

18 POLE ARE FETIMATAQ

Z - BIRWAY BASKSDALE INTERSECTIONS

Z - MERTLAND/ DOOLITLE / AIRWAY FUTERSECTION

2 - AIRWAY/LAPBER INTERSECTION

Z-AIRWAY/ CONN KAWY INTERSECTION

Z-AIRWAY/ CURTIS INTERSECTION

Z-AIRWAY/ HAYDEN/ EVBANKS INTERSECTION

Z-AIRWAY/ MEYER/ BIKE PATH INTERSECTION

4- AIRWAY APPROACHING WOODMAN

NEERMOLIE

GENERAL LOAD CONDITION IMPROVENTS 4 STAND - DECOUR PLOTEST; INCLUDE: 2) STRYSKT LIGHTING LA MODIKY SCOPIZ TO LIGHT INTERACTIONS ONLY INCORPODATION WITH ITEM #/ 3) LAWDMARK CHURCH TURN LIOUTS H LONDITION ON PROPERTY DOWNTOW FROM LAURENT INCORPORATE WITH ITIGHT 4 GARES MISHIANS LY LIMIT LOCATION TO EAST/WAST OF LAWDMARK BAPTIST INCORPORDITE WITH #/ IMPROVE GARY TURNING RADII LO DISCOSTE 4) FMPROVIE LLOYA TURNINCE RAPII
H TWORKDORFTE VITH ITEM #/

7) VAMIBUR RIGHT-OF-WAY



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 1 AUGUST 2014

NEEDMORE ROAD, BETWEEN SR 201 AND SR 202

Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 1. These corridors include Spaulding Road, Springfield Street east of Woodman Drive, Springfield Street west of Woodman Drive, Airway Road west of Woodman Drive, Needmore Road between SR 201 and SR 202, and Schwinn Drive. A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

TASK	ESTIMATED COST
General Road Condition Improvement This includes a general rehab including mill and fill, an estimated quantity of full depth pavement repair replacement and minor drainage rehab including partial ditch grading.	Construction= \$950,000
Street Lighting This includes continuous ODOT type light poles, underground wiring and new circuits.	Construction=\$650,000
Landmark Church Turn Lane This includes widening the street and re-striping to provide a west bound left turn lane into the church. The estimate includes all widening on the north side,	Construction = \$225,000 Property Cost = \$25,000
Grass Medians Limited locations of construction of grass median are included in the areas of the widened transverse striping median. These locations are limited as a result of impacts to left turn access to driveways on both sides of the road. LJB recommends that a safety study be conducted to evaluate the impact of removing left turn access to these properties prior to construction of the grass medians. For this estimate, 2- 100 foot long sections are included.	Construction=\$100,000



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 1 AUGUST 2014

Improve Gary Turning Radil Following a site visit and analysis of the existing turning radii at the Gary intersection, no alignment improvements are recommended at this location. Annual maintenance, including trimming trees in the right of way, is recommended to ensure appropriate site distance.	N/A
Improve Lloyd Turning Radil Improvements are necessary west of the Lloyd intersection to improve sight distance for vehicles exiting Lloyd. Recommended improvements include the acquisition of right of way from two parcels on the inside of the Needmore Road curve to allow the city's annual maintenance to clear brush and trim trees to maintain appropriate sight distances.	Acquisition = \$75,000
Variable Right of Way Much of the eastern half is 80 foot. Need property from 11 parcels to make uniform 80 feet.	Acquisition = \$275,000
TOTAL NEEDMORE ROAD, BETWEEN SR 201 AND SR 202 IMPROVEMENTS	\$2,300,000



NEEDMORE ROAD BETWEEN SR 201 AND SR 202 REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0
202	PAVEMENT REPAIRS FULL DEPTH	3500 SY	1\$	50.00	\$	175,000.0
202	CATCH BASIN OR INLET REMOVED	4 EA	\$	350.00	\$	1,400.0
203	EXCAVATION, DITCH GRADING	1000 CY	\$	15.00	\$	15,000.0
203	EMBANKMENT.	CY	\$	12.00	\$	
254	PAVEMENT PLANING, ASPHALT CONCRETE	40000 SY	\$	2.00	\$	80,000.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	2000 CY	\$	150.00	\$	300,000.0
604	CATCH BASIN	4 EA	\$	2,500.00	\$	10,000.0
644	PAVEMENT MARKINGS	1 LS	\$	4,500.00	\$	4,500.0
659	SEEDING AND MULCHING	3500 SY	\$	2.00	\$	7,000.0
832	SWPPP	1 LS	\$	2,500.00	\$	2,500.0
832	EROSION CONTROL	1500 EA	\$	1.00	\$	1,500.0
		oelies Needs		Subtotal	\$	602,000.0
614	MAINTAINING TRAFFIC	1 LS	\$	10,000.00	\$	10,000.0
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	_	9,600.0
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$		\$	2,500.0
624	MOBILIZATION	1 LS	\$	20,000.00	\$	20,000.0
		English (Salah Bel)	1888			100
Sa 10140 - 11177				Subtotal	\$	645,000.0
		建设设计		2075 \$1500		能思熱性
		De	sign	Risk (35%)	\$	226,000.0
				Subtotal	\$	871,000.0
阿斯斯斯		to supplied the	1000	Section 2	類繁	
		ENGIN	EER	ING (10%)	\$	88,000.0
				Total	\$	959,000.0

- · TWELLOFF LURB WORK ON SOUTH-SIETE, BETWEEN LLOTA -
- · LIMITAD AFROW/DRIVE REFLICEMENT, NORTH SIATE, FROM
 GARY TO NORTHERN GREET



NEEDMORE ROAD STREET LIGHTING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

	TOTAL COST	7	JNIT COST	ι	QUANTITY	DESCRIPTION	ITEM
	5,000.0 0	\$	5,000.00	\$	1 LS	-111	201
	-260,000:00	\$	4,000.00	\$	12 -65 EA		625
	-112,600:00	\$	25.00	\$	-4500-FT	2,000	
	40,000.00	\$	20,000.00	\$	2 EA	SW BANANCE Comment C	625
680		183	STATE OF THE PARTY OF	632	SERVICE AND THE SERVICE	5 SINGLE CINCOIT	625
	418,000.00	\$	Subtotal		Man or an extended the		国际企业
Sec.	《温息報》		112 12 12 12 12 12 12 12 12 12 12 12 12	測能	N. Caralle		spanistics
	10;000:00	\$	10,000.00	\$	1 LS	4 MAINTAINING TRAFFIC	614
Ц	*9,600:00	\$	1,600.00	\$	6 MN		619
	200.00	\$	200.00	\$	1 LS	THE PARTY OF THE P	623
	· 4,000.00	\$	4,000.00	\$	1 LS		624
3						A MODILIZATION	MARINE N
4	-4 42,000.0 0	\$	Subtotal		7. May 2000 000 000 000 000 000 000 000 000 0	NGO FOOD 24 OF SCHOOL SCHOOL STREET	38999306/A
8			(四) (1) (1) (1)	1			N. 12 S.
	155,000.00	\$	Risk (35%)	sign	Des		LEBSH LONG S
Ц	597,000:00	\$	Subtotal				
SE .	the sale for		(計劃) 解源的				STATE OF THE STATE
	-60,000. 00	\$	RING(10%)	NEE	ENGIN	9W457754097477047747474747474747474747474747474	Approximately (1)
ч	657,000.00	\$	Total				

12 LIGHTS WILL BE INCLUDED AT!

5 - SRZOZ/NEGOMORIZ INTERSECTION AND APPROPRIE FROM NATIONAL

Z - NBROMURE/ NORTHERN (NEST) FUTERCECTION

2. DEFOMORE/LLOSA INTERSECTION

1- NEEDMONTE/GARY INTERSPECTION
2- NEEDMONTE/NORTHEAN (BAST) INTERSECTION
12 TOTAL



NEEDMORE RD WIDEN FOR LT AT LANDMARK CHURCH CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -AUGUST 2014

ITEM	DESCRIPTION	QUANTITY	1	UNIT COST	1	TOTAL COST	7
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$		7
202	PAVEMENT REMOVED	30 SY	\$	15.00		450.00	
203	EXCAVATION	110 CY	\$	15.00		1,650.00	
203	EMBANKMENT	50 CY	\$	12.00	\$	600.00	
204	SUBGRADE COMPACTION	225 SY	\$	2.00	\$	450.00	
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	225 SY	\$	5,50	\$	1,237.50	
254	PAVEMENT PLANING, ASPHALT CONCRETE	3000 SY	\$	2.50	\$	7,500.00	1
301	ASPHALT CONCRETE BASE, PG64-22, 6"	40 CY	\$	125.00	\$	5,000.00	1
304	AGGREGATE BASE, 10"	65 CY	\$	40.00	\$	2,600.00	1
407	TACK COAT	450 GAL	\$	3.00	\$	1,350.00	1
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	250 CY	\$	175.00	\$	43,750.00	
604	MANHOLE ADJUSTED TO GRADE	2 EA	\$	4,500.00	\$	9,000.00	1
605	6" BASE PIPE UNDERDRAIN	500 FT	\$	8.00	\$	4,000.00	1
PECIAL	ADJUST NORTHERN CIRCLE APPROAC	1 LS	\$	25,000.00		25,000.00	
644	PAVEMENT MARKINGS	1 LS	\$	2,500.00	\$	2-500-00	1
659	TOPSOIL	CY	\$	25.00		2	
	SEEDING AND MULCHING	600 SY	\$	2.00		_1,200.00	
832	SWPPP	1 LS	\$	5,000.00		-6,000.00	
832	EROSION CONTROL	2500 EA	\$	1.00	S	-2,500.00	
(0.12.17)		1000000		建筑	1000	((C) (1 (A) (A) (A)	
			-	Subtotal	\$	119,000:00	77,
		2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	983	10000000	100	ACCEPTANCE OF	
	MAINTAINING TRAFFIC	1 LS	\$	10,000.00	\$	-10,000.0 0	
	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	\$	-9,600.00	
	CONSTRUCTION LAYOUT STAKES	1 LS	\$	3,500.00	\$	-3,500:00	3,
624	MOBILIZATION	1 LS	\$	4,000.00		-4,000.00	1,513.5
44 (10.0)		1980	温暖				
A-M FORT IN A				Subtotal	\$	447,000.00	80
100		e south area	開發	情感的概念的	200	32000	
		Desi	ign l	Risk (35%)	\$	52;000.00	28,
N INCOME TO THE				Subtotal	\$	199,000.00	108,
PROPERTY.	发展的种类的数据的数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数				151	从中国的特殊	10,
		ENGINE	ED	ING (10%)	\$	-20,000,00	101
		ENGINE	LIZ	1140 (1070)	Ψ	~ ~0;000,00	



NEEDMORE ROAD BETWEEN SR 201 AND SR 202 GRASS MEDIANS (2- 100' SECTIONS) CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 2014

	OTAL COST	TO	NIT COST	U	QUANTITY	DESCRIPTION	ITEM
1	6,000.00	\$	5,000.00	\$	1 LS	CLEARING AND GRUBBING	201
1	47,500.00	\$	50.00	\$	350 SY	PAVEMENT REMOVED FULL DEPTH	202
	3,750.00	\$	25.00	\$	150 CY	EMBANKMENT (BORROW)	203
	- 3,500.00	\$	350.00	\$	10 CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, PATCHING	448
1	12,500.00	\$	25.00	\$	500 LF	CURB	609
	~ 1,500:0 0	\$	1,500.00	\$	1 LS	PAVEMENT MARKINGS	644
	2,700.00	\$	45.00	\$	60 CY	TOP SOIL	650
	1,750.00	\$	5.00	\$	350 SY	SEEDING AND MULCHING	659
	_2,500.00	\$.	2,500.00	\$	1 LS	SWPPP	832
	1,500.00	\$	1.00	\$	1500 EA	EROSION CONTROL	832
						1500:	
20,	53,000:00	\$ \$	COLUMN ST			(1500)	
20,	_53,000.00 _5,000.00	\$ \$	5,000.00	\$	1 LS	MAINTAINING TRAFFIC	614
zo,	-5,000.00 -5,000.00 -4,600.00	\$ \$ \$	5,000.00 1,600.00	\$	1 MN	MAINTAINING TRAFFIC FIELD OFFICE, TYPE B	614
20,	53,000.00 -5,000.00 -4,600.00 -2,500.00	\$ \$ \$	5,000.00 1,600.00 2,500.00	\$	1 MN 1 LS		
20,	-5,000.00 -5,000.00 -4,600.00	\$ \$ \$	5,000.00 1,600.00 2,500.00	\$	1 MN	FIELD OFFICE, TYPE B	614 619
2004 8	-5,000.00 -5,000.00 -1,000.00 -2,500.00 4,000.00	\$ \$ \$	5,000.00 1,600.00 2,500.00	\$	1 MN 1 LS	FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES	614 619 623
	-53,000:00 -5,000:00 -1,000:00 -2,500:00 -67,000:00 24,000:00	\$ \$ \$ \$	5,000.00 1,600.00 2,500.00 4,000.00	\$ \$	1 MN 1 LS 1 LS	FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES	614 619 623
28,9	-53,000:00 -5,000:00 -1,000:00 -2,500:00 -67,000:00 24,000:00	\$ \$ \$ \$ \$	5,000.00 1,600.00 2,500.00 4,000.00 Subtotal Risk (35%) Subtotal	\$ \$ \$ sign F	1 MN 1 LS 1 LS	FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES	614 619 623



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NEEDMORE ROAD BETWEEN SR 201 AND SR 202 LLOYD SIGHT DISTANCE CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE AUGUST 2014

1	TOTAL COST	T	UNIT COST		QUANTITY	DESCRIPTION	ITEM
1	10,000.00	\$	10,000.00	\$	1 LS	CLEARING AND GRUBBING	201
1	18,000.00	\$	1,500.00	\$	12 EA	TREES REMOVED	202
1	5,000.00	\$	5.00	\$	1000 SY	SEEDING AND MULCHING	659
1	3,500.00	\$	3,500.00	\$	1 LS	SWPPP	832
1	4,500.00	\$	1.00	\$	1500 EA	EROSION CONTROL	832
1	4					(500)	20.5
53,000	98,000.00	\$	Subtotal				
	对外的	100		NA.	2000年2月1日 1000年2月1日		2009
	2,500.00	\$	2,500.00	\$	1 LS	MAINTAINING TRAFFIC	614
5000	3,200.00	\$	1,600.00	\$	2 MN	FIELD OFFICE, TYPE B	619
2,500	2,500.00	\$	2,500.00	\$	1 LS	CONSTRUCTION LAYOUT STAKES	623
	2,000.00	\$	2,000.00	\$	1 LS	MOBILIZATION	624
	A STATE OF THE STA				1000		
35,500	49,000.00	\$	Subtotal	Charge I			
- 471	26 Sept. 26	数级	是為外數學數	200	等等的的基础模拟		
12,425	18,000.00	\$	Risk (35%)	ign	Des		
47,925	67,000.00	\$	Subtotal				
4,793		\$	ING (10%)	EER	ENGIN		
52,718	74,000:00	\$	Total				
-1110	17 THE RESERVE TO 1		38.02.00	超别	"在一个大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大		HE SHAPE

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GENERAL ROAD CONDITION IMPROVEMENT 40 STANA- DEONIE PROTECT INCLUDITAD MODIFIED ITAM # 2, ITAM # 3 STRIBBY LIGHTIOG LA REDUCE SCOPE TO INTERSECTIONS + SCHOOL FULLUBIE WITH ITEM #/ RECONFIGURIE ZOI (BRANT) INTERSECTION 4 REDUCTS SCOPE BY ELIMINATING SIGNAC FIRECUARE WITH ITEM #/ RECONFIGURE ZOZ (OTP) INTERSECTION VARIABLE RIGHT-OF - WAT LO BIBLISTES.



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 1 AUGUST 2014

SCHWINN DRIVE

Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 1. These corridors include Spaulding Road, Springfield Street east of Woodman Drive, Springfield Street west of Woodman Drive, Airway Road west of Woodman Drive, Needmore Road between SR 201 and SR 202, and Schwinn Drive. A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

TASK	ESTIMATED COST
General Road Condition Improvement This includes a general rehab including mill and fill, and estimated quantity of full depth pavement repair replacement and minor drainage rehab including partial ditch grading.	Construction= \$450,000
Street Lighting This includes continuous ODOT type light poles, underground wiring and new circuits.	Construction=\$525,000
Reconfigure SR 201 Intersection This includes widening the Scwhinn approach to provide a turn lane. Widening is assumed to be on both sides of Schwinn Drive. An estimated cost of extending a culvert has been included.	Construction = \$150,000 Construction with new signal = \$325,000 Property Cost = \$45,000
Reconfigure SR 202 Intersection This includes widening the Schwinn approach to provide a turn lane. Widening is assumed to be on both sides of Schwinn Drive. The relocation of the north driveway on the property at the northeast corner is included.	Construction = \$125,000 Property Cost = \$60,000



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 1 AUGUST 2014

Variable Right of Way There is one (adjacent to house no. 3810) section for 150 feet that is listed as 59 foot wide but the rest is 50 foot wide according to the tax maps. The 50 foot width shifts across the 59 foot section. Right of way acquisition to address this variation is not recommended at this time.	N/A
TOTAL SCHWINN DRIVE IMPROVEMENTS	\$1,530,000



SCWHINN DRIVE REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -AUGUST 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0
202	CATCH BASIN REMOVED	8 CY	\$	1,000.00	\$	8,000.0
203	EXCAVATION DITCH GRADING	1800 CY	\$	15.00	\$	27,000.0
253	FULL DEPTH PAVEMENT REPAIR	400 SY	\$	50.00	\$	20,000.0
254	PAVEMENT PLANING, ASPHALT CONCRETE	8000 SY	\$	2.50	\$	20,000.0
407	TACK COAT	1200 GAL	\$	3.00	\$	3,600.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	450 CY	\$	175.00	\$	78,750,0
603	15" CONDUIT, TYPE B	1200 FT	\$	50.00	\$	60,000.0
604	CATCH BASIN	12 EA	\$	2,500.00	\$	30,000.0
644	PAVEMENT MARKINGS	1 LS	\$	2,500.00	\$	2,500.0
659	TOPSOIL	40 CY	\$	25,00	\$	1,000.0
659	SEEDING AND MULCHING	7500 SY	\$	2.00	\$	15,000.0
832	SWPPP	1 LS	\$	3,500.00		3,500.0
832	EROSION CONTROL	1500 EA	\$	1.00	\$	1,500.0
		S. 157 (2.157)	100		130	
MZS ti			1883	Subtotal	\$	276,000.0
614	MAINTAINING TRAFFIC	1 LS	\$	7,500.00	\$	7,500.0
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	\$	9,600.0
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	2,000.00	\$	2,000.0
624	MOBILIZATION	1 LS	\$	4,000.00		4,000.0
			878		Si Y	4. 图 文章基层页
				Subtotal	\$	300,000.00
			Sept.	30 S C S C S		2. 加坡医疗化
		Des	ign F	Risk (35%)	\$	105,000.0
				Subtotal		405,000.00
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有用的设计。不太记入					_	THE RESERVE AND ADDRESS OF THE PARTY OF THE
SERGERIAN		ENGINE	EERI	NG (10%)	\$	41,000.0

· RECONFIGURIE BROWTWOOD DELVENTY APROWS



SCWHINN DRIVE STREET LIGHTING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

	TOTAL COST	T	JNIT COST	l	QUANTITY	DESCRIPTION	ITEM
	· 5,000.00 -	\$	5,000.00	\$	1 LS	CLEARING AND CRUBBING	201
)	492,000.00	\$	4,000.00	\$	1/2 48 EA	LIGHT POLES	625
	90,000.00	\$		\$	3600 FT	WIRING	625
j	40,000.00	\$	20,000.00	\$_	2.EA	SINGLE CIRCUIT	625
丝				and the			26.2810
)	-327,000: 00	\$	Subtotal				311X(3300)
ğ	2000年8月1日日本	33.4	SASTERIA	200		50.22	
_	10,000.00	\$		\$	1 LS_	MAINTAINING TRAFFIC	614
	9,600.00	\$		\$	6 MN	FIELD OFFICE, TYPE B	619
	3,500.00	\$		\$	1 LS	CONSTRUCTION LAYOUT STAKES	623
)	10,00 0.00	\$	20,000.00	\$	1 LS	MOBILIZATION	624
đ				以	於其一個的學術		
要	-361,000.00	S	Subtotal	OR STREET			
8	407.000.00	A CONTRACTOR	DI LOSO()	TAKE!			
	127,000.00	\$	Risk (35%)	sign	Des		
1	488,000.00	\$ 15000	Subtotal	P SP	DECEMBER AND MARK		
브	40.000	SER.	20年前的16年2月 141日 (4007)	B358			的關係
	49,000.00	\$	ING (10%)	EEK	ENGIN		
	537,000.0 0	3	Total				

(1) 12 LIGHT'S ARIE ESTIMATED AS NECTOSSALY FOR!

4 - APPROACHING + AT INTERSFECTION OF SCHWINN/202

4 - AT BROWTHOUR EVENENTHAT SCHOOL

4 - APPROACHING + AT INTERSFECTION OF SCHWINN/201



SCWHINN DRIVE SR 201 INTERSECTION CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST	1
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00		5,000.00	7
202	PAVEMENT REMOVED, ASPHALT	75 SY	\$	8.00		-600.00	
203	EXCAVATION	145 CY	\$	15.00		2,175.00	
203	EMBANKMENT	50 CY	\$	15.00	\$	750.00	
204	SUBGRADE COMPACTION	275 SY	\$	2.00	\$	550.00	1
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	275 SY	\$	5.50	\$	1,512.50	1
254	PAVEMENT PLANING, ASPHALT CONCRETE	700 SY	\$	2.50		1,750.00	
301	ASPHALT CONCRETE BASE, PG64-22, 6"	60 CY	\$	175.00	\$	10,500.00	1
304	AGGREGATE BASE, 10"	75 CY	\$	40.00	\$	3,000.00	1
407	TACK COAT	40 GAL	\$	3.00	S	120.00	1
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 1.5"	30 CY	\$	250.00	\$	7,500.00	1
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	25 CY	\$	250.00	\$	6,250.00	
603	CULVERT EXTENSION INCL HEADWALLS	1 LS	\$	25,000.00	\$	25,000.00	
605	6" BASE PIPE UNDERDRAIN	600 FT	\$	10.00	\$	6,000.00	
644	PAVEMENT MARKINGS	1 LS	\$	2,500.00	\$	-2,500.00	
659	SEEDING AND MULCHING	600 SY	\$		\$	-1,200.00	
832	SWPPP	1 LS	\$	3,500.00		-3,500:00	
832	EROSION CONTROL	1500 EA	\$	1,00		1,500.00	
		78 (70 50 60 60 60	18.00		gloon:	7 (-44)	3758
			80004600	Subtotal	\$	80,000.00	15,700
		25-02-015255AN		25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		200	-//-
	MAINTAINING TRAFFIC	1 LS	\$	5,000.00	\$	5,000.00	
	FIELD OFFICE, TYPE B		\$	1,600.00		4,800.00	
623	CONSTRUCTION LAYOUT STAKES		\$	2,500.00		2,500.00	
624	MOBILIZATION		\$	4,000.00		-4,000.0 0	
				CONTRACTOR OF THE PARTY OF THE		200000000000000000000000000000000000000	
ACT THE AUTOU				Subtotal	\$	-07,000:00	68,700
		0.6		1900		SOCIOSION SOCIO	
		Desi	gn f	Risk (35%)	\$	34,000:00	23,870
DAM STATE				Subtotal	\$	131,000.00	92.070
INCOME.				(2) (E) (E) (E) (E) (E) (E) (E) (E) (E) (E		THE RESERVE AND ADDRESS OF THE PARTY OF THE	_
		ENGINE	ER	NG (10%)	\$	44,000.00	9,207
				Total	6	145,000:00	100 273
1988年		33 N. A. S.	(c)()	18 24 34 540		Section 1	7

Notes:

1 Right of way is estimated separately



SCWHINN DRIVE SR 201 INTERSECTION WITH SIGNAL CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0
202	PAVEMENT REMOVED, ASPHALT	75 SY	\$	8.00	\$	600.0
203	EXCAVATION	145 CY	\$	15.00	\$	2,175.0
203	EMBANKMENT	50 CY	\$	12.00	\$	600.0
204	SUBGRADE COMPACTION	275 SY	\$	2.00	\$	550.0
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	275 SY	\$	5.50	\$	1,512.5
254	PAVEMENT PLANING, ASPHALT CONCRETE	700 SY	\$	2.50	\$	1,750.0
301	ASPHALT CONCRETE BASE, PG64-22, 6"	50 CY	\$	150.00	\$	7,500.0
304	AGGREGATE BASE, 10"	75 CY	\$	40.00	\$	3,000.0
407	TACK COAT	40 GAL	\$	3.00	\$	120.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 1.5"	30 CY	\$	250.00	\$	7,500.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	25 CY	\$	250.00	\$	6,250.0
603	CULVERT EXTENSION INCL HEADWALLS	1 LS	\$	15,000.00	\$	15,000.0
605	6" BASE PIPE UNDERDRAIN	600 FT	\$	8.00	\$	4,800.0
632	TRAFFIC SIGNAL	1 LS	\$	125,000.00	\$	125,000.0
644	PAVEMENT MARKINGS	1 LS	\$	2,500.00	\$	2,500.0
659	SEEDING AND MULCHING	600 SY	\$	2.00	\$	1,200.0
832	SWPPP	1 LS	\$	3,500.00	\$	3,500.0
832	EROSION CONTROL	1500 EA	\$	1.00	\$	1,500.0
2002		A STREET, DE		13.00		
DESCRIPTION OF THE PERSON OF T	SA PROPERTY OF STREET STREET, STREET STREET, S			Subtotal	\$	191,000.0
12000,53			機器		器計	
614	MAINTAINING TRAFFIC	1 LS	\$	10,000.00		10,000.0
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00		9,600.0
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	4,500.00	\$	4,500.0
624	MOBILIZATION	1 LS	\$	10,000.00	\$	10,000.0
700				ON ASSESSED.	图料	
WIN HER THE SERVICE			SCO	Subtotal	\$	226,000.0
Sec. 2.				的情况的		
and the state of the		Des	sign	Risk (35%)	\$	80,000.0
				Subtotal	\$	306,000.0
	The second secon	A SALES ASSESSED FOR THE SALES	5141	NO SHOULD BE REAL PROPERTY.	12.5	5-11-3911
92607641		所有可能用的ESSEPPERENT	Mase	NAVENA CONTRACTOR	SOURCE.	And the second sections of the section sections of the section section se
WAREST TO		ENGIN	EE	RING (10%)	\$	31,000.0 337,000.0

Notes:

1 Right of way is estimated separately

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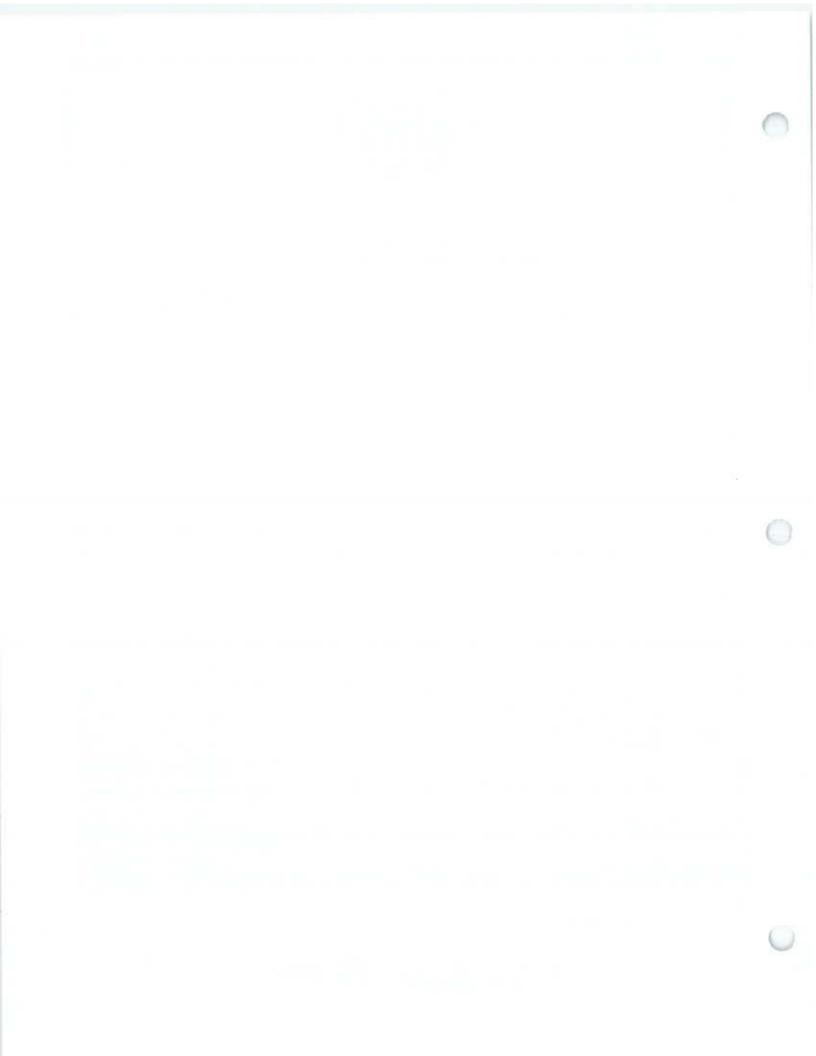
SCWHINN DRIVE SR 202 INTERSECTION CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST	Г	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
202	PAVEMENT REMOVED, ASPHALT	150 SY	\$	8.00	-	1,200.00
203	EXCAVATION	200 CY	\$	15.00		3,000.00
203	EMBANKMENT	50 CY	\$	12.00		600.00
204	SUBGRADE COMPACTION	275 SY	\$	2.00		550.00
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	125 SY	\$	5.50	\$	687.50
254	PAVEMENT PLANING, ASPHALT CONCRETE	700 SY	\$	2.50	\$	1,750.00
301	ASPHALT CONCRETE BASE, PG64-22, 6"	65 CY	\$	175.00		11,375.00
304	AGGREGATE BASE, 10"	75 CY	\$	40.00	\$	3,000.00
407	TACK COAT	40 GAL	\$	3.00	\$	120.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 1.5"	35 CY	\$	250.00	\$	8,750.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	30 CY	\$	250.00	\$	7,500.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3", DRIVEWAYS	10 CY	\$	250.00	\$	2,500.00
603	15" CONDUIT, TYPE B DRIVE PIPES	45 FT	\$	50.00	\$	2,250.00
605	6" BASE PIPE UNDERDRAIN	600 FT	\$	8.00	\$	4,800.00
644	PAVEMENT MARKINGS	1 LS	\$	2,500.00		2,500.00
659	TOPSOIL	45 CY	\$	25.00		1,125.00
659	SEEDING AND MULCHING	900 SY	\$	2.00		1,800.00
832	SWPPP	1 LS	\$	3,500.00		3,500.00
832	EROSION CONTROL	1500 EA	\$	1.00		1,500.00
建 模研約				(2) (1) (1)		0.0000000000
那新港灣		Sanking Alegan	es stories		\$	64,000.00
	MAINTAINING TRAFFIC	1 LS	\$	5,000.00	Ŝ	5,000.00
619	FIELD OFFICE, TYPE B	3 MN	\$	1,600.00		4,800.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	2,500.00		2,500.00
624	MOBILIZATION	1 LS	\$	4,000.00		4,000.00
				SOUTH HAR	然	28-0-200038
and the Book at the				Subtotal	\$	81,000.00
A16.40		W. 18 18 18 18 18 18 18 18 18 18 18 18 18	4,000	100	500	
		Des	ign F		\$	29,000.00
Track Statute 64	OSCALUE CONTRACTOR DE LA CONTRACTOR DE L			Subtotal S	5	110,000.00
學的資料					XX	
		ENGIN	EERI	NG (10%)		11,000.00
ASSESSED AND ADDRESS OF THE PARTY OF THE PAR	ESTANGLISHMAN APRIMENTAL APRIMENTAL AND APRIMENTAL AND APRIMENTAL APPRIMENTAL			Total \$		121,000.00
SECTION S		以北部。如10000000		1975		

Notes:

1 Right of way is estimated separately

L THIS PROJECT DISCESTED





TO:

Riverside City Council

FROM:

Bryan RH Chodkowski,

City Manager

SUBJECT:

Major Thoroughfare Improvement Plan -

Phase III, Group II

DATE:

February 9, 2015

CC:

Emily M. Christian,

Assistant City Manager

Mitch Miller,

Director of Public Services

This memorandum represents the start of the final phase of the Major Thoroughfare Improvement Plan undertaken by staff in 2014. In the first phase of this project, staff and Council reviewed the major roadways of the City and brainstormed about all the improvements that could be included as part of a street's reconstruction. In the second phase of this project, the City Engineer quantified the expense of all the project elements identified in the first phase. In this third phase, staff is providing a recommendation on a final project scope for each street which takes into account cost, scale, and practicality.

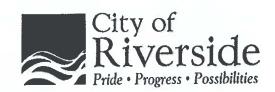
This memorandum provides a brief summary of the project elements addressed in Phase II and their estimated expenses. For your reference, the Phase II information provided by the Engineer is attached to this memorandum. Following each summary is staff's recommendation for a final project scope and estimated project cost based on the modifications generally described below.

These project summaries are as follows:

SPINNING RD. (LINDEN AVE. TO BURKHARDT RD.)

Phase II Elements and Pricing:

	General Road Condition Improvement -	\$1,500,000
	Street Lighting -	\$ 675,000
	Infill Sidewalk (Linden to Eastman) -	\$ 435,000
	Improve Crosswalk at Penn -	\$ 50,000
•	Radii Improvements (at Burkhardt) -	\$ 275,000
	Stormsewer Improvements at US 35 -	\$ 450,000
	TOTAL	\$3,385,000



SPINNING RD. (LINDEN AVE. TO BURKHARDT RD. - CONT'D)

Phase III Staff Project Scope Recommendations:

- General Road Condition Improvements Staff review finds no modifications are necessary to this project scope.
- Street Lighting A reduced scope of lighting only intersections and approaches to major intersections is recommended. This modified lighting scope is recommended for inclusion with General Road Condition Improvements.
- Infill Sidewalk (Linden to Eastman) This work is recommended for inclusion with the General Road Condition Improvements without modifications.
- Improve Crosswalk at Penn Staff suggests this work be included with the General Road Condition Improvements. No changes are recommended in this project's outlined work.
- Radii Improvements (at Burkhardt) In review of the complexity of this work, this item is being recommended as a stand –alone project.
- <u>Stormsewer Improvements at US 35</u> Recognizing this work item will be addressed under the pending Stormwater Master Plan, staff recommends that this project not be pursued under this project's scope of work.

Phase III Cost Estimates Based on Staff Recommendations:

	General Road Condition Improvement -	\$1,500,000
	Street Lighting - Infill Sidewalk (Linden to Eastman) -	\$ 380,200 \$ 366,800
	Improve Crosswalk at Penn - Radii Improvements (at Burkhardt) -	\$ 0 \$ 225,000
•	Stormsewer Improvements at US 35 - TOTAL	\$ 0 \$2,472,000



SPINNING RD. (BURKHARDT RD. TO AIRWAY RD.).

Phase II Elements and Pricing:

•	General Road Condition Improvement -	\$1,000,000
	Traffic Signal at Bayside Dr.	\$ 340,000
•	Street Lighting -	\$ 850,000
	Improve Signal & Traffic Stacking at Airway -	\$ 275,000
	TOTAL	\$2,465,000

Phase III Staff Project Scope Recommendations:

- General Road Condition Improvements No changes in scope recommended.
- Traffic Signal at Bayside Dr. Staff recommends a traffic study at this intersection prior to including this project in the General Road Condition Improvements. As such, for the purposes of this memorandum, staff recommends this project be considered a standalone project
- Street Lighting It is the recommendation of staff, that this element be modified to replace the existing lighting with updated fixtures and be included with the General Road Condition Improvements project.
- Improve Signal & Traffic Stacking at Airway This project should be incorporated as part
 of the General Road Condition Improvements.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvement -	\$1,000,000
Traffic Signal at Bayside Dr	\$ 340,000
Street Lighting -	\$ 299,400
Improve Signal & Traffic Stacking at Airway -	\$ 226,500
TOTAL	\$1,865,900



AIRWAY RD. (WOODMAN DR. EAST TO CITY LIMIT)

Phase II Elements and Pricing:

•	General Road Condition Improvement - Street Lighting at Woodman - Improve Signal & Traffic Stacking at Spinning - Update Striping Plan - Installation of Grass Medians - Airway/Woodman Safety Improvements -	\$1,500,000 \$ 200,000 \$ 275,000 \$ 125,000 \$ 350,000 \$ 500,000
•	Traffic Signal at Airway/ASC Drive -	
	TOTAL	\$3,300,000

Phase III Staff Recommendations:

- General Road Condition Improvements Staff recommends no modifications in scope.
- Street Lighting This project should be included as part of the General Road Condition Improvement project.
- Improve Signal & Traffic Stacking at Spinning This element is recommended for improvement under the scope of the Spinning Rd. (Burkhardt to Airway) project and therefore, staff is recommending that it be removed from consideration under this project.
- <u>Update Striping Plan</u> This item is recommended for inclusion under the General Road Condition Improvement scope.
- <u>Installation of Grass Medians</u> It is recommended by staff that this item be scheduled as part of the General Road Condition Improvement scope.
- Airway/Woodman Safety Improvements In consideration of the significant improvements associated with this project, it is recommend this project be considered as a stand-alone improvement.
- Traffic Signal at Airway/ASC Drive It is recommended that this project be further considered as a stand-alone project tied into future development/improvements at Airway Shopping Center.

Phase III Cost Estimates Based on Staff Recommendations:

	General Road Condition Improvement -	\$1,500,000
٠	Street Lighting at Woodman -	\$ 184,200
	Improve Signal & Traffic Stacking at Spinning -	\$ 0
	Update Striping Plan -	\$ 30,800
	Installation of Grass Medians -	\$ 181,400
	Airway/Woodman Safety Improvements -	\$ 500,000
	Traffic Signal at Airway/ASC Drive -	\$ 350,000
Ö.	TOTAL	\$2,746,400



VALLEY ST. (HARSHMAN RD. WEST TO CITY LIMIT)

Phase II Elements and Pricing:

	General Road Condition Improvements -			\$1,425,000
	Street Lighting -			\$ 850,000
•	Sidewalk (Northside - Broadmead to Hypathia) -			\$ 280,000
•	Uniform Right-of-way -		(4)	\$ 120,000
	Sidewalk (Southside - Broadmead to Harshman) -			\$ 460,000
•	Improvement at McMahan's -	18		\$ 175,000
•	Improve Traffic Signal at Pleasant Valley -			\$ 800,000
	Update Crosswalk at Valley and Pleasant Valley -			\$ 50,000
	TOTAL			\$4,160,000

Phase III Staff Recommendations:

- General Road Condition Improvements No modifications are recommended to the scope of this work as proposed.
- <u>Street Lighting</u> Staff recommends reducing the elements of this project to include lighting only intersections and the approach to Harshman Rd. This amended scope should be included with work occurring under the General Road Condition Improvements.
- Sidewalk (Northside Broadmead to Hypathia) With part of this work planned to occur under a CDBG funded project in 2015-2016; this project's scope should be reduced by half and included with the General Road Condition Improvement project.
- <u>Uniform Right-of-way</u> This project is not recommended for further consideration.
- Sidewalk (Southside Broadmead to Harshman) Part of this work is planned to occur under a CDBG funded project in 2015-2016. Additional sidewalk work between Harshman and Hypathia is planned in 2020 under a Safe Routes to School grant award. Therefore this project's scope should be reduced by two-thirds and included with the General Road Condition Improvement project.
- Improvement at McMahan's These improvements are not necessary as this work will be addressed under a Safe Routes to School grant award for 2020.
- Improve Traffic Signal at Pleasant Valley This element is being coordinated with the CDBG funded sidewalk extension scheduled to occur between 2015 and 2016. Therefore, staff is recommending this item be removed from consideration under this scope.
- Update Crosswalk at Valley and Pleasant Valley This element is being coordinated with the CDBG funded sidewalk extension scheduled to occur between 2015 and 2016. Therefore, staff is recommending this item be removed from consideration under this scope.



VALLEY ST. (HARSHMAN RD. WEST TO CITY LIMIT - CONT'D)

Phase III Cost Estimates Based on Staff Recommendations:

	General Road Condition Improvements -	\$1,	,425,000
	Street Lighting -	\$	428,500
	Sidewalk (Northside – Broadmead to Hypathia) -	\$	176,400
	Uniform Right-of-way -	\$	0
	Sidewalk (Southside – Broadmead to Harshman) -	\$	153,400
	Improvement at McMahan's -	\$	0
	Improve Traffic Signal at Pleasant Valley -	\$	0
•	Update Crosswalk at Valley and Pleasant Valley -	\$	0
	TOTAL	\$2,	183,300

VALLEY ST. (HARSHMAN RD. EAST TO CITY LIMIT)

Phase II Elements and Pricing:

•	Uniform Right-of-way - TOTAL		650,000
	Improvements at McMahan's -	9.75,0	110,000
	Sidewalk (Southside to Butane) -	•	110,000
	Sidewalk (Northside to Country Haven) -	\$	675,000
	New Signal at Stebbins/Spicewood & Improved Vehicle Staking -		375,000
	General Road Condition Improvements -	\$	700,000

Phase III Staff Recommendations:

- General Road Condition Improvements Staff has no additions or deletions to recommend for this project element.
- New Signal at Stebbins/Spicewood & Improved Vehicle Staking Staff recommends amending the project scope to account only for additional vehicle stacking and that such work should be included in the General Road Condition Improvement Project.
- <u>Sidewalk on north side to Country Haven</u> No change is advised for this element of the project and it should be included as part of the General Road Condition Improvement Project
- Sidewalk on south side to Butane It is the recommendation from staff that this item be included without modification in the General Road Condition Improvement Project
- Improvements at McMahan's It is staff's opinion that this construction element be included with the General Road Condition Improvement Project.
- Uniform Right-of-way Staff is recommending that the City not pursue this element.



VALLEY ST. (HARSHMAN RD. EAST TO CITY LIMIT - CONT'D)

Phase III Cost Estimates Based on Staff Recommendations:

•	General Road Condition Improvements -	\$	700,000
•	New Signal at Stebbins/Spicewood & Improved Vehicle Staking -	\$	87,400
	Sidewalk (Northside to Country Haven) -	\$	595,300
•	Sidewalk (Southside to Butane) -	\$	74,500
•	Improvements at McMahan's -	\$	71,300
•	<u>Uniform Right-of-way -</u>	\$	0
	TOTAL	\$1	,528,500

UNION SCHOOLHOUSE RD.

Phase II Elements and Pricing:

•	General Road Condition Improvements	\$	800,000
	Traffic Signal at Forest Ridge Blvd intersection -	\$	600,000
•	Lane Transition at Coury Lane -	\$	0
•	Improve Radii at Hyland -	\$	90,000
	<u>Uniform Right-of-way -</u>	\$	250,000
	TOTAL	\$1	,740,000

Phase III Staff Recommendations:

- General Road Condition Improvements Staff has no additions or deletions to recommend for this project element.
- Traffic Signal at Forest Ridge Blvd intersection The Engineer has recommended the use of a roundabout in lieu of a signal. Furthermore, traffic control was addressed with the City of Dayton circa 1996. Therefore, staff recommends this project as a standalone measure to be coordinated in conjunction with City of Dayton.
- <u>Lane Transition at Coury Lane</u> This work will be incorporated with the General Road Condition Improvement Project.
- Improve Radii at Hyland Staff recommends that this project element not be pursued.
- Uniform Right-of-way It is advised by the Engineer that this element should not be further considered.



Union Schoolhouse Rd. - Cont'D

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvements -	\$	800,000
Traffic Signal at Forest Ridge Blvd intersection -	\$	600,000
Lane Transition at Coury Lane -	\$	0
Improve Radii at Hyland -	\$	0
Uniform Right-of-way -	\$	0
TOTAL	\$1,400,0	

By way of a more generalized, total summary; when project estimates were prepared through the Phase II process to include all aspects of that work which could be included under a major thoroughfare improvement plan for the Group I streets, the cost estimates were calculated as:

 ➢ Spinning Rd. (Linden Ave to Burkhardt Rd): ➢ Spinning Rd. (Burkhardt Rd to Airway Rd): ➢ Airway Rd. (Woodman east to City Limit): ➢ Valley St. (Harshman east to City Limit): ➢ Valley St. (Harshman east to City Limit): 	\$ 3,385,000 \$ 2,465,000 \$ 3,300,000 \$ 4,160,000 \$ 2,620,000
➤ Valley St. (Harshman east to City Limit):	
➤ Union Schoolhouse Rd.	\$ 1,740,000
TOTAL	\$17,670,000

Following the Phase III process performed by staff, the above projects can be separated into one of two categories. The first, *General Thoroughfare Improvements Projects*, represents the scope of work which the City would seek to perform through its long-term plan. These projects would be those the City would actively seek to perform and obtain grant funding to support. *Projects of Opportunity* are those that would be driven through an economic development project, when non-transportation grant dollars might be utilized, or the financial condition of the City allows the project to be undertaken. These two categories now provide project estimates as follows:

General Thoroughfare Improvement Projects:

➤ Spinning Rd. – Phase (Linden to Eastman):	\$ 1,135,900
➤ Spinning Rd. – Phase II (Eastman to Burkhardt):	\$ 940,100
➤ Spinning Rd. – Phase III (Burkhardt to Airway):	\$ 1,525,900
> Airway Rd. (Woodman east to City Limit):	\$ 1,896,400
> Valley St Phase I (West City Limit to Rohrer):	\$ 926,800
➤ Valley St. – Phase II (Rohrer to Harshman):	\$ 1,256,600
Valley St. – Phase III (Harshman east to City Limit):	\$ 1,528,500
> Union Schoolhouse Rd.:	\$ 800,000
TOTAL	\$10,010,200



Projects of Opportunity:

A	Spinning/Burkhardt Radii Improvements:	\$ 225,000
	Spinning/Bayside Traffic Signal:	\$ 340,000
	Airway Woodman Intersection Safety Improvements:	\$ 500,000
	Airway/ASC Drive Traffic Signal:	\$ 350,000
	Union Schoolhouse/Forest Ridge Blvd Roundabout:	\$ 600,000
	TOTAL	\$ 2,015,000

You will note that there is a significant change in project cost estimates from those calculated in Phase II and those provided in this Phase III memorandum. While certain reductions are obvious because a project element was outright deleted from the overall project scope, other saving measures occurred in reduction of scope and/or the reduction of duplicate expenses. The duplicate activities being removed or reduced from the projects include such items as surveying, mobilization, and clearing & grubbing.

As we proceed through Phase III of this project, the Engineer will be preparing more detailed project cost estimates in a format similar to those provided for Phase II. Once all four street groupings have been through the Phase III process; a final document with comprehensive cost estimates, generalized project summaries, and potential timeline will be provided to Council. This final, Major Thoroughfare Improvement Plan document should assist Council in further discussion on how to best begin reconstructing and improving the main streets of the City.

Should you have any questions or concerns regarding the information contained within this memorandum, please do not hesitate to contact me.



SPINNING RO (LINBERN TO BURKHARDI)

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CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 2 SEPTEMBER 2014

Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 2. These corridors include Airway Rd. (Woodman East to Corp), Spinning Rd. (Burkhardt to Airway), Spinning Rd. (Linden to Burkhardt), Union Schoolhouse, Valley St. (Harshman East to Corp), and Valley St. (Harshman West to Corp). A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

SPINNING (LINDEN TO BURKHARDT)

TASK	ESTIMATED COST
General Road Condition improvement This includes a general rehab including mill and fill, and estimated quantity of full depth pavement repair, some sidewalk replacement and the replacement and addition of curb and storm sewer inlets.	Construction Cost- \$1,500,000
Street Lighting This includes continuous ODOT type light poles, underground wiring and new circuits.	Construction Cost- \$675,000
In-fill connecting sidewalk – Linden Ave. to Eastman Ave. This includes adding new sidewalk in this section and some additional catch basins for drainage.	Construction Cost- \$435,000
Upgrade Spinning/Penn intersection with dedicated crosswalk This provides a new painted crosswalk on the southern leg of the intersection.	Construction Cost- \$50,000



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 2 SEPTEMBER 2014

Spinning/Burkhardt intersection radius improvement This includes providing an increased radius on the south east corner. Right of way will be needed from one property owner.	Construction Cost- \$200,000 ROW- \$75,000
New storm sewer at the US 35 overpass This includes adding a major storm sewer north from the overpass to the stream outlet.	Construction Cost- \$450,000
TOTAL SPINNING (LINDEN TO BURKHARDT) IMPROVEMENTS	\$5,850,000



SPINNING LINDEN TO BURKHARDT - REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
202	WALK REMOVED	5000 SF	\$		\$	7,500.00
202	CURB REMOVED	10000 FT	\$	3.00	\$	30,000.00
202	CATCH BASIN OR INLET REMOVED	12 EA	\$	350.00	\$	4,200.00
252	FULL DEPTH PAVEMENT REPAIR	2400 SY	\$	50.00	\$	120,000.00
254	PAVEMENT PLANING, ASPHALT CONCRETE	24000 SY	\$	2.50	\$	60,000.00
407	TACK COAT	3600 GAL	\$	3.00	\$	10,800.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	1500 CY	\$	175.00	\$	262,500.00
603	15" CONDUIT, TYPE B	4000 FT	\$	50.00	\$	200,000.00
604	CATCH BASIN, NO. 3	12 EA	\$	2,500.00	\$	30,000.00
604	MANHOLE, NO. 3	5 EA	\$	3,000.00	\$	15,000.00
608	4" CONCRETE WALK	5000 SF	\$		\$	25,000.00
609	CURB, TYPE 6	12000 FT	\$	Contract of the Contract of th	\$	180,000.00
644	PAVEMENT MARKINGS	1 LS	\$		\$	10,000.00
832	SWPPP	1 LS	\$	3,500.00		3,500.00
832	EROSION CONTROL	1500 EA	\$		\$	1,500.00
S 2011/2/12/20		ancies ve visionillates	a en la	Subtotal	\$	965,000.00
614	MAINTAINING TRAFFIC	1 LS	\$	20,000.00	\$	20,000.00
619	FIELD OFFICE, TYPE B	3 MN	\$		\$	4,800.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$		\$	7,500.00
624	MOBILIZATION	1 LS	\$		\$	20,000.00
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		ENGINE	EFR	ING (10%)	\$	138,000.00
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SPINNING LINDEN TO BURKHARDT LIGHTING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER, 2014

ĺ	TOTAL COST	Ţ	UNIT COST	I	QUANTITY	DESCRIPTION	ITEM	
١	5,000,00	\$_	5,000.00	\$	1 LS	CLEARING AND GRUBBING	201	
940	-256,000.00	\$ -	4,000.00	\$	-64-EA	LIGHT POLES	625	
	120,000.00	\$	25.00	\$	4800 FT	WIRING	625	
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SPINNING LINDEN TO BURKHARDT SIDEWALK INFILL CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

1	TOTAL COST		UNIT COST		QUANTITY	DESCRIPTION	ITEM	
1	5,000.00	\$.	5,000.00	\$	1 LS	CLEARING AND GRUBBING	201	
		\$	1.50	\$	500 SF	WALK REMOVED	202	
		\$	12.00	\$	1000 CY	EMBANKMENT	203	
1	15,000.00	\$	50.00	\$	300 FT	15" CONDUIT, TYPE B	603	
1	15,000.00	\$	2,500.00	\$	6 EA	CATCH BASIN, NO. 3	604	
1	9,000.00	\$	3,000.00	\$	3 EA	MANHOLE, NO. 3	604	
1	175,000.00	\$	5.00	\$	35000 SF	4" CONCRETE WALK	608	
1	2,700.00	\$	450.00	\$	6 EA	CURB RAMPS	608	
1	17,500.00	\$	25.00	\$	700 CY	TOPSOIL	659	
1	10,000.00	\$	2.00	\$	5000 SY	SEEDING AND MULCHING	659	
1	3,500.00	\$	3,500.00	\$	1 LS	SWPPP	832	
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			4,500.00	\$	1 LS	CONSTRUCTION LAYOUT STAKES	323	
	10,000.90	\$	10,000.00	\$	1 LS	MOBILIZATION	324	
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SPINNING LINDEN TO BURKHARDT CROSS WALK AT PENN CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	DESCRIPTION QUANTITY UNIT COST		QUANTITY UNIT COST		UNIT COST		OTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00		
	CURB REMOVED	10 FT	\$	20.00	\$	200.00		
202		50 SF	\$	25.00	\$	1,250.00		
608	4" CONCRETE WALK	1 EA	S	1,000.00	\$	1,000.00		
608	CURB RAMPS	1 LS	\$	5,000.00	\$	5,000.00		
641	PAVEMENT MARKINGS REMOVED	1 LS	\$	7,500.00	\$	7,500.0		
644	PAVEMENT MARKINGS	1 LS	\$	1,500.00	\$	1,500.0		
832	SWPPP		_		\$	800.0		
832	EROSION CONTROL	800 EA	\$	1.00	φ ministra e	000.0		
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		70.200.000		Subtotal	\$	23,000.0		
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614	MAINTAINING TRAFFIC	1 LS	\$	5,000.00	\$	5,000.0		
619	FIELD OFFICE, TYPE B	1 MN	\$	1,600.00	\$	1,600.0		
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	2,500.00	\$	2,500.0		
624	MOBILIZATION	1 LS	\$	2,000.00	\$	2,000.0		
		70.				e de la companya de		
aresulte.	ASSOCIATED CO.			Subtotal	\$_	35,000.0		
WAX577					1	13,000.0		
Design Risk (35%) Subtotal								
-	ENGINEERING (109							
	Total	\$	5,000.0 .53,000.0					



SPINNING LINDEN TO BURKHARDT BURKHARDT INTERSECTION CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$ 5,000.0
202	PAVEMENT REMOVED, ASPHALT	75 SY	\$	15.00	\$ 1,125.0
202	WALK REMOVED	2000 SF	\$	5.00	10,000.0
202	CURB REMOVED	150 FT	\$	10.00	\$ 1,500.0
202	FOUNDATION REMOVED, POLES AND SIGN	3 EA	\$	2,000.00	\$ 6,000.0
202	CATCH BASIN OR INLET REMOVED	1 EA	\$	1,000.00	\$ 1,000.0
203	EXCAVATION	60 CY	\$	20.00	\$ 1,200.0
204	SUBGRADE COMPACTION	100 SY	\$	5.00	\$ 500.0
301	ASPHALT CONCRETE BASE, PG64-22, 6"	20 CY	\$	200.00	\$ 4,000.0
304	AGGREGATE BASE, 10"	35 CY	\$	75.00	\$ 2,625.0
407	TACK COAT	20 GAL	\$	5.00	\$ 100.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	10 CY	\$	250.00	\$ 2,500.0
603	15" CONDUIT	20 FT	\$	100.00	\$ 2,000.0
604	CATCH BASIN	2 EA	\$	3,500.00	\$ 7,000.0
604	MANHOLE, NO. 3	1 EA	\$	5,000.00	\$ 5,000.0
605	6" BASE PIPE UNDERDRAIN	150 FT	\$	8.00	\$ 1,200.0
608	4" CONCRETE WALK	2000 SF	\$	5.00	\$ 10,000.0
608	CURB RAMPS	2 EA	\$	750.00	\$ 1,500.0
609	CURB	150 FT	\$	20.00	\$ 3,000.0
630	SIGNAGE	1 L\$	\$	25,000.00	\$ 2,500.0
632	TRAFFIC SIGNAL POLE RELOCATED	1 EA	\$	50,000.00	\$ 50,000.0
644	PAVEMENT MARKINGS	1 LS	\$	7,500.00	\$ 7,500.0
832	EROSION CONTROL	1500 EA	\$	1.00	\$ 1,500.0
				Subtotal	\$ 127,000.0
614	MAINTAINING TRAFFIC	1 LS	\$	10,000.00	\$ 10,000.0
	FIELD OFFICE, TYPE B	4 MN	\$		\$ 6,400.0
	CONSTRUCTION LAYOUT STAKES	1 LS	\$		\$ 3,500.0
	MOBILIZATION	1 LS	\$	4,000.00	\$ 4,000.0
				Subtotal	\$ 151,000.0
		Des	ign	Risk (35%)	\$ 53,000.0
			_	Subtotal	\$ 204,000.0
	10000	ENGIN	EEF	, ,	\$ 21,000.0
				Total	\$ 225,000.0

IMPROVE RADIUS SOUTHEAST CORNER R/W ESTIMATED SEPERATELY

SPINNING LINDEN TO BURKHARDT BURKHARDT INTERSECTION CITY OF RVERSIDE PRELIMINARY RIGHT OF WAY ESTIMATE - SEPTEMBER 2014

Comments			TEMPORARY RAW & COST TO	CURE NOT CONSIDERED			
Cost to							s
Sub-Total Cost	\$38,721	0\$	9	S	S	S	\$28,721 \$6,970 \$5,808 \$671 \$52,370 \$78,565
Relocation							8 ' '
Cost	23	8	cs	SO	\$0	200	2
Cost: Foo Simple	\$38,721	S	S	8	S	SO	Project Waragement
Labor	\$8,950	\$0	SO	30	SO	\$00	Nosings t
Area: Temporary					100		Sub-Totals Estimated Cost Contingency (50%) TOTAL COST Negotiation (5 %) St.100
	0,175	0.000	0.000	0000	0.000	0,000	Con Detailed Appraisal Review \$2,000
Area of Area: Foo Take (SF) Simple	7630	o		*			
Structure	ON	ON					Detailed Appraisal
TOTAL ACREAGE (ACRES)	1,271	0.562	200				.20
Total	\$216,040	\$348,080					[(sub-total)x0.15/x1.20 [(sub-total)x0.10/x1.50 [(sub-total)x0.90)x0.025 [;sub-total)x0.90)x0.025
Structure	\$113,650	\$258,090		100			dus)] dus); dus); dus); dus);
	\$102,390	\$91,000					Inistrative Costs (if dental transfer Costs (if dental transfer Costs (if areas are in acres. - Labor Cost Includes the following: er ODOT Cost Estimating Procedur For Acquiring Rights of Way)
Land Use Land Value	COMMERCIAL \$102,390	COMMERCIAL					Administrative Costs [(suburt trial Costs (suburt trial Costs suburt trial Costs Suburt trial Costs For Acquiring For Acquiring Rights of Way)
Parcel ID	13901238 0006	13900902 0004					



SPINNING LINDEN TO BURKHARDT DRAINAGE AT US 35 CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY	T	UNIT COST	T	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0
202	PAVEMENT REMOVED, ASPHALT	SY	\$	8.00	<u> </u>	-
202	WALK REMOVED	SF	\$	1.50	\$	-
202	MEDIAN REMOVED	SY	\$	5.00		-
202	CURB REMOVED	FT	\$	3.00		
202	CATCH BASIN OR INLET REMOVED	2 EA	\$	350.00		700.0
203	EXCAVATION	CY	\$	15.00		700.
203	EMBANKMENT	CY	\$	12.00		-
204	SUBGRADE COMPACTION	SY	\$	2.00		-
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	SY	\$	5.50		- 4
254	PAVEMENT PLANING, ASPHALT CONCRETE	SY	\$	2.50		-
301	ASPHALT CONCRETE BASE, PG64-22	CY	\$	125.00	\$	
304	AGGREGATE BASE	CY	\$	40.00	\$	-
407	TACK COAT	GAL.	\$	3.00	\$	
448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2,	E ACTOR I	1			
440	PG64-22	CY	\$	150.00	\$	2
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-	82350			7	
91/2039	22	CY	\$	175.00	\$	-
603	48" CONDUIT, TYPE A	500 FT	\$	500.00	\$	250,000.
604	CATCH BASIN	2 EA	\$		\$	5,000.0
604	MANHOLE	2 EA	\$	4,500.00		9,000.0
659	SEEDING AND MULCHING	1000 SY	\$		\$	2,000.0
832	SWPPP	1 LS	\$	3,500.00		3,500.0
832	EROSION CONTROL	1500 EA	\$	1.00	\$	1,500.0
			(4)(3)	6	3020	CONTRACTOR AND ADDRESS.
	Interview in the second		19 20 10	Subtotal	\$	277,000.0
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		13 Te	iki wasabanya		
614	MAINTAINING TRAFFIC	1 LS	\$	5,000.00	\$	5,000.0
319	FIELD OFFICE, TYPE B	3 MN	\$		\$	4,800.0
323	CONSTRUCTION LAYOUT STAKES	1 LS	\$		\$	3,500.0
324	MOBILIZATION	1 L\$	\$	10,000.00		10,000.0
				0 1 1 1	-	
			_	Subtoţal	\$	301,000.0
		Des	ign	Risk (35%)	\$	106,000.0
					\$	407,000.0
		PHOIN		IMO (400/)	^	44.000.0
		ENGIN	=EK	,	\$	41,000.0
				Total	\$	448,000.0



Cincinnati: 513-891-2010

SAWWING RD.
(AIRWAY TO BURKHARDT)

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	& CONTINCARAT ON MULT TRANSFERENCE	
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(R) UPDATE	- TRAFFIC SIGNAL AT SPINNING/AROUNT	19
1 4 -	- Wille With ctoon #1	
	NUMBER WITH PIPE	
		\vdash

Indianapolis: 317-762-9300



Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 2. These corridors include Airway Rd.(Woodman East to Corp), Spinning Rd.(Burkhardt to Airway), Spinning Rd.(Linden to Burkhardt), Union Schoolhouse, Valley St.(Harshman East to Corp), and Valley St. (Harshman West to Corp). A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

SPINNING (BURKHARDT TO AIRWAY)

TASK	ESTIMATED COST
General Road Condition Improvement This includes a general rehab including mill and fill, and estimated quantity of full depth pavement repair, some sidewalk replacement and total replacement of curb and some storm sewer inlets.	Construction Cost- \$1,000,000
Bayside Traffic Signal This includes installation of a new mast arm signal at the Bayside/Spinning intersection.	Construction Cost- \$340,000
Street Lighting This includes continuous ODOT type light poles, underground wiring and new circuits.	Construction Cost- \$850,000
Spinning and Airway Intersection This includes restriping to increase the left turn storage and installing a new signal.	Construction Cost- \$275,000



TOTAL SPINNING (BURKHARDT TO AIRWAY) IMPROVEMENTS

\$2,465,000



SPINNING BURKHARDT TO AIRWAY - REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

202 202 202 252 254 407 448	CLEARING AND GRUBBING WALK REMOVED CURB REMOVED CATCH BASIN OR INLET REMOVED FULL DEPTH PAVEMENT REPAIR PAVEMENT PLANING, ASPHALT CONCRETE TACK COAT ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-	1 LS 2500 SF 9600 FT 14 EA 2200 SY 22000 SY	\$ \$ \$ \$	5,000.00 1.50 3.00 350.00 50.00	\$ \$	5,000.0 3,750.0 28,800.0
202 202 252 254 407 448	CURB REMOVED CATCH BASIN OR INLET REMOVED FULL DEPTH PAVEMENT REPAIR PAVEMENT PLANING, ASPHALT CONCRETE TACK COAT	9600 FT 14 EA 2200 SY 22000 SY	\$	3.00 350.00	\$ \$	28,800.0
202 252 254 407 448	CATCH BASIN OR INLET REMOVED FULL DEPTH PAVEMENT REPAIR PAVEMENT PLANING, ASPHALT CONCRETE TACK COAT	14 EA 2200 SY 22000 SY	\$	350.00	\$	
252 254 407 448	FULL DEPTH PAVEMENT REPAIR PAVEMENT PLANING, ASPHALT CONCRETE TACK COAT	2200 SY 22000 SY	\$	350.00	\$	
254 407 448	PAVEMENT PLANING, ASPHALT CONCRETE TACK COAT	22000 SY	\$	50.00		4,900.0
407	TACK COAT		-	VV.VV	\$	110,000.0
448			\$	2.50	\$	55,000.0
440	ASPHALT CONCRETE SURFACE COURSE TYPE 1 DC64	3300 GAL	\$	3.00	\$	9,900.0
-	22, 2"	1250 CY	\$	175.00	\$	218,750.0
603	15" CONDUIT, TYPE B	200 FT	\$	50.00	\$	10,000.0
604	CATCH BASIN, NO. 3	14 EA	\$	2,500.00		35,000.0
608	4"CONCRETE WALK	2500 SF	\$		\$	12,500.0
608	CURB RAMPS	4 EA	\$	450.00	\$	1,800.0
609	CURB, TYPE 6	9600 FT	\$	15.00		144,000.0
	PAVEMENT MARKINGS	1 LS	\$	7,500.00	\$	7,500.0
832	SWPPP	1 LS	\$	3,500.00		3,500.0
832 E	EROSION CONTROL	1500 EA	\$		\$	1,500.0
ALC:						04000
				Subtotal	\$	652,000.0
		Y.	100	explain Blook Et	100	
	MAINTAINING TRAFFIC	1 LS	\$	20,000.00	\$	20,000.0
	FIELD OFFICE, TYPE B	3 MN	\$	1,600.00	\$	4,800.0
	CONSTRUCTION LAYOUT STAKES	1 LS	\$	5,000.00		5,000.0
624 N	MOBILIZATION	1 LS	\$	20,000.00	\$	20,000.0
					(0) (0)	
97 ete (11.00				Subtotal	\$	702,000.0
				的特別以的基本		
		Des	ign	Risk (35%)	\$	
NEED NOODS			rice and	Subtotal	\$	948,000.0
(Captions)	and the state of t	ENCIN		ING (10%)	\$	95,000.0
		ENGIN	-="	Total		95,000.0 0,043,000.0



SPINNING BURKHARDT TO AIRWAY BAYSIDE SIGNAL CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY	Г	UNIT COST	1	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
632	TRAFFIC SIGNAL INSTALLATION	1 EA	\$	200,000.00	\$	200,000.00
644	PAVEMENT MARKINGS	1 LS	\$	2,500.00	\$	2,500.00
832	SWPPP	1 LS	\$	1,500.00	\$	1,500.00
832	EROSION CONTROL	800 EA	\$	1.00		800,00
STREET, BOARS	TEXT OF THE PROPERTY OF THE PR		\$13.12E			1000
The same of			and the last	Subtotal	\$	210,000.00
10000 Marie	Scheduler School State of the Control of the Contro	How will be the first		100000		
614	MAINTAINING TRAFFIC	1 LS	\$	7,500.00	\$	7,500.00
619	FIELD OFFICE, TYPE B	3 MN	\$	1,600.00	\$	4,800.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	2,500.00	\$	2,500.00
624	MOBILIZATION	1 LS	\$	4,000.00	\$	4,000.00
S STORES					THE ST	
ZALDHI MIRKA				Subtotal	\$	229,000.00
		De	sigr	n Risk (35%)	\$	81,000.00
				Subtotal	\$	310,000.00
		and the second	X8-50			ole have been
		ENGIN	EE	RING (10%)	\$	31,000.00
				Total	\$	341,000.00
NO. TO			113	32000		CAST CLASS AND

NEW MAST ARM SIGNAL



SPINNING BURKHARDT TO AIRWA LIGHTING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER, 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	-3-	5,000:00
625	LIGHT POLES	38 -80 EA	\$	4,000.00	\$	920,000.00
625	WIRING	-6000 FT	\$	25,00	\$	150,000.00
625	SINGLE CIRCUIT	/ 3.EA	\$	20,000.00	\$-	60,000.00
			53			
				Subtotal	\$	~ 535,000. 00
			1			(4) (4)
614	MAINTAINING TRAFFIC	1 LS	\$	10,000.00	\$	10,000.00
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	\$	9,600.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	4,500.00	\$	 1,500.0 0
624	MOBILIZATION	1 LS	\$	10,000.00	\$	10,000.00
No. of the		THE RESERVE OF	1	102 (100) (227)	134	100000000000000000000000000000000000000
ALCOHOLOGICA CONTRACTOR			STREET, STREET	Subtotal	-\$-	570,000:00
		《 1987年 1988年 1988年 1988年 1988年 1	装裝			Harry Control
		Des	sign	Risk (35%)	-	200,000.00 770,000,00
N 2552200			20000	Subtotal	1000000	770,000.0 0
67126	(18. 我的复数网络美女) 11. [15.27] 一次为的共和国发展的			EDINO (40)		77.000.00
		ENG	INF	ERING (10)	5 -	77,000,00
				Total	œ.	847,000.00.



SPINNING BURKHARDT TO AIRWAY SPINNING INTERSECTION CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

\$ 150,000.00 \$ 150,000.00 \$ 5,000.00 \$ 5,000.00 \$ 5,000.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,00 \$ 800.00 \$ 1,00 \$ 1,600.00 \$ 1,600.00 \$ 1,600.00 \$ 1,600.00 \$ 2,500.00 \$ 2,500.00 \$ 2,500.00 \$ 1,00	24-4																																					-	
\$ 150,000.00 \$ 150,000.00 \$ 5,000.00 \$ 5,000.00 \$ 1,500.00 \$ 1,500.00 \$ 1,00 \$ 800.00 \$ 7,500.00 \$ 7,500.00 \$ 1,600.00 \$ 4,800.00 \$ 2,500.00 \$ 2,500.00 \$ 4,000.00 \$ 4,900.00 \$ 2,500.00 \$ 2,500.00 \$ 3,000.00 \$ 4,000.00	ITEM DESCRIPTION																DE	SCF	RIPT	101	N							QUAI	4TITY			JNIT CO	ST		TO		_	_	
\$ 5,000.00 \$ 5,000.00 \$ 1,500.00 \$ 1,500.00 \$ 1,600.00 \$ 1,600.00 \$ 1,600.00 \$ 2,500.00 \$ 2,500.00 \$ 4,000.00 \$ 1,000.00	201 CLEARING AND GRUBBING	GRUBI	G AND	ING A	NG	NG	NG	٧G	IG	37	Al	N	D	G	RI	JΒ	BIN	٧G											1 LS	3	\$	5,00	0.00	-\$-		-6,0	00.00	77	
\$ 1,500.00 \$ 1,500.00 \$ 1,00 \$ 800.00 \$ 1,00 \$ 800.00 \$ 1,00 \$ 1,500.00 \$ 7,500.00 \$ 1,600.00 \$ 1,600.00 \$ 2,500.00 \$ 2,500.00 \$ 4,000.00 \$ 4,000.00 \$ 1,0	632 TRAFFIC SIGNAL INSTALLATION	INST	SIGNAL	IC SIC	CS	C S	S S	S	S	SIC	ĪĞ	NE	ĮΑΙ	LΙ	ĪNS	ST	AL	LAT.	101	N							T		1 E/	1	\$	150,00	0.00	\$		150,0	00.00)	
Subtotal \$ 163,000.00 150,	644 PAVEMENT MARKINGS	KINGS	VT MAR	IENT	EN.	EN.	ΞN.	N.	NT	ĮΤ	N	M/	ĀF	RK	ΊN	IGS	s_												1 L8	;	\$								
Subtotal \$ 463,000.00 160,	832 SWPPP			5	,	,																							1 LS	;	\$	1,50	0.00	\$	_				
\$ 7,500.00 \$ 7,500.00 \$ 1,600.00 \$ 4,800.00 \$ 2,500.00 \$ 2,500.00 \$ 4,000.00 \$ 4,000.00 Subtotal \$ 4,000.00	832 EROSION CONTROL	ROL	CONTI	ON CO) NC	NC	N	N	۷ (C	SO	NC	VT.	R	OL													80	0 E/	1	\$		1,00	\$	_	8	00.00	9	
\$ 7,500.00 \$ 7,500.00 \$ 1,600.00 \$ 4,800.00 \$ 2,500.00 \$ 2,500.00 \$ 4,000.00 \$ 4,000.00 Subtotal \$ 4,000.00					2	Ē.,	45	40	No.					18	1			5.50	32.			400	N 55	25.25		Horself.								No.	灵				0.053
\$ 1,600.00 \$ 4,800.00 \$ 2,500.00 \$ 2,500.00 \$ 4,000.00 \$ 4,900.00 Subtotal \$ 182,000.00 [57]	Company of the Compan			<i>-</i>	=		Participati	-	-	E. Carrie	200	-				2000			-		-			The same of the sa	No United			A Section	20000	Tip		Sub	total	\$-		163,0	90.00)	150,
\$ 1,600.00 \$ 4,800.00 \$ 2,500.00 \$ 2,500.00 \$ 4,000.00 \$ 4,900.00 Subtotal \$ 182,000.00 [57]			法						88	票	9	W.			(2)		200					925				100	15 4		10 2		製裝						28	8	
\$ 2,500.00 \$ 2,500.00 \$ 4,000.00 \$ 4,000.00 Subtotal \$ 182,000.00 gn Risk (35%) \$ 64,000.00	614 MAINTAINING TRAFFIC	AFFIC	ING TF	AININ	VINI	INI	INI	NI	NII	ĪN	VC.	G	TF	RΑ	\FF	FIC	5	-	OCCUPANT.	200000	DAG SANGE		-				T	1200-000-0	1 LS	3	\$	7,50	0.00	\$		7,6	00.00)	
Subtotal \$ -182,000.00 57/ gn Risk (35%) -\$ -64,000.00 53/	619 FIELD OFFICE, TYPE B	YPE B	FICE. T	OFFIC)FF	FF	FF	FF	FI	=10	CI	E	Ī	ΓY	PE	ΞĐ	3										1		3 M	V	\$	1,60	0.00	1\$	-	4,8	00.00)	
Subtotal \$ -182,000.00 150, an Risk (35%) -\$ -64,000.00 33, -	623 CONSTRUCTION LAYOUT STAKES																	T ST	TAK	KES	S								1 LS	5	\$	2,50	0.00	\$		2,5	00.00)	
gn Risk (35%) -\$ 64,000.00 53,	624 MOBILIZATION																												1 LS		\$	4,00	0.00	\$		4,0	00.00	3	
gn Risk (35%) +\$ 64,000.00	The second state of the se	200									20				1	幽	12/42	Sign	No.	- (A)	頭	1000					10	100	annie.	2 . 1								8	
					THE REAL PROPERTY.	No.	Carre		-		-		ALCOHOL:			- Control		-			22300		III Second	NO.	Section 12 Mg	3-23 -3		21116234		ocilio.	-	Sub	total	\$ -		182,0	00.00	1/	361
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				Lincolnector	and the same	LONG STORY	Northead	-	- Allerton	-	and the last	-								Linear	in alternation of						7		100	Des	ign	Risk (3	5%)		_				
Subtotal -\$ 246,000.00 Z09,	CONTRACTOR OF THE STANDARD CONTRACTOR AND																			enosa.		02-1-			THE RESERVE						95.00	Sub	total	-\$-		246,0	00.00	1.	109,
		in all	200 m		100	100	1	4		12	100		92					290%			100	823	W 5						660	100		6,033	系經		184			氢	
ERING (10%) \$ 25,000.00 ZQ		OCCUPATION OF THE PARTY OF THE													-	photos	No.									and a second	W		EN	SINI	EEF	RING (1	0%)	\$	_	-25,0	00:00	7-	ZO
Total \$ 274,000.00 ZZG,																																T	otal	-6-		274,0	00.00)- ,-	76

LENGTHEN NB LT LANE AND ADD NEW MAST ARM SIGNAL



AIRWAY ROAD (WOCOMAN / EMST)

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	10	THE PARTY	- Account	ts 800	7/301	1 No	OHM	MEC				

Indianapolis: 317-762-9300



Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 2. These corridors include Airway Rd.(Woodman East to Corp), Spinning Rd. (Burkhardt to Airway), Spinning Rd.(Linden to Burkhardt), Union Schoolhouse, Valley St. (Harshman East to Corp), and Valley St. (Harshman West to Corp). A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

AIRWAY (WOODMAN FAST TO CORP)

RWAY (WOODMAN EAST TO CORP)	COTINATED COCT
TASK	ESTIMATED COST
General Road Condition Improvement This includes a general rehab including mill and overlay using fabric matting, and estimated quantity of full depth pavement repair; some sidewalk replacement and some replacement of curb and storm sewer inlets.	Construction Cost- \$1,500,000
Street Lighting at Woodman This includes updating and adding ODOT type light poles, new underground wiring and new circuits in the vicinity of Woodman.	Construction Cost- \$200,000
Airway and Spinning Intersection This includes restriping to increase the left turn storage and installing a new signal. No new right of way is anticipated.	Construction Cost- \$275,000
Striping Review This includes a typical road diet and includes the cost to restripe the roadway for one through lane in each direction, a center left turn lane and bike lanes in each direction. Cross walks would be added to facilitate access to bus stops. Note	Construction Cost- \$125,000



this cost would be greatly reduced if included in the rehab.	
Grass Medians, Cobb to Corp Line This includes providing curbed medians in this section where they can be provided without widening the pavement. The medians would be landscaped with top soil and grass.	Construction Cost- \$350,000
Airway Woodman Intersection This intersection would be improved as outlined in the safety study completed in 2013. No new right of way is needed.	Construction Cost- \$500,000
Signal ad ASC drive This includes a new mast arm signal at the primary shopping center driveway.	Construction Cost- \$350,000
TOTAL AIRWAY (WOODMAN EAST TO CORP) IMPROVEMENTS	\$3,300,000



AIRWAY WOODMAN EAST TO CORP CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST	1	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
202	CATCH BASIN OR INLET REMOVED	10 EA	\$	350.00	\$	3,500.00
SPECIAL	FABRIC	45000 SY	\$	4.00	\$	180,000.00
252	FULL DEPTH PAVEMENT REPAIR	2000 SY	\$	50.00	\$	100,000.00
254	PAVEMENT PLANING, ASPHALT CONCRETE	45000 SY	\$	2.50	\$	112,500.00
407	TACK COAT	12000 GAL	\$	3.00	\$	36,000.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	2500 CY	\$	175.00	\$	437,500.00
603	15" CONDUIT, TYPE B	150 FT	\$.	50.00	\$	7,500.00
604	CATCH BASIN, NO. 3	10 EA	\$	2,500.00	\$	25,000.00
608	4"CONGRETE WALK	2500 SF	\$	5.00	\$	12,500.00
644	PAVEMENT MARKINGS	1 LS	\$	10,000.00	\$	10,000.00
832	SWPPP	1 L\$	\$	3,500.00	\$	3,500.00
832	EROSION CONTROL	1500 EA	\$	1.00	\$	1,500.00
		(200				
				Subtotal	\$	935,000.00
				00.000.00	6	20,000,00
614	MAINTAINING TRAFFIC	1 LS	\$	20,000.00	\$	20,000.00
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	\$	9,600.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$		\$	4,500.00
624	MOBILIZATION	1 LS	\$	20,000.00	3	20,000.00
			200	Subtotal	\$	990,000.00
				Subiolai	DE SEE	990,000.00
		Do	olan	Risk (35%)	\$	347,000.00
		De	sign	Subtotal		1,337,000.00
		SECURIOR SECURIOR	lo los	Curiotal	W-850	1,007,000.00
A BAR AN		ENGIN	FF	RING (10%)	\$	134,000.00
		LINGIN		Total		1,471,000.00
		er constitution at the	A0030	SALUGUAR GRANASA	500	



AIRWAY WOODMAN EAST LIGHTING AT WOODMAN CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER, 2014

ITEM	DESCRIPTION	QUANTITY	1	UNIT COST	1	OTAL COST	1
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00	1
625	LIGHT POLES	12 EA	\$	4,500.00	\$	54,000.00	
625	WIRING	1000 FT	\$	30.00	\$	30,000.00	
625	SINGLE CIRCUIT	2 EA	\$	20,000.00	\$	40,000.00	
			201	Subtotal	\$	129,000.00	124,0
614	MAINTAINING TRAFFIC	1 LS	\$	5,000.00	\$	5,000.00	
619	FIELD OFFICE, TYPE B	3 MN	\$	1,600.00	\$	4,800.00	1
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	2,500.00	\$	2,500.00	1
624	MOBILIZATION	1 LS	\$	4,000.00	\$	4,000:00	
	AMADES AND ASSESSMENT OF A SECOND ASSESSMENT			Subtotal	\$	146,000.00	
		Des	sign	Risk (35%) Subtotal-	\$	52,000.00 108,000.00	43,4 167,4
US DE CONTRACT		ENGI	NE	ERING (10) Total	\$	20,000.00 ¹	16,7



AIRWAY WOODMAND EAST TO CORP SPINNING INTERSECTION CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE. SEPTEMBER 2014

100000	DESCRIPTION	QUANTITY		JNIT COST	T	OTAL COST
ITEM		1 LS	\$	5,000.00	\$	5,000.00
201	CLEARING AND GRUBBING	1 EA	\$	150,000.00	\$	150,000.00
632	TRAFFIC SIGNAL INSTALLATION	1 LS	\$	5,000.00	\$	5,000.00
644	PAVEMENT MARKINGS	1 LS	\$	1,500.00	\$	1,500.00
832	SWPPP	800 EA	\$	1.00	\$	800.00
832	EROSION CONTROL	SECURITARIO SOCIETA SECURITARIO DE LA COMPANSIONA DEL COMPANSIONA DE LA COMPANSIONA			200	
		NO. of the Control of	linterior:	Subtotal	\$	163,000.00
example of the		excitorion de la recentration de	SUI S	100		
614	MAINTAINING TRAFFIC	1 1 LS	\$	7,500.00	\$	7,500.00
619	FIELD OFFICE, TYPE B	3 MN	\$	1,600.00	\$	4,800.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	2,500.00	\$	2,500.00
624	MOBILIZATION	1 LS	\$		\$	4,000.00
024	IWOBILIZATION				1832	2 2 2 2 2 2
				Subtotal	\$	182,000.00
WE ONLY	menne / Comment					
SAC REPORTED		De	sign	Risk (35%)	\$	64,000.00
				Subtotal	\$	246,000.00
278.78.000				作的原始是否	988	海海州
auco motorio		ENGIN	EEF	RING (10%)	\$	25,000.00
				Total	\$	271,000.00
THE RESERVE OF STREET			1500	Sales and the sales		建筑

LENGTHEN NB LT LANE AND ADD NEW MAST ARM SIGNAL



AIRWAY WOODMAN EAST RESTRIPING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - AUGUST, 2014

VIT COST	QUANTITY	DESCRIPTION	
3.00	14000 FT \$	OF PAVEMENT MARKING	
5,000.00	1.34 MI \$	MARKINGS	
500.00	28 EA §	SIN GRATES REPLACED	
	Joseph St. St. St.		
Subtotal	WOLDERS WEEK WOOD	40 - 24 - 100 2 Aug - 100 - 100 Aug	1990
10,000.00	1 1 LS 5	IG TRAFFIC	2000
1,600.00	2 MN \$	CE, TYPE B	_
2,500.00	1 LS \$	TION LAYOUT STAKES	
4,000.00	1 LS \$	ON	
		eligination of the second of t	
Subtotal		L. C. C. T. C.	
isk (35%)	Dogia	RASERLA CONTRACTOR DE LA CONTRACTOR DE L	\$\$E
, ,	Desig		
Subtotal			550
VG (10%)	ENGINEE		HARRA
Total			



AIRWAY WOODMAND EAST TO CORP GRASS MEDIAN ISLANDS CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST	T	OTAL COST	
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00	
202	PAVEMENT REMOVED	2500 SY	\$	10.00	\$	25,000:00	
203	EMBANKMENT	800 CY	\$	12.00	\$	9,600.00	
252	PAVEMENT SAWING	4500 LF	\$	3.00	-\$	13,500.00	
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22	100 CY	\$	250.00	\$	25,000: 00	
609	CURB, TYPE 6	4500 FT	\$	20.00	\$	90,000.00]
659	TOPSOIL	500 CY	\$	25.00	\$	12,500.00	1
659	SEEDING AND MULCHING	2500 SY	\$	3.00	\$	7,500.00	I
832	SWPPP	1 LS	\$	3,500.00	\$	3,500.00	
832	EROSION CONTROL	2500 EA	\$	1.00	\$	2,500.00	122110
				Subtotal	\$	-195,000.0 0	
614	MAINTAINING TRAFFIC	1 LS	\$	20,000.00	\$_	20,000.00	
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	\$_	9,600.00	
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	7,500.00		7,500.00	
624	MOBILIZATION	1 LS	\$	10,000.00	\$	- 10,000.0 0	
				Subtotal	\$	243,000.00	122,100
		De	sign	Risk (35%) Subtotal	\$ \$	86,000.00 329,000.00	42,738
		ENGIN	IEEF	RING (10%) Total	\$ \$.	9 3,000.00 362,000:00	16, 489



AIRWAY WOODMAN EAST WOODMAN INTERSECTION CITY OF RIVERSIDE, OHIO PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST	T	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0
202	PAVEMENT REMOVED	75 SY	\$	20.00	\$	1,500.0
202	- Control of the Cont		\$	3.00	\$	300.00
202	CATCH BASIN OR INLET REMOVED	1 EA	\$	1,500.00		1,500.00
203	EXCAVATION	80 CY	\$	20.00		1,600.00
203	EMBANKMENT	20 CY	\$	25.00	\$	500.00
204	SUBGRADE COMPACTION	135 SY	\$	3.00	\$	405.00
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	135 SY	\$	10.00	\$	1,350.00
252	FULL DEPTH PAVEMENT SAWING	100 FT	\$	5.00		500.00
304	AGGREGATE BASE, 10"	40 CY	\$	80.00	\$	3,200.00
407	TACK COAT	20 GAL	\$	3.00	\$	60.00
448	ASPHALT CONCRETE SURFACE COURSE 3"	13 CY	\$	250.00	\$	3,250.00
452	8" CONCRETE PAVEMENT	135 SY	\$	150.00		20,250.00
452	6" CONCRETE DRIVE APPROACHES	1 EA	\$	2,500.00		2,500.00
603	15" CONDUIT, TYPE B	25 FT	\$	100.00	\$	2,500.00
604	CATCH BASIN, NO. 2-2-B	2 EA	\$	3,500.00	\$	7,000.00
605	6" BASE PIPE UNDERDRAIN	100 FT	\$	8.00	S	800.00
	4" CONCRETE WALK	4000 SF	\$	5.00	\$	20,000.00
608	CURB RAMPS	1 EA	\$	1,000.00	\$	
609	CURB, TYPE 6	100 FT		25.00	\$	2,500.00
	6" CONCRETE TRAFFIC ISLAND	100 SY	\$	75.00	\$	7,500.00
	LIGHTING	1 LS	\$	10,000.00	\$	10,000.00
	SIGNAGE	1 LS	\$	3,000.00	\$	3,000.00
630	OVERHEAD SIGN	1 EA	\$	10,000.00	\$	10,000.00
	TRAFFIC SIGNAL RECONSTRUCTION	1 EA	\$	175,000.00	\$	175,000.00
	PAVEMENT MARKINGS	1 LS	\$	7,500.00	\$	7,500.00
	TOPSOIL	10 CY	\$	15.00	\$	150.00
	SEEDING AND MULCHING	25 SY	\$	40.00		1,000.00
	SWPPP	1 LS	\$	2,500.00	\$	2,500.00
832	EROSION CONTROL	2000 EA	\$	1.00	\$	2,000.00
15.00		9 00年(1977年)	100	金融 医内部		1000000
-				Subtotal	\$	295,000.00
112.00		America senting	931	15000000000000000000000000000000000000	A ST	100000000000000000000000000000000000000
	MAINTAINING TRAFFIC	1 LS	\$	10,000.00		10,000.00
	FIELD OFFICE, TYPE B	3 MN	\$	2,000.00		6,000.00
	CONSTRUCTION LAYOUT STAKES	1 LS	\$	5,000.00		5,000.00
324	MOBILIZATION	1 LS	\$	10,000.00	\$	10,000.00
25.27		A 可能性结构	TO S	POLICE STATE	1	
000000				Subtotal	\$	326,000.00
	NEW CONTROL OF THE PARTY OF THE				BEE	
		Des	ign	Risk (35%)	ş	115,000.00
INSTERN	NAC 200 S. ORIAN (VA. 771 S. F. A. C. V.)	NEW TRANSPORT		Subtotal	\$	441,000.00
100			SH		500	
		Eng	ine	ering (10%)	\$	45,000.00
				Total	\$	486,000.00

STREET THE OWN



AIRWAY WOODMAN EAST TO CORP SIGMAL AT ASC CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST	1	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
632	TRAFFIC SIGNAL INSTALLATION	1 EA	\$	200,000.00	\$	200,000.00
644	PAVEMENT MARKINGS	1 LS	\$	2,500.00	\$	2,500.00
832	SWPPP	1 LS	\$	1,500.00	\$	1,500.00
832	EROSION CONTROL	800 EA	\$	1.00	\$	800.00
SCHOOL SERVICE				Subtotal	\$	210,000.00
44.522		SWEETINGS.				(10 mg - 10
614	MAINTAINING TRAFFIC	1 LS	\$	7,500.00	\$	7,500.00
619	FIELD OFFICE, TYPE B	3 MN	\$	1,600.00	\$	4,800.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	2,500.00	\$	2,500.00
624	MOBILIZATION	1 LS	\$	4,000.00	\$	4,000.00
Control of the			的段	The state of the s		2011年1月5日
(C) R (MC) (C) (C) (C) (C)				Subtotal	\$	229,000.00
(E) (A) (A)				Control Merces		Mill Commence States
Diffu Ciro. Occombol view		De	sigr	Risk (35%)	\$	81,000.00
			-	Subtotal	\$	310,000.00
100 A						
		ENGIN	EE	RING (10%)	\$	31,000.00
				Total	\$	341,000.00
80.E35E408E			1000		REST.	1000

NEW MAST ARM SIGNAL



HARSHMAN PERSON

O COTHERMAN ROAD CONDITIONS LA NO CHANGES IN SUCPE
La No CHANKISK IN KINDE
(2) APPITIONING SIGNAGE + STACKING.
4 Amous Scops To Amous Light aun
D APPITIONING SIGNING + STACKING. 4 ANTONE SCOPE TO ATMONE LIGHT DWN FUCLUATE WITH TITES #/
3) SIRTEWACK TO COUNTRY HAVING
TO NO CHIQUEOUS IN SCOPE TOURNESS IN SCOPE
(4) SIPPLUMERY TO BUTIOUS
TURLUTATE UN FIRST 41.
Tukecipte W/ +Train 4/
(5) VARIABLIE RIGHT-OF-WAY
LA NOT WORTH PURCUING!



Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 2. These corridors include Airway Rd. (Woodman East to Corp), Spinning Rd.(Burkhardt to Airway), Spinning Rd.(Linden to Burkhardt), Union Schoolhouse, Valley St. (Harshman East to Corp), and Valley St. (Harshman West to Corp). A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

VALLEY (HARSHMAN EAST TO CORP)

ALLEY (HARSHMAN EAST TO CORP)	ESTIMATED COST
TASK General This includes a general rehab including mill and fill, and estimated quantity of full depth pavement repair, damaged curb replacement and the replacement of damaged catch basins.	Construction Cost- \$700,000
Traffic signal at Stebbins access and widening Valley for added left turn stacking This includes the addition of a new signal at the high school drive onto Valley, and widening Valley for a distance of about 500 feet to the north to provide left turn lanes and additional storage for left turns at Harshman.	Construction Cost- \$375,000
Sidewalk on north side to Country Haven This includes the addition of about 2,800 feet of new sidewalk. New curb is also included adjacent to the new walk.	Construction Cost- \$675,000



Sidewalk on south side to Butane Drive This includes the addition of about 600 feet of new sidewalk.	Construction Cost- \$110,000
Improvements at McMahan's Mobile Home Park This includes adding curb and sidewalk along the east right of way line, a distance of about 600 feet, adjacent to the property line. Also includes drainage improvements to accommodate the new walk.	Construction Cost- \$110,000
Variable right of way This cost is estimated assuming a value of \$25,000 per acre and a taking of 0.023 acres from each of 34 parcels. It is assumed that each acquisition is an individual transaction and include the associated fees.	ROW Cost- \$650,000
TOTAL VALLEY (HARSHMAN EAST TO CORP) IMPROVEMENTS	\$2,620,000



VALLEY EAST REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST	Т	OTAL COST	
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0	
252	FULL DEPTH PAVEMENT REPAIR	1200 SY	\$	50.00	\$	60,000.0	
254	PAVEMENT PLANING, ASPHALT CONCRETE	25000 SY	\$	2.50	\$	62,500.0	
407	TACK COAT	4000 GAL	\$	3.00	\$	12,000.0	
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, 2"	1500 CY	\$	175.00	\$	262,500.0	
603	15" CONDUIT, TYPE B	200 FT	\$	50.00	\$	10,000.0	
604	CATCH BASIN, NO. 3	4 EA	\$	2,500.00	\$	10,000.0	
604	MANHOLE, NO. 3	2 EA	\$	3,000.00	\$	6,000.0	
644	PAVEMENT MARKINGS	1 LS	\$	8,000.00	\$	8,000.0	
832	SWPPP	1 LS	\$	2,500.00	\$	2,500.0	
832	EROSION CONTROL	1500 EA	\$	1.00	\$	1,500.0	
				Subtotal	\$	440,000.0	
614	MAINTAINING TRAFFIC	1 LS	\$	5,000.00	\$	5,000.0	
619	FIELD OFFICE, TYPE B	3 MN	\$	1,600.00	\$	4,800.0	
623	CONSTRUCTION LAYOUT STAKES	1 LS_	\$	1,500.00		1,500.0	
624	MOBILIZATION	1 LS	\$	10,000.00	\$	10,000.0	
				Subtotal	\$	462,000.0	
		De	sign	Risk (35%)	\$	162,000.0	
				Subtotal	\$	624,000.0	
	ENGINEERING (10%)						
		ENGIN	4CC	Total	Š	63,000.0 687,000 .0	



VALLEY EAST STEBBINS SIGNAL AND HARSHMAN TURN LANE CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY	Г	UNIT COST		TOTAL COST	1
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00	1
202	CONCRETE MEDIAN REMOVED	25 SY	\$	15.00	\$	375.00	1
202	PAVEMENT REMOVED, ASPHALT	100 SY	\$	8.00			
203	EXCAVATION	300 CY	\$	25.00	\$	7,500.00	1
203	EMBANKMENT	100 CY	\$	20.00	\$	2,000.00	1
204	SUBGRADE COMPACTION	450 SY	\$	4.00	\$	1,800.00	1
206.	CEMENT STABILIZED SUBGRADE, 16" DEEP	450 SY	\$	5.50	\$	2,475.00	1
301	ASPHALT CONCRETE BASE, PG64-22, 6"	80 CY	\$	150.00	\$	12,000.00	1
304	AGGREGATE BASE, 10"	135 CY	\$	60.00	\$	8,100.00	1
407	TACK COAT	75 GAL	\$	5.00	\$	375.00	
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, 3"	50 CY	\$	200.00	\$	10,000.00	
603	15" CONDUIT, TYPE B	100 FT	\$	50.00	\$-	5,000.00	1
604	CATCH BASIN, NO. 3	2 EA	\$	2,500.00	\$	5,000.00	1
630	SIGNAGE	1 LS	\$	3,000.00	\$	3,000.00	1
632	TRAFFIC SIGNAL	1 LS	\$	150,000.00	\$	-150,000 . 00.	1
644	PAVEMENT MARKINGS	1 LS	\$	5,000.00	\$	5,000.00	
659	TOPSOIL	50 CY	\$	25.00	\$	1,250,00	1
659	SEEDING AND MULCHING	500 SY	\$	2.00	\$.	1,000.00	
832	SWPPP	1 LS	\$	4,000.00	\$	4,000.00	1
832	EROSION CONTROL	2000 EA	\$	1.00-	\$	2,000.00	
10000					1		
				Subtotal	8	227,000.00	58,
all de la		30.90	#85		\$ 188		
614	MAINTAINING TRAFFIC	1 LS	\$	7,500.00	\$_	7,500.00;	
619	FIELD OFFICE, TYPE B	4 MN	\$	1,600.00	\$	6,400:00	1
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	3,500.00	\$	3,500.00	
624	MOBILIZATION	1 LS	\$	4,000.00	-6	4;000:00	
能影响的						0.00000	
				Subtotal	\$-	249,000.00	58,
		2008 B. R. W.	13.5	19890006	8838.95°;	disease en en en en en	115-3725
		Des	ìgn	Risk (35%)	\$		20,0
				Subtotal	\$	337,000.00	79,
			_			The second second second second second	
		ENGINE	EF	RING (10%) Total	\$	34,000.00 371,000.00	8,0



VALLEY EAST SIDEWALK TO COUNTRY HAVEN CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		OTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5;000. 00
202	CATCH BASIN OR INLET REMOVED	2 EA	\$	350.00		700.00
203	EXCAVATION	2000 CY	\$	15.00	\$	30,000.00
203	EMBANKMENT	1000 CY	\$	12.00		12,000.00
204	SUBGRADE COMPACTION	3000 SY	\$	2.00		6,000.00
301	ASPHALT CONCRETE BASE, PG64-22, 6"	500 CY	\$	125.00	\$	62,500.00
304	AGGREGATE BASE, 10"	800 CY	\$	40.00	\$	32,000.00
407	TACK COAT	500 GAL	\$	3.00	\$	1,500.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	250 CY	\$	175.00	\$	43,750.00
603	15" CONDUIT, TYPE B	400 FT	\$	50.00	\$	20,000.00
604	CATCH BASIN, NO. 3	20 EA	\$	2,500.00		50,000.00
605	6" BASE PIPE UNDERDRAIN	3000 FT	\$	8.00	\$	24,000.00
608	4"CONGRETE WALK	14000 SF	\$		\$	70,000.00
608	CURB RAMPS	7 EA	\$	450.00	\$	3,150.00
609	CURB	3000 FT	\$	15.00	\$	45,000.00
659	TOPSOIL	250 CY	\$	25.00	\$	-6,250:0 0
659	SEEDING AND MULCHING	1500 SY	\$	2.00	\$	-3,000.0 0
832	SWPPP	1 LS	\$	4,500.00	\$.	4,500.0 0
832	EROSION CONTROL	2500 EA	\$	1.00	\$	_ 2,500:0 0
7. EV				Subtotal	\$	422,000.00
N. P. S.			(3)		38	97
614	MAINTAINING TRAFFIC	1 LS	\$	7,500.00	\$	7,500.00
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	\$, -9,000.0 0
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	4,500.00	\$	4,500:00
624	MOBILIZATION	1 LS	\$	10,000.00	\$.10,000.00
				Subtotal	\$	454,000.00
					111	
		De	sigr	Risk (35%)	\$	459,000:00
				Subtotal	\$	043,000:00
			-			
		ENGIN	IEE	RING (10%)	\$	62,000.00
				Total	\$	-075,000:00

NEW SIDEWALK, CURB AND DRAINAGE



VALLEY EAST SIDEWALK TO BUTANE CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST	1
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000:00	1
202	TREES REMOVED	6 EA	\$	350.00	\$	2,100.00	1
203	EXCAVATION	100 CY	\$	15.00	\$	1,500.00	1
203	EMBANKMENT	50 CY	\$	12.00	\$	600.00	1
608	4" CONCRETE WALK	3000 SF	\$	15.00	\$	45,000.00	
659	TOPSOIL	20 CY	\$	25.00	\$	500.00	1
659	SEEDING AND MULCHING	250 SY	\$	2.00	\$	500.00	1
832	SWPPP	1 LS	\$	2,500.00	\$	· 2,500.0 0	1
832	EROSION CONTROL	1000 EA	\$	1.00	\$	1,000.00	1
	学生是国际的国际的基础的工作。			经现象公司			i
	W			Subtotal	\$	-59,000.00	50,0
2000	A COUNTY OF THE PROPERTY OF THE PARTY OF THE	Tell to the service of the commence of			(A)	1. 10.000	2000
614	MAINTAINING TRAFFIC	1 LS	\$	3,000.00	\$	3,000,00	
619	FIELD OFFICE, TYPE B	2 MN	\$	1,600.00	\$	-3,200:0 0	
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	1,500.00	\$	· -1,500: 00	
	MOBILIZATION	4 1 0	\$	4,000.00	S		
624	THE PARTY OF THE P	1 LS	Ψ	4,000.00	Ψ	- 4,000:0 0	8
024	THE PARTY OF THE P	11.5	Ψ	Subtotal	\$		50,0
024				Subtotal	\$	71,000. 00	
024				Subtotal		71,000. 00 -25,000. 00	50,00 13,50 63,50
024		Des	sign	Subtotal Risk (35%) Subtotal	\$	71,000. 00 -25,000. 00	13,50

NEW SIDEWALK



VALLEY EAST SIDEWALK AT MCMAHAN'S CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

7,500.00 200.00 15.00	\$	1 LS	DESCRIPTION	ITEM
15.00	\$		CLEARING AND GRUBBING	201
		10 EA	TREES REMOVED	202
	\$	10 CY	EXCAVATION	203
12.00	\$	15 CY	EMBANKMENT	203
15.00	\$	3000 SF	4" CONCRETE WALK	608
25.00	\$	20 CY	TOPSOIL	659
2.00	\$	250 SY	SEEDING AND MULCHING	659
2,500.00	\$	1 LS		832
1.00	\$	1500 EA		832
Subtotal	e e e e			SHSE.
3,000.00	\$	1 LS	A CONTROL OF THE PROPERTY OF T	614
1,600.00	\$	3 MN		619
2,500.00	\$	1 LS		623
2,000.00	\$	1 LS	MOBILIZATION	624
Subtotal				
	sign	Des		
Subtotal				
	IEER	ENGIN		
00 00 00 00 00 00 00 00	2,500. 1. Subto 3,000. 1,600. 2,500. 2,000. Subto Risk (35° Subto	\$ 2,500. \$ 1. Subto \$ 3,000. \$ 1,600. \$ 2,500. \$ 2,000. Subto Subto	1 LS \$ 2,500. 1500 EA \$ 1. Subto 1 LS \$ 3,000. 3 MN \$ 1,600. 1 LS \$ 2,500. 1 LS \$ 2,000. Subto Design Risk (350 Subto	SWPPP

600 FEET NEW SIDEWALK

VALLEY EAST VAR RW
CITY OF RIVERSIDE
PRELIMINARY RIGHT OF WAY ESTIMATE - SETEMBER 2014

	1000 CONT.		Structure		TOTAL	Characterist	Section		200000			1	1			
NUMBER OF PARCOIS	Land Use Land Value	Land Value	Value	Total	ACREAGE	Impact	Impact Take (SF)	Impact Take (SF) Simple Temporary	Area: Temporary	Labor	Cost Fee	Cost:	Relocation	Sub-Total	Courto	Comments
25	VARIOUS	\$850,000		5880 000	34 000	3	- Contract	4				-			200	
					2000	3	2000	0.787		\$304,300	\$323,8131	SD		2000 040		
														010,0300		
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												0.0		-		
									1	1		3		8		TEMPORARY RAW & COST TO
												SD		60		200
									-					200		CONTROL CONTROL
								1	1			80		8		
												C.				

Administrative Costs
Jury trial Costs
Incidential transfer Costs
All areas are in acres.

[(sub-total)x0.15]x1.20 [(sub-total)x0.10]x1.50 [(sub-total)x0.90]x0.025

Estimated Cost Contingency (50%) TOTAL COST Detailed
Appraisal Negotlation
Review
\$2,050 \$31,100 Detailed Appraisal Tilles

\$323,813 \$58,286 \$48,572 \$7,286 \$437,958

Project Management 8550

Closings

8

8

8

\$323,813

Sub-Totals

* Labor Cost Includes the following: (per ODOT Cost Estimating Procedures For Acquiring Rights of Way)

Notes:
1 Existing RWV estimated using GIS parcel lines, where available
2 Where RWV cannot be easily estimated from GIS parcels, existing RWV is assumed to be 1' behind walk
3 Proposed permanent RWV is assumed to be 1' behind proposed walk
4 Railroad property estimated at 10 times the per acre land value

\$400



VALLEY (HANSHMAN WIFFT).

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6)	SWISU	VAUS Two	D.T LUBIE	- Me	MOH	THE	5. 4 #	/.									
(Z)	TRUF	FIL .	SIGN	oc	AT	VA	UST	10	Vose	ik							

Indianapolis: 317-762-9300



(HAMSHMANS WISST)

LO BRING COORDINATION W/ 2015/2014 CDISC MOSTICT.

Cincinnati: 513-891-2010

www.furnituresolutionsftw.com

Indianapolis: 317-762-9300



Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 2. These corridors include Airway Rd. (Woodman East to Corp), Spinning Rd. (Burkhardt to Airway), Spinning Rd. (Linden to Burkhardt), Union Schoolhouse, Valley St. (Harshman East to Corp), and Valley St. (Harshman West to Corp). A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

VALLEY, HARSHMAN WEST TO CORP

ALLEY, HARSHMAN WEST TO CORP	ESTIMATED COST
General This includes a general rehab including mill and fill, and estimated quantity of full depth pavement repair, damaged sidewalk replacement and the replacement and addition of new curb and storm sewer and catch basins.	Construction Cost- \$1,425,000
Street Lighting This includes continuous ODOT type light poles, underground wiring and new circuits.	Construction Cost- \$850,000
Sidewalk north side between Broadmead and Hypathia This includes the addition of about 2,000 feet of new sidewalk and miscellaneous drainage improvements.	Construction Cost- \$280,000
Right of Way between Rohrer and Pleasant Valley Make the right of way a uniform width by buying a 15 foot wide strip from 4 owners. Estimate using \$30,000 per parcel.	ROW Cost- \$120,000



Sidewalk south side between Broadmead and Harshman This includes the addition of about 3,200 feet of new sidewalk and miscellaneous drainage improvements.	Construction Cost- \$460,000
Improvements at McMahan's Mobile Home Park This includes adding curb and sidewalk along the east right of way line, a distance of about 600 feet, adjacent to the property line. Also includes drainage improvements to accommodate the new walk.	Construction Costs- \$175,000
Traffic signal and intersection improvements at Pleasant Valley This includes upgrading the signal and lowering the profile of Valley Street through the intersection. Also included is overlaying the approach on the north leg of Pleasant Valley.	Construction Costs- \$800,000
Crosswalk at Prince Albert This includes providing pavement markings for a crosswalk at the intersection.	Construction Costs- \$50,000
TOTAL VALLEY (HARSHMAN WEST TO CORP) IMPROVEMENTS	\$4,160,000



VALLEY HARSHAMAN WEST REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST	1	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
202	WALK REMOVED	750 SF	\$	1.50	\$	1,125.0
202	CURB REMOVED	200 FT	\$	3.00	\$	600.0
202	CATCH BASIN OR INLET REMOVED	6 EA	\$	350.00	\$	2,100.0
252	FULL DEPTH PAVEMENT REPAIR	2200 SY	\$	50.00	\$	110,000.0
254	PAVEMENT PLANING, ASPHALT CONCRETE	22000 SY	\$	2.50	\$	55,000.0
407	TACK COAT	3300 GAL	\$	3.00	\$	9,900.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	1250 CY	\$	175.00	\$	218,750.0
603	15" CONDUIT, TYPE B	4000 FT	\$	50.00	\$	200,000.0
603	36" CONDUIT, TYPE B	1000 FT	\$	125.00	\$	125,000.0
604	CATCH BASIN, NO. 3	24 EA	\$	2,500.00	\$	60,000.0
608	4" CONCRETE WALK	2500 SF	\$	3.00	\$	7,500.0
608	CURB RAMPS	8 EA	\$	450.00	\$	3,600.0
609	CURB	6500 FT	\$	15,00	\$	97,500.0
644	PAVEMENT MARKINGS	1 LS	\$	7,500.00	\$	7,500.0
832	SWPPP	1 LS	\$	3,500.00	\$	3,500.0
832	EROSION CONTROL	1500 EA	\$	1.00	\$	1,500.0
		840		300		
Nace of the last o		10		Subtotal	\$	909,000.0
	A SAME DESCRIPTION OF THE PROPERTY OF THE PROP					
614	MAINTAINING TRAFFIC	1 LS	\$	20,000.00	\$	20,000.0
619	FIELD OFFICE, TYPE B	3 MN	\$		\$	4,800.0
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	7,500.00		7,500.0
624	MOBILIZATION	1 LS	\$	20,000.00	\$	20,000.0
						000 000 0
			in lateral	Subtotal	\$	962,000.0
		20,200	1500	Di 1 (0.50()		007.000.0
- N	erse continued in the second	De	sign	Risk (35%)	\$	337,000.0
		La constitución de la constituci	20000	Subtotal	3	1,299,000.0
66.5				DINIO (40%)	O C	420,000
		ENGIN	1EE	RING (10%)	\$	130,000.0
				Total	Þ	1,429,000.0



VALLEY HARSHMAN WEST LIGHTING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER, 2014

7	TOTAL COST	7	UNIT COST	l	QUANTITY	DESCRIPTION	ITEM
	5,000.00	\$	5,000.00	\$	1 LS	CLEARING AND GRUBBING	201
ä	-315,000,00	\$	4,500.00	\$	18 -70-EA	LIGHT POLES	625
_	159,000.00	\$	30.00	\$	5300 FT	WIRING	625
i	60,000.00	\$	20,000.00	\$	Z -9-EA	SINGLE CIRCUIT	625
Sept.					经验的证据		
	-539,000:00	\$	Subtotal	-			
800	7/2/2	98		双独	美国机会主义 。在		
	-7,500:0 0	\$	7,500.00	\$	1 LS	MAINTAINING TRAFFIC	614
	-6,400.00	\$	1,600.00	\$	4 MN	FIELD OFFICE, TYPE B	619
	3,500.00	\$	3,500.00	\$	1 LS	CONSTRUCTION LAYOUT STAKES	623
7	20,000.00	\$	20,000.00	\$	1 LS	MOBILIZATION	624
ğ							
J	-577,000.0 0	\$	Subtotal				LA ECCUMANA
	炎起来,对关系						Central de
		\$	n Risk (35%)	ign	Des		
ı	~ 779,000.00	\$	Subtotal				
4		<i>10559</i>	College of September	1300 S	William Street		2.55
1	(2) 1000年,开京学员		STONE STONE STONE	100000	100000000000000000000000000000000000000		NAVARAMENT STATE
I	.78,000.00 657,000.00	\$	EERING (10)	VEE	ENGI	He was a second of the second	



VALLEY HARSHMAN WEST SW NORTH SIDE BROADMEAD TO HYPATHIA CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

	TOTAL COST	Т	NIT COST	U	QUANTITY	DESCRIPTION	ITEM
	5,000:00	\$	5,000.00	\$	1 LS	CLEARING AND GRUBBING	201
l	300.00	\$	3.00	\$	100 SF	WALK REMOVED	202
l	6,000.00	\$	12.00	\$	500 CY	EMBANKMENT	203
ļ	12,500.00	\$	50.00	\$	250 FT	15" CONDUIT, TYPE B	603
ļ	30,000.00	\$	2,500.00	\$	12 EA	CATCH BASIN	604
l	18,000.00	\$	3,000.00	\$	6 EA	MANHOLE, NO. 3	604
١	-77,000.0 0	\$	7.00	\$	44000 SF	4" CONCRETE WALK 6500	608
	3,600.00	\$	450.00	\$	8 EA	CURB RAMPS	608
Į	2,500.00	\$	2,500.00	\$	1 LS	PAVEMENT MARKINGS	644
	6,250.00	\$	25.00	\$	250 CY	TOPSOIL	659
Į	4,000.00	\$	2.00	\$	2000 SY	SEEDING AND MULCHING	659
l	·4 ,500.00	\$	4,500.00	\$	1 LS	SWPPP	832
		de					
	-2,000.00	\$	1.00	\$	2000 EA	EROSION CONTROL	832
The same of the sa	-172,000.0 0	\$	Subtotal				832
and the second second	* 172,000.0 0 3,500.0 0	\$	Subtotal	\$	1 LS	MAINTAINING TRAFFIC	614
	*172,000:00 -3,500:00 -4,800:00	\$	Subtotal 3,500.00 1,600.00	\$	1 LS 3 MN	MAINTAINING TRAFFIC FIELD OFFICE, TYPE B	614
	*172,000:00 -3,500:00 -4,800:00 3,500:00	\$ \$	3,500.00 1,600.00 3,500.00	\$ \$ \$	1 LS 3 MN 1 LS	MAINTAINING TRAFFIC	614 619 623
	*172,000:00 -3,500:00 -4,800:00	\$	Subtotal 3,500.00 1,600.00	\$	1 LS 3 MN	MAINTAINING TRAFFIC FIELD OFFICE, TYPE B	614 619 623
	*172,000:00 -3,500:00 -4,800:00 3,500:00	\$ \$	3,500.00 1,600.00 3,500.00	\$ \$ \$	1 LS 3 MN 1 LS	MAINTAINING TRAFFIC FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES	614 619 623 624
	*172,000.00 -3,500.00 -4,800:00 3,500.00 -4,000.00 -188,000.00 -60,000.00	\$ \$ \$ \$	Subtotal 3,500.00 1,600.00 3,500.00 4,000.00	\$ \$	1 LS 3 MN 1 LS 1 LS	MAINTAINING TRAFFIC FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES	614 619 623
	*172,000.00 -3,500.00 -4,800.00 3,500.00 -4,000.00 -188,000.00	\$ \$ \$ \$ \$	Subtotal 3,500.00 1,600.00 3,500.00 4,000.00 Subtotal	\$ \$	1 LS 3 MN 1 LS 1 LS	MAINTAINING TRAFFIC FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES	614 619 623
	*172,000.00 -3,500.00 -4,800:00 3,500.00 -4,000.00 -188,000.00 -60,000.00	\$ \$ \$ \$ \$	Subtotal 3,500.00 1,600.00 3,500.00 4,000.00 Subtotal Risk (35%)	\$ \$ \$	1 LS 3 MN 1 LS 1 LS	MAINTAINING TRAFFIC FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES	614 619 623



VALLEY HARSHMAN WEST SW SOUTH SIDE BROADMEAD TO HARSHMAN CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

	TOTAL COST	1	UNIT COST	TITY	QUANTI	DESCRIPTION	TEM
)	• 5,000.0 0	\$	\$ 5,000.00	LS	11	ARING AND GRUBBING	201
	300.00	\$	\$ 3.00	SF	100	KREMOVED	202
)	12,000.00	\$	\$ 12.00	CY	1000 (ANKMENT	203
	25,000.00	\$	\$ 50.00	FT	500 [ONDUIT, TYPE B	603
	50,000.00	\$	\$ 2,500.00	EA	20 E	CH BASIN	604
П	30,000.00	\$	\$ 3,000.00	EA	10 E	HOLE, NO. 3	604
	,140,000,0 0	\$	\$ 7.00	SF	2 0 00 0 (NORETE WALK 13, 200	608
	3,600.00	\$	\$ 450.00	EA	8 E	BRAMPS	608
-	2,500.00	\$	\$ 2,500.00	LS	11	MENT MARKINGS	644
	11,250.00	\$	\$ 25.00	CY	450 (SOIL	659
٦	7,000.00	\$	\$ 2.00	SY	3500 8	DING AND MULCHING	659
-	4 F00 00	\$	\$ 4,500.00	LS	1 L	ор	832
1	4,500.00						
-	2,000: 00	\$	\$ 1.00	EA	2000 E	SION CONTROL	832
	2,000: 00 204,000: 00	\$	Subtotal				
	2,000: 00 204,000: 00 -3,500:00	\$	Subtotal 3,500.00	LS	1 L	TAINING TRAFFIC	314
	2,000:00 204,000:00 -3,500:00 -8,000:00	\$	Subtotal 3,500.00 1,600.00	LS MN	1 L 5 N	TAINING TRAFFIC OFFICE, TYPE B	314 319
	2,000:00 204,000:00 -3,500:00 -8,000:00 3,500:00	\$ \$	Subtotal 3,500.00 1,600.00 3,500.00	LS MN LS	1 L 5 M 1 L	TAINING TRAFFIC OFFICE, TYPE B STRUCTION LAYOUT STAKES	314 319 323
	2,000:00 204,000:00 -3,500:00 -8,000:00	\$	Subtotal 3,500.00 1,600.00	LS MN LS	1 L 5 N	TAINING TRAFFIC OFFICE, TYPE B	314 319
	2,000:00 204,000:00 -3,500:00 -8,000:00 3,500:00	\$ \$	Subtotal 3,500.00 1,600.00 3,500.00	LS MN	1 L 5 M 1 L	TAINING TRAFFIC OFFICE, TYPE B STRUCTION LAYOUT STAKES	314 319 323
	2,000:00 -2,500:00 -3,500:00 -3,500:00 3,500:00 4,000:00 313,000:00	\$ \$ \$ \$ \$	Subtotal 3,500.00 1,600.00 3,500.00 4,000.00 Subtotal	LS MN LS LS	1 L 5 M 1 L	TAINING TRAFFIC OFFICE, TYPE B STRUCTION LAYOUT STAKES	314 319 323
	2,000:00 -2,500:00 -3,500:00 -3,500:00 3,500:00 4,000:00 313,000:00	\$ \$ \$ \$ \$ \$	Subtotal 3,500.00 1,600.00 3,500.00 4,000.00	LS MN LS LS	1 L 5 M 1 L	TAINING TRAFFIC OFFICE, TYPE B STRUCTION LAYOUT STAKES	314 319 323
	2,000:00 -2,500:00 -3,500:00 -3,500:00 3,500:00 4,000:00 313,000:00	\$ \$ \$ \$ \$ \$ \$	Subtotal 3,500.00 1,600.00 3,500.00 4,000.00 Subtotal gn Risk (35%)	LS MN LS LS Design	1 L 5 N 1 L	TAINING TRAFFIC OFFICE, TYPE B STRUCTION LAYOUT STAKES	314 319 323



VALLEY EAST SIDEWALK AT MCMAHAN'S CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ı	TOTAL COST	T	INIT COST	U	QUANTITY	DESCRIPTION	TEM
1	-7,500.00	\$	7,500.00	\$	1 LS	CLEARING AND GRUBBING	201
	2,000.00	\$	200.00	\$	10 EA	TREES REMOVED	202
	150.00	\$	15.00	\$	10 CY	EXCAVATION	203
	180.00	\$	12.00	\$	15 CY	EMBANKMENT	203
	25,000.00	\$	50.00	\$	500 FT	15" CONDUIT	303
	9,000.00	\$	4,500.00	\$	2 EA	MAN HOLE	304
	10,000.00	\$	2,500.00	\$	4 EA	CATCH BASIN	304
	45,000.00	\$	15.00	\$	3000 SF	4" CONCRETE WALK	308
	500.00	\$	25.00	\$	20 CY	TOPSOIL	359
-	500.00	\$	2.00	\$	250 SY	SEEDING AND MULCHING	359
	+ 2,500.0 0	\$	2,500.00	\$	1 LS	SWPPP	332
1	1 ,500:00 *	\$	1.00	\$	1500 EA	EROSION CONTROL	332
ě	CALASTE AT	100	() () () () () () () () () ()	200			
	104,000.0 0	\$	Subtotal				
8			2000年基門 600	200	Out to a character of		
	3 ,000.00-	\$	3,000.00	\$	1 LS	MAINTAINING TRAFFIC	314
-	+-4,800.00	\$	1,600.00	\$	3 MN	FIELD OFFICE, TYPE B	319
	2,500.00	\$	2,500.00	\$	1 LS	CONSTRUCTION LAYOUT STAKES	523
	-2,000.00	\$	2,000.00	\$	1 LS	MOBILIZATION	324
	147,000:00	\$	Subtotal				
	-41,000.0 0	\$	Risk (35%)	eian	Do		
	158,000.00	\$	Subtotal	aigit i	De:		
-	16,900.00	\$	RING (10%)	EER	ENGIN		
	474,000:00	Ś	Total		2.011		

600 FEET NEW SIDEWALK



VALLEY HARSHAMAN WEST PLEASANT VALLEY CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST			TOTAL COST
201	CLEARING AND GRUBBING	1 LS	18			5,000.0
202	PAVEMENT REMOVED, ASPHALT	2500 SY	3		\$	20,000.0
202	CATCH BASIN OR INLET REMOVED	2 EA	\$			700.0
203	EXCAVATION	1500 CY	3	15.00	\$	22,500.0
204	SUBGRADE COMPACTION	2500 SY	18		\$	5,000.0
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	2500 SY	\$			13,750.0
254	PAVEMENT PLANING, ASPHALT CONCRETE	1000 SY	\$		\$	2,500.0
301	ASPHALT CONCRETE BASE, PG64-22, 6"	400 CY	\$			50,000.0
304	AGGREGATE BASE, 10"	700 CY	\$			28,000.0
407	TACK COAT	550 GAL	\$			1,650.0
448	ASPHALT CONCRETE PARKING LOT PATCHING	100 CY	\$			15,000.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	250 CY	\$		\$	43,750.0
603	15" CONDUIT, TYPE B	500 FT	\$	50.00	\$	25,000.0
604	CATCH BASIN	4 EA	\$			10,000.0
604	MANHOLE	2 EA	\$		\$	6,000.0
605	6" BASE PIPE UNDERDRAIN	1000 FT	\$		\$	8,000.0
609	CURB, TYPE 6	1000 FT		15.00		
609	6" CONCRETE DRIVE APPROACH	12 EA	\$	5,000.00		60,000.0
630	SIGNAGE	1 LS	\$		\$	3,500.0
632	TRAFFIC SIGNAL INSTALLATION	1 EA			\$	150,000.0
644	PAVEMENT MARKINGS	1 LS	\$		\$	3,500.0
659	TOPSOIL	50 CY	\$	25.00	\$	1,250.0
659	SEEDING AND MULCHING	500 SY	\$	2.00		1,000.0
832	SWPPP	1 LS	\$	4,500.00		4,500.0
832	EROSION CONTROL	2500 EA	\$		\$	2,500.0
				Subtotal	\$	499,000.0
614	MAINTAINING TRAFFIC	1 LS	\$	20,000.00	\$	7,500.0
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00		9,600.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	4,000.00		4,000.00
624	MOBILIZATION	1 LS	\$		\$	20,000.00
				Subtotal	\$	541,000.0
	7,00	Des	ign		\$	190,000.0
			_	Subtotal	\$	731,000.0
		ENGIN	EEF		\$	74,000.0
				Total	\$	805,000.00

NEW MAST ARM SIGNAL LOWER PROFILE ON VALLEY OVERLAY PLEASANT VALLEY

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VALLEY HARSHMAN WEST PRINCE ALBERT CROSSWALK CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY	l	JNIT COST	TC	TAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
202	CURB REMOVED	10 FT	\$	20.00	\$	200.00
608	4" CONCRETE WALK	50 SF	S	25.00	\$	1,250.00
608	CURB RAMPS	1 EA	\$	1,000.00	\$	1,000.00
641	PAVEMENT MARKINGS REMOVED	1 LS	\$	5,000.00	\$	5,000.00
644	PAVEMENT MARKINGS	1 LS	\$	7,500.00	\$	7,500.00
832	SWPPP	1 LS	\$	1,500.00	\$	1,500.00
832	EROSION CONTROL	800 EA	\$	1.00	\$	800.00
002	EKOSION CONTROL	MONISTER STATE OF THE STATE OF	100.27	A SACTION AND	1000	
SEE SEE SEE	WITH A STREET AND SERVICE STREET STREET, STREET STREET	A HARMAC STONE CONTROL OF THE CONTRO	NOCHOLIS	Subtotal	\$	23,000.00
25/02/03/03				F. C. 1914 F.		net kind in
614	MAINTAINING TRAFFIC	1 1 L\$	S	5,000.00	\$	5,000.00
619	FIELD OFFICE, TYPE B	1 MN	\$	1,600.00	\$	1,600.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	2,500.00	\$	2,500.00
624	MOBILIZATION	1 LS	\$	2,000.00	\$	2,000.00
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			_	Subtotal	\$	48,000.00
		ENGIN	EEF	RING (10%)	\$	5,000.00
				Total	\$	53,000.00
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UNION SCHOOLHOUSIE

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CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 2 SEPTEMBER 2014

Preliminary project cost estimates have been developed for the six corridors included in Phase I, Grouping 2. These corridors include Airway Rd. (Woodman East to Corp), Spinning Rd. (Burkhardt to Airway), Spinning Rd. (Linden to Burkhardt), Union Schoolhouse, Valley St. (Harshman East to Corp), and Valley St. (Harshman West to Corp). A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

Addition of RTA Bus Pads, Each

Estimated Construction Cost as stand-alone projects - \$50,000.

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

UNION SCHOOLHOUSE

NION SCHOOLHOUSE TASK	ESTIMATED COST
General This includes a general rehab including mill and fill, and estimated quantity of full depth pavement repair, damaged curb and sidewalk replacement and re-establishing the existing ditch lines.	Construction Cost- \$800,000
Traffic signal at Forest Ridge In lieu of a signal, this estimate includes the cost of constructing a roundabout at this intersection. It is assumed that no new right of way would be needed.	Construction Cost- \$600,000
Lane transition at Coury Lane An immediate construction solution is not in order here. Future development to widen the pavement to a consistent width throughout the area is anticipated.	\$0
Radii at Hyland This includes improving the turning radius at all four corners. Right of way is needed from two properties.	Construction Cost- \$90,000



UNION SCHOOLHOUSE REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
202	CURB REMOVED	200 FT	\$	3.00	\$	600.00
202	CATCH BASIN OR INLET REMOVED	4 EA	\$	350.00	\$	1,400.00
203	EXCAVATION, DITCH REHAB	500 CY	\$	20.00	\$	10,000.00
252	FULL DEPTH PAVEMENT REPAIR	1500 SY	\$	50.00	\$	75,000.00
254	PAVEMENT PLANING, ASPHALT CONCRETE	30000 SY	\$	2.50	\$	75,000.00
407	TACK COAT	4500 GAL	\$	3.00	\$	13,500.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	1800 CY	\$	175.00	\$	315,000.00
603	15" CONDUIT, TYPE B	100 FT	\$	50.00	\$	5,000.00
604	CATCH BASIN, NO. 3	4 EA	\$	2,500.00	\$	10,000.00
609	CURB, TYPE 6	200 FT	\$	15.00	\$	3,000.00
644	PAVEMENT MARKINGS	1 LS	\$	7,500.00	\$	7,500.00
832	SWPPP	1 LS	\$	3,500.00	\$	3,500.00
832	EROSION CONTROL	1500 EA	\$		\$	1,500.00
and the		Alexander (Water Street	CHARLES NO.	erons.	146
			DATE OF THE PARTY	Subtotal	\$	526,000.00
4		Complete State	View.		620	
614	MAINTAINING TRAFFIC	1 LS	\$	7,500.00	\$	7,500.00
619	FIELD OFFICE, TYPE B	3 MN	\$	1,600.00	\$	4,800.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	1,500.00	\$	1,500.00
624	MOBILIZATION	1 LS	\$	10,000.00	\$	10,000.00
				0.11.11		
				Subtotal	\$	550,000.00
		Des	lan	Risk (35%)	\$	193,000.00
				Subtotal	\$	743,000.00
		ENGIN	EER	ING (10%)	\$	75,000.00
				Total	\$	818,000.00



UNION SCHOOLHOUSE FOREST RIDGE INTERSECTION CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0
202	PAVEMENT REMOVED, ASPHALT	1500 SY	\$		\$	12,000.0
202	WALK REMOVED	2000 SF	\$	1.50	\$	3,000.0
202	CURB REMOVED	1000 FT	\$	3.00	\$	3,000.0
202	CATCH BASIN OR INLET REMOVED	2 EA	\$	350.00	\$	700.0
203	EXCAVATION	2000 CY	\$	15.00	\$	30,000.0
203	EMBANKMENT	500 CY	\$	12.00	\$	6,000.0
204	SUBGRADE COMPACTION	3000 SY	\$		\$	6,000.0
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	3000 SY	\$		\$	16,500.0
301	ASPHALT CONCRETE BASE, PG64-22, 6"	500 CY	\$	125.00	\$	62,500.0
304	AGGREGATE BASE, 10"	800 CY	\$	40.00	\$	32,000.0
407	TACK COAT	500 GAL	\$	3.00	\$	1,500.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	300 CY	\$	175.00	\$	52,500.0
603	15" CONDUIT, TYPE B	500 FT	\$	50.00	\$	25,000.0
604	CATCH BASIN, NO. 3	4 EA	\$	2,500.00	\$	10,000.0
604	MANHOLE, NO. 3	2 EA	\$	3,000.00	\$	6,000.0
605	6" BASE PIPE UNDERDRAIN	800 FT	\$	8.00	\$	6,400.0
608	4" CONCRETE WALK	4000 SF	\$	5.00	\$	20,000.0
608	CURB RAMPS	8 EA	\$	450.00	\$	3,600.0
609	CURB, TYPE 6	2000 FT	\$	15.00	\$	30,000.0
630	SIGNAGE, INCLUDING RELOCATION OF MAST ARM	1 LS	\$	3,500.00	\$	3,500.0
	LANDSCAPING MOUND	1 LS	\$	15,000.00	\$	15,000.0
644	PAVEMENT MARKINGS	1 LS	\$	5,000.00	\$	5,000.0
659	TOPSOIL	200 CY	\$	25.00	\$	5,000.0
659	SEEDING AND MULCHING	1000 SY	\$	2.00	\$	2,000.0
832	SWPPP	1 LS	\$	5,000.00	\$	5,000.0
832	EROSION CONTROL	3500 EA	\$	1.00	\$	3,500.0
N 18 7				Subtotal	\$	371,000.0
		SAVIDA MINIST			0880	178000000000000000000000000000000000000
614	MAINTAINING TRAFFIC	1 LS	\$	8,000.00	\$	8,000.0
619	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00		9,600.0
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	4,500.00		4,500.0
624	MOBILIZATION	LS	\$	10,000.00		
(Allega sea)		建筑原始的	100	37.640(0.00)	X226	A CONTRACTOR
WASHINGTON TO THE PARTY OF THE				Subtotal	\$	394,000.0
		Des	sign	Risk (35%)	\$	138,000.0
			_	Subtotal	S	532,000.0
		ENGIN	EEF	RING (10%)	\$	54,000.0
Total						



VALLEY EAST HYLAND RADIUS CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

ITEM	DESCRIPTION	QUANTITY		JNIT COST	T	OTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.0
202	PAVEMENT REMOVED, ASPHALT	50 SY	\$	8,00	\$	400.0
203	EXCAVATION	115 CY	\$	30.00	\$	3,450.0
204	SUBGRADE COMPACTION	175 SY	\$	4.00	\$	700.0
301	ASPHALT CONCRETE BASE, PG64-22, 6"	30 CY	\$	175.00	\$	5,250.0
304	AGGREGATE BASE, 10"	50 CY	\$	75.00	\$	3,750.0
407	TACK COAT	40 GAL	\$	5.00	\$	200.0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	20 CY	\$	250.00	\$	5,000.0
603	CULVERT EXTENDED	25 FT	\$	150.00	\$	3,750.0
630	SIGNAGE	1 LS	\$	2,000.00	\$	2,000.0
659	TOPSOIL	50 CY	\$	100.00	\$	5,000.0
659	SEEDING AND MULCHING	150 SY	\$	5.00	\$	750.0
832	SWPPP	1 LS	\$	3,500.00	\$	3,500.0
832	EROSION CONTROL	2000 EA	\$	1.00	\$	2,000.0
SAME.			3 H H			
_				Subtotal	\$	41,000.0
614	MAINTAINING TRAFFIC	1 LS	\$		\$	5,000.0
619	FIELD OFFICE, TYPE B	3 MN	\$		\$	4,800.0
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$		\$	3,500.0
624	MOBILIZATION	1 LS	\$	4,000.00	\$	4,000.0
				Subtotal	\$	59,000.0
		Des	ign l	Risk (35%)	\$	21,000.0
				Subtotal	\$	80,000.0
		ENGINI	EER	ING (10%)	\$	8,000.0
				Total	S	88,000.0

USE 40' RADIUS ALL FOUR CORNERS

UNION SCHOOLHOUSE ROAD CITY OF RIVERSIDE PRELIMBURY RIGHT OF WAY ESTIMATE - SETEMBER 2014

Comments			TEMPORARY RAW & COST TO	CURE NOT CONSIDERED			27
Cost to							a
Sub-Total Cost	\$126,913	SO	S	SS	S	80	\$126,913 \$22,844 \$19,037 \$2,856 \$171,650
Relocation							\$
Cost: Temporary	80	80	30	30	30	80	8
Cost: Fea Simple	\$126,913						\$126,913
Labor	\$107,400						@
Area: Temporary							Sub-Tobis Estimated Cost Contingency (50%) TOTAL COST
Structure Area of Area: Foe Area: Impact Take (SF) Simple Temperary	0.781						3 8 6
Structure Area of Area: Foe Impact Take (SF) Simple	34000						
Structure	ON	10000					
ACREAGE (ACRES)	34.000	000000000					120
Total	\$850,000						[(sub-total)x0.15]x1.20 [(sub-total)x0.10]x1.50 [(sub-total)x0.90]x0.025
Structure							-dus)] dus)]
Land Use Land Value	\$850,000						osts er Costs ecres.
Land Use	VARIOUS						Administrative Costs Jury trial Costs Indidental transfer Costs All areas are in acres.
Number of Parcels	12						,,

 Detailed
 Project

 Appraisal
 Negotiation
 Closings
 Management

 Raviow
 \$1,100
 \$400
 \$550

Detailed Appraisal

Tifes \$400

* Labor Cost Includes the following: (per ODOT Cost Estimating Procedures For Acquiring Rights of Way)



TO:

Riverside City Council

FROM:

Bryan RH Chodkowski,

City Manager

SUBJECT:

Major Thoroughfare Improvement Plan -

Phase III, Group III

DATE:

March 11, 2015

CC:

Emily M. Christian,

Assistant City Manager

Mitch Miller,

Director of Public Services

This memorandum represents the start of the final phase of the Major Thoroughfare Improvement Plan undertaken by staff in 2014. In the first phase of this project, staff and Council reviewed the major roadways of the City and brainstormed about all the improvements that could be included as part of a street's reconstruction. In the second phase of this project, the City Engineer quantified the expense of all the project elements identified in the first phase. In this third phase, staff is providing a recommendation on a final project scope for each street which takes into account cost, scale, and practicality.

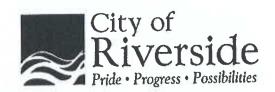
This memorandum provides a brief summary of the project elements addressed in Phase II and their estimated expenses. For your reference, the Phase II information provided by the Engineer is attached to this memorandum. Following each summary is staff's recommendation for a final project scope and estimated project cost based on the modifications generally described below.

These project summaries are as follows:

WOODMAN DR. (CSX RAIL BRIDGE TO AIRWAY RD.)

Phase II Elements and Pricing:

•	General Road Condition Improvement -	\$2,010,000
	Lily Creek Bridge Improvement -	\$ 252,000
•	Replace Springfield/Woodman Interchange with At-Grade -	\$4,413,000
•	Multi-use Path -	\$ 793,000
•	Replace/Upgrade Guardrail -	\$ 301,000
	TOTAL	\$7,769,000



WOODMAN DR. (CSX RAIL BRIDGE TO AIRWAY RD.- CONT'D)

Phase III Staff Project Scope Recommendations:

- General Road Condition Improvements Staff review finds modifications to this project scope are limited to improved guardrail material.
- <u>Lily Creek Bridge Improvement</u> After review, staff is recommending this project as a stand-alone project with no change in scope other than improving guardrail materials.
- Replace Springfield/Woodman Interchange with At-Grade This work is recommended only as a stand-alone Project of Opportunity.
- Multi-use Path It is the opinion of staff that this project be considered a stand-alone project with no changes in scope. This opinion is predicated on necessary right-of-way provided gratis by the Department of Defense and Montgomery County.
- Replace/Upgrade Guardrail with most work from this element addressed in previous as a stand-alone project.

Phase III Cost Estimates Based on Staff Recommendations:

	General Road Condition Improvement - Lily Creek Bridge Improvement - Replace Springfield/Woodman Interchange with At-Grade - Multi-use Path -	\$2,114,000 \$ 252,000 \$4,413,000 \$ 563,000 \$ 121,000
•	Replace/Upgrade Guardrail -	\$7,463,000

WOODMAN DR. (AIRWAY Rd. TO US 35)

Phase II Elements and Pricing:

020	General Road Condition Improvement -	\$1,848,000
		\$ 338,000
	Replace/Upgrade Guardrail -	\$2,186,000
	TOTAL	φ2, 100,000

Phase III Staff Project Scope Recommendations:

- General Road Condition Improvements Staff recommends modifications to this project scope to include the use of improved guardrail material and the extension of the safety barrier/concrete median in the 200 block of Woodman Dr.
- Replace/Upgrade Guardrail This project should be incorporated as part of the General Road Condition Improvements.



WOODMAN DR. (AIRWAY RD. TO US 35- CONT'D)

Phase II Elements and Pricing:

	General Road Condition Improvement	\$2,056,000
•	Replace/Upgrade Guardrail -	\$ 0
	TOTAL	\$2.056.000

BEATRICE DR. (SR 201 TO HARSHMAN RD.)

Phase II Elements and Pricing:

•	General Road Condition Improvement -	\$ 499,000
	South Side Sidewalk	\$ 967,000
	Traffic Signal at Harshman Rd, =	\$ 366,000
•	Traffic Signal at SR 201 -	\$ 387,000
	TOTAL	\$2,219,000

Phase III Staff Project Scope Recommendations:

- General Road Condition Improvements No changes in scope are recommended.
- South Side Sidewalk It is staff's opinion that this construction element not be pursued any further.
- Traffic Signal at Harshman Rd. A traffic study at this intersection is currently being schedule to determine the need for this improvement. As such, for the purposes of this memorandum, staff recommends this project be considered a stand-alone project
- Traffic Signal at SR 201 With consideration already being given to the installation of traffic signal at two possible locations on SR 201 in close proximity to this intersection, staff recommends not pursuing this element.

Phase III Cost Estimates Based on Staff Recommendations:

	General Road Condition Improvement -	\$ 499,000
	South Side Sidewalk	\$ 0
•	Traffic Signal at Harshman Rd	\$ 366,000
•	Traffic Signal at SR 201 -	\$ 0
	TOTAL	\$ 865,000



COMMUNITY DR. (SR 202 TO SR 201)

Phase II Elements and Pricing:

General Road Condition Improvement -	\$ 394,000
Traffic Signal & Improved Radii at SR 201 -	\$ 496,000
TOTAL	\$ 890,000

Phase III Staff Recommendations:

- General Road Condition Improvements Staff recommends no modifications in scope.
- Traffic Signal & Improved Radii at SR 201 In lieu of new signal installation being considered at the intersections of SR 201 and Pleasant Valley as well SR 201 and Brantwood, it staff's opinion that this project element should not be considered at this time.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvement -	\$ 394,000
Traffic Signal & Improved Radii at SR 201 -	\$ 0
TOTAL	\$ 394,000

EASTMAN AVE. (WOODMAN DR. TO SPINNING RD.)

Phase II Elements and Pricing:

	General Road Condition Improvements - Improve On-Street Parking from Vinton to Spinning -	\$ 560,000 \$ 742,000
•	TOTAL	\$1,302,000

Phase III Staff Recommendations:

- General Road Condition Improvements No modifications are recommended to the scope of this work as proposed.
- Improve On-Street Parking from Vinton to Spinning In consideration of this element's total expense relative to its impact on the community, staff is recommending to not pursue this project element.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvements -	\$ 560,000
Improve On-Street Parking from Vinton to Spinning -	\$ 0
TOTAL	\$ 560,000



By way of a more generalized, total summary; when project estimates were prepared through the Phase II process to include all aspects of that work which could be included under a major thoroughfare improvement plan for the Group III streets, the cost estimates were calculated as:

➤ Woodman Dr. (CSX Rail Bridge to Airway Rd.):	\$ 7,769,000
➤ Woodman Dr. (Airway Rd to US 35):	\$ 2,186,000
➤ Beatrice Dr. (SR 201 to Harshman):	\$ 2,219,000
➤ Community Dr. (SR 202 to SR 201):	\$ 890,000
Eastman Dr. (Woodman Dr. to Spinning Rd):	\$ 1,302,000
TOTAL	\$14,366,000

Following the Phase III process performed by staff, the above projects can be separated into one of two categories. The first, *General Thoroughfare Improvements Projects*, represents the scope of work which the City would seek to perform through its long-term plan. These projects would be those the City would actively seek to perform and obtain grant funding to support. *Projects of Opportunity* are those that would be driven through an economic development project, when non-transportation grant dollars might be utilized, or when the financial condition of the City allows the project to be undertaken. These two categories now provide project estimates as follows:

General Thoroughfare Improvement Projects:

➤ Woodman Dr. (CSX Rail Bridge to Airway Rd.):	\$ 2,114,000
➤ Woodman Dr. (Airway Rd to US 35):	\$ 2,056,000
➢ Beatrice Dr. (SR 201 to Harshman):	\$ 499,000
➤ Community Dr. (SR 202 to SR 201):	\$ 394,000
Eastman Dr. (Woodman Dr. to Spinning Rd):	\$ 560,000
TOTAL	\$ 5,623,000

Projects of Opportunity:

	Lily Creek/Woodman Dr. Bridge Improvement:	\$ 252,000
A	Replace Springfield/Woodman Interchange with At-Grade:	\$ 4,413,000
	Woodman Dr. Multi-use Path:	\$ 563,000
	Woodman Dr. Replace/Upgrade Guardrail:	\$ 121,000
A	Beatrice/Harshman Traffic Signal:	\$ 399,000
	TOTAL	\$ 5,748,000

You will note that there is a significant change in project cost estimates from those calculated in Phase II and those provided in this Phase III memorandum. While certain reductions are obvious because a project element was outright deleted from the overall project scope, other saving measures occurred in reduction of scope and/or the reduction of duplicate expenses. The duplicate activities being removed or reduced from the projects include such items as surveying, mobilization, and clearing & grubbing.



As we proceed through Phase III of this project, the Engineer will be preparing more detailed project cost estimates in a format similar to those provided for Phase II. Once all four street groupings have been through the Phase III process; a final document with comprehensive cost estimates, generalized project summaries, and potential timeline will be provided to Council. This final, Major Thoroughfare Improvement Plan document should assist Council in further discussion on how to best begin reconstructing and improving the main streets of the City.

Should you have any questions or concerns regarding the information contained within this memorandum, please do not hesitate to contact me.



(LSX TO AIRWAT)

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	LA ARD IN WOODERS GRUNDRING SYSTEM.
(2)	LILY CREEK BRIDGIE REHMIS
	LA NO CHANGE IN SCAPE
	LO ADD IN WOODEN GAURDRAIN SYSTEM.
	LO SEPERATIE, STAND-MONE ROTECT
3	SPRINGFIELD INTERLIFFINGE - TO - GRADIE
	LO NO CHANKER IN SCORES
	LO SEPERATIE, STAND-BLOWE PROTECT
9	BINGWAY CONNECTION FROM HARSHMAN TO AIRWAY
	LO NO CHANKER IN SCOPE
	LO GERMANTE, STEAMS- PROFISET
3	WOODIN GAURD RAIL
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CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 3 NOVEMBER 2014

Preliminary project cost estimates have been developed for the five corridors included in Phase I, Grouping 3. These corridors include Woodman Drive (CSX Rail Bridge to Airway Road), Woodman Drive (Airway Road to U.S. 35), Beatrice Drive (State Route 201 to Harshman Road), Community Drive (State Route 202 to State Route 201) and Eastman Avenue (Woodman Drive to Spinning Road). A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

WOODMAN DRIVE (CSX RAIL BRIDGE TO AIRWAY ROAD)

TASK	ESTIMATED COST
General Road Condition Improvement This includes a general rehab including mill and overlay, an estimated quantity of full depth pavement repair, limited storm sewer replacement and catch basin repair and replacement of the median concrete barrier.	Construction Cost-\$2,010,000
Improve Lily Creek Bridge This includes rehabilitation of the superstructure and replacement of guardrail and anchor assemblies.	Construction Cost- \$252,000
Replacement of the Interchange with At-Grade Intersection This includes the removal of the grade separated interchange with Springfield Street and construction of an at-grade intersection.	Construction Cost- \$4,413,000
Multi-use path This includes the construction of a multi-use path connecting Old Harshman Road with Airway Road.	Construction Cost- \$563,000 R/W Acquisition - \$230,000
Replace Guardrail with Alternate Materials Replacement of guardrail with a more aesthetic materials	Construction Cost- \$301,000
TOTAL WOODMAN DRIVE (CSX RAIL BRIDGE TO AIRWAY ROAD)	\$7,769,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.



WOODMAN CSX BRIDGE TO AIRWAY REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	П	UNIT COST	Г	TOTAL COST	1
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00	1
203	DITCH GRADING	10000 LF	\$	6.00	\$		-8
252	FULL DEPTH PAVEMENT REPAIR	3000 SY	\$	50.00	\$	150,000.00	
254	PAVEMENT PLANING, ASPHALT CONCRETE	54000 SY	\$	2.50	\$	135,000.00	
407	TACK COAT	8000 GAL	\$	3.00	\$	24,000.00	
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	3000 CY	\$	175.00	\$	525,000.00	1
603	15" CONDUIT, TYPE B	1000 FT	\$	50.00	\$	50,000.00	1
604	CATCH BASIN REBUILT	15 EA	\$	3,000.00	\$	45,000.00	1
606	GUARDRAIL	2000 LF	\$	15.00		30,000:00	100,000
606	ANCHOR ASSEMBLY	2 EA	\$	1,500.00	\$	3,000.00	1
622	CONCRETE BARRIER 6"	3000 FT	\$	25.00	\$	75,000.00	1
622	CONCRETE BARRIER, 50"	3800 FT	\$	40.00	\$	152,000.00	1
644	PAVEMENT MARKINGS	1 LS	\$	8,000.00	\$	8,000.00	1
832	SWPPP	1 LS	\$	3,500.00	\$	3,500.00	1
832	EROSION CONTROL	3500 EA	\$	1.00	\$	3,500.00	1
			1/2	X 100 X 100 X	\$88K	the Diversity of	
				Subtotal	\$	1,269,000.00	1,339,
un in a		e en en en en en en en		Z. 3955602	100		Clary
614	MAINTAINING TRAFFIC	1 LS	\$	30,000.00	\$	30,000.00	
619	FIELD OFFICE, TYPE B	6 MN	\$	1,500.00	\$	9,000.00	
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	4,500.00	\$	4,500.00	
324	MOBILIZATION	1 LS	\$	40,000.00	\$	40,000.00	
2 Hotel	的情况的是一个人的人,但是一个人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的		2	Sugar Andrews		WATER STREET	
		11 11 11 11 11		Subtotal	\$ -	1,353,000.00	1,423
ALC: NO					Me.		5.77
		Des	ign	Risk (35%)	\$	474,000.00	498,

1,921,4

4113,3

192,2

Design Risk (35%) \$ 474,000.00 Subtotal

ENGINEERING (10%) 183,000,00

Total \$ -2,010,000:00



WOODMAN CSX TO AIRWAY STRUCTURE REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

1	TOTAL COST	Т	UNIT COST		QUANTITY	DESCRIPTION	ITEM			
	5,000.00	\$	5,000.00	\$	1 LS	CLEARING AND GRUBBING	201			
	12,000.00	\$	<40.00b	\$	300 EI>	GUARDRAIL	606			
	3,000.00	\$	3,000.00	\$	1 EA	ANCHOR ASSEMBLY	606			
	8,000.00	\$	80.00	\$	100 LF	GUARDRAIL DOUBLE PAILS - WOODEN KAILS	606			
	100,000.00	\$	100,000.00	\$	1 LS					
	4,500.00	\$	4,500.00	\$	1 LS	SWPPP	832			
	3,500.00	\$	1.00	\$	3500 EA	EROSION CONTROL				
į						approximately and the second second	AS HOW			
	-136,000.0 0	\$	Subtotal				200000000000000000000000000000000000000			
	15,000.00	\$_	15,000.00	\$	1 LS	MAINTAINING TRAFFIC	614			
-	9,600.00	\$	1,600.00	\$	6 MN	FIELD OFFICE, TYPE B	619			
	3,500.00	\$	3,500.00	\$	1 LS	CONSTRUCTION LAYOUT STAKES	623			
	4,000.00	\$_	4,000.00	\$	1 LS	MOBILIZATION				
	460,000:00	\$_	Subtotal				= 72			
		_								
	60,000.00	\$		Design Risk (35%) Subtotal						
		œ.	Subtotal							
	-229,000:00	Ψ	CHRISTIA							
		Ψ	HK		=1.00.0					
	23,000.0 0 23,000.0 0 252,000.0 0	\$	RING (10%)	EEF	ENGINI	is the second se				



WOODMAN CSX TO AIRWAY INTERCHANGE REMOVAL CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$10,000	\$10,00
202	PAVEMENT REMOVED, ASPHALT	16000 SY	\$10	\$160,00
202	CATCH BASIN OR INLET REMOVED	5 EA	\$350	\$1,75
203	EXCAVATION	25000 CY	\$15	\$375,00
203	EMBANKMENT	5000 CY	\$12	\$60,00
204	SUBGRADE COMPACTION	8000 SY	\$2	\$16,00
254	PAVEMENT PLANING, ASPHALT CONCRETE	250 SY	\$3	\$62
301	ASPHALT CONCRETE BASE, PG64-22, 6"	1500 CY	\$125	\$187,50
304	AGGREGATE BASE, 10"	2500 CY	\$40	\$100,000
407	TACK COAT	1200 GAL	\$3	\$3,600
448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22, 1.5"	400 CY	\$200	\$80,000
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 1.5"	400 CY	\$200	\$80,000
603	15" CONDUIT, TYPE B	2000 FT	\$50	\$100,000
604	CATCH BASIN	8 EA	\$2,500	\$20,000
604	MANHOLE, NO. 3	4 EA	\$3,000	\$12,000
608	CURB	2000 LF	\$20	\$40,000
SPECIAL	STRUCTURE REMOVED	1 LS	\$750,000	\$750,000
632	TRAFFIC SIGNAL	1 LS	\$250,000	\$250,000
632	TRAFFIC SIGNAL REMOVED	2 LS	\$25,000	\$50,000
644	PAVEMENT MARKINGS	1 LS	\$10,000	\$10,000
659	TOPSOIL	500 CY	\$25	\$12,500
659	SEEDING AND MULCHING	5000 SY	\$2	\$10,000
832	SWPPP	1 LS	\$5,000	\$5,000
832	EROSION CONTROL	7500 EA	\$1	\$7,500
FE 185			Subtotal	\$2,342,000
	MAINTAINING TRAFFIC	1 LS	\$500,000	\$500,000
	FIELD OFFICE, TYPE B	12 MN	\$1,600	\$19,200
	CONSTRUCTION LAYOUT STAKES	1 LS	\$9,000	\$9,000
624	MOBILIZATION	1 LS	\$100,000	\$100,000
90.53	14.1 (1.1) (1.1) (1.1) (1.1) (1.1) (1.1) (1.1) (1.1) (1.1) (1.1) (1.1) (1.1) (1.1)			
No. of the second		95305370J (NG350)	Subtotal	\$2,971,000
- VIII	The second secon	Desig	n Risk (35%)	\$1,040,000
			Subtotal	\$4,011,000
		ENGINE	ERING (10%)	\$402,000
			Total	\$4,413,000
		(250) E. H. 1965	E MARKET NO	1 22 2 1 2 2 2 3

Notes:

- Existing pavement is assumed to be full depth asphalt
 Pavement widening is assumed to be full depth asphalt
 Utility relocation not included



WOODMAN CSX TO AIRWAY BIKEWAY CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST		
201	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,000		
202	PAVEMENT REMOVED, ASPHALT	100 SY	\$8	\$800		
203	EXCAVATION	1000 CY	\$15	\$15,000		
203	EMBANKMENT	1000 CY	\$12	\$12,000		
204	SUBGRADE COMPACTION	3000 SY	\$2	\$6,000		
304	AGGREGATE BASE, 10"	500 CY	\$40	\$20,000		
448	ASPHALT CONCRETE, TYPE 1, PG64-22, 3"	300 CY	\$250	\$75,000		
603	15" CONDUIT, TYPE B	200 FT	\$50	\$10,000		
604	CATCH BASIN	5 EA	\$2,500	\$12,500		
604	MANHOLE, NO. 3	2 EA	\$3,000	\$6,000		
608	CURB	300 LF	\$20	\$6,000		
609	CONCRETE BARRIER	100 LF	\$20	\$2,000		
SPECIAL	STRUCTURE WIDENING	1 LS	\$150,000	\$150,000		
644	PAVEMENT MARKINGS	1 LS	\$2,000	\$2,000		
659	TOPSOIL	500 CY	\$25	\$12,500		
659	SEEDING AND MULCHING	2000 SY	\$2	\$4,000		
832	SWPPP	1 LS	\$5,000	\$5,000		
832	EROSION CONTROL	4500 EA	\$1	\$4,500		
	NORTH THE PROPERTY OF THE PROP		A Parameter St.			
Service Constant Con-			Subtotal	\$349,000		
1001400			9000			
614	MAINTAINING TRAFFIC	1 LS	\$10,000	\$10,000		
619	FIELD OFFICE, TYPE B	6 MN	\$1,600	\$9,600		
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$4,500	\$4,500		
624	MOBILIZATION	1 LS	\$4,000	\$4,000		
		1. 10 P. 10 P. 10 P. 12	0.11-1-1	6070.000		
		7774	Subtotal	\$378,000		
		Des	ign Risk (35%)	\$133,000		
			Subtotal	\$511,000		
			(Visite States	\$52,000		
ENGINEERING (10%)						

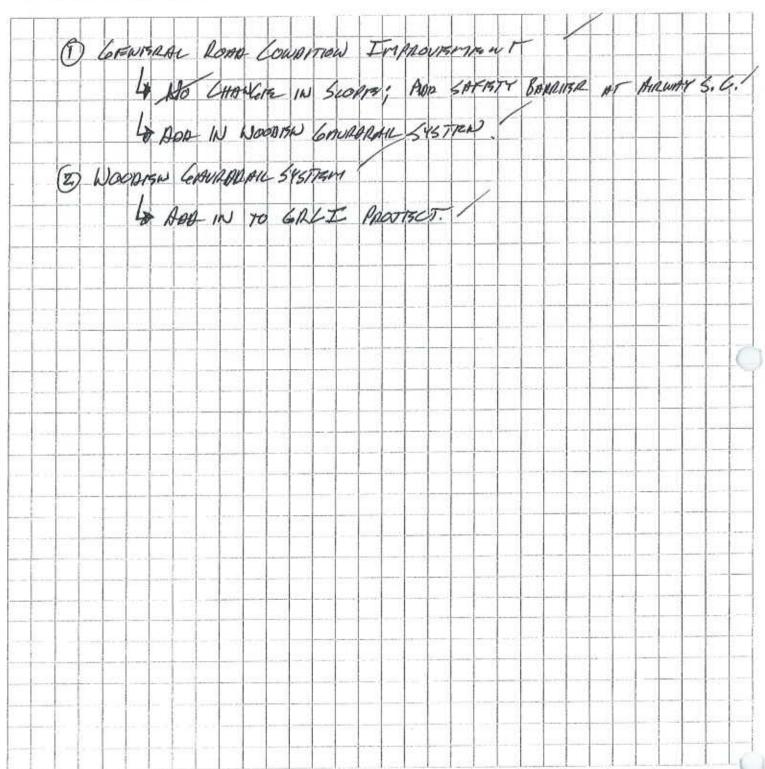


WOODMAN CSX BRIDGE TO AIRWAY GUARDRAIL UPGRADE TO WOOD CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

1100	1 LS	\$	5,000.00	0		-
1100	2500 15		0,000.00	\$	5,000.00	1
	-3500-LF	\$	50.00	\$	_175,000.00	
	1 LS	\$	2,500.00	\$	2,500.00	
	1500 EA	\$	1.00	\$	1,500.00	1
				11/2	A CONTRACTOR	1
			Subtotal	\$	184,000. 00	69
					China Carrie	1 "
	1 LS	\$	7,500.00	\$	7,500.00	
	3 MN	\$	1,500.00	\$	4,500.00	
S	1 LS	\$	1,200.00	\$	1,200.00	
	1 LS	\$	4,000.00	\$	4,000.00	
			Subtotal	\$	202,000.00	81,
		经				100
	De	sign	Rlsk (35%)	\$	- 71,000. 00	22
		DESCRIPTION OF	Subtotal	\$	273,000. 00	109,
	SECTION SECTION			開	250	
	ENGIN	IEER	ING (10%)	\$	28,000 .00	MP
			Total	\$	301,000.00	120
	S	1 LS 3 MN S 1 LS 1 LS	1 LS \$ 3 MN \$ 5 1 LS \$ 1 LS \$ 1 LS \$	Subtotal 1 LS \$ 7,500.00 3 MN \$ 1,500.00 S 1 LS \$ 1,200.00 1 LS \$ 4,000.00 Subtotal Design Rlsk (35%) Subtotal ENGINEERING (10%)	Subtotal \$ 1 LS \$ 7,500.00 \$ 3 MN \$ 1,500.00 \$ 1 LS \$ 1,200.00 \$ 1 LS \$ 4,000.00 \$ Subtotal \$ Design Rlsk (35%) \$ Subtotal \$ ENGINEERING (10%) \$	Subtotal \$ \frac{184,000.00}{184,000.00}\$ 1 LS \$ 7,500.00 \$ 7,500.00 3 MN \$ 1,500.00 \$ 4,500.00 S 1 LS \$ 1,200.00 \$ 1,200.00 1 LS \$ 4,000.00 \$ 4,000.00 Subtotal \$ \frac{202,000.00}{202,000.00}\$ Design Rlsk (35%) \$ \frac{-74,000.00}{273,000.00}\$ ENGINEERING (10%) \$ \frac{28,000}{28,000}.00



WOODMAN (AIRWAY TO US 35)



Indianapolis: 317-762-9300



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 3 NOVEMBER 2014

WOODMAN DRIVE (AIRWAY ROAD TO U.S. 35)

TASK	ESTIMATED COST
General Road Condition Improvement This includes pavement surface rehabilitation, drainage and storm sewer improvements as well as upgrades in the right of way at the northeast corner of the Woodman / U.S. 35 interchange. Street trees are included in the median. This work may be coordinated with the ODOT SPUI project, but that coordination has little effect on the cost.	Construction Cost- \$1,848,000
Replace Guardrail with Alternate Materials Replacement of guardrail with a more aesthetic materials	Construction Cost- \$338,000
TOTAL WOODMAN DRIVE (AIRWAY ROAD TO U.S. 35)	\$2,186,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.



WOODMAN AIRWAY TO 35 REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY		UNIT COST	1	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
202	CURB REMOVED	1000 LF	\$	6.00	\$	6,000.00
203	MEDIAN REMOVED	1200 SY	\$	6.00	\$	7,200.00
203	DITCH GRADING	8000 LF	\$	6.00	\$	48,000.00
252	FULL DEPTH PAVEMENT REPAIR	3000 SY	\$	50.00	\$	150,000.00
254	PAVEMENT PLANING, ASPHALT CONCRETE	55000 SY	\$	2.50	\$	137,500.00
407	TACK COAT	8000 GAL	\$	3.00	\$	24,000.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	3000 CY	\$	175.00	\$	525,000.00
603	15" CONDUIT, TYPE B	1000 FT	\$	50.00	\$	50,000.00
609	CONCRETE CURB	1000 LF	\$	15.00	\$	15,000.00
609	CONCRETE MEDIAN	1200 SY	\$	25.00	\$	30,000.00
604	CATCH BASIN REBUILT	20 EA	\$	3,000.00	\$	60,000.00
606	GUARDRAIL WOODERW	4000 LF	\$	50 4 5:0 0	\$	-60,000.00
606	ANCHOR ASSEMBLY	8 EA	\$	1,500.00	\$	12,000.00
622	CONCRETE BARRIER 6"	FT	\$	25.00	\$	•
622	CONCRETE BARRIER, 50"	FT	\$	40.00	\$	-
PECIAL	STREET TREES	125 EA	\$	120.00	\$	15,000.00
644	PAVEMENT MARKINGS	1 LS	\$	8,000.00	\$	8,000.00
832	SWPPP	1 LS	\$	3,500.00	\$	3,500.00
832	EROSION CONTROL	3500 EA	\$	1.00	\$	3,500.00
002 002	TENEDICATION OF THE PROPERTY O	Sulle part Asia	Wal.			
			STOR	Subtotal	\$	1,160,000.00
614	MAINTAINING TRAFFIC	1 LS	\$	30,000.00	\$	30,000.00
619	FIELD OFFICE, TYPE B	6 MN	\$	1,500.00	\$	9,000.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	4,500.00	\$	4,500.00
624	MOBILIZATION	1 LS	\$	40,000.00		40,000.00
2 2 2 2 2 E E	Investment of the second	(4.45.00 Mg)	2			
				Subtotal	\$	1,244,000.00°
		AV TO SEE SEE	al o	a filling a solution	488	Milde Co.
	WERNES THE STATE OF THE STATE O	De	sigr	Risk (35%)	\$	4 30,000:0 0
CONTRACTOR OF THE PARTY OF THE			000000	Subtotal	\$	1,680,000:00
多人的		ENGIN	1EE	RING (10%)	\$	468,000,00
					\$_	4,849,000.00

00,00

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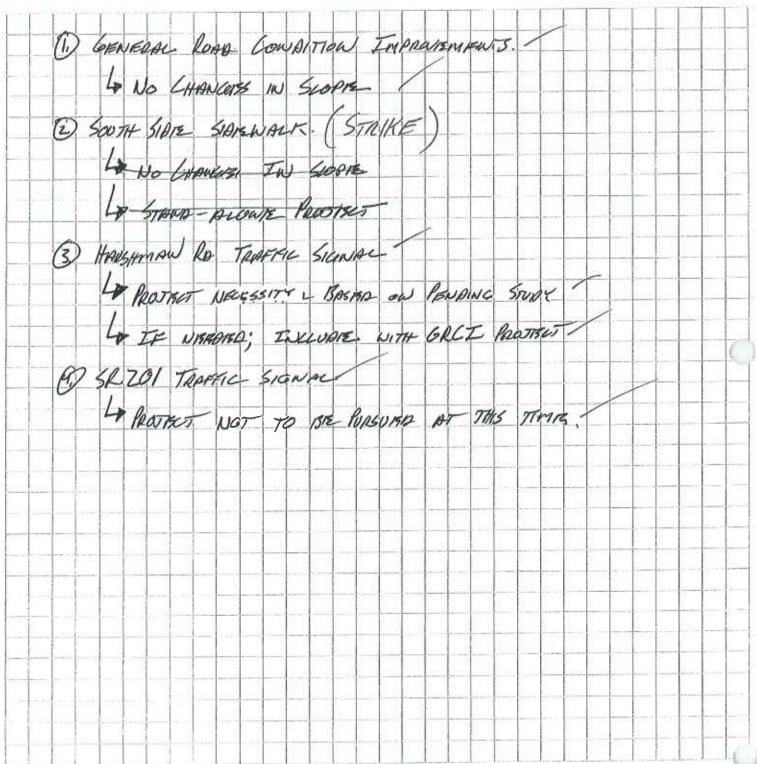
WOODMAN AIRWAY TO 35 GUARDRAIL UPGRADE TO WOOD CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	T	JNIT COST		TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$	5,000.00	\$	5,000.00
606	GUARDRAIL, WOODEN	4000 LF	\$	50.00	\$	200,000.00
832	SWPPP	1 LS	\$	2,500.00	\$	2,500.00
832	EROSION CONTROL	1500 EA	\$	1.00	-	1,500.00
32.3						
100000A419500				Subtotal	\$	209,000.00
						MAR PERM
614	MAINTAINING TRAFFIC	1 LS	\$	7,500.00	\$	7,500.00
619	FIELD OFFICE, TYPE B	3 MN	\$	1,500.00	\$	4,500.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$	1,200.00	\$	1,200.00
624	MOBILIZATION /	1 LS	\$	4,000.00	\$	4,000.00
- HULLION HAN				Subtotal	\$	227,000.00
AL PROPERTY.						
		Des	sign I	Risk (35%)	\$	80,000.00
				Subtotal	\$	307,000.00
Sections					43	
	FA.	ENGIN	EER	ING (10%)	\$	31,000.00
4 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SERVICE CONTRACTOR CON			Total	\$	338,000.00
			H S AC	100000000000000000000000000000000000000	NE.	WAS ASSESSED.



Cincinnati: 513-891-2010

BEMPILIE





CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 3 NOVEMBER 2014

BEATRICE DRIVE (STATE ROUTE 201 TO HARSHMAN ROAD)

TASK	ESTIMATED COST
General Road Condition Improvement This includes the mill and resurface of the length of Beatrice Drive. Some full depth pavement repair is included to address failing locations. Storm infrastructure is included at the intersections with State Route 201 and Harshman Road. Establishing a defined ditchline was not included in the estimate due to the high costs and impacts on driveways including the construction of culverts and private property.	Construction Cost - \$499,000
South Side Sidewalk This includes the construction of a five foot wide sidewalk on the south side of the road to connect bus stops at SR 201 and Harshman Road.	Construction Cost- \$377,000 R/W Acquisition - \$590,000
Harshman Road Traffic Signal This includes the construction of a mast arm traffic signal at the intersection of Beatrice and Harshman.	Construction Cost- \$341,000 R/W Acquisition - \$25,000
State Route 201 Traffic Signal This includes the construction of a mast arm traffic signal at the intersection of Beatrice and State Route 201. No new right of way is anticipated.	Construction Cost- \$387,000
TOTAL BEATRICE DRIVE (S.R. 201 TO HARSHMAN ROAD)	\$2,219,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.



BEATRICE DRIVE REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,000
201	DITCH GRADING	7000 LF	\$8	\$56,000
203	FULL DEPTH PAVEMENT REPAIR	500 SY	\$50	\$25,000
252	PAVEMENT PLANING, ASPHALT CONCRETE	9500 SY	\$3	\$23,750
254	TACK COAT	1500 GAL	\$3	\$4,500
407	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	550 CY	\$175	\$96,250
603	15" CONDUIT, TYPE B	800 FT	\$75	\$60,000
604	CATCH BASIN	6 EA	\$3,000	\$18,000
	MANHOLE	3 LF	\$3,500	\$10,500
604	PAVEMENT MARKINGS	1 LS	\$2,500	\$2,500
644	SWPPP	1 LS	\$2,500	\$2,500
832 832	EROSION CONTROL	1500 EA	\$1	\$1,500
TALLE .			Subtotal	\$306,000
Salatine.	THE RESIDENCE OF THE PARTY OF T	1 LS	\$10,000	\$10,000
614	MAINTAINING TRAFFIC	4 MN	\$1,500	\$6,000
619	FIELD OFFICE, TYPE B	1 LS	\$2,500	\$2,500
623	CONSTRUCTION LAYOUT STAKES MOBILIZATION	1 LS	\$10,000	\$10,000
624	WOBILIZATION		Subtotal	\$335,000
		Des	sign Risk (35%)	\$118,00
			Subtotal	\$453,00
MARKE.		ENGIN	EERING (10%)	\$46,00
			Total	\$499,00



BEATRICE DRIVE SIDEWALK CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$10,000	\$10,000
203	EXCAVATION	650 CY	\$15	\$9,750
203	EMBANKMENT	500 CY	\$20	\$10,000
204	SUBGRADE COMPACTION	5000 SY	\$2	\$10,000
304	AGGREGATE BASE, 6"	800 CY	\$60	\$48,000
603	15" CONDUIT, TYPE B	100 FT	\$75	\$7,500
608	SIDEWALK	18000 SF	\$6	\$108,000
659	TOPSOIL	200 CY	\$35	\$7,000
659	SEEDING AND MULCHING	3000 SY	\$2	\$6,000
832	SWPPP	1 LS	\$5,000	\$5,000
832	EROSION CONTROL	2500 EA	\$1	\$2,500
200				1000
			Subtotal	\$224,000
			ATE OF THE CHESTER IN	TO THE RESERVE
614	MAINTAINING TRAFFIC	1 LS	\$10,000	\$10,000
619	FIELD OFFICE, TYPE B	6 MN	\$1,600	\$9,600
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$4,500	\$4,500
624	MOBILIZATION	1 LS	\$4,000	\$4,000
			Subtotal	\$253,000
		Desi	gn Risk (35%)	\$89,000
COMPOSITION AND IN			Subtotal	\$342,000
	是2000年的1月1日,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,1975年,19	Tax 1000000000000000000000000000000000000		
		ENGINE	ERING (10%)	\$35,000
2017			Total	\$377,000

BEATRICE SIGNAL CITY OF RIVERSIDE PRELIMINARY RIGHT OF WAY ESTIMATE - NOVEMBER 2014

Commonts	TEMPORARY RW & COST TO CURE NOT CONSIDERED								
Cost to									
Sub-Total Cost	\$289,327	808	SC	SO	SC	200			
Cost: Relocation									
Cost	90	0\$	80	30	30	SO			
Cost: Fee Simple	\$289,327								
Labor	\$286,400	100000000000000000000000000000000000000							
Area: Temporary									
Structure Area of Area: Fee Area: Impact Take (SF) Simple Temporary	0.034					ľ			
Area of Take (SF)	1500	10000		35					
Structure	ON.		V						
ACREAGE (ACRES)	1,000								
Total	\$85,000	The second				No.			
Structure									
Land Value	\$85,000								
Land Use Land Value Value	VARIOUS								
Number of Parcels	32								

-	42	-
* Labor Cost Includes the following:	(per ODOT Cost Estimating Procedure	For Acquiring Rights of Way)

[(sub-total)x0.15)x1.20 [(sub-total)x0.10)x1.50 [(sub-total)x0.90)x0.025

Administrative Costs
Jury trial Costs
Incidental transfer Costs
All areas are in acres.

8

20

8

728,6822

Sub-Totals

\$52,078 \$52,078 \$43,399 \$5,510 \$191,115 \$195,657 \$586,972

Closings Appraisal Negotiation
Review S2,000 S1,100 Detailed Appraisal

Estimated Cost Contingency (50%) TOTAL COST

Project Management \$550

\$400 Tibles

1 Existing RAW estimated using GIS parcel tines, where available
2 Where RAW cannot be easily estimated from GIS parcels, existing RAW is assumed to be 1' behind walk
3 Proposed permanent RAW is assumed to be 1' behind proposed walk
4 Rallroad property estimated at 10 times the per acre land value



BEATRICE DRIVE SIGNAL AT HARSHMAN CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	T	UNIT COST	Γ.	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	+		-	
632	TRAFFIC SIGNAL INSTALLATION		\$	5,000.00	\$	5,000.0
		1 EA	\$	200,000.00	\$	200,000.0
644	PAVEMENT MARKINGS	1 LS	\$	2,500.00	\$	2,500.0
832	SWPPP	1 LS	\$	1,500.00	\$	1,500.0
832	EROSION CONTROL	800 EA	\$	1.00	\$	800.0
Service 1						
				Subtotal	\$	210,000.00
			1			
614	MAINTAINING TRAFFIC	1 LS	\$	7,500.00	\$	7,500.00
619	FIELD OFFICE, TYPE B	3 MN	\$	1,600.00	\$	4,800.00
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$		\$	2,500.00
624	MOBILIZATION	1 LS	\$	4,000.00	-	4,000.00
			35 M	100 100 100 100	1510	
				Subtotal	\$	229,000.00
				STATE STATE	NO.	(239)
11000		De	sian	Risk (35%)	\$	81,000.00
Subtotal						
West 1985			16 N. S		\$	310,000.00
		ENGIN	FFF	RING (10%)	\$	31,000.00
		LIVOIIV		Total	\$	
Marie S		ENGLISH DATE OF STREET	Later C	IOIGI	Φ	341,000.00

NEW MAST ARM SIGNAL

BEATRICE SIGNAL GTY OF RIVERSIDE PRELIMINARY RISHT OF WAY ESTIMATE - NOVEMBER 2014

Comments			TEMPORARY RAW & COST TO	CURE NOT CONSIDERED			S
Cost to							
Sub-Total Cost	\$11,877	23	28	23	8	S	\$11,877 \$2,138 \$1,782 \$287 \$16,064 \$8,032 \$24,085
Relocation Sub-Total							8
Cost	28	8	80	S	200	CS SO	a
Cost: Fee Simple	\$11,877						\$11,877
Labor	\$8.950			100			
Area: Temporary							Sub-Totals Estimated Cost Confingency (50%) TOTAL COST
Structure Area of Area: Fee Area: Impact Take (SF) Simple Temporary	0.004						18 E
Area of Take (SF)	1500						
	ON.						
ACREAGE (ACRES)	1.000						25. 520. 525.
Tobi	\$85,000						[{sub-total)x0.15]x1.20 [[sub-total)x0.10]x1.50 [{sub-total)x0.90]x0.025
Structure							
Land Use Land Value Structure	\$85,000						ninistrative Costs viral Costs dental transfer Costs areas are in acres.
Land Use	VARIOUS						Administrative Costs Jury trial Costs Incidental transfer Costs All areas are in acres.
Number of Parcels							

Tibles	SAMO
* Labor Cost Includes the following: (per ODOT Cost Estimating Procedures	For Acquaining Kights of Way)

	Project Management	\$550
4 6	Closings	8400
Estimated Cost Contingency (50%) TOTAL COST	Negotiation	\$1,100
ш 8 г	Detailed Appraisal Review	\$2,000
	Detailed Appraisal	\$4,500
	Titles	8400
10	&	

Notes;
1 Existing RAV estimated using GIS parcel times, where available
2 Where RAV cannot be easily estimated from GIS parcels, existing RAV is assumed to be 1' behind walk
2 Proposed permanent RAVI is assumed to be 1' behind proposed walk
4 Railroad property estimated at 10 times the per acre land value



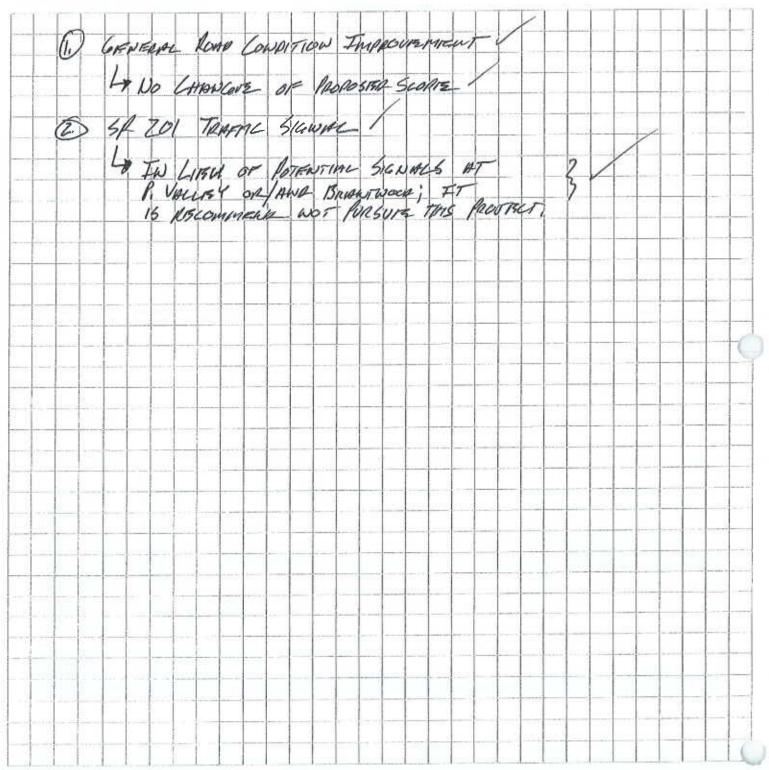
BEATRICE DRIVE SIGNAL AT 201 CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST	
201	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,00	
202	PAVEMENT REMOVED, ASPHALT	150 SY	\$15	\$2,25	
202	CATCH BASIN OR INLET REMOVED	1 EA	\$750	\$75	
203	EXCAVATION	50 CY	\$15	\$75	
203	EMBANKMENT	10 CY	\$12	\$12	
204	SUBGRADE COMPACTION	25 SY	\$5	\$12	
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	SY	\$6	\$	
301	ASPHALT CONCRETE BASE, PG64-22, 6"	10 CY	\$200	\$2,00	
304	AGGREGATE BASE, 10"	10 CY	\$80	\$80	
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	5 CY	\$250	\$1,25	
603	15" CONDUIT, TYPE B	50 FT	\$50	\$2,50	
604	CATCH BASIN	1 EA	\$4,000	\$4,000	
604	MANHOLE, NO. 3	1 EA	\$5,000	\$5,000	
630	SIGNAGE	1 LS	\$2,500	\$2,500	
632	SIGNAL	1 LS	\$200,000	\$200,000	
644	PAVEMENT MARKINGS	1 LS	\$5,000	\$5,000	
659	TOPSOIL	10 CY	\$25	\$250	
659	SEEDING AND MULCHING	50 SY	\$2	\$100	
832	SWPPP	1 LS	\$2,500	\$2,500	
832	EROSION CONTROL	1500 EA	\$1	\$1,500	
				SEC. 10.00	
			Subtotal	\$237,000	
614	MAINTAINING TRAFFIC	1 LS T	\$8,000	\$8,000	
619	FIELD OFFICE, TYPE B	6 MN	\$1,600	\$9,600	
	CONSTRUCTION LAYOUT STAKES	1 LS	\$4,500	\$4,500	
624	MOBILIZATION	LS	\$10,000	\$0	
Page 17	15/40次(A) 20 20 20 20 20 20 20 20 20 20 20 20 20		NAME OF THE PARTY	A STATE OF THE STA	
			Subtotal	\$260,000	
Design Risk (35%) Subtotal					
		ENGINE	ERING (10%)	\$36,000	



Cincinnati: 513-891-2010

LOMMUNITY





CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 3 NOVEMBER 2014

COMMUNITY DRIVE (STATE ROUTE 201 TO STATE ROUTE 202)

TASK	ESTIMATED COST
General Road Condition Improvement This includes the mill and resurface of the Community Drive pavement. Some full depth pavement repair is included to address failing locations. Limited storm sewer replacements are included. Establishing a defined ditchline was not included in the estimate due to the high costs and impacts on driveways including the construction of culverts and private property.	Construction Cost- \$394,000
State Route 201 Traffic Signal and Radius Upgrade A traffic signal, dependent on the necessity of a signal at the Pleasant Valley / SR 201 intersection, is included along with turning radius upgrades.	Construction Cost- \$469,000 R/W Acquisition - \$27,000
TOTAL COMMUNITY DRIVE (SR 201 TO SR 202)	\$890,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.



COMMUNITY DRIVE REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,000
203	DITCH GRADING	5000 LF	\$15	\$75,000
252	FULL DEPTH PAVEMENT REPAIR	350 SY	\$60	\$21,000
254	PAVEMENT PLANING, ASPHALT CONCRETE	7000 SY	\$3	\$17,500
407	TACK COAT	1200 GAL	\$5	\$6,000
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	400 CY	\$225	\$90,000
603	15" CONDUIT, TYPE B	100 FT	\$75	\$7,500
604	CATCH BASIN	2 EA	\$3,000	\$6,000
644	PAVEMENT MARKINGS	1 LS	\$3,500	\$3,500
832	SWPPP	1 LS	\$2,500	\$2,500
832	EROSION CONTROL	1500 EA	\$1	\$1,500
NEW 2				
7-10-1-11		Constitution of the consti	Subtotal	\$236,000
VSS 1			210 000 T	040.000
614	MAINTAINING TRAFFIC	1 LS	\$10,000	\$10,000
619	FIELD OFFICE, TYPE B	4 MN	\$1,500	\$6,000
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$2,500	\$2,500
624	MOBILIZATION	1 LS	\$10,000	\$10,000
100		Sassina	Subtotal	\$265,000
DESCRIPTION OF THE PARTY OF THE		THE SHAPE	Gustotai	Ψ200,000
	The state of the s	Des	ign Risk (35%)	\$93,000
		500	Subtotal	\$358,000
KTO H WK		No control of the same		
PARTY NAMED IN		ENGINE	ERING (10%)	\$36,00
			Total	\$394,000
EISTRUMEN		William Co. Sand		



COMMUNITY DRIVE SIGNAL AND RADIUS AT 201 CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,00
202	PAVEMENT REMOVED, ASPHALT	150 SY	\$10	\$1,50
202	CATCH BASIN OR INLET REMOVED	EA	\$350	\$
203	EXCAVATION	60 CY	\$20	\$1,20
203	EMBANKMENT	10 CY	\$30	\$30
204	SUBGRADE COMPACTION	125 SY	\$4	\$50
254	PAVEMENT PLANING, ASPHALT CONCRETE	600 SY	\$5	\$3,00
301	ASPHALT CONCRETE BASE, PG64-22, 6"	30 CY	\$250	\$7,50
304	AGGREGATE BASE, 10"	40 CY	\$80	\$3,20
407	TACK COAT	100 GAL	\$5	\$50
448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22, 1.5"	30 CY	\$350	\$10,500
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, 1.5"	30 CY	\$350	\$10,500
632	TRAFFIC SIGNAL	1 EA	\$225,000	\$225,000
644			\$3,500	\$3,500
659	TOPSOIL	25 CY	\$25	\$625
659	SEEDING AND MULCHING	225 SY	\$2	\$450
832	SWPPP	1 LS	\$3,500	\$3,500
832	EROSION CONTROL	2500 EA	\$1	\$2,500
	The state of the last section of the		Subtotal	\$280,000
1926		White the same		
614	MAINTAINING TRAFFIC	1 LS	\$10,000	\$10,000
619	FIELD OFFICE, TYPE B	6 MN	\$1,600	\$9,600
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$4,500	\$4,500
624	MOBILIZATION	1 LS	\$4,000	\$10,000
			Subtotal	\$315,000
West State				
		Desig	gn Risk (35%)	\$111,000
and the second		elitoportes di passa	Subtotal	\$426,000
WE CAN		ENOME	EDINO (400)	040.000
		ENGINE	ERING (10%)	\$43,000
Salar de Alla	According to the Control of the Cont		Total	\$469,000

COMMUNITY SIGNAL
CITY OF RIVERSIDE
PRELIMINARY RIGHT OF WAY ESTRATE - NOVEMBER 2014

Comments			TEMPORARY RAW & COST TO	CURE NOT CONSIDERED		
Cost to						
Sub-Total Cost	\$13,254	20	80	8	80	\$0
Relocation			100	4		
Cost	\$00	80	80	\$0	- \$0	SS
Costt Fee Costt Relocation S	\$13,254					
Labor	\$8,950					
Area: Temporary						
Structure Area of Area: Fee Area: Impact Take (SF) Simple Temporary	0.034					
Area of Take (SF)	1500					
Structure	욧					
TOTAL S ACREAGE (ACRES)	1,000					
Total	\$125,000					
Structure						
Land Value	\$125,000					
Structure Structure Value	VARIOUS					
Number of Parcels	1					

8

8

8

\$12,254

Sub-Totals

\$13,254 \$2,386 \$1,988 \$298 \$17,927 \$8,963

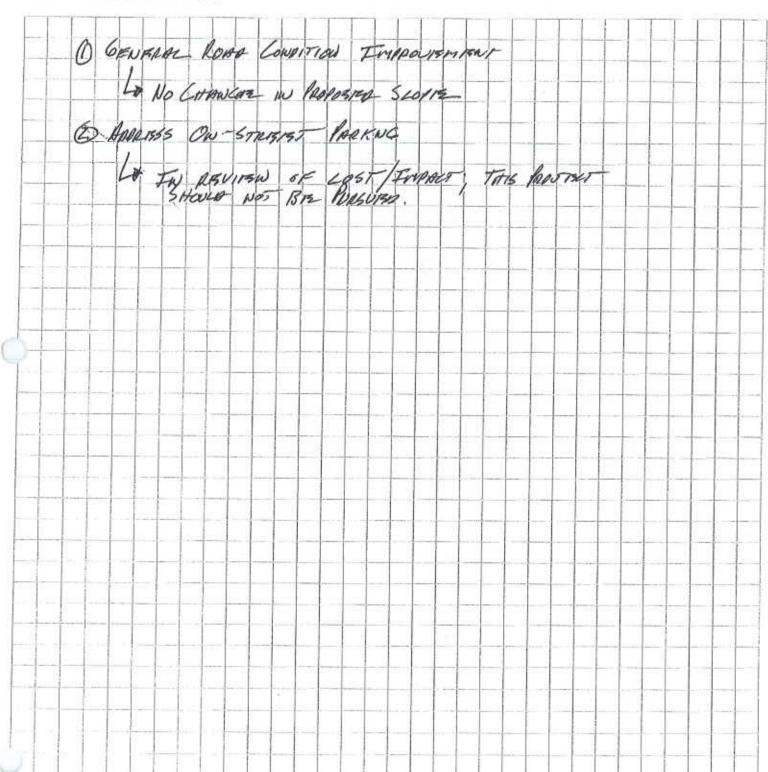
		t
	Detailed Appreisal	\$4.500
((sub-total)x0.16)x1.20 ((sub-total)x0.10)x1.50 (sub-total)x0.60)x11.025	Tiges	8400
Administrative Costs [(sub Jury trial Costs [(sub Incidental transfer Costs [(pub All areas are in acres.	* Labor Cost Includes the following: (per ODOT Cost Estimating Procedures	For Acquiring Rights of Way)

	Project Management	\$550
9 tt	Closings	\$400
Estimated Cost Contingency (50%) TOTAL COST	Negotiation	\$1,100
₩ 8 °	Appraisal Review	\$2,000
	Detailed Approisal	\$4,500
	Tibles	8400
'	Ser Ser	_

Notes:
1 Existing RWV estimated using GIS parcel lines, where available
2 Where RWV cannot be easily estimated from GIS parcels, existing RWV is assumed to be 1' behind walk
3 Proposed permanent RWN is assumed to be 1' behind proposed walk
4 Railroad property estimated at 10 times the per acre land value









CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 3 NOVEMBER 2014

EASTMAN DRIVE (WOODMAN DRIVE TO SPINNING ROAD)

TASK	ESTIMATED COST
General Road Condition Improvement This includes the mill and resurface of the Eastman Drive pavement. Replacement of portions of the curb and gutter and concrete walk on the north side is included. Some full depth pavement repair is included to address failing locations. Storm sewer infrastructure improvements are also included. Establishing a defined ditchline was not included in the estimate due to the high costs and impacts on driveways including the construction of culverts and private property.	Construction Cost- \$560,000
Address On-Street Parking from Vinton to Spinning This includes widening the pavement section to allow for additional parking on the south side of the road. The preferred alternative is to re-stripe and prohibit parking on either side. This alternative can be completed for a fraction of the cost.	Construction Cost- \$339,000 R/W Acquisition - \$403,000
TOTAL EASTMAN DRIVE (WOODMAN DRIVE TO SPINNING RD)	\$1,302,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.



EASTMAN AVE REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST			
201	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,00			
202	WALK REMOVED	6500 SF	\$2	\$13,00			
202	CURB REMOVED	1500 FT	\$3	\$4,50			
202	CATCH BASIN OR INLET REMOVED	\$350	\$4,20				
203	DITCH GRADING	12 EA 2500 LF	\$12	\$30,00			
252	FULL DEPTH PAVEMENT REPAIR	350 SY	\$60	\$21,00			
254	PAVEMENT PLANING, ASPHALT CONCRETE	7500 SY	\$3	\$18,75			
407	TACK COAT	1200 GAL	\$3	\$3,60			
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	450 CY	\$175	\$78,750			
603	15" CONDUIT, TYPE B	1000 FT	\$ 50.00	\$ 50,000.00			
604	CATCH BASIN	12 EA	\$2,500	\$30,000			
608	4" CONCRETE WALK	6500 SF	\$5	\$32,500			
609	CURB	\$18	\$27,000				
644	PAVEMENT MARKINGS AND SIGNAGE	T MARKINGS AND SIGNAGE 1 LS \$4,500					
832	SWPPP	PPP 1 LS \$3,500		\$4,500 \$3,500			
832	EROSION CONTROL	2500 EA	\$1	\$2,500			
				100			
			Subtotal	\$329,000			
614	MAINTAINING TRAFFIC	1 LS	\$20,000	\$20,000			
619	FIELD OFFICE, TYPE B	6 MN	\$1,600	\$9,600			
	CONSTRUCTION LAYOUT STAKES	1 LS	\$7,500	\$7,500			
624	MOBILIZATION	1 LS	\$10,000	\$10,000			
		and the second					
and the same of			Subtotal	\$377,000			
	Design Risk (35%) \$132,00						
viria valles (ABS)			Subtotal	\$509,000			
	在1800年1900年1900		100000	REPLY TO			
		ENGINE	ERING (10%)	\$51,000			
5.5725			Total	\$560,000			



EASTMAN AVE WIDEN FOR PARKING CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - SEPTEMBER 2014

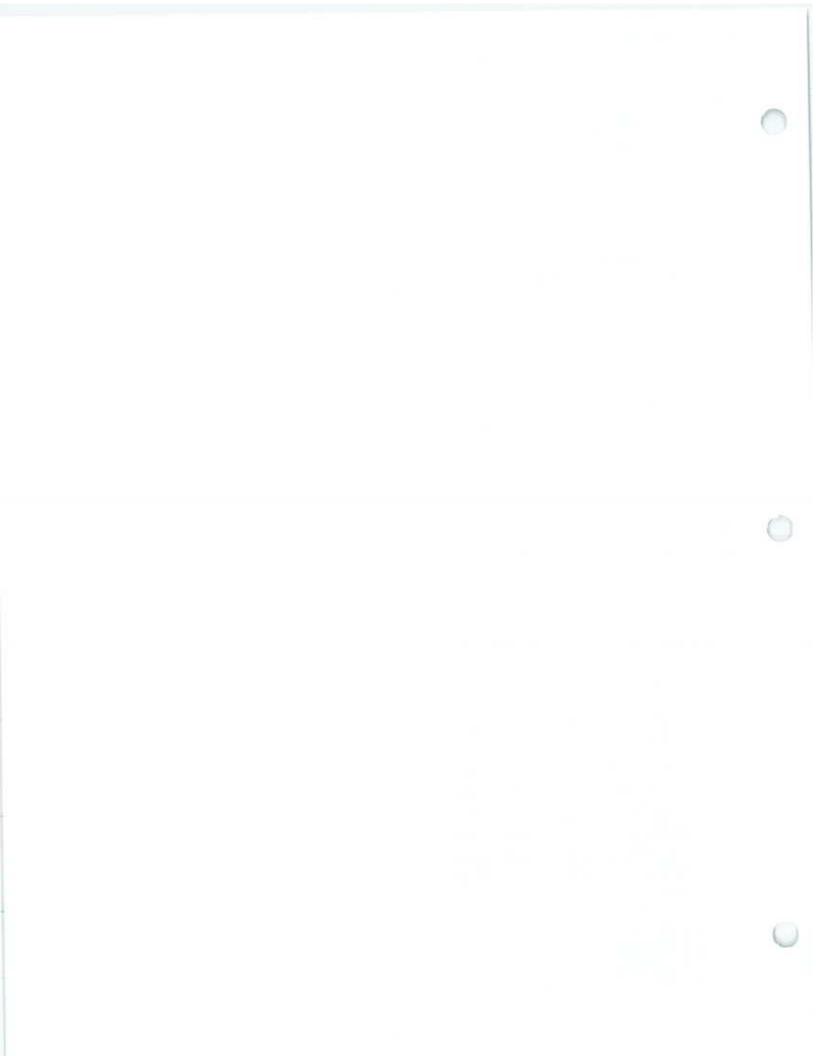
ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST		
201	CLEARING AND GRUBBING	1 LS	\$10,000	\$10,000		
202	PAVEMENT REMOVED, ASPHALT	150 SY	\$8	\$1,200		
203	EXCAVATION	500 CY	\$20	\$10,000		
203	EMBANKMENT	75 CY	\$20	\$1,500		
204	SUBGRADE COMPACTION	1000 SY	\$5	\$5,000		
301	ASPHALT CONCRETE BASE, PG64-22, 6"	170 CY	\$175	\$29,750		
304	AGGREGATE BASE, 10"	275 CY	\$60	\$16,50		
407	TACK COAT	150 GAL	\$5	\$750		
409	SAWING PAVEMENT	1350 FT	\$5	\$6,750		
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 3"	100 CY	\$250	\$25,000		
603	15" CONDUIT, TYPE B	100 FT	\$100	\$10,000		
604	MAH HOLE	2 EA	\$5,000	\$10,000		
604	CATCH BASIN, NO. 3	4 EA	\$4,500	\$18,000		
609	CURB	1350 EA	\$20	\$27,000		
630	SIGNAGE	1 LS	\$3,000	\$3,00		
644	PAVEMENT MARKINGS	1 L\$	\$5,000	\$5,00		
659	TOPSOIL	100 CY	\$35	\$3,500		
659	SEEDING AND MULCHING	300 SY	\$3	\$90		
832	SWPPP	1 LS	\$4,000	\$4,00		
832	EROSION CONTROL	3500 EA	\$1	\$3,50		
002			200			
Paragraph of the Control of the Cont	(A)		Subtotal	\$192,00		
美国		1 LS	\$10,000	\$10,00		
614	MAINTAINING TRAFFIC	6 MN	\$1,600	\$9,60		
619	FIELD OFFICE, TYPE B	1 LS	\$5,500	\$5,50		
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$10,000	\$10,00		
624	MOBILIZATION	The second second	010,000	ar to his orional		
經濟海里			Subtotal	\$228,00		
		ASSAULT NEEDS		\$80,00		
Design Risk (35%)						
			Subtotal	\$308,00		
		ENGIN	EERING (10%)	\$31,00		
Total \$339,0						

EASTMAN WIDENING CITY OF RIVERSIDE PRELIMINARY RIGHT OF WAY ESTMATE.

74 30

		Comments	Control of the Contro			TEMPOOPPER	OLING SAN & COST TO	CORE NO! CONSIDERED				
	Cost to	8								S		
	Sub-Total	Cost		\$188.513	9	08	5	Ş	2	\$198,513 \$35,732 \$29,777 \$4,467 \$28,483	707	
	Delanation	-								8 1 1		
	-	Temporary		30	30	8	8	OS	8	8		
	1	Simple	0400 540	5130,016						\$198,513	Project	ece.
	Labor	costs	C470 000	000						3	Closings	8,000
I	Area:	- Supposers				1	1			Sub-Totals Estimated Cost Contingency (50%) TOTAL, GOST	Negodation	\$1,100
	Area of Area: Foe Area:		0.78					1		Con Tr	Appraisal Parisaria	\$2,000
			34000									
	Structure	-	NO								Detailed Approisal	\$4,500
TOTAL	ACREAGE	St. Ann	Ow.MA							.20 50 225		
	Yotal	SPECIOON CONTRACTOR	DAN'SANA							[(sub-total)x0.15)x1.20 [(sub-total)x0.10)x1.50 [(sub-total)x0.90)x0.025	Tibles	2400
Structure										Hans)]	Tollowing: Procedures]
	Land Use Land Value	\$850,000								Costs fer Costs acres.	Laton Loss Infattaes the following: ber ODOT Cost Estimating Pracedure For Acadima Richts of Ways	
	Land Use	VARIOUS								Administrative Costs Juny trial Costs Indidontal transfer Costs All areas are in acres.	(per ODOT Cost Estimating Procedures For Acquiring Rights of Way)	
Number of Descript	remitted of ranceis	20										Notes:

1 Existing RVW ostimated using GIS parcel lines, where available
2 Where RVW cannot be easily estimated from GIS parcels, existing RVW is assumed to be 1' behind walk
3 Proposed permanent RVW is assumed to be 1' behind proposed walk
4 Ralitrad property estimated at 10 times the per acre land value





TO:

Riverside City Council

FROM:

Bryan RH Chodkowski,

City Manager

SUBJECT:

Major Thoroughfare Improvement Plan -

Phase III, Group IV

DATE:

March 26, 2015

CC:

Emily M. Christian,

Assistant City Manager

Mitch Miller,

Director of Public Services

This memorandum represents the start of the final phase of the Major Thoroughfare Improvement Plan undertaken by staff in 2014. In the first phase of this project, staff and Council reviewed the major roadways of the City and brainstormed about all the improvements that could be included as part of a street's reconstruction. In the second phase of this project, the City Engineer quantified the expense of all the project elements identified in the first phase. In this third phase, staff is providing a recommendation on a final project scope for each street which takes into account cost, scale, and practicality.

This memorandum provides a brief summary of the project elements addressed in Phase II and their estimated expenses. For your reference, the Phase II information provided by the Engineer is attached to this memorandum. Following each summary is staff's recommendation for a final project scope and estimated project cost based on the modifications generally described below.

These project summaries are as follows:

OLD TROY PIKE (CITY LIMIT TO CITY LIMIT)

Phase II Elements and Pricing:

	General Road Condition Improvements -	\$1,700,000
•	Replace/Upgrade Guardrail -	\$ 125,000
	TOTAL	\$1,825,000

Phase III Staff Project Scope Recommendations:

- General Road Condition Improvements Staff review finds modifications to this project scope are limited to improved guardrail material.
- Replace/Upgrade Guardrail It is recommended that the full scope of this project should be included with General Road Condition Improvements.



OLD TROY PIKE (CITY LIMIT TO CITY LIMIT - CONT'D)

Phase III Cost Estimates Based on Staff Recommendations:

	General Road Condition Improvements -	\$1,634,200		
•	Replace/Upgrade Guardrail -	\$ 0		
	TOTAL	\$1,634,200		

BRANDT PIKE (CITY LIMIT TO CITY LIMIT)

Phase II Elements and Pricing:

	General Road Condition Improvements -	\$1,157,000
•	Replace/Upgrade Guardrail -	\$ 93,000
	Increase radii at Pleasant Valley -	\$ 200,000
	TOTAL	\$1,450,000

Phase III Staff Project Scope Recommendations:

- General Road Condition Improvements Staff recommends modifications to this project scope to include the use of improved guardrail material.
- Replace/Upgrade Guardrail This project should be incorporated as part of the General Road Condition Improvements.
- Increase radii at Pleasant Valley Review of this improvement's impact on adjacent properties leads staff to recommend that this project no longer be considered.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvements -	\$1,195,500
Replace/Upgrade Guardrail -	\$ 0
Increase radii at Pleasant Valley -	\$ 0
TOTAL	\$1,195,500

LINDEN AVE. (CITY LIMIT TO CITY LIMIT)

Phase II Elements and Pricing:

General Road Condition Improvements -	\$2,330,000
Increase radii at Spinning Rd	\$ 199,000
Increase radii at Wenrick Rd	\$ 161,000
TOTAL	\$2,690,000



LINDEN AVE. (CITY LIMIT TO CITY LIMIT - CONT'D)

Phase III Staff Project Scope Recommendations:

- General Road Condition Improvements No changes in scope are recommended. In consideration of the full project scope with additional elements, this project should be separated into two phases.
- Increase radii at Spinning Rd. It is recommended that this project be incorporated with the General Roald Condition Improvement scope as noted above.
- Increase radii at Wenrick Rd. Reviewing this project element's impact to traffic patterns on Linden, staff recommends not pursuing this project any further.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvements -	\$2,330,000
Increase radii at Spinning Rd	\$ 199,000
Increase radii at Wenrick Rd	\$ 0
TOTAL	\$2,529,000

WOODMAN DR. (US 35 TO CITY LIMIT)

Phase II Elements and Pricing:

General Road Condition Improvements -	\$ 954,000
TOTAL	\$ 954,000

Phase III Staff Recommendations:

 General Road Condition Improvements – Staff recommends no modifications in construction scope but does recommend pursuing efforts to provide for a uniform rightof-way.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvements-	\$ 868,000
TOTAL	\$ 868,000

BURKHARDT RD. (CITY LIMIT TO CITY LIMIT)

Phase II Elements and Pricing:

General Road Condition Improvements -	\$2,558,000
TOTAL	\$2,558,000



BURKHARDT RD. (CITY LIMIT TO CITY LIMIT - CONT'D)

Phase III Staff Recommendations:

General Road Condition Improvements - No modifications are recommended to the scope of this work as proposed other than to subdivide this project into two phases.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvements -	\$2,558,000
TOTAL	\$2,558,000

HARSHMAN RD. (CITY LIMIT TO CITY LIMIT)

Phase II Elements and Pricing:

General Road Condition Improvements -	\$3,957,000
TOTAL	\$3,957,000

Phase III Staff Recommendations:

General Road Condition Improvements - No modifications are recommended to the scope of this work as proposed other than to subdivide this project into two phases.

Phase III Cost Estimates Based on Staff Recommendations:

General Road Condition Improvements -	\$3,957,000
TOTAL	\$3,957,000

By way of a more generalized, total summary; when project estimates were prepared through the Phase II process to include all aspects of that work which could be included under a major thoroughfare improvement plan for the Group III streets, the cost estimates were calculated as:

➢ Old Troy Pike (City Limit to City Limit):	\$ 1,825,000
➤ Brandt Pike (City Limit to City Limit):	\$ 1,450,000
➤ Linden Ave. (City Limit to City Limit):	\$ 2,690,000
➤ Woodman Dr. (US 35 to City Limit):	\$ 954,000
➤ Burkhardt Rd. (City Limit to City Limit):	\$ 2,558,000
➤ Harshman Rd. (City Limit to City Limit):	\$ 3,957,000
TOTAL	\$13,434,000



Following the Phase III process performed by staff, the above projects can be separated into one of two categories. The first, *General Thoroughfare Improvements Projects*, represents the scope of work which the City would seek to perform through its long-term plan. These projects would be those the City would actively seek to perform and obtain grant funding to support. *Projects of Opportunity* are those that would be driven through an economic development project, when non-transportation grant dollars might be utilized, or when the financial condition of the City allows the project to be undertaken. These two categories now provide project estimates as follows:

General Thoroughfare Improvement Projects:

➢ Old Troy Pike (City Limit to City Limit):	\$ 1,634,200
➤ Brandt Pike (City Limit to City Limit):	\$ 1,195,500
▶ Linden Ave. – Phase I (W. City Limit to Quimby):	\$ 1,300,000
➤ Linden Ave. –Phase II (Quimby to E. City Limit):	\$ 1,260,000
➤ Woodman Dr. (US 35 to City Limit):	\$ 954,000
Burkhardt Rd. – Phase I (W. City Limit to Ketchum):	\$ 1,300,000
▶ Burkhardt Rd. – Phase II (Ketchum to E. City Limit):	\$ 1,300,000
➤ Harshman Rd. – Phase I (N City Limit to Transportation):	\$ 2,000,000
▶ Harshman Rd. – Phase II (Transportation to S. City Limit):	\$ 2,000,000
TOTAL	\$12,943,500

Projects of Opportunity:

No Projects of Opportunity were identified in this grouping.

You will note that there is a significant change in project cost estimates from those calculated in Phase II and those provided in this Phase III memorandum. While certain reductions are obvious because a project element was outright deleted from the overall project scope, other saving measures occurred in reduction of scope and/or duplicate expenses. The duplicate activities being removed or reduced from the projects include such items as surveying, mobilization, and clearing & grubbing.

As we proceed through Phase III of this project, the Engineer will be preparing more detailed project cost estimates in a format similar to those provided for Phase II. Once all four street groupings have been through the Phase III process; a final document with comprehensive cost estimates, generalized project summaries, and potential timeline will be provided to Council. This final, Major Thoroughfare Improvement Plan document should assist Council in further discussion on how to best begin reconstructing and improving the main streets of the City.

Should you have any questions or concerns regarding the information contained within this memorandum, please do not hesitate to contact me.



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 4 NOVEMBER 2014

Preliminary project cost estimates have been developed for the five corridors included in Phase I, Grouping 4. These corridors include Old Troy Pike (city limit to city limit), Brandt Pike (city limit to city limit), Linden Avenue (city limit to city limit), Woodman Drive (US 35 south to city limit), Burkhardt Road (city limit to city limit), and Harshman Road (city limit to city limit less the Valley Street intersection that was rebuilt in 2013). A description of the scope of the improvements planned as well as estimate subtotals for the various improvements recommended by city staff and council following the initial work session are included below. A total construction cost for improvements on each corridor is also included. Details of each construction cost estimate are attached to this report.

OLD TROY PIKE (CITY LIMIT TO CITY LIMIT)

TASK	ESTIMATED COST
General Road Condition Improvement This includes mill/fill, ditch grading, estimated quantity of full depth repair, some curb replacement, minor drainage repairs	Construction Cost-\$1,700,000
Replace/Update Guardrail with Alternate Materials This includes a separate estimate for wood guard rail	Construction Cost- \$125,000
TOTAL OLD TROY PIKE (CITY LIMIT TO CITY LIMIT)	\$1,825,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.



OLD TROY PIKE REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ı	TOTAL COST	UNIT COST	QUANTITY	DESCRIPTION	ITEM
	\$5,000	\$5,000	1 LS	CLEARING AND GRUBBING	201
		\$6	1000 LF	CURB REMOVED	202
		\$6	15000 LF	DITCH GRADING	203
\$ \$90,000 \$ \$175,000 \$ \$137,500 \$ \$137,500 \$ \$24,000 \$ \$542,500 \$ \$15,000 \$ \$15,000 \$ \$1,500 \$ \$1,500 \$ \$1,500 \$ \$2,500		\$50	3500 SY	FULL DEPTH PAVEMENT REPAIR	252
		\$3	55000 SY	PAVEMENT PLANING, ASPHALT CONCRETE	254
		\$3	8000 GAL	TACK COAT	407
	-	\$175	3100 CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	448
	\$15.000	\$15	1000 LF	CONCRETE CURB	609
i		\$3,000	6 EA	CATCH BASIN REBUILT	604
		\$15	10-LF	GUARDRAIL	606
1		\$1,500	1 LS	SWPPP	832
1		\$1	1500 EA	EROSION CONTROL	832
١					episte de
ı	\$1,017,000	Subtotal		TAME TO SECURE A SECU	CYGIN-IV.
ı		Sealing Page	MV92		福建設
I		\$15,000	1 LS	MAINTAINING TRAFFIC	614
1		\$1,500	6 MN	FIELD OFFICE, TYPE B	619
		\$2,500	1 LS	CONSTRUCTION LAYOUT STAKES	
				MODILIZATION	623
	\$2,500 \$100,000	\$400,000	1 LS	MOBILIZATION	624
	\$100;000	\$100 ₁ 000		MOBILIZATION	
The second name of the last of				MOBILIZATION	
THE R. P. LEWIS CO., LANSING, S. LEWIS CO., L	\$100;000 -\$1,144,000	\$400,000 Subtotal	1 LS	MOBILIZATION	
THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	\$100;000- .\$1,144,000-	\$100,000 Subtotal gn Risk (35%)	1 LS	MOBILIZATION	
	\$100,000 -\$1,144,000	\$400,000 Subtotal	1 LS		
	\$100;000- \$1,144,000- -\$401;000-	\$100,000 Subtotal gn Risk (35%)	1 LS Desig		624



OLD TROY PIKE WOOD GUARD RAIL CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,000
	GUARDRAIL, WOODEN	800 LE	\$70	\$56,000
606	SWPPP	ILS	\$2,500	\$2,500
832	EROSION CONTROL	1500 EA	\$1	\$1,500
832	EUOSION CONTHOL			
		3.3000000000000000000000000000000000000	Subtotal	\$ 65,000.00
CONTRACTOR OF		Carrier and a service of the service		
CIA	IMAINTAINING TRAFFIC	1 LS	\$7,500	\$7,50
614	FIELD OFFICE, TYPE B	3 MN	\$1,500	\$4,50
619	PIELU OFFICE, I THE D	1 LS	\$1,200	\$1,20
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$4,000	\$4,00
624	MOBILIZATION	1.00	4.11000	
		SHIP SERVER AND INCOME TO THE SERVER	Subtotal I	\$83,00
Dezaz-kece				
	The second secon	De	sign Risk (35%)	\$30,00
		20.	Subtotal	\$113,00
NAME AND ADDRESS OF THE PARTY O				
	A CONTRACTOR OF THE PARTY OF TH	FNGIN	EERING (10%)	\$12,00
		Ervany	Total	\$125,00
			TOTAL TOTAL	CONTRACTOR OF THE PARTY OF THE



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 4 NOVEMBER 2014

BRANDT PIKE (CITY LIMIT TO CITY LIMIT)

TASK	ESTIMATED COST
General Road Condition Improvement This includes mill/fill, ditch grading, estimate quantity of full depth repair, some curb replacement, minor drainage repairs	Construction Cost- \$1,157,000
Replace Guardrall with Alternate Materials This includes a separate estimate for wood guard rail	Construction Cost- \$93,000
Increase Intersection radius at Pleasant Valley This includes a separate estimate for improving radius at Pleasant Valley- (some R/W required)	Construction Cost- \$163,000 R/W- \$37,000
TOTAL BRANDT PIKE (CITY LIMIT TO CITY LIMIT)	\$1,450,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.



BRANDT PIKE REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

1	TOTAL COST	UNIT COST	QUANTITY	DESCRIPTION	ITEM
1	\$5,000	\$5,000	1 LS	CLEARING AND GRUBBING	201
1	\$6,000	\$6	1000 LF	CURB REMOVED	202
1	\$84,000	\$6	14000 LF	DITCH GRADING	203
1	\$100,000	\$50	2000 SY	FULL DEPTH PAVEMENT REPAIR	252
J	\$87,500	\$3	35000 SY	PAVEMENT PLANING, ASPHALT CONCRETE	254
l	\$15,000	\$3	5000 GAL	TACK COAT	407
	\$350,000	\$175	2000 CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	448
1	\$25,000	\$50	500 FT	15" CONDUIT, TYPE B	603
1	\$15,000	\$15	1000 LF	CONCRETE CURB	609
1	\$18,000	\$3,000	6 EA	CATCH BASIN REBUILT	604
1	\$7,500	\$15	500-LF	GUARDRAIL	606
	\$8,000	\$8,000	1 LS	PAVEMENT MARKINGS	644
1	\$2,500	\$2,500	1 LS	SWPPP	832
	\$1,500	\$1	1500 EA	EROSION CONTROL	832
	- A	and a way of the		ENOSIGN CONTROL	OJZ SVIJANEURI
	\$725,000	Subtotal			
1	\$0	15,000.00	LS \$	MAINTAINING TRAFFIC	244
1	\$9,000	1,500.00	6 MN \$	MAINTAINING TRAFFIC FIELD OFFICE, TYPE B	614
	\$3,500		1 LS \$	CONSTRUCTION LAYOUT STAKES	619
	\$40,000	40,000.00	1 LS \$	MOBILIZATION	623
J	4.01000			IMODILIZATION	
2000					624
0000	\$778,000	Subtotal			624
2000	\$278,000		Desla		
6 people 100,000		Subtotal n Risk (35%) Subtotal	Desig		
MORE T & SACRED BOOKING	\$ZZ8,000	n Risk (35%)			



BRANDT PIKE GUARD RAIL CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST	
201	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,000	
606	GUARDRAIL, WOODEN	500 LF	\$70	\$35,000	
832	SWPPP	145	\$2,500	\$2,500	
832	EROSION CONTROL	7500 EA	\$1	\$1,500	
的學術的			The state of the s		
			Subtotal	\$ 44,000.00	
用等(1)					
614	MAINTAINING TRAFFIC	1 LS	\$7,500	\$7,500	
619	FIELD OFFICE, TYPE B	3 MN	\$1,500	\$4,500	
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$1,200	\$1,200	
624	MOBILIZATION	1 LS	\$4,000	\$4,000	
			34,000,000	N.C.	
SLATING.			Subtotal	\$62,000	
				\$22,000	
Design Risk (35%)					
Subtotal					
				1000年前	
		ENGINI	EERING (10%)	\$9,000	
			Total	\$93,000	



BRANDT PIKE PLEASANT VALLEY RADIUS CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST		
201	CLEARING AND GRUBBING	1 LS	\$10,000	\$10,000		
202	PAVEMENT REMOVED, ASPHALT	20 SY	\$25	\$500		
202	CATCH BASIN OR INLET REMOVED	2 EA	\$500	\$1,000		
203	EXCAVATION	75 CY	\$20	\$1,500		
203	EMBANKMENT	10 CY	\$30	\$300		
204	SUBGRADE COMPACTION	150 SY	\$4	\$600		
252	PAVEMENT SAWING	100 LF	\$4	\$400		
301	ASPHALT CONCRETE BASE 6"	30 CY	\$300	\$9,000		
304	AGGREGATE BASE 10"	50 CY	\$75	\$3,750		
407	TACK COAT	30 GAL	\$5	\$150		
448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22, 1.5"	10 CY	\$500	\$5,000		
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 1.5"	10 CY	\$500	\$5,000		
603	15" CONDUIT, TYPE B	100 LF	\$60	\$6,000		
604	CATCH BASIN, NO. 3	2 EA	\$2,500	\$5,000		
604	MANHOLE, NO. 3	1 EA	\$3,000	\$3,000		
605	6" BASE PIPE UNDERDRAIN	100 LF	\$12	\$1,200		
630	SIGNAGE	1 LS	\$1,500	\$1,500		
	UTILITY POLE RELOCATED	1 LS	\$3,500	\$3,500		
644	PAVEMENT MARKINGS	1 LS	\$3,000	\$3,000		
659	TOPSOIL	20 CY			\$50	\$1,000
659	SEEDING AND MULCHING	100 SY	\$4	\$400		
832		SWPPP		\$3,500	\$3,500	
832	EROSION CONTROL	2500 EA	\$1	\$2,500		
			Subtotal	\$ 68,000.00		
1000						
614	MAINTAINING TRAFFIC	1 LS	\$12,000	\$12,000		
619	FIELD OFFICE, TYPE B	3 MN	\$1,600	\$4,800		
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$3,500	\$3,500		
624	MOBILIZATION	1 LS	\$20,000	\$20,000		
			Subtotal	\$109,000		
	The state of the s	Des	ign Risk (35%)	\$39,000		
			Subtotal	\$148,000		
		Englneer	ing Cost (10%)	\$15,000		
			Total	\$163,000		

BRANDT PIKE PLEASANT VALLEY RADIUS CITY OF RIVERSIDE PRELIMINARY RIGHT OF WAY ESTIMATE. NOVEMBES

		-			YOTAL		1	1								
Number of Parcels	Land Use	Land Use Land Value	Structure	Total	ACREAGE	Structure	Area of Area: Fee Take (SF) Simple	Area: Fee Simple	Area: Temporary	Labor	Cost: Fee	Cost:	Relocation	Sub-Total	Cost to	Community
2	VARIOUS	\$150,000		£150,000	4 000	t	-				- Landaura	S Component		288	273	STIBITION
				200,000	(Z.W	2	100	0.002		\$17,900	\$18.187	SOS		481818	1	
											l			010,107		
												OS.		200		
							1	1				So		CS		
						1	1					80		SS		
							1	1			1	S		S		
												SS		8		
	Administrative Costs Juty trial Costs Incidental transfor Costs All areas are in acres.	Costs for Costs acres.	(ns)]	((sub-total)x0.15yr1.20 ((sub-total)x0.10jx1.50 ((sub-total)x0.90jx0.025	1.20 1.50 3.025			Son Survey	Sub-Totals Estimated Cost Contingency (50%) TOTAL COST	** %	\$18,187	8	\$	\$18,187 \$3,274 \$2,728 \$409 \$24,598 \$12,299	8	
	(per ODOT Co	* Labor Cost Includes the following: (per ODOT Cost Estimating Procedures For American Bioths of Man)	Mowing: Tocedures	Tibles		Detailed Appraisal	3	Dotalled Appraisal	Negostation	Closings	Project Management			\$36,897		
	about 10	D CHARLES AND A	1604	8400		\$4,500		\$2,000	\$1,100	8400	5550					



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 4 **NOVEMBER 2014**

LINDEN AVENUE (CITY LIMIT TO CITY LIMIT)

TIMPEN WASHING (CITT FIIMIT TO CITT FIIMIT)	
TASK	ESTIMATED COST
General Road Condition Improvement This includes mill/fill, minor drainage improvements, partial curb repair, new curb to fill gap (not along porth side between RR and Key Bank), new side walk, (not along porth side between RR and Woodman), estimated quantity of full depth pavement repair	Construction Cost - \$2,090,000 RAW- \$240,000
Increase intersection radius at Spinning Road This includes a separate estimate for 2 radius improvements for Spinning and Wenrick Road	Construction Cost: \$161,000 R/W- \$38,000
Increase intersection radius at Wenrick Road This includes a separate estimate for 2 radius improvements for Spinning and Wenrick Road	Construction Cost- \$142,000 R/W-\$19,000
TOTAL LINDEN AVENUE (CITY LIMIT TO CITY LIMIT)	\$2,690,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.

1,045,000

1,045,000



LINDEN REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST		
201	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,00		
202	CURB REMOVED	1000 LF	\$3	\$3,00		
252	FULL DEPTH PAVEMENT REPAIR	5000 SY	\$50	\$250,000		
254	PAVEMENT PLANING, ASPHALT CONCRETE	46000 SY	\$3	\$115,000		
301	ASPHALT CONCRETE BASE, PG64-22	CY	\$125	\$113,000		
304	AGGREGATE BASE	CY	\$40	\$6		
407	TACK COAT	7000 GAL	\$3	\$21,000		
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 2"	2600 CY	\$175	\$455,000		
603	15" CONDUIT, TYPE B	500 LF	\$50	\$25,000		
604	CATCH BASIN, NO. 3	12 EA	\$2,500	\$30,000		
604	MANHOLE, NO. 3	6 EA	\$3,000	\$18,000		
608	4" CONCRETE WALK	43000 SF	\$3	\$129,000		
608	CURB RAMPS	15 EA	\$450	\$6,750		
609	CURB, TYPE 6	9500 LF	\$17	\$161,500		
609	CONCRETE DRIVE APPROACH	35 EA	\$2,500	\$87,500		
644	PAVEMENT MARKINGS	1 LS	\$8,000	\$8,000		
	TOPSOIL	300 CY	\$25	\$7,500		
	SEEDING AND MULCHING	3000 SY	\$2	\$6,000		
	SWPPP	1 LS	\$4,500	\$4,500		
832	EROSION CONTROL	OSION CONTROL 3500 EA \$1				
				\$3,500		
			Subtotal	\$ 1,337,000.00		
	MAINTAINING TRAFFIC	1 LS	\$15,000	\$15,000		
	FIELD OFFICE, TYPE B	6 MN	\$1,600	\$9,600		
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$5,000	\$5,000		
624	MOBILIZATION	1 LS	\$40,000	\$40,000		
	Subtotal					
		Desig	n Risk (35%)	\$493,000		
			Subtotal	\$1,900,000		
		Engineerin	g Cost (10%)	\$190,000		
			Total	\$2,090,000		

2000

1,379,400

LINDEN VARIABLE GTY OF RIVERSIDE PRELIMINARY RIGHT OF WAY ESTIMATE - NOVEMBER 2014

Land Use Land Value Structure Total ACREAGE ACRES (ACRES (ACRES ACRES (ACRES ACRES ACRES (ACRES ACRES ACRES (ACRES ACRES ACRES ACRES (ACRES ACRES ACRES
Land Value V
VARIOUS

* Labor Cost Includes the following: (per ODOT Cost Estimating Procedures For Acquiring Rights of Way)

[(sub-total)x0.15}x1.20 [(sub-total)x0.10}x1.50 [(sub-total)x0.90]x0.025

Administrative Costs Jury trial Costs Incidental transfer Costs All areas are in acros.

Closings \$400 Estimated Cost Confingency (50%) TOTAL COST Detailed Appraisal Negotiation Review \$2,000 \$1,100 Detailod Appraisal \$4,500 Titles \$400

Project Management

\$550

\$21,275 \$17,729 \$2,659 \$159,860 \$79,930 \$239,790



LINDEN AVE SPINNING RADIUS CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -AUGUST 2014

ITEM	DESCRIPTION	QUANTITY	T	UNIT COST	TOTAL COST
201	CLEARING AND GRUBBING	1 L\$	\$	5,000.00	\$ 5,000.00
202	PAVEMENT REMOVED, ASPHALT	200 SY	\$	8.00	\$ 1,600.00
202	CATCH BASIN OR INLET REMOVED	2 EA	\$	350.00	\$ 700.00
203	EXCAVATION	150 CY	\$	15.00	\$ 2,250.0
203	EMBANKMENT	20 CY	\$	12.00	\$ 240.00
204	SUBGRADE COMPACTION	300 SY	\$	2.00	\$ 600.00
206	CEMENT STABILIZED SUBGRADE, 16" DEEP	300 SY	\$	5.50	\$ 1,650.00
254	PAVEMENT PLANING, ASPHALT CONCRETE	550 SY	\$	2.50	\$ 1,375.00
301	ASPHALT CONCRETE BASE, PG64-22, 6"	50 CY	\$	125.00	\$ 6,250.00
304	AGGREGATE BASE, 10"	80 CY	\$	40.00	\$ 3,200.00
407	TACK COAT	50 GAL	\$	3.00	\$ 150.00
448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22, 1.5"	15 CY	\$	250.00	\$ 3,750.00
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 1.5"	40 CY	\$	250.00	\$ 10,000.00
603	15" CONDUIT, TYPE B	250 FT	\$	50.00	\$ 12,500.00
604	CATCH BASIN	4 EA	\$	2,500.00	\$ 10,000.00
604	MANHOLE, NO. 3	2 EA	\$	3,000.00	\$ 6,000.00
608	CURB RAMPS	2 EA	\$	1,000.00	\$ 2,000.00
608	CURB	120 LF	\$	20.00	\$ 2,400.00
644	PAVEMENT MARKINGS	1 LS	\$	4,000.00	\$ 4,000.00
659	TOPSOIL	20 CY	\$	25.00	\$ 500.00
659	SEEDING AND MULCHING	150 SY	\$	2.00	\$ 300.00
832	SWPPP	1 LS	\$	5,000.00	\$ 5,000.00
832	EROSION CONTROL	2500 EA	\$		\$ 2,500.00
30000				State of the	
		Maria de Maria	26,762	Subtotal	\$ 82,000.00
	MAINTAINING TRAFFIC	1 LS	\$	7,500.00	\$ 7,500.00
	FIELD OFFICE, TYPE B	6 MN	\$	1,600.00	9,600.00
623	CONSTRUCTION LAYOUT STAKES	1 LS		4,500.00	4,500.00
	MOBILIZATION	1 LS	\$		\$ 4,000.00
		1248400		4,000.00	17,000.00
a Park and		APARAMISSE INCOME	canna	Subtotal	\$ 108,000.00
2003000 900	NATURAL STATE OF THE STATE OF T	Des	ian	Risk (35%)	\$ 38,000.00
ensum to be ex					\$ 146,000.00
		FNGINI	FFR	ING (10%)	\$ 15,000.00
		relacita			\$ 161,000.00
Service Holdes		SOCIONA EL MANAGERIA ANO	(5) (5) (6)	TOTAL	101,000.00

YRS, BVT

LINDEN SPINNING RADIUS CITY OF RIVERSIDE PRELIMINARY RIGHT OF WAY ESTIMATE - NOVEMBER 2014

ACREAC (ACRES 1.200	S120,000	\$120,000 \$120,000 sub-total)x0.15}x
	10ml S120,000	20,000 Structure Total Value \$120,000

Project Management \$550

Closings

Detailed
Appraisal Negotiation (
Rowigw S1,100

Detalled Appraisal

> Titles \$400

* Labor Cost Includes the following: (per ODOT Cost Estimating Procedures For Acquiring Rights of Way)



LINDEN AVE WENFICK RADIUS CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE -NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$10,000	\$10,000
202	PAVEMENT REMOVED, ASPHALT	20 SY	\$25	\$500
202	CATCH BASIN OR INLET REMOVED	2 EA	\$500	\$1,000
203	EXCAVATION	75 CY	\$20	\$1,500
203	EMBANKMENT	10 CY	\$30	\$300
204	SUBGRADE COMPACTION	150 SY	\$4	\$600
252	PAVEMENT SAWING	100 LF	\$4	\$400
301	ASPHALT CONCRETE BASE 6"	30 CY	\$300	\$9,000
304	AGGREGATE BASE 10"	50 CY	\$75	\$3,750
407	TACK COAT	30 GAL	\$5	\$150
448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22, 1.5"	10 CY	\$500	\$5,000
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 1.5"	10 CY	\$500	\$5,000
605	6" BASE PIPE UNDERDRAIN	100 LF	\$12	\$1,200
630	SIGNAGE	1 LS	\$1,500	\$1,500
SPECIAL	UTILITY POLE RELOCATED	1 LS	\$3,500	\$3,500
644	PAVEMENT MARKINGS	1 LS	\$3,000	\$3,000
659	TOPSOIL	20 CY	\$50	\$1,000
659	SEEDING AND MULCHING	100 SY	\$4	\$400
832	SWPPP	1 LS	\$3,500	\$3,500
832	EROSION CONTROL	2500 EA	\$1	\$2,500
107				
35040.00		75 3 4 5 7 10	Subtotal	54,000.00
	MAINTAINING TRAFFIC	1 LS	\$12,000	\$12,000
	FIELD OFFICE, TYPE B	3 MN	\$1,600	\$4,800
	CONSTRUCTION LAYOUT STAKES	1 LS	\$3,500	\$3,500
624	MOBILIZATION	1 LS	\$20,000	\$20,000
			Subtotal	\$95,000
		Desi	gn Risk (35%)	\$34,000
			Subtotal	\$129,000
		Engineerir	ng Cost (10%)	\$13,000
			Total	\$142,000



LINDEN WENRICK RADIUS CITY OF RIVERSIDE PRELIMINARY RIGHT OF WAY ESTIMATE - NOVEMBER 2014

100	- CONT 1	0.		17 - TO	TOTAL			-	Ι.	0.00	-				-	
Number of Parcels	Land Use	Land Use Land Value	Value	Total	ACREAGE (ACRES)	Structure	Area of Take (SF)	Area: Fee	Area: Temporary	costs	Cost: Fee	Cost:	Relocation	Sub-Total Cost	Cost to	Comments
110	VARIOUS	\$20,000		\$20,000	0.400	Q	125	0.003		\$3,950	\$9,093	80		\$9.083		
						2276						80	20	80		
												S		8		
		-										30		S		
							-0					SOS		CS		
										Carrier C		SS		OS.		
									Sub-Totals		\$9,093	S	8		8	
	Administrative Costs Jury trial Costs	Costs	qns))	[(sub-total)x0.15]x1.20 [(sub-total)x0.10]x1.50	120											
	Incidental transfer Costs	fer Costs	qus)]	total)x0.90]xt	0.025									\$205		
	All areas are in acres.	acres,						ш § г	Estimated Cost Contingency (50%) TOTAL COST	# ⁽²⁾			61 S	\$12,299		
	Labor Cos (per ODOT C	* Labor Cost Includes the following: (per ODOT Cost Estimating Procedures	Slowing: rocodures	Talos		Detailed Appraisal		Dotalled Appraisal Roviow	Negotiation Cosings	spings	Project Management					
	TOL YOU	For Acquiring Rights of way)	way	\$400		\$4,500		\$2,000	\$1,100	\$400	\$550					



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 4 NOVEMBER 2014

WOODMAN DRIVE (US 35 SOUTH TO CITY LIMIT)

TASK	ESTIMATED COST
General Road Condition Improvement This includes mill/fill, minor drainage, estimate full depth, some curb and sidewalk replacement	Construction Cost- \$868,000 R/W- \$86,000 —
TOTAL WOODMAN DRIVE (US 35 SOUTH TO CITY LIMIT)	\$954,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.



WOODMAN 35 SOUTH REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	CLEARING AND GRUBBING	1 EA	\$5,000	\$5,00
202	WALK REMOVED	5000 SF	\$2	\$7,50
202	CURB REMOVED	3000 LF	\$3	\$9,00
252	FULL DEPTH PAVEMENT REPAIRS	2000 SY	\$50	\$100,00
254	PAVEMENT PLANING, ASPHALT CONCRETE	23000 SY	\$3	\$57,50
407	TACK COAT	3500 GAL	\$3	\$10,50
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22, 2"	1500 CY	\$175	\$262,50
604	CATCH BASIN REPAIRED	6 EA	\$2,500	\$15,00
608	4" CONCRETE WALK	5000 SF	\$5	\$25,00
608	CURB RAMPS	4 EA	\$450	\$1,80
609	CURB, TYPE 6	3000 LF	\$15	\$45,00
644	PAVEMENT MARKINGS	1 LS	\$6,000	\$6,00
832	SWPPP	1 LS	\$2,500	\$2,50
832	EROSION CONTROL	1500 EA	\$1	\$1,50
			Subtotal	\$ 549,000.0
				10 - 100
614	MAINTAINING TRAFFIC	1 LS	\$7,500	\$7,50
619	FIELD OFFICE, TYPE B	3 MN	\$1,600	\$4,80
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$2,500	\$2,50
624	MOBILIZATION	1 LS	\$20,000	\$20,00
			Subtotal	\$584,00
		Des	ign Risk (35%)	\$205,00
			Subtotal	\$789,00
		Engineer	ng Cost (10%)	\$79,00

WOODMAN 35 SOUTH AT KOLMAR CITY OF RIVERSIDE PRELIMINARY RIGHT OF WAY ESTIMATE - NOVEMBER 2014

					- CONTRACT											
Number of Parcels	Land Use	Land Value	Structure	Total	ACREAGE	Structure	Area of Take (SF)	Area: Fee Simple	Area: Temporary	Labor	Cost: Fee	Cost:	Relocation	Sub-Total	Cost to	Comments
m	VARIOUS	\$700,000		\$700,000	2 800	CN.	2000	1000			- 1			1	200	
				20000	2000	2	2000	0.057		\$28,850	\$42,302			\$42,302		
												109		S		
												80		08		
												CS		2		
												SO.		S	I	
												8		60	T	
									Sub-Totals		CAS 200	\$	\$	20000	1	
	Jury trial Costs	2000		((sub-total)x0.15jx1.20 ((sub-total)x0.10jx1.50	20 00						B0000000		3	\$7,614	3	
	Incidental transfer Costs	for Costs	((suc	[(sub-total)x0.90]x0.025	1.025									\$5,345		
	All areas are in acres.	acres.						ŭ	stimated Cost	t			1	2000		
								3	Contingency (50%) TOTAL COST	(%)				\$28,607		
	Pabor Cos (per ODOT Co	*Labor Cost Includes the following: (per ODOT Cost Estimating Procedures For Acmining Bloths of Way)	Procedures	Tatos		Detailed Appraisal		Detailed Appraisal Review	Negotiation	Closings	Project Management			960,620		
		in the second	(fm.	\$400		\$4,500		\$2,000	\$1,100	8400	8550					



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 4 NOVEMBER 2014

BURKHARDT ROAD (CITY LIMIT TO CITY LIMIT)

TASK	ESTIMATED COST
General Road Condition Improvement This includes total reconstruction of pavement asphalt/aggregate, salvaging half of the curb, salvage some sidewalk and add new in gaps, minor drainage improvements	Construction Cost- \$2,218,000 R/W- \$340,000
TOTAL BURKHARDT ROAD (CITY LIMIT TO CITY LIMIT)	\$2,558,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.



BURKHARDT REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
202	PAVEMENT REMOVED	22000 SY	\$8	\$176,00
201	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,00
202	WALK REMOVED	25000 SF	\$2	\$37,5
202	CURB REMOVED	1000 LF	\$3	\$3,0
202	CATCH BASIN OR INLET REMOVED	4 EA	\$350	\$1,4
203	SUBGRADE COMPACTION	22000 SY	\$2	\$44,0
254	PAVEMENT PLANING, ASPHALT CONCRETE	1000 SY	\$2	\$2,0
301	ASPHALT CONCRETE BASE COURSE, 6"	3700 CY	\$125	\$462,5
304	AGGREGATE BASE, 10"	6000 CY	\$40	\$240,0
407	TACK COAT	3000 GAL	\$2	\$6,0
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 1.5 "	900 CY	\$175	\$157,5
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 1.5"	900 CY	\$175	\$157,5
603	15" CONDUIT, TYPE B	1000 LF	\$50	\$50,0
604	CATCH BASIN, NO. 3	10 EA	\$2,500	\$25,0
604	MANHOLE, NO. 3	6 EA	\$3,000	\$18,0
608	4" CONCRETE WALK	40000 SF	\$2	\$90,0
609	CURB	3000 LF	\$17	\$51,0
609	DRIVE APPROACH	30 EA	\$1,200	\$36,0
630	SIGNAGE	1 LS	\$1,500	\$1,5
644	PAVEMENT MARKINGS	1 LS	\$7,500	\$7,50
659	TOPSOIL	100 CY	\$25	\$2,50
659	SEEDING AND MULCHING	4000 SY	\$2	\$8,00
832	SWPPP	1 LS	\$4,500	\$4,50
832	EROSION CONTROL	2500 EA	\$1	\$2,50
	是我们的现在分词是是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一		Subtotal	\$ 1,413,000.0
		(2)(前性疾病)(2)	TO THE REAL PROPERTY.	- 25 70 00000
614	MAINTAINING TRAFFIC	1 LS	\$20,000	\$20,00
619	FIELD OFFICE, TYPE B	6 MN	\$1,600	\$9,60
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$10,000	\$10,00
624	MOBILIZATION	1 LS	\$40,000	\$40,0
			Subtotal	\$1,493,0
	***************************************	Desi	gn Risk (35%)	\$523,00
_			Subtotal	\$2,016,00
		Engineerin	ng Cost (10%)	\$202,00
			Total	\$2,218,00

BURKHARDT VARIABLE RW CITY OF RIVERSIDE PRELIMINARY RIGHT OF WAY ESTIMATE - NOVEMBER 2014

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-		TOTAL					202007					-		
Number of Parcels	Land Use	Land Use Land Value Value	Value	Total	ACREAGE (ACRES)	Impact	Area of Take (SF)	Area: ree Simple	Area: Temporary	costs	Cost: Fee	Cost: Temporary	Relocation	Sub-Total	Cost to Cure	Comments	
15	VARIOUS	VARIOUS \$1,800,000	3	\$1,800,000	13,000	ON.	10000	0,230		\$134,250	\$166,036	S		\$166,036			
					50.							93		8			
												0\$		28			
												98		8			
										211.		88		8			
										100		80		20			
	Administrativo Costs Jury trial Costs Incidontal Transfer Costs	Sosts Pr Costs	[(sut	[(sub-total)x0.15]x1.20 [(sub-total)x0.10]x1.50 [(sub-total)x0.90]x1.50	8 5 5				Sub-Totals		\$166,036	S	8	\$156,036 \$29,887 \$24,905	8		
	All aroas aro in acres.	acres.						щŞ	Estimated Cost Contingency (50%) TOTAL COST	₩ %			AT 118	\$224,564 \$112,282			
	Labor Cos (per ODOT Co	Labor Cost Includes the following: (per ODOT Cost Estimating Procedures For According Bishop of Many	ollowing: Procedures	TEGG		Detailed Appraisal		Detailed Appraisal Roviow	Negotiation	osings	Project Management						
	יאר איר	in children given	way)	8400		\$4,500		\$2,000	\$1.100	\$400	\$550						



CITY OF RIVERSIDE MAJOR THOROUGHFARE ASSESSMENT PHASE I, GROUPING 4 NOVEMBER 2014

HARSHMAN ROAD (CITY LIMIT TO CITY LIMIT)

TASK	ESTIMATED COST
General Road Condition Improvement SR4- N. Corp, less new pavement at Valley. Total reconstruction of asphalt and aggregate, fill in gaps for sidewalks, skip section rebuilt in 2012, some curb replacement, minor drainage repairs	Construction Cost- \$3,957,000
TOTALHARSHMAN ROAD (CITY LIMIT TO CITY LIMIT)	\$3,957,000

Notes

All cost estimates are based upon 2014 dollars.

For normalizing right of way widths, note that property acquisition not needed for a construction project would need to be pursued via normal property negotiations. While this can be more expensive and difficult than right of way acquisition during construction projects, the lack of the need for additional right of way does make projects more attractive to certain funding agencies.



HARSHMAN REHAB CITY OF RIVERSIDE PRELIMINARY CONSTRUCTION ESTIMATE - NOVEMBER 2014

ITEM	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
201	CLEARING AND GRUBBING	1 LS	\$5,000	\$5,000
202	PAVEMENT REMOVED	45000 SY	\$8	\$360,00
202	WALK REMOVED	500 SF	\$2	\$75
202	CURB REMOVED	1500 LF	\$3	\$4,50
204	SUBGRADE COMPACTION	45000 SY	\$2	\$90,000
254	PAVEMENT PLANING, ASPHALT CONCRETE	1000 SY	\$3	\$2,50
301	ASPHALT CONCRETE BASE, PG64-22, 6"	7500 CY	\$110	\$825,00
304	AGGREGATE BASE, 10"	12500 CY	\$40	\$500,000
407	TACK COAT	7000 GAL	\$3	\$21,000
448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22M, 1.5"	1800 CY	\$150	\$270,000
448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64- 22, 1.5"	1800 CY	\$150	\$270,000
608	4" CONCRETE WALK	22500 SF	\$5	\$112,500
609	CURB, TYPE 6	1500 LF	\$15	\$22,50
609	CONCRETE DRIVE APPROACH	30 EA	\$2,500	\$75,000
644	PAVEMENT MARKINGS	1 LS	\$10,000	\$10,000
832	SWPPP	1 LS	\$3,500	\$3,500
832	EROSION CONTROL	1500 EA	\$1	\$1,500
		Control Control	Subtotal	\$ 2,574,000.00
614	MAINTAINING TRAFFIC	1 LS	\$20,000	\$20,000
619	FIELD OFFICE, TYPE B	9 MN	\$1,600	\$14,400
623	CONSTRUCTION LAYOUT STAKES	1 LS	\$15,000	\$15,000
624	MOBILIZATION	1 LS	\$40,000	\$40,000
			Subtotal	\$2,664,000
		Desi	gn Risk (35%)	\$933,000
			Subtotal	\$3,597,000
		Engineeri	ng Cost (10%)	\$360,000
		•	Total	\$3,957,000

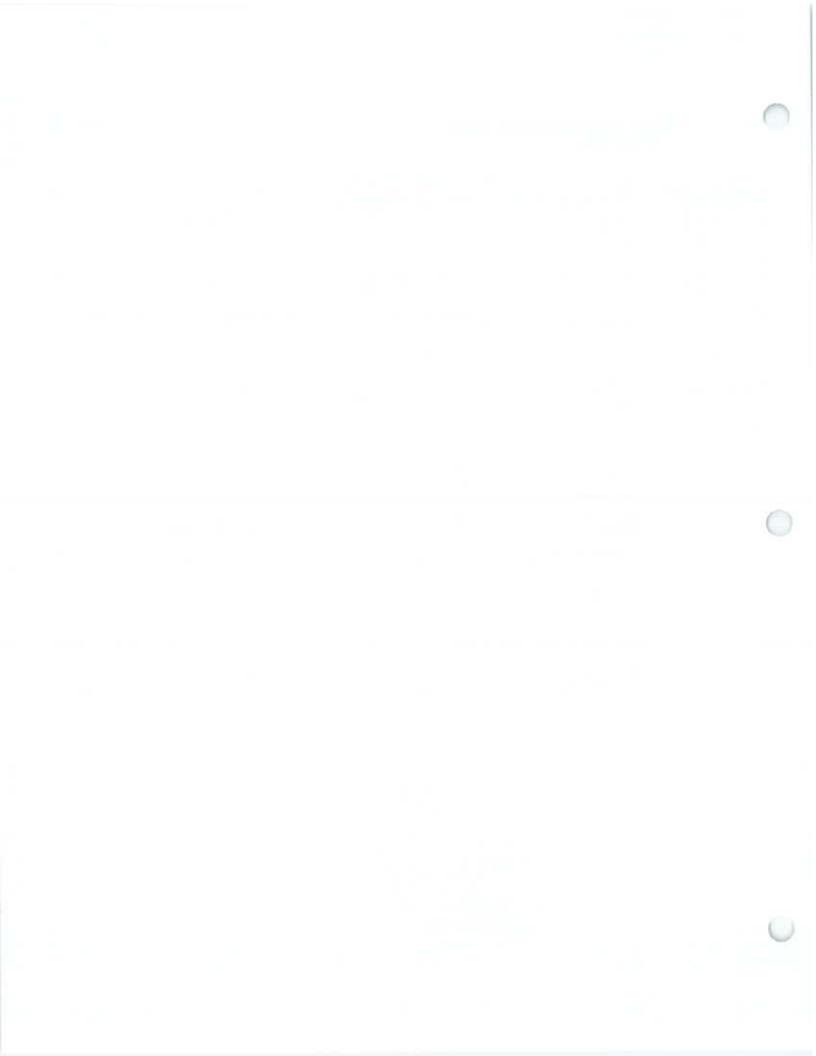
BRIDGE: Olentangy Road over stream

SFN: 5770742

BRIDGE LOAD RATING REPORT

Bridge Description	Two cell cast-in-place	our-sided concr		
Work Details	Load rate existing struc			ODOT requirements
Spans (C/C Bearings)	10'-0" each		ite militaria	ODO F Tequire (Herito).
Bridge Plan Information				
Material Strengths	Steel strength estimate	d = 36 ksi. Con	crete strength estim	ated = 3,500 psi.
Live Load Distribution	Calculated by the progr	am per AASHT	O 3.30 and	0.108 lanes/ft
Rating Method	Load Factor			
Rating Software	BRASS Culvert			
Special Assumptions	Year of Construction us	sed = 1950. No	future wearing surfa	ce used in analysis, extra 10 lb/ft used
	in superimposed dead I	oad to be conse	rvative.	or accessing the contract of t
Structure Rating		Rating	Member	Location
Summary	Inventory HS	20.7	2	At middle support
	Operating HS	34.4	2	At middle support
	Ohio Legal Loads (%)	202.2%	2	At middle support
	2F1 (Tons)	39.2	2	At middle support
	3F1 (Tons)	46.5	2	At middle support
	4F1 (Tons)	59.4	4	At middle support
	5C1 (Tons)	83.5	2	
Rated by		83.5		At middle support
Rated by	5C1 (Tons) Daniel W. Springer, P.E LJB Inc.	83,5	2	At middle support
	5C1 (Tons) Daniel W. Springer, P.E LJB Inc. 3100 Research Bouleva	83.5 ard, P.O. Box 20	2	At middle support
	5C1 (Tons) Daniel W. Springer, P.E LJB Inc. 3100 Research Bouleva Dayton, OH 45420-0246	83.5 ard, P.O. Box 20	246	At middle support
	5C1 (Tons) Daniel W. Springer, P.E LJB Inc. 3100 Research Bouleva Dayton, OH 45420-0246 Phone: (937)259-5000	83.5 ard, P.O. Box 20	246	At middle support
	5C1 (Tons) Daniel W. Springer, P.E LJB Inc. 3100 Research Bouleva Dayton, OH 45420-0246	83.5 ard, P.O. Box 20	246	At middle support





14 4 1 af 2 ? Þ ÞI Find | Next 🖳 🕶 🍪 (200) Bridge (Codmittal) Name BRIDGE INVENTORY AND APPRAISAL Report Date: 11/12018 Biruches File Number: 8770742 Belficiency Rating: 972.9 - Selliciency Rating: 90.1 Inventory Bridge Vander: MOT 152940 03030 8 FREAM Bridge Blatco Active (3) County 57-MONTGOMERY Owner MUNICIPAL/TOWNSHIP 125 District -07 (9) Lecution 1.4 Mi South Of Br35 (7) Facility Carried: Ofentangy Dr (4) FIPS Code: MOT-M-67488-RIVERSIDE (208) Route On Bridge, Municipal (207) Route Under Bridge: Non Highway Traffic On Bridge (I.E. (102) Direction of Traffic: 2 - 2-Way (183) Temporary Structure (110) Designated National Network: Not National Network (101) Parallel N (42A) Type Serv: (On): Highway (42B) Type Serv (Under): Waterway (45) Main Spans Number: 2 (43) Type Con (SA) Soute Onfunder: 1 - Route Cerned "Cirl" The Structure (46) Approach Spans Nbr. 0 (44) Type: None Nigone filiane (58) Hwy Syx: 5 - Municipal Street (I.E. Village, Town, Ci. 307) Total Seams 2 (SD) Route No. M2540 (SE) Oir Not (B) Feature Int. Stream (5C) Des: Marrine (48) Max Span: 10.0 Ft (49) Overall Leng: 24.0 Ft (200) CL 00000 (201)Spec Des. (200) Interstate Mile Abut-Relat (532) Metil (531) Type: (533) Find: Name (Buch As Most Cuiverts) (29) Avg. Daily Treffo(ADT): 41B (30) ADT Year 2012 (235) Truck Tref. 100 (210) Comidor N (104) NHS mute is not on the Abut-Pwd (527) Matt (528) Type (528) Find: Ninne (Such As Most Culverts) (26) Functional Class: urban-(100) Stratest Route is Net A Strateget INTERNEUTED HOUSE DATA (3/10A) Record Type: Pier Pres (535) Matt (834) Tape. (\$38) Fnd. None (Spch As Most Culverts) (3708) Hwy Sys: 3700) Route No. (370E) Oir (\$70C) Des (653) Stream Velocity (00000 fps. (113) Szour: Action is Required To Protect Exposed Fo. (373) Feature Inc. 935) Underwater Inspection N Freq. (656) Chair Prot. Concrete (Cast-in-Place) (382) CL 0000 (371) Interstate Mile (379) Ave. Delty Traffic/ADTs 0 (387) Spenier Desig (380) ADT Year 0 (936) Date of last Underwater losp (657) Drainage Area: UUU-Sq Mr (381) Truck Tref. 0 (384) Conidor (378) NHE (375) Functional Class. (388) Stratut CLEASURER INDER THE SHIP OF Min. Hors: Under Clear. (326) NC 0 0 Ft (325) Card 0.0 Ft Min. Hiszon Bridge (335) NC 0.0 Ft (67) Cont. 26.0 Ft (S3) Prac Max Vert On Brg 9009 5 Ft (326) Prac Max Vrt Under Clear: 0.0 Ft Min Vrt Cir On Brg: (336) NC: 0.0 Ft (10) Card. 9999-9 Ft Min Vert Under Clear (327) NO 0.0 Ft (54) Card 0.0 Ft Min Lett Ctr. (338) Right NC 0 0 F1 (337) Right Card 0.6 Ft Mirr Lat Under Clear (329) Right NC: 0.8 Ft (55) Right Card: 0.0 Ft. (340) Left NC: 0:0 Ft (339) Left Card: 0.0 Ft (330) Euft NO: 0.0 Ft (SB) Let Cent GO Ft (19) Bypass Length: 1.0 Miles (31) Design Load: H820 (71) Waterway Adequacy: 6 Equal to present minimum criteria (16) Latitude: 39 Deg 45 Min 50.60 Sec (17) Longitude: 84 Deg 06 Min 58.38 Sec (64) Opt Rat Fact/Ten: 1.720 (72) Approach Alignment. 6 Equal to present minimum criteria (20) Talk On Free Road, The Structure is Yolf Free 85) inv Hat Fact/Ton: 1 040 (67) Calc Str Appraisal: 4 - Moots minimum tolerable limits. (263) Date Built. 7/1/1950 (264) Major Reconstruction Date: (734) Ohio Percent of Legal Load: 150 (68) Calc Deck Geometry: N - Not Applicable 704) Year of Rating 2010 (708) Rate Soft Bress (28A) No. Lanes On 2 (69) Calc Underclearance: N - Not Applicable (288)No. Lanes Under 0 83) Opr Rat Method: Load Factor Rating (Lft) Reported By Rf (301) Home Curve (34) Skew, 6 Dep. fiS) Inv Rat Mathod: Load Factor Rating (LV) Reported By Rf (32) App. Retw Watts. 26 Ft (51) Bro. Ridw Width: II G Ft Load Rate: (705) Dariel (708) Springer (707) PE# 89027 (52) Dack Wells: 0.0 Ft (424) Deck Area: 624 Sq. Ft woman 406) Median Type: (Non Same) dia Join 401) Approach Guardrall None (33) Bridge Median, No Median (403) Approach Pavement: Bituminous (400) Grade: Good Sideweks (50A) LAR 4 0 FY (888) Right 4.0 Ft SHILL DENT IN Type Curb or Sidewalk: (575) Culvert Type: 4-Sided Box (Concrete Cast-In-Place), fit (578) Length 82.0 Ft (427) Left Madi (500) Depth of Fit 2.5 Ft (425) Type: Sidewalk (Greater Than 2' In Width) (582) Headwalls: Concrete (429) Right Matl: (430) Type: Sidewalk (Greater Than 2' In 475) Main Member: Not Applicable (Culverts, Trusses, Archo (477) Moment Plate. Not Applicable (414) Expansion John Non 35) Flamet 0 (408) Composite: X - Not Applicable 453) Bearing Devices: None (407) Raling None 38) Navigation: 0 (39) Way Vert Cir. 0.0 Ft. (40) New Horse Clear: II O Ft 409) Deck Drainage: None 92C) Specinso N Fran 0. (BOC) Special trapector Date (107) Duck Type: Norm 92A) Fracture Critical Imap: N. Freq D (93A) Fracture Craical Feature Inspection Outs Deck Protection: (108B) External: Not Applicable (Only For Bridges With No 474) Main Structure System: Not Applicable (I.E. Culvert, Beam, Slab (468) Hinges Not Applicable (Structures With No Hinge (108C) Internal: Not Applicable (Applies Only To Bridges (487) fitructural Steel Memb. Non-(485) Framing None Or Not Applicable (108A) Wearing Surface: Not Applicable (Culvert Under Fill Etc.) 482) Paint: None Or Not Applicable (426) Bridge Railing Steet: N (423) Thickness: in (422) Date of Weening Surface. 483t PCS Date (147) Stope Protection: None



		Funding		
STP	Safety	Local	OPWC Grant	Total Funding
\$1,610,400		\$1,268,600		\$2,879,000
	\$639,000	\$242,900		\$881,900
\$1,610,400	\$639,000	\$1,511,500		\$3,760,900
\$1,610,400	\$639,000	\$288,852		\$2,538,252
		\$979,748		
		\$315,062	\$315,062	\$630,123
\$1,610,400	\$639,000	-\$26,210	\$315,062	\$2,538,252

\$315,062

TOTAL CITY LOCAL MATCH

-\$26,210

TOTAL OUTSIDE FUNDING

\$2,564,462

TOTAL CITY LOCAL MATCH %

-1%

