Sidewalk Master Plan

PRESENTED TO:

City of Jeffersonville
Department of Redevelopment
500 Quartermaster Court
Jeffersonville, Indiana 47130

PREPARED BY:

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August 2011

Jacobi, Toombs & Lanz, Inc.
Consulting Engineers & Land Surveyors

Acknowledgements

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Executive Summary

The City of Jeffersonville contracted Jacobi, Toombs & Lanz, Inc., Consulting Engineers to prepare a Master Plan for sidewalks throughout the City of Jeffersonville that will set a path for improvements to the City's pedestrian infrastructure. This Sidewalk Master Plan is the next step toward enhancing safe and convenient walking routes throughout the City of Jeffersonville, and should encourage walking as a viable mode of transportation by enabling people to walk to and from common destinations. The primary focus therefore, is to identify missing links in the existing sidewalk network and to prioritize the necessary sidewalk construction.

This Sidewalk Master Plan should serve as the primary guide in the allocation of capital and matching funds and includes the following elements:

- Project identification based on public input and review with City representatives
- Develop overall project location map
- Identify potential obstacles/issues
- Identify missing links in the system
- Prioritization of sidewalk projects
- Review and incorporate ADA requirements
- Estimate construction cost for each identified project
- Prepare 5-year plan considering funding availability and coordination opportunities with other projects

The goal of this Sidewalk Master Plan is to identify an interconnected and continuous network of sidewalks and pedestrian thoroughfares throughout the City of Jeffersonville that allow residents and visitors to move about the City safely and efficiently as pedestrians.

At the completion of this report, it will be submitted to the Redevelopment Commission for a recommendation to the City Council for implementation on future sidewalk infrastructure improvements.

Introduction

Sidewalks play an important role in the daily movement of pedestrians. They enhance safety by separating pedestrians and vehicles. Sidewalks create a recreational and healthy path for walking and jogging while creating a location for children to play. Streetscapes in conjunction with sidewalks often times provide "curb appeal" to compliment the adjacent structures and amenities. Sidewalks connect neighborhoods to schools, parks, shopping and so much more. Most importantly of all, sidewalks create a way for pedestrians to safely walk to their desired destination!

The purpose of this Sidewalk Master Plan is to identify the needs of the City of Jeffersonville by outlining and facilitating an implementation program to encourage the smart growth of sidewalk infrastructure in Jeffersonville.

Existing Infrastructure

Overall

Jeffersonville, being part of a larger metropolitan area, has observed a steady increase of population growth with its associated residential construction over the past 30 years. As a part of this growth, large residential subdivisions have developed on the far edge of the City limits. With the construction of stand-alone residential subdivisions, the system of pedestrian facilities is often discontinuous and sometimes non-existent, leaving the need for the local government to step in and provide sidewalk extensions and connections to the outlying neighborhoods and developments. It is only recently that the City has implemented planning and zoning requirements for the construction of sidewalks with new development.

Jeffersonville is comprised of two different styles of development, Downtown Jeffersonville with mixed usage, and the Outlying areas of Jeffersonville with large residential subdivisions which are sometimes separated from other developments by as much as 2 or 3 miles.

Downtown

Downtown Jeffersonville, for the most part, has existing sidewalk infrastructure throughout. The issues associated with downtown are somewhat different than the rest of the City due to the age of its infrastructure. Sidewalks downtown were constructed long before handicap accessibility was a consideration or a requirement, leaving many areas that need to be repaired and/or replaced to allow for proper access to all pedestrians.

Outlying Areas

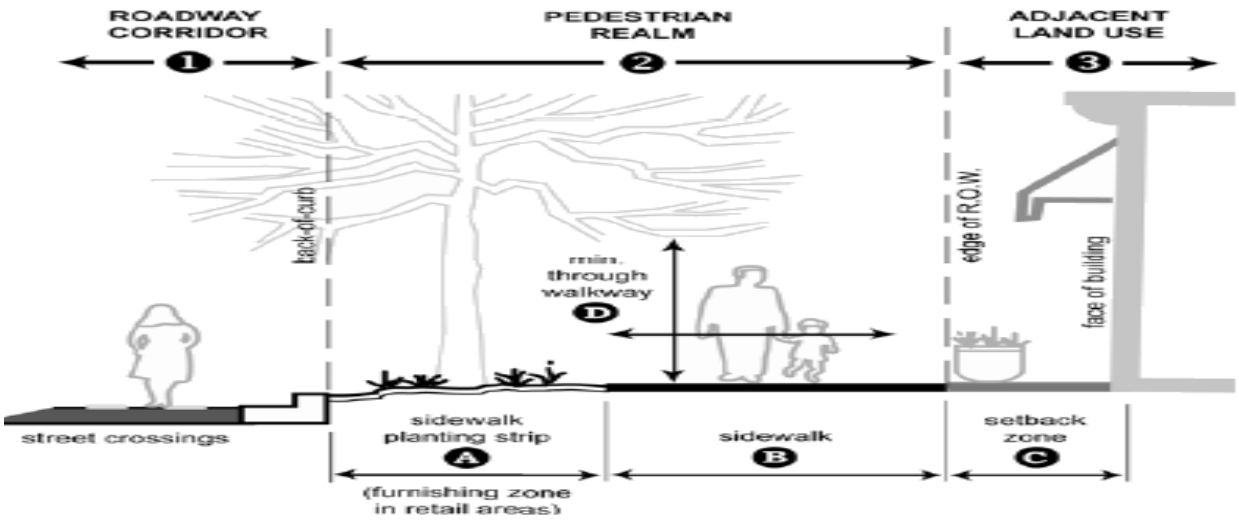
In 2008, the City of Jeffersonville annexed large residential neighborhoods that were previously constructed under Clark County development standards that didn't require, among other things, the construction of sidewalks or other pedestrian accessibility standards. It was left up to the developers and builders to decide whether or not they would construct these desired amenities. Many chose to leave these out of their development plans.

These two diverse areas allow for Jeffersonville to maintain its historic heritage while promoting residential growth in the surrounding areas.

Project Identification and Considerations for Smart Growth with Sidewalk Infrastructure

As a part of the planning and project selection process, there are a number of questions and variables that need to be addressed before moving forward with a sidewalk infrastructure improvement project. Some of these variables are identified below:

- Would the implementation of this project be better fit for construction with an overall road rehabilitation project?
- Will the location of the sidewalk infrastructure allow for future road widening on major thoroughfares without having to replace the current proposed improvements?
- Could the proposed infrastructure project be built with the development of a residential or commercial project and funded by private development?
- Are there drainage concerns with the proposed project that would make it a better fit for a multi-departmental improvement project?
- Does the proposed improvement provide pedestrian facilities where none exist, but are warranted?
- Does the proposed improvement connect a missing link in a known pedestrian traveled area?
- Will the project provide connections to future development projects?
- Will right-of-way acquisition be required for construction of the proposed project?
- How many residents will have direct access to the infrastructure?
- Will the project provide a safe walking route to a school?



The following table depicts potential sidewalk projects as identified by City representatives and public input. The projects have been reviewed for "Smart Growth" characteristics to help identify priority projects, or projects that will have the largest impact.

Project Name/ Descriptive Analysis	Connection to major thoroughfare	Connection with future/ proposed transportation infrastructure improvements	Pedestrian access to school	Join missing link/sidewalk connection	Connection to large residential areas	Connection to business/commercial development	Connection to park/recreational area	Requires right-of-way acquisition	Requires substantial drainage improvements	Requires substantial utility relocation	Best suited for construction w/roadway improvement project
Allison Lane (Meadowlark to Middle Road)	X		X		X	X		X			
Allison Lane (Middle Road to Utica Pk)	X				X			X	X		X
Augusta Drive	X	X		X	X						
Charlestown-Jeff Pike (Raintree Ridge to Windy Pines)				X	X			X			
Charlestown-Jeff Pike (Holmans Ln to Morgan Trail)	X	X	X	X	X			X			
Dutch Lane	X				X	X		X		X	X
Ewing Lane	X		X	X	X		X				
Harrison Avenue (Spring St. to National Ave.)	X			X	X	X					
Hopkins Lane	X			X	X						
Howard Avenue/Bob Hedge Park Area				X			X				
Kewanna Drive	X			X	X						
Maple Street (Maple Elementary)			X	X	X		X				
Middle Road (Allison Lane to Pebble Creek Drive)	X			X	X	X					
Middle Road (Perrin Lane to Allison Lane)	X			X	X	X	X				
Plank Road (America Place to Oaklawn Ave.)	X	X		X	X	X		X	X		
Riddle Street (Spring Street to Green/Locust Street)	X		X	X		X	X				
Skyline Acres (Horizon Way, Sky Ridge Rd, & Sky View Ln)		X			X						
Springdale Drive	X	X		X	X	X					
Tenth Street (Vissing Park Road to Allison Lane)	X				X	X	X				
Tenth Street & Allison Lane (Thornton's/Rural King)	X			X		X					
Utica Pike (Perrin Lane to Pawnee Drive)	X				X		X	X			
Utica Pike (Allison Lane to Pawnee Drive)	X				X		X	X			
Vissing Park Road	X				X	X	X	X			
Woehrle Road	X		X	X	X	X					

The following maps depict potential sidewalk improvement projects as identified by City representatives and public input.

CITY OF JEFFERSONVILLE BOARD OF PUBLIC WORKS & SAFETY			JACOBI, TOOMBS & LANZ, INC. CONSULTING ENGINEERS 120 BELL AVENUE CLARKSVILLE, INDIANA 47129 (812) 288-6646		FIGURE 1
PROPOSED SIDEWALK PROJECT LOCATIONS					
SCALE: 1" = 3000'	DATE: 8-2-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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CITY OF JEFFERSONVILLE BOARD OF PUBLIC WORKS & SAFETY			JACOBI, TOOMBS & LANZ, INC. CONSULTING ENGINEERS 120 BELL AVENUE CLARKSVILLE, INDIANA 47129 (812) 288-6646		FIGURE 2
PROPOSED SIDEWALK PROJECT LOCATIONS					
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Coordination with Other Projects

The City of Jeffersonville is a part of a larger metropolitan area with Southern Indiana and Louisville, Kentucky. As such, there are projects both in Jeffersonville and in the metropolitan area that can provide a major impact to pedestrian traffic in and around the City. Some of the current projects that are currently in the design phase that will affect pedestrian traffic, and that should be considered in the planning and implementation of infrastructure improvements, are listed below:

Jeffersonville Canal

The Jeffersonville Canal is an ambitious project being developed to ease the City's flooding problems and combined sewer emission reduction efforts. The canal will not only mitigate these problems, but will also provide significant economic development and recreational opportunities, resulting in a regional destination. Major pedestrian access is an integral design component of the project, and it will attract significant public/private development.

Photo rendering courtesy of www.jeffersonvillecanal.com

Veterans Parkway Phase II Reconstruction

The Veterans Parkway Corridor connects residential properties, schools and commercial development. This road improvement project will provide sidewalks along Veterans Parkway from Woehrle Road to Holmans Lane and then along Holmans Lane to 10th Street.

Big 4 Bridge Pedestrian Bridge

The City of Jeffersonville, State of Indiana, City of Louisville, and the State of Kentucky have been collaborating for some time to complete an improvement on the Big 4 Bridge that will provide for a pedway connection between the City of Jeffersonville and the City of Louisville. This project, when completed, will connect the City of Jeffersonville to a series of pedestrian paths throughout the metropolitan area.

10th Street Rehabilitation

10th Street is one of the main thoroughfares in Jeffersonville. The City is currently in the engineering design phase of a street widening project that will make major transportation improvements to the roadway, including installing sidewalks, handicap ramps and crosswalks. The implementation of pedestrian infrastructure on 10th Street will provide a corridor for connecting many residential areas to the commercial development along 10th Street.

Jeffersonville Stormwater Master Plan

The Drainage Board of the City of Jeffersonville is implementing a new Stormwater Master Plan to recommend drainage infrastructure improvements throughout the City. Due to the convenient nature of most sidewalk and drainage infrastructure often occupying the same location, it will be prudent for the City to evaluate both plans in conjunction with future improvements in order to save costs.

Ohio Bridges Project

The State of Indiana in conjunction with the State of Kentucky is planning the construction of another bridge crossing the Ohio River parallel to the I-65 Interstate Bridge, as well as an "East-End" Bridge that will connect the extension of I-265 in Indiana to Kentucky. It is important for the City to identify any possible conflicts to pedestrian movement before investing in infrastructure improvements near the proposed bridge and accessory roads and structures.

Ohio River Greenway

The Ohio River Greenway Project extends from Jeffersonville to New Albany, and consists of a multi-use path, providing an excellent destination point for residents and visitors. It includes major pedestrian facilities and will be an important asset.

Americans with Disabilities Act (ADA)

As a local government, the City of Jeffersonville must comply with the Americans with Disabilities Act as outlined by the Department of Justice which published revised regulations for Titles II and III of the Americans with Disabilities Act of 1990 "ADA" in the Federal Register on September 15, 2010. These regulations adopted revised, enforceable accessibility standards called the 2010 ADA Standards for Accessible Design "2010 Standards" or "Standards". The 2010 Standards set minimum requirements – both scoping and technical – for newly designed and constructed or altered State and local government facilities, public accommodations, and commercial facilities to be readily accessible to and usable by individuals with disabilities.

The following excerpts from the"2010 ADA Standards for Accessible Design" identify the guidelines for pedestrian accessibility:

> ***35.151 New construction and alterations.***
> ***(a) Design and construction.***
> (1) Each facility or part of a facility constructed by, on behalf of, or for the use of a public entity shall be designed and constructed in such manner that the facility or part of the facility is readily accessible to and usable by individuals with disabilities, if the construction was commenced after January 26, 1992.
>
> ***(i) Curb ramps.***
> (1) Newly constructed or altered streets, roads, and highways must contain curb ramps or other sloped areas at any intersection having curbs or other barriers to entry from a street level pedestrian walkway.
> (2) Newly constructed or altered street level pedestrian walkways must contain curb ramps or other sloped areas at intersections to streets, roads, or highways.

In order to comply with ADA requirements, the City of Jeffersonville should follow the standards of the Indiana Department of Transportation for sidewalk, curb ramp and pedestrian accessibility design and construction.

Although existing sidewalks were not analyzed for ADA compliance as a part of this Master Plan, the City of Jeffersonville should continue to upgrade its existing infrastructure to meet ADA standards wherever possible.

Estimated Construction Costs

The following table summarizes estimated construction costs for each selected project. Projects were selected based on proximity to schools or other major destinations, availability of parallel routes, and input from City personnel:

Project Names	Estimated Engineering Design & Construction Cost	Estimated R/W Acquisition Cost
Allison Lane (Meadowlark to Middle Road)	$225,000	-
Allison Lane (Middle Road to Utica Pk)	$735,000	$100,000
Augusta Drive	$245,000	$20,000
Charlestown-Jeff Pike (Raintree Ridge to Windy Pines)	$105,000	$15,000
Charlestown-Jeff Pike (Holmans Lane to Morgan Trail)	$215,000	$45,000
Dutch Lane	$1,205,000	$80,000
Ewing Lane	$320,000	-
Harrison Avenue (Spring St. to National Ave.)	$35,000	-
Hopkins Lane	$290,000	$20,000
Howard Avenue/Bob Hedge Park Area	$35,000	-
Kewanna Drive	$175,000	-
Maple Street (Maple Elementary)	$90,000	-
Middle Road (Allison Lane to Pebble Creek Drive)	$240,000	-
Middle Road (Perrin Lane to Allison Lane)	$295,000	-
Plank Road (America Place to Oaklawn Ave.)	$280,000	$20,000
Riddle Street (Spring Street to Green/Locust Street)	$25,000	-
Skyline Acres (Horizon Way, Sky Ridge Rd, & Sky View Ln)	$170,000	-
Springdale Drive	$205,000	-
10th Street (Vissing Park Road to Allison Lane)	$400,000	$25,000
10th Street & Allison Lane (Thornton's/Rural King)	$45,000	-
Utica Pike (Perrin Lane to Pawnee Drive)	$240,000	$25,000
Utica Pike (Allison Lane to Pawnee Drive)	$440,000	$30,000
Vissing Park Road	$345,000	$10,000
Woehrle Road	$145,000	-
Total	**$6,505,000**	**$390,000**

*All cost estimates have been rounded to the nearest $5,000 for planning purposes. Cost estimates are based on a preliminary review of the project and are subject to change during the engineering design of the project.

Right-of-way acquisition costs were based on the following:

- Residential right-of-way = $50,000/acre
- Commercial right-of-way = $75,000/acre

Public Participation

An integral part of all master planning is public involvement. On March 31, 2011, the City of Jeffersonville held a public meeting regarding the Sidewalk Master Plan to seek input on infrastructure needs throughout the City. During this meeting, we received comments regarding desirable sidewalk infrastructure locations. The locations identified during this meeting were:

- Court Avenue – Various locations
- Vissing Park Road – 10th Street to Vissing Park
- 10th Street – Vissing Park Road to Allison Lane/Meijer's Shopping Center
- Bob Hedge Park Area – Sidewalks in vicinity of Park
- Pearl Street - At Riverside Drive

A draft copy of the Sidewalk Master Plan will be made available for public input and comment before finalizing the plan.

Potential Funding Sources

Financial consideration can be one of the most important aspects of any plan or project. This Master Plan establishes a guide to identify potential projects and their estimated cost, thus allowing the City to plan how to fund them. With that in mind, there are several funding opportunities available other than local financing, some of which are identified below:

Indiana Safe Routes to School Program

The Indiana Safe Routes to School (SRTS) Program is based on the federal program designed to make walking and bicycling to school safe and routine. Walking and bicycling are viable transportation alternatives for travel to and from school with significant potential benefits, among them reductions in motor vehicle traffic, associated fuel consumption for school trips and improved air quality.

Congestion Mitigation/Air Quality (CMAQ)

The purpose of the CMAQ program, which can provide federal funds and is administered by the Indiana Department of Transportation (INDOT), is to fund transportation projects or programs that will contribute to attainment or maintenance of the national ambient air quality standards (NAAQS) for ozone, carbon monoxide (CO), and particulate matter (PM). The CMAQ program supports two important goals of INDOT: improving air quality and relieving congestion. While these goals are not new elements of the program, they are strengthened in a new provision added to the CMAQ statute by SAFETEA-LU, establishing priority consideration for cost-effective emission reduction and congestion mitigation activities when using CMAQ funding.

Public/Private Partnership

A partnership between the City and a private business or entity can provide great benefits to both parties. The City can reap the benefits of infrastructure improvements while the business may receive an aesthetic benefit from desired improvements such as sidewalks and streetscapes and improved access to their place of business.

Tax Increment Financing (TIF)

Projects located within one of the City's TIF districts may qualify for tax incrementation revenue to fund the project.

Economic Development Income Tax (EDIT)

In the past, the City has used EDIT funds to pay for sidewalk infrastructure improvements. Based on fund availability, this may continue to be the most viable funding source.

5-Year Sidewalk Master Plan Conclusion and Recommendations

There is clearly a need for improvements to the City's sidewalk infrastructure where new development is not likely to provide funding for that construction. The list of proposed new sidewalk projects identified in this plan represents a significant capital and ongoing maintenance investment by the City. There is no expectation that these projects could all be funded in the foreseeable future. However, it is the intent of this plan to provide a prioritized set of recommended improvements so that the City can establish a reasonable and on-going funding program for improving the pedestrian system in Jeffersonville above and beyond those facilities constructed by development projects.

In consideration of anticipated funding availability and opportunities to coordinate with existing projects, the following schedule has been developed:

Year 1

The first year of implementation for this Master Plan should include smaller projects that can provide the most benefit with the least amount of financial planning, Engineering design, and right-of-way acquisition. The following projects meet this criteria:

- Harrison Avenue
- Howard Avenue/Bob Hedge Park Area
- Riddle Street
- Maple Street
- Tenth Street and Allison Lane (Rural King to Thornton's)

The total estimated cost of these projects is $230,000.

Year 2

The second year of implementation should include intermediate size projects that do not require coordination with other projects, and with minimal right-of-way acquisition. These projects are as follows:

- Any projects not completed in Year 1
- Vissing Park Road
- Hopkins Lane
- Utica Pike (Perrin Lane to Pawnee Drive)

The total estimated cost of these projects is $930,000.

Years 3-5

At the completion of sidewalks identified for construction in Years 1 and 2, it is suggested that City representatives review and evaluate the remaining recommendations for coordination with other City of Jeffersonville projects to allow for construction and

implementation of infrastructure developments that will allow for "Smart Growth" and make the best impact for residents of the City of Jeffersonville.

Potential Year 3 Projects

Without considering the financial availability of the City, a list of Year 3 projects could be:

- Allison Lane (Meadowlark to Middle Road)
- Charlestown-Jeffersonville Pike (Holmans Lane to Morgan Trail)
- Augusta Drive
- Plank Road (America Place to Oaklawn Avenue)
- Tenth Street (Vissing Park Road to Allison Lane)

The total estimated cost of these projects is $1,475,000.

Potential Year 4 Projects

- Skyline Acres
- Charlestown-Jeffersonville Pike (Raintree Ridge to Windy Pines)
- Springdale Drive
- Middle Road (Allison Lane to Pebble Creek)
- Middle Road (Perrin Lane to Allison Lane)

The total estimated cost of these projects is $1,030,000.

Potential Year 5 Projects

- Kewanna Drive
- Ewing Lane
- Utica Pike (Allison Lane to Pawnee Drive)
- Allison Lane (Middle Road to Utica Pike)*

The total estimated cost of these projects is $1,800,000.

**Allison Lane is a major thoroughfare in the City of Jeffersonville with many needs. It is recommended that sidewalk infrastructure along Allison Lane from Middle Road to Utica Pike be constructed in conjunction with a road and drainage rehabilitation project. This project will require substantial right-of-way acquisition and drainage improvements.*

Additional Recommendations

The City of Jeffersonville, after review of available funds, should identify an annual budget for repairing broken and non-ADA compliant sidewalks and ramps, with emphasis on the Downtown area due to the age of its infrastructure.

The Woehrle Road Sidewalk project would be best suited for construction with a private development project due to the developable land along the project route, and is not included in this Master Plan for implementation.

Additional Recommendations (Continued)

Dutch Lane is a narrow roadway with minimal available right-of-way. Both sides of the road are occupied by utilities that the City would be required to pay to relocate for the construction of sidewalks. At this time, this project has not been included for implementation as a part of this Master Plan, but should be reevaluated at a later time.

Appendix A

Sidewalk Graphics

Figure A-1: Allison Ln from Meadowlark Rd to Middle Rd

Figure A-2: Allison Ln Sidewalk from Middle Rd to Utica Pk (Middle Rd to Noah's Ln)

Figure A-3: Allison Ln Sidewalk from Middle Rd to Utica Pk (Noah's Ln to Utica Pk)

Figure A-4: Augusta Dr Sidewalk

Figure A-5: Charlestown Pk Sidewalk from Raintree Ridge to Windy Pines

Figure A-6: Charlestown Pk Sidewalk from Holmans Ln to Morgan Trail

Figure A-7: Dutch Ln Sidewalk

Figure A-8: Ewing Ln Sidewalk

Figure A-9: Harrison Ave Sidewalk from Spring St to National Ave

Figure A-10: Hopkins Ln Sidewalk

Figure A-11: Howard Ave Sidewalk in the Bob Hedge Park Area

Figure A-12: Kewanna Dr Sidewalk

Figure A-13: Maple Elementary Area Sidewalks

Figure A-14: Middle Rd Sidewalk from Allison Ln to Pebble Creek Dr

Figure A-15: Middle Rd Sidewalk from Perrin Ln to Allison Ln

Figure A-16: Plank Rd Sidewalk from America Place to Oaklawn Ave

Figure A-17: Riddle St Sidewalk from Spring St to Green/Locust St

Figure A-18: Skyline Acres Sidewalk on Horizon Way, Sky Ridge Rd and Sky View Ln

Figure A-19: Springdale Dr Sidewalk

Figure A-20: Tenth St Sidewalk from Vissing Park Rd to Allison Ln

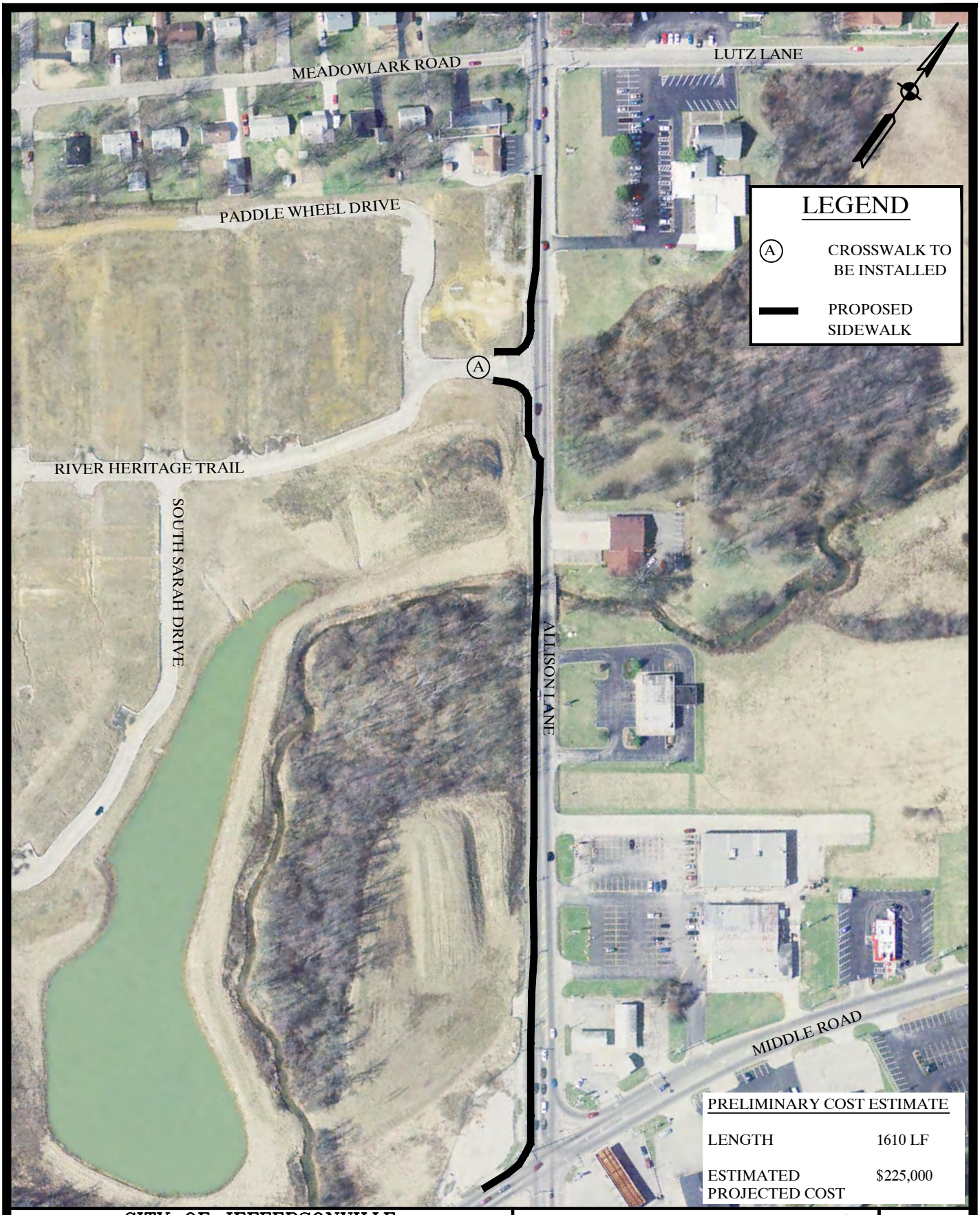
Figure A-21: Tenth St and Allison Ln Sidewalk (Thornton's/ Rural King)

Figure A-22: Utica Pk Sidewalk from Perrin Ln to Pawnee Dr

Figure A-23: Utica Pk Sidewalk from Allison Ln to Pawnee Dr

Figure A-24: Vissing Park Rd Sidewalk

Figure A-25: Woehrle Rd Sidewalk



CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

ALLISON LANE SIDEWALK FROM MEADOWLARK ROAD TO MIDDLE ROAD

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-1

SCALE: 1" = 200'	DATE: 7-28-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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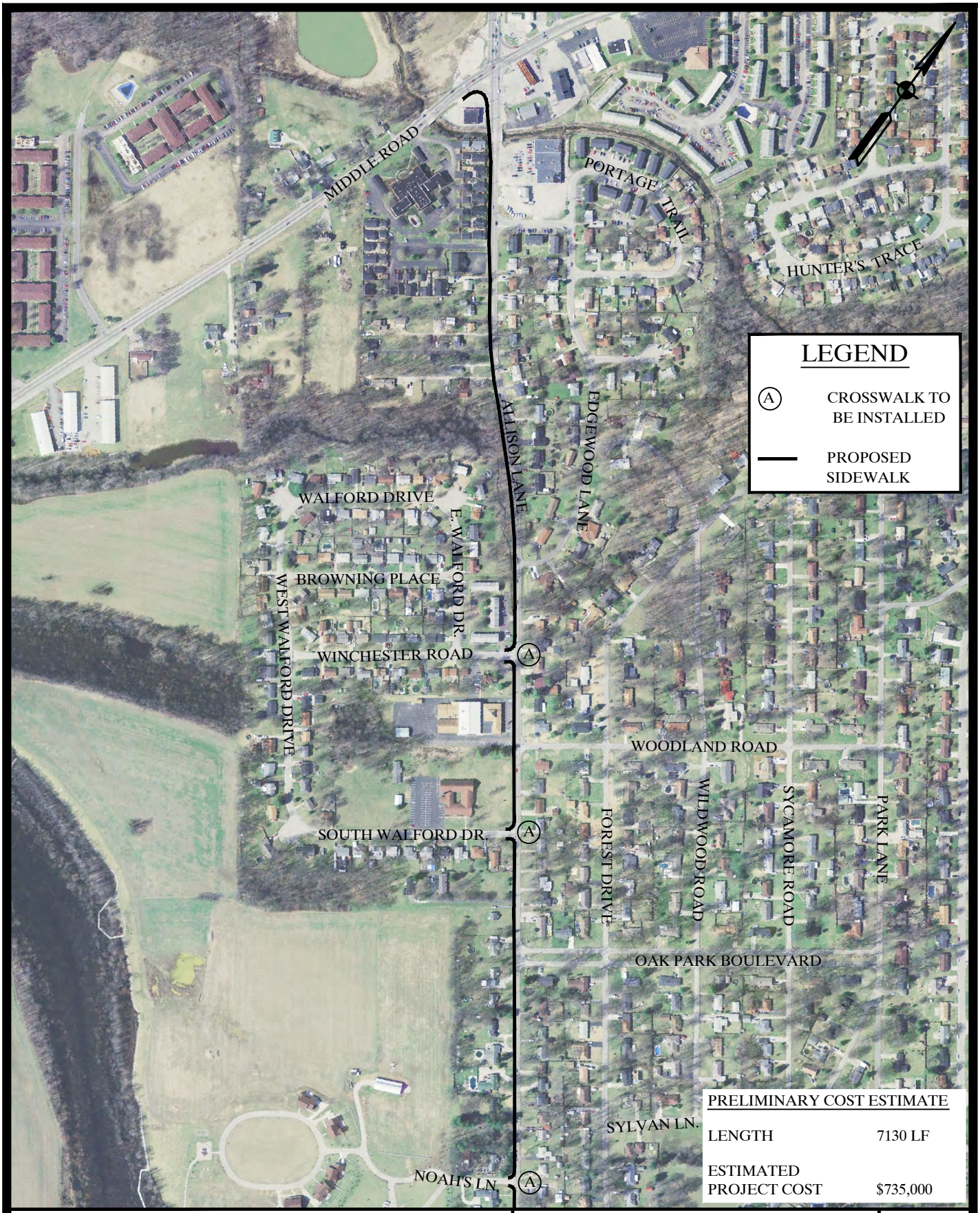

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

ALLISON LANE SIDEWALK FROM MIDDLE ROAD TO UTICA PIKE

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE A-2

SCALE: 1" = 500'	DATE: 7-28-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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CITY OF JEFFERSONVILLE BOARD OF PUBLIC WORKS & SAFETY ALLISON LANE SIDEWALK FROM MIDDLE ROAD TO UTICA PIKE				JACOBI, TOOMBS & LANZ, INC. CONSULTING ENGINEERS 120 BELL AVENUE CLARKSVILLE, INDIANA 47129 (812) 288-6646		FIGURE A-3
SCALE: 1" = 500'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013	

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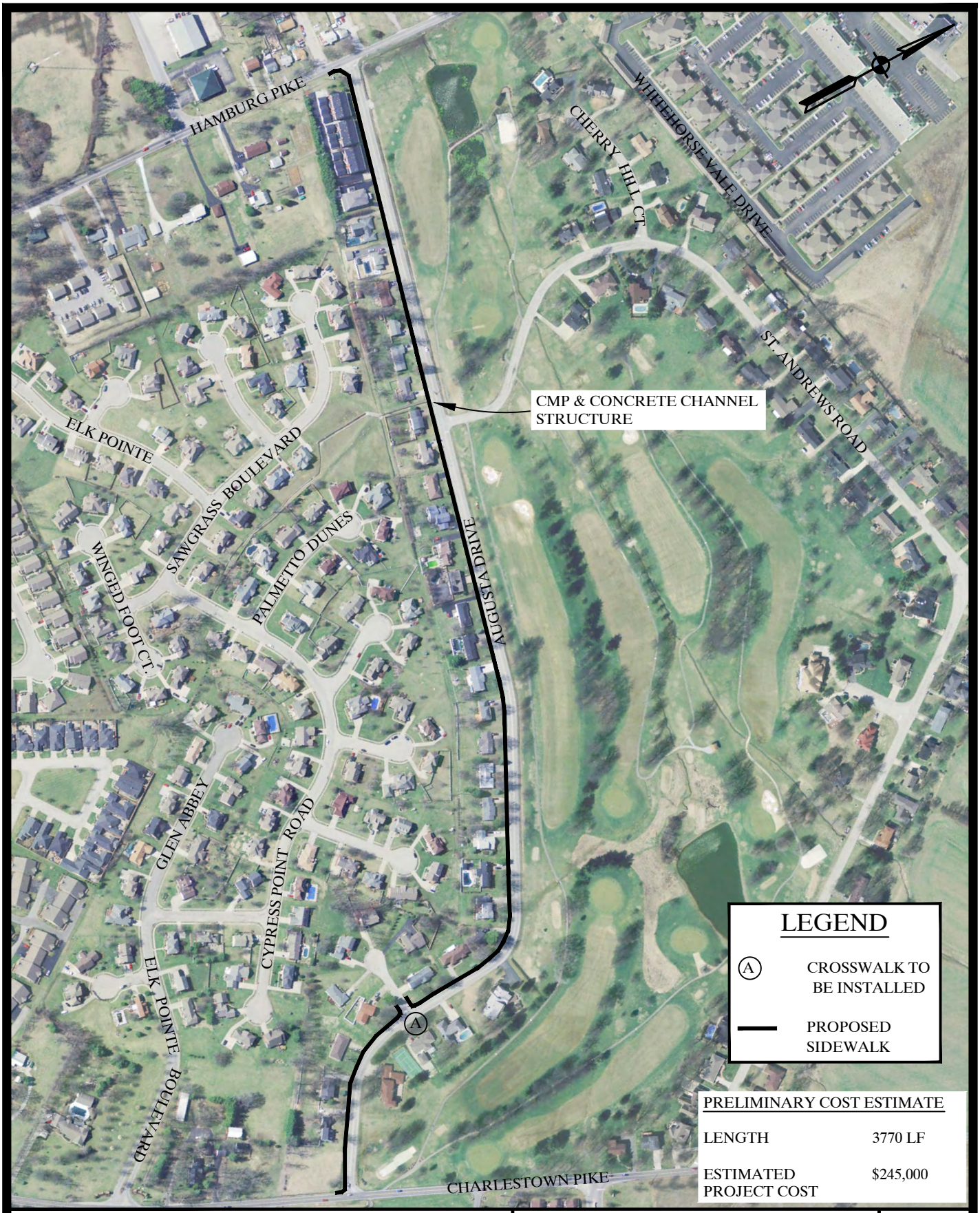

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

AUGUSTA DRIVE SIDEWALK

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-4

SCALE: 1" = 400'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

CHARLESTOWN PIKE SIDEWALK FROM RAINTREE RIDGE TO WINDY PINES

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-5

SCALE: 1" = 200'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

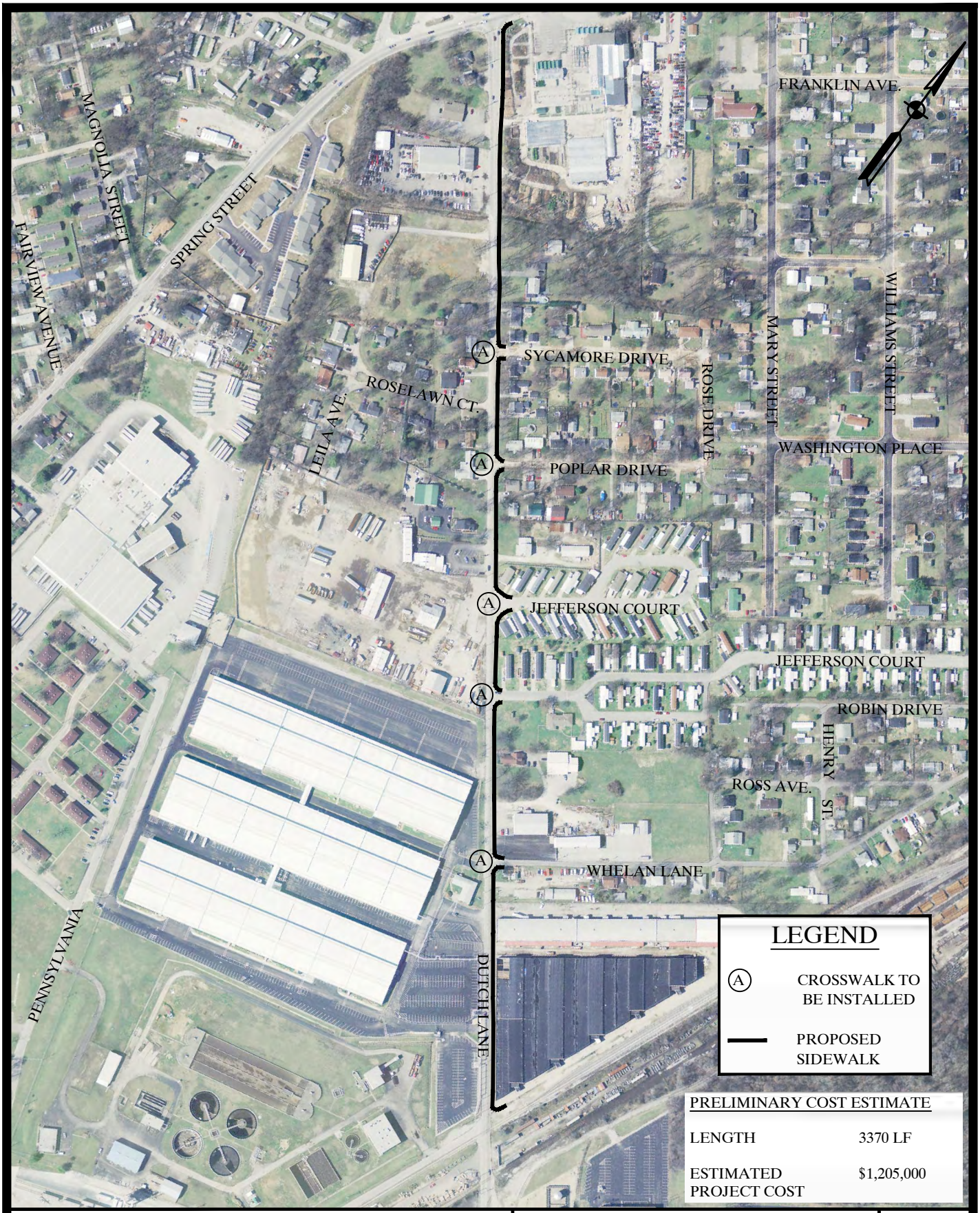
CHARLESTOWN PK. SIDEWALK FROM HOLMANS LANE TO MORGAN TRAIL

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-6

SCALE: 1" = 400'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

S:\EP2002\Projects\11013\11013-CHARLESTOWN-PK-SW-SIDEWALK-SCHEMATIC



CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

DUTCH LANE SIDEWALK

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE A-7

SCALE: 1" = 400'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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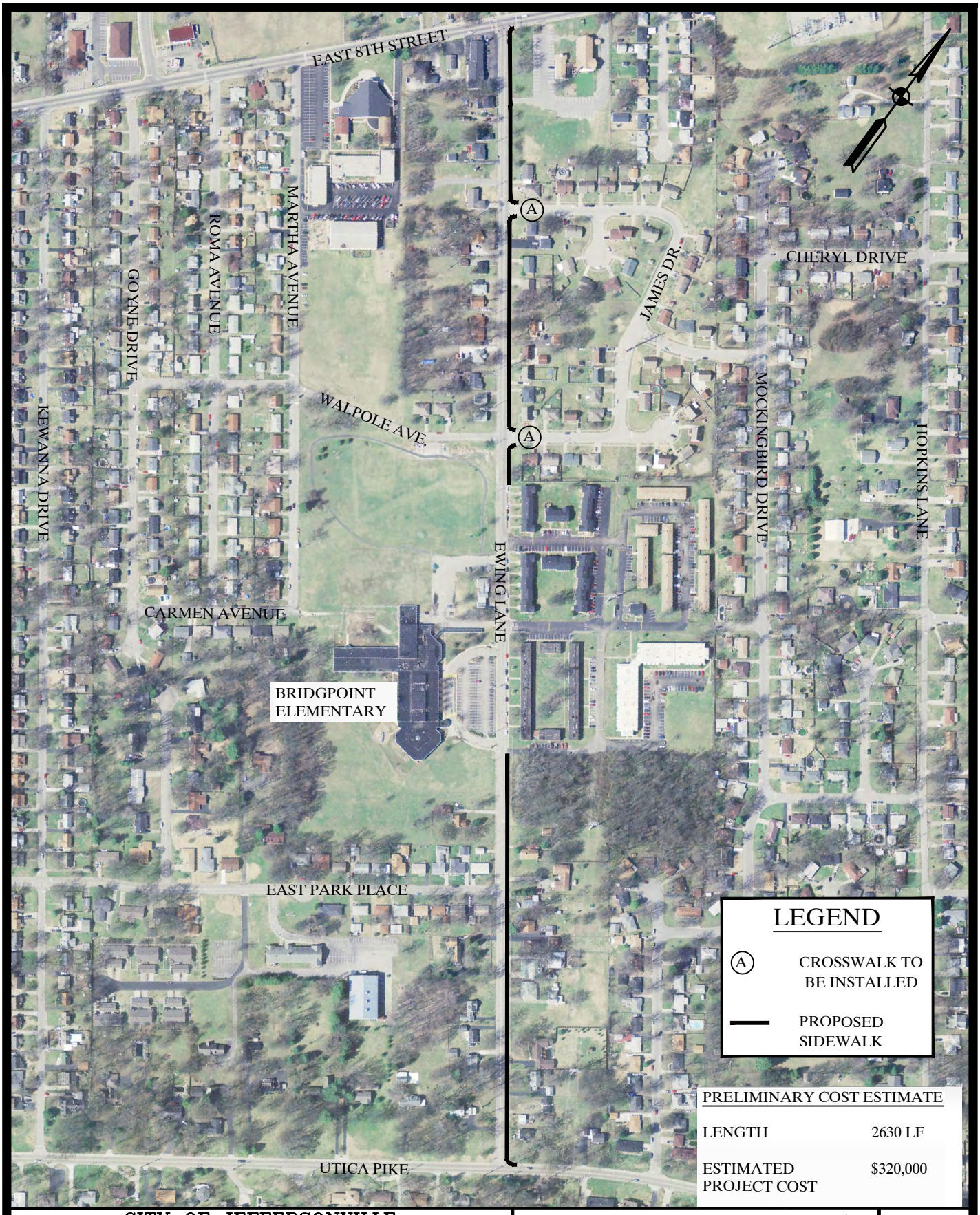

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

EWING LANE SIDEWALK

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-8

SCALE: 1" = 400'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

HARRISON AVENUE SIDEWALK FROM SPRING STREET TO NATIONAL AVENUE

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE A-9

SCALE: 1" = 100'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

S:\EP2002\Projects\11013\11013-HARRISON-AVE-SIDEWALK-SCHEMATIC

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

HOPKINS LANE SIDEWALK

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-10

SCALE: 1" = 500'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

S:\EP2002\Projects\11013\11013-HOPKINS-LN-SIDEWALK-SCHEMATIC

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

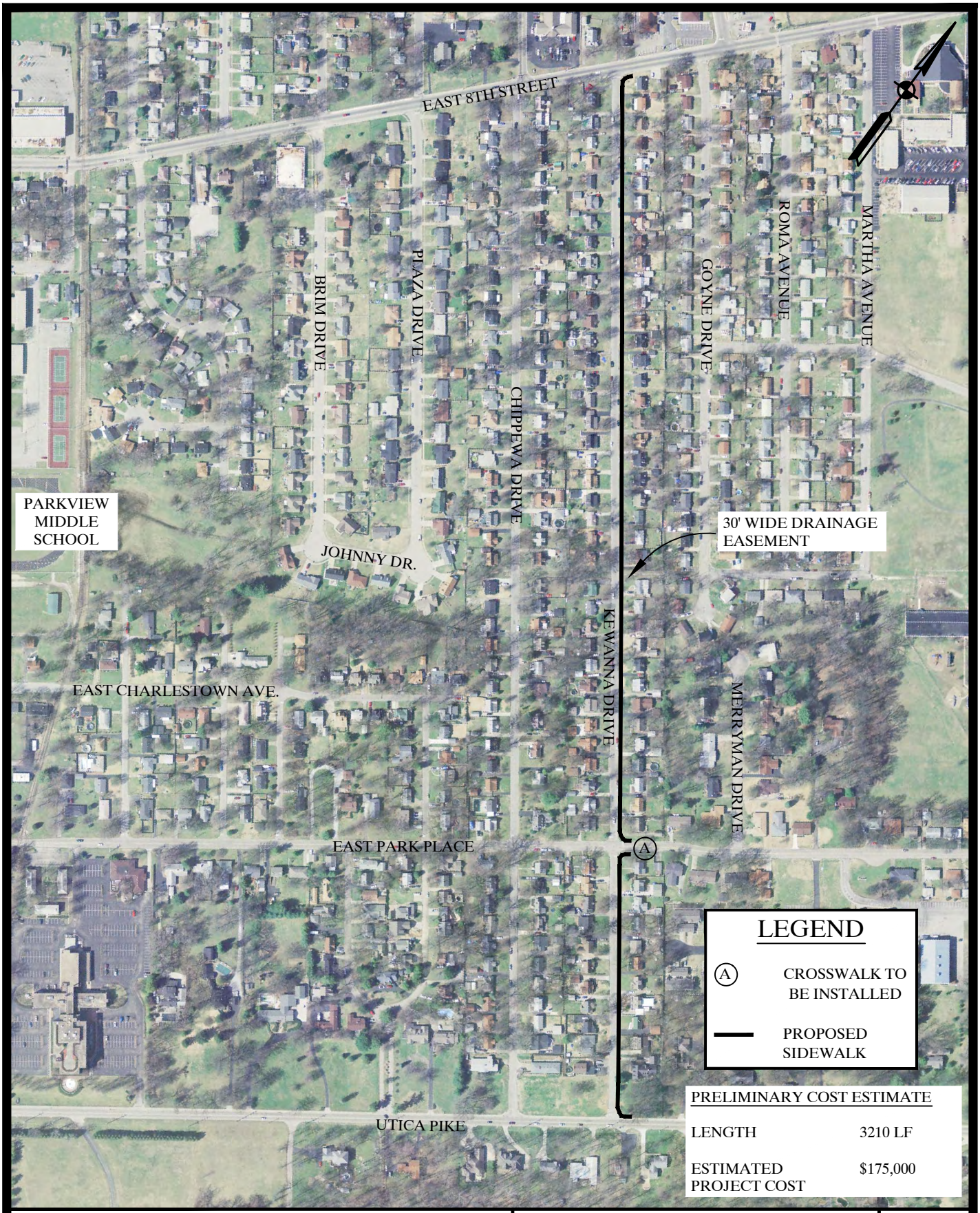
HOWARD AVENUE SIDEWALK IN THE BOB HEDGE PARK AREA

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE A-11

SCALE: 1" = 200'	DATE: 8-2-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

S:\EP2002\Projects\11013\11013-HOWARD-AVE-SIDEWALK-SCHEMATIC



CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

KEWANNA DRIVE SIDEWALK

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-12

SCALE: 1" = 400'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

S:\EP2002\Projects\11013\11013-KEWANNA-SIDEWALK-SCHEMATIC

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

MAPLE ELEMENTARY AREA SIDEWALKS

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-13

SCALE: 1" = 200'	DATE: 8-1-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

S:\EP2002\Projects\11013\11013-MAPLE-ST-SIDEWALK-SCHEMATIC

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

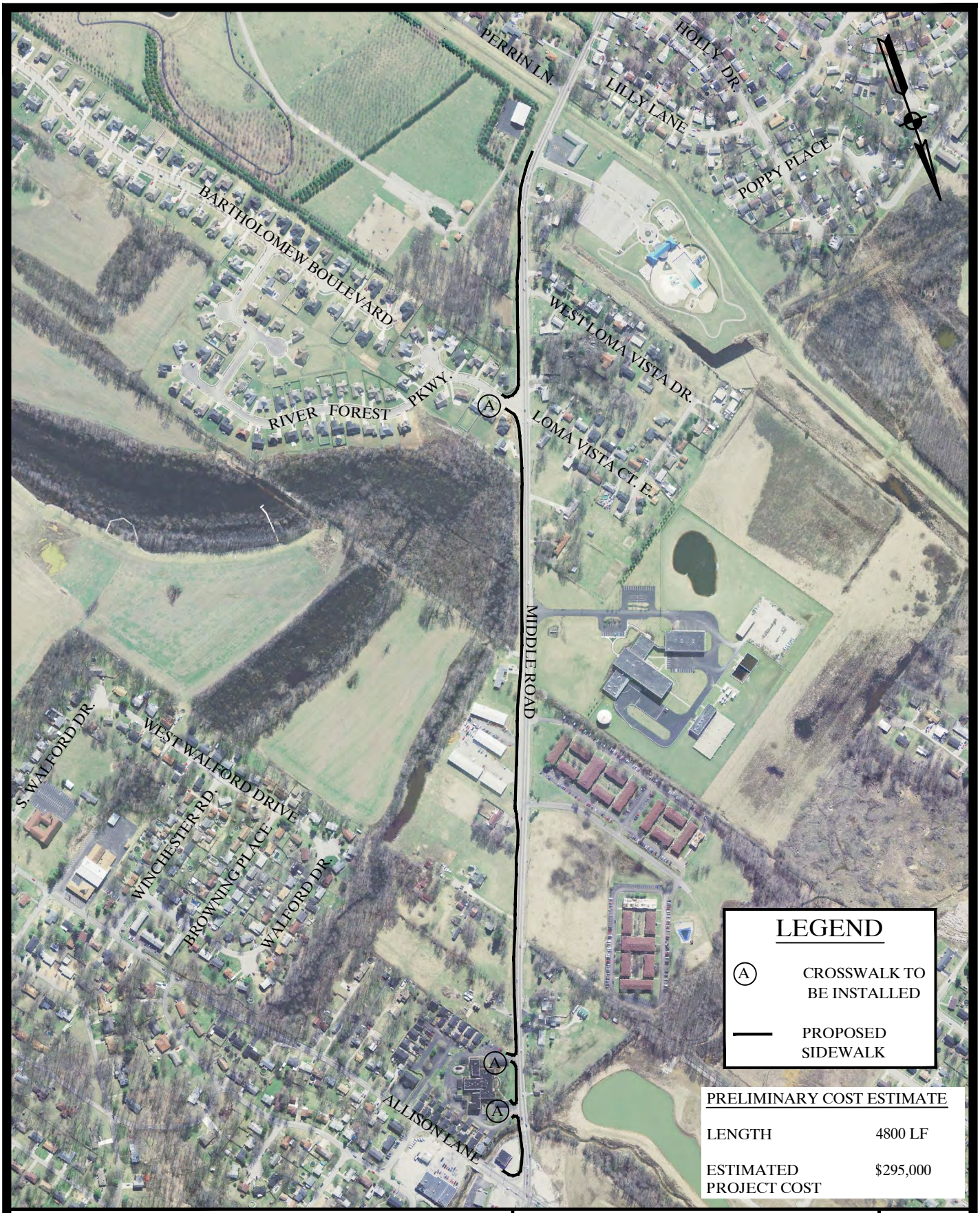
MIDDLE ROAD SIDEWALK FROM ALLISON LANE TO PEBBLE CREEK DRIVE

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE A-14

SCALE: 1" = 600'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

S:\EP2002\Projects\11013\11013-MIDDLE-RD-NE-SIDEWALK-SCHEMATIC



CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

MIDDLE ROAD SIDEWALK FROM
PERRIN LANE TO ALLISON LANE

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-15

SCALE: 1" = 600'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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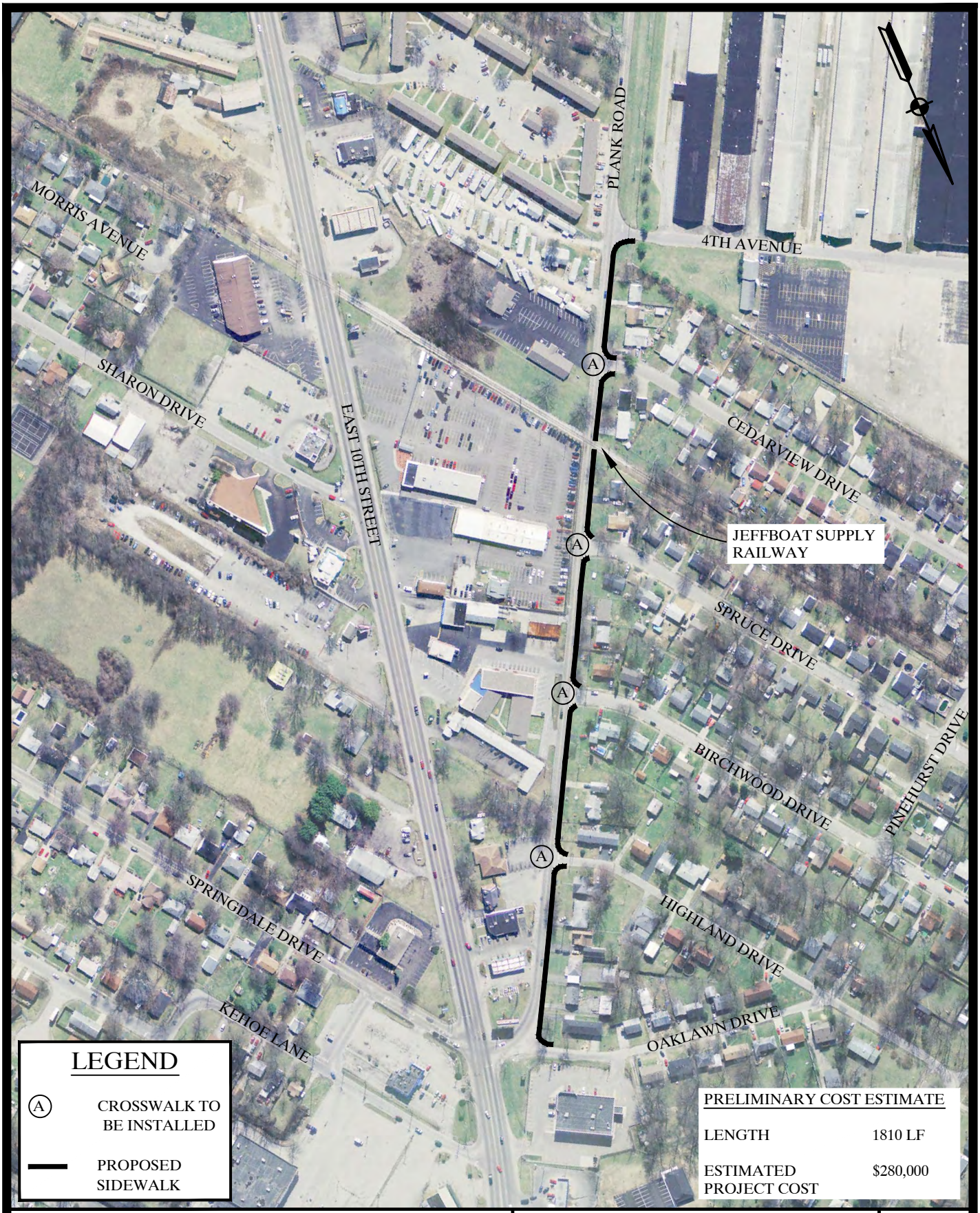

LEGEND

(A) CROSSWALK TO BE INSTALLED

PROPOSED SIDEWALK

PRELIMINARY COST ESTIMATE	
LENGTH	1810 LF
ESTIMATED PROJECT COST	$280,000

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

PLANK ROAD SIDEWALK FROM AMERICA PLACE TO OAKLAWN AVENUE

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE A-16

SCALE: 1" = 300'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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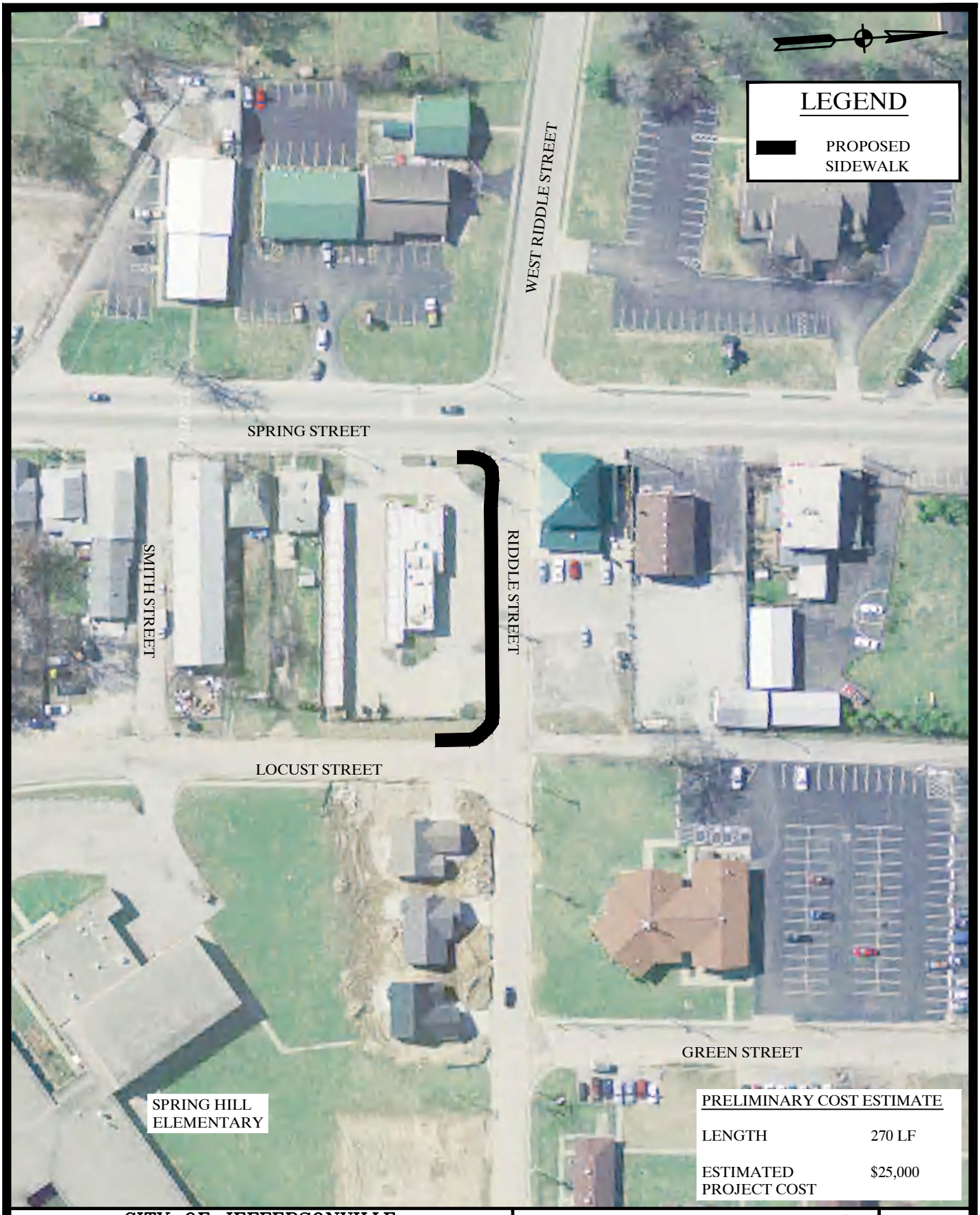

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

RIDDLE STREET SIDEWALK FROM
SPRING STREET TO GREEN/LOCUST STREET

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-17

SCALE: 1" = 100'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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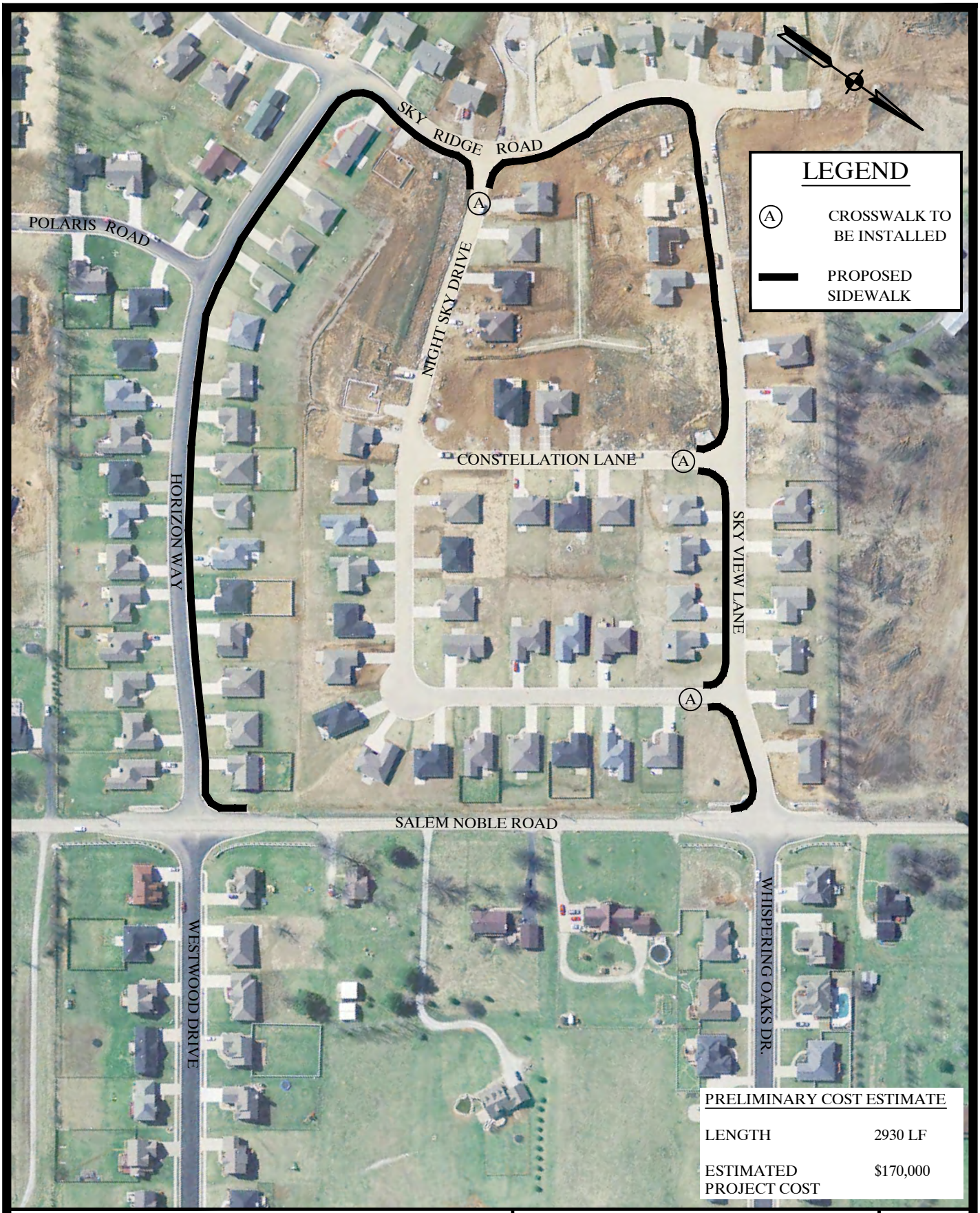

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

SKYLINE ACRES SIDEWALK ON HORIZON WAY, SKY RIDGE ROAD, & SKY VIEW LANE

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE A-18

SCALE: 1" = 200'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

S:\EP2002\Projects\11013\11013-SALEM-NOBLE-RD-SIDEWALK-SCHEMATIC

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

SPRINGDALE DRIVE SIDEWALK

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-19

SCALE: 1" = 400'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

S:\EP2002\Projects\11013\11013-SPRINGDALE-DR-SIDEWALK-SCHEMATIC

CITY OF JEFFERSONVILLE BOARD OF PUBLIC WORKS & SAFETY TENTH STREET SIDEWALK FROM VISSING PARK ROAD TO ALLISON LANE			JACOBI, TOOMBS & LANZ, INC. CONSULTING ENGINEERS 120 BELL AVENUE CLARKSVILLE, INDIANA 47129 (812) 288-6646		FIGURE A-20
SCALE: 1" = 300'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

S:\EP2002\Projects\11013\11013-TENTH-ST-NE-SIDEWALK-SCHEMATIC

PRELIMINARY COST ESTIMATE

LENGTH	490 LF
ESTIMATED PROJECT COST	$45,000

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

TENTH STREET & ALLISON LANE SIDEWALK
(THORNTON'S/RURAL KING)

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-21

SCALE: 1" = 200'	DATE: 8-2-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

UTICA PIKE SIDEWALK FROM
PERRIN LANE TO PAWNEE DRIVE

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-22

SCALE: 1" = 300'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

UTICA PIKE SIDEWALK FROM
ALLISON LANE TO PAWNEE DRIVE

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-23

SCALE: 1" = 300'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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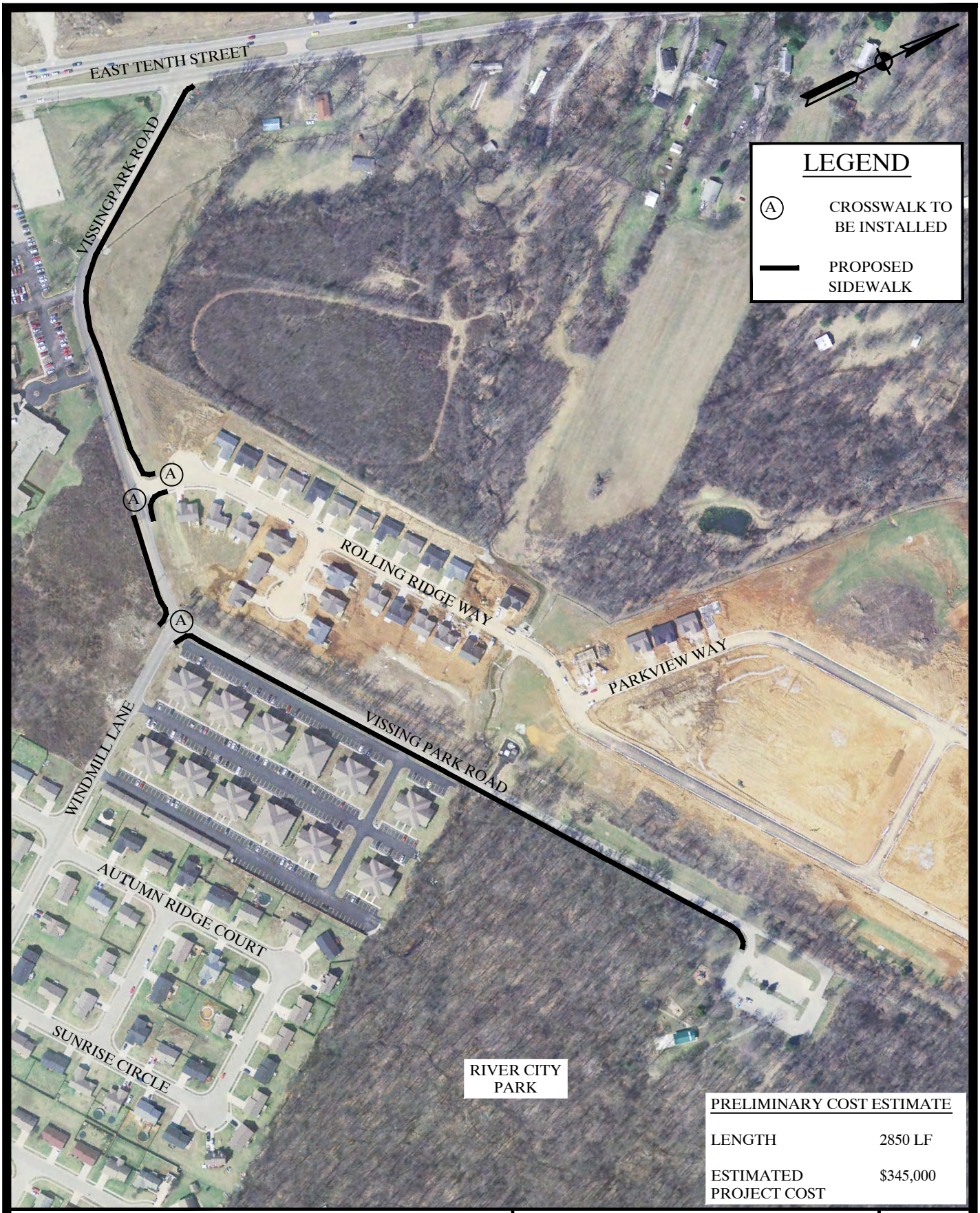

CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

VISSING PARK ROAD SIDEWALK

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-24

SCALE: 1" = 300'	DATE: 8-2-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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CITY OF JEFFERSONVILLE
BOARD OF PUBLIC WORKS & SAFETY

WOEHRLE ROAD SIDEWALK

JACOBI, TOOMBS & LANZ, INC.
CONSULTING ENGINEERS
120 BELL AVENUE
CLARKSVILLE, INDIANA 47129
(812) 288-6646

FIGURE
A-25

SCALE: 1" = 400'	DATE: 7-29-2011	DRAWN: E.L.P.	CHECKED: J.N.H.	APPROVED: J.I.L.	JOB No. 11013

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Appendix B

Sidewalk Cost Estimates

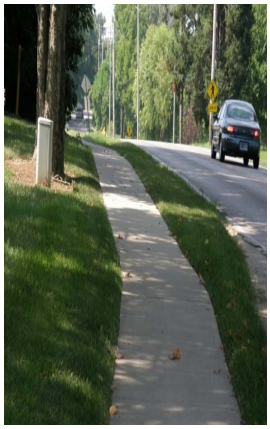

Table 1: Allison Lane from Meadowlark Road to Middle Road

Table 2: Allison Lane Sidewalk from Middle Road to Utica Pike

Table 3: Augusta Drive Sidewalk

Table 4: Charlestown Pike Sidewalk from Raintree Ridge to Windy Pines

Table 5: Charlestown Pike Sidewalk from Holmans Lane to Morgan Trail

Table 6: Dutch Lane Sidewalk

Table 7: Ewing Lane Sidewalk

Table 8: Harrison Avenue Sidewalk

Table 9: Hopkins Lane Sidewalk

Table 10: Howard Avenue Sidewalk in the Bob Hedge Park Area

Table 11: Kewanna Drive Sidewalk

Table 12: Maple Elementary Area Sidewalk

Table 13: Middle Road Sidewalk from Allison Lane to Pebble Creek Drive

Table 14: Middle Road Sidewalk from Perrin Lane to Allison Lane

Table 15: Plank Road Sidewalk

Table 16: Riddle Street Sidewalk

Table 17: Skyline Acres Sections 1 and 2 Sidewalk

Table 18: Springdale Drive Sidewalk

Table 19: Tenth Street Sidewalk from Vissing Park Road to Allison Lane

Table 20: Tenth Street and Allison Lane Sidewalk (Thornton's/ Rural King)

Table 21: Utica Pike Sidewalk from Perrin Lane to Pawnee Drive

Table 22: Utica Pike Sidewalk from Allison Lane to Pawnee Drive

Table 23: Vissing Park Road Sidewalk

Table 24: Woehrle Road Sidewalk

Allison Lane from Meadowlark Road to Middle Road

Table 1

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	200	TON	$25.00	$5,000.00
4	4" Thick Concrete Sidewalk	900	SY	$45.00	$40,500.00
5	Concrete Curb and Gutter	1,500	LF	$25.00	$37,500.00
6	Concrete Curb Ramp	25	SY	$100.00	$2,500.00
7	Sodding	650	SY	$5.00	$3,250.00
8	Seeding	1,300	SY	$1.00	$1,300.00
9	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
10	Sawcutting (Asphalt)	1,500	LF	$1.00	$1,500.00
11	Concrete Driveway (6")	20	SY	$55.00	$1,100.00
12	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
13	Catch Basin	6	EA	$2,000.00	$12,000.00
14	Storm Sewer	600	LF	$50.00	$30,000.00
15	Precast Concrete Head Wall	2	EA	$750.00	$1,500.00
16	Construction Engineering/Stakeout	1	LS	$1,500.00	$1,500.00
17	Mobilization & Demobilization	1	LS	$7,600.00	$7,600.00
18	Erosion Control	1	LS	$3,800.00	$3,800.00
19	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$7,600.00	$7,600.00
Construction Subtotal					$179,150.00
Engineering & Contingency (25%)					$44,788.00
Total Cost					$223,938.00

Allison Lane Sidewalk from Middle Road to Utica Pike

Table 2

	Description	Quantity		Engineer's Estimate Unit	Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	880	TON	$25.00	$22,000.00
4	4" Thick Concrete Sidewalk	3,965	SY	$45.00	$178,425.00
5	Concrete Curb and Gutter	2,900	LF	$25.00	$72,500.00
6	Concrete Curb Ramp	40	SY	$100.00	$4,000.00
7	Sodding	2,825	SY	$5.00	$14,125.00
8	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
9	Sawcutting (Asphalt)	2,900	LF	$1.00	$2,900.00
10	Concrete Driveway (6")	435	SY	$55.00	$23,925.00
11	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
12	Catch Basin	15	EA	$2,000.00	$30,000.00
13	Storm Sewer	2,900	LF	$50.00	$145,000.00
14	Precast Concrete Head Wall	2	EA	$750.00	$1,500.00
15	Construction Engineering/Stakeout	1	LS	$5,200.00	$5,200.00
16	Mobilization & Demobilization	1	LS	$25,800.00	$25,800.00
17	Erosion Control	1	LS	$12,900.00	$12,900.00
18	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$25,800.00	$25,800.00
Construction Subtotal					$587,975.00
Engineering & Contingency (25%)					$146,994.00
Total Cost					$734,969.00

Augusta Drive Sidewalk

Table 3

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	470	TON	$25.00	$11,750.00
4	4" Thick Concrete Sidewalk	2,100	SY	$45.00	$94,500.00
5	Concrete Curb Ramp	4	SY	$100.00	$400.00
6	Sodding	1,680	SY	$5.00	$8,400.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Concrete Driveway (6")	345	SY	$55.00	$18,975.00
9	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
10	Crossing over CMP and Concrete Structure	1	LS	$15,000.00	$15,000.00
11	Construction Engineering/Stakeout	1	LS	$1,800.00	$1,800.00
12	Mobilization & Demobilization	1	LS	$8,600.00	$8,600.00
13	Erosion Control	1	LS	$4,300.00	$4,300.00
14	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$8,600.00	$8,600.00
Construction Subtotal					$194,825.00
Engineering & Contingency (25%)					$48,706.00
Total Cost					$243,531.00

Charlestown Pike Sidewalk from Raintree Ridge to Windy Pines

Table 4

	Description	Quantity		Engineer's Estimate Unit	Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	200	TON	$25.00	$5,000.00
4	4" Thick Concrete Sidewalk	885	SY	$45.00	$39,825.00
5	Concrete Curb Ramp	2	SY	$100.00	$200.00
6	Sodding	710	SY	$5.00	$3,550.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Concrete Driveway (6")	50	SY	$55.00	$2,750.00
9	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
10	Construction Engineering/Stakeout	1	LS	$800.00	$800.00
11	Mobilization & Demobilization	1	LS	$3,700.00	$3,700.00
12	Erosion Control	1	LS	$1,900.00	$1,900.00
13	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$3,700.00	$3,700.00
Construction Subtotal					$83,925.00
Engineering & Contingency					$20,981.00
Total Cost					$104,906.00

Charlestown Pike Sidewalk from Holmans Lane to Morgan Trail

Table 5

	Description	Quantity		Engineer's Estimate Unit	Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	500	TON	$25.00	$12,500.00
4	4" Thick Concrete Sidewalk	2,245	SY	$45.00	$101,025.00
5	Concrete Curb Ramp	15	SY	$100.00	$1,500.00
6	Sodding	1,740	SY	$5.00	$8,700.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Concrete Driveway (6")	72	SY	$55.00	$3,960.00
9	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
10	Construction Engineering/Stakeout	1	LS	$1,500.00	$1,500.00
11	Mobilization & Demobilization	1	LS	$7,500.00	$7,500.00
12	Erosion Control	1	LS	$3,800.00	$3,800.00
13	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$7,500.00	$7,500.00
Construction Subtotal					$170,485.00
Engineering & Contingency					$42,621.00
Total Cost					$213,106.00

Dutch Lane Sidewalk

Table 6

	Description	Quantity		Engineer's Estimate Unit	Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	420	TON	$25.00	$10,500.00
4	4" Thick Concrete Sidewalk	1,875	SY	$45.00	$84,375.00
5	Concrete Curb Ramp	42	SY	$100.00	$4,200.00
6	Concrete Curb and Gutter	3,300	LF	$25.00	$82,500
7	Storm Sewer	3,300	LF	$50.00	$165,000
8	Catch Basin	35	EA	$2,000	$70,000
9	Sodding	1,040	SY	$5.00	$5,200.00
10	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
11	Concrete Driveway (6")	80	SY	$55.00	$4,400.00
12	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
13	Construction Engineering/Stakeout	1	LS	$1,300.00	$1,300.00
14	Mobilization & Demobilization	1	LS	$6,400.00	$6,400.00
15	Erosion Control	1	LS	$3,200.00	$3,200.00
16	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$6,400.00	$6,400.00
17	Utility Relocation*	1	LS	$500,000.00	$500,000.00
Construction Subtotal					$965,975.00
Engineering & Contingency (25%)					$241,494.00
Total Cost					$1,207,469.00

**Utility relocation costs are an estimated amount and have not been confirmed by any utility.*

Ewing Lane Sidewalk

Table 7

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	325	TON	$25.00	$8,125.00
4	4" Thick Concrete Sidewalk	1,462	SY	$45.00	$65,790.00
5	Concrete Curb and Gutter	1,300	LF	$25.00	$32,500.00
6	Concrete Curb Ramp	7	SY	$100.00	$700.00
7	Sodding	1,020	SY	$5.00	$5,100.00
8	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
9	Sawcutting (Asphalt)	1,300	LF	$1.00	$1,300.00
10	Concrete Driveway (6")	156	SY	$55.00	$8,580.00
11	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
12	Catch Basin	7	EA	$2,000.00	$14,000.00
13	Storm Sewer	1,300	LF	$50.00	$65,000.00
14	Construction Engineering/Stakeout	1	LS	$2,300.00	$2,300.00
15	Mobilization & Demobilization	1	LS	$11,200.00	$11,200.00
16	Erosion Control	1	LS	$5,600.00	$5,600.00
17	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$11,200.00	$11,200.00
Construction Subtotal					$253,895.00
Engineering & Contingency (25%)					$63,474.00
Total Cost					$317,369.00

Harrison Avenue Sidewalk

Table 8

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$2,500.00	$2,500.00
2	Linear Grading	1	LS	$2,500.00	$2,500.00
3	Compacted Aggregate Base, Size No. 53	55	TON	$25.00	$1,375.00
4	4" Thick Concrete Sidewalk	235	SY	$45.00	$10,575.00
5	Concrete Curb Ramp	6	SY	$100.00	$600.00
6	Sodding	110	SY	$5.00	$550.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Concrete Driveway (6")	25	SY	$55.00	$1,375.00
9	Thermoplastic White Pavement Markings	1	LS	$1,000.00	$1,000.00
10	Construction Engineering/Stakeout	1	LS	$400.00	$400.00
11	Mobilization & Demobilization	1	LS	$1,900.00	$1,900.00
12	Erosion Control	1	LS	$1,000.00	$1,000.00
13	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$1,000.00	$1,000.00
Construction Subtotal					$27,275.00
Engineering & Contingency (25%)					$6,818.00
Total Cost					$34,093.00

Hopkins Lane Sidewalk

Table 9

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$5,000.00	$5,000.00
2	Linear Grading	1	LS	$5,000.00	$5,000.00
3	Compacted Aggregate Base, Size No. 53	490	TON	$25.00	$12,250.00
4	4" Thick Concrete Sidewalk	2,200	SY	$45.00	$99,000.00
5	Concrete Curb Ramp	24	SY	$100.00	$2,400.00
6	Sodding	1,620	SY	$5.00	$8,100.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Storm Sewer	1,000	LF	$50.00	$50,000
9	Catch Basins	8	EA	$2,000.00	$16,000
10	Concrete Driveway (6")	140	SY	$55.00	$7,700.00
11	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
12	Construction Engineering/Stakeout	1	LS	$1,500.00	$1,500.00
13	Mobilization & Demobilization	1	LS	$7,600.00	$7,600.00
14	Erosion Control	1	LS	$3,800.00	$3,800.00
15	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$3,800.00	$3,800.00
Construction Subtotal					$229,650.00
Engineering & Contingency (25%)					$57,413.00
Total Cost					$287,063.00

Howard Avenue Sidewalk in the Bob Hedge Park Area

Table 10

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$1,500.00	$1,500.00
2	Linear Grading	1	LS	$1,500.00	$1,500.00
3	Compacted Aggregate Base, Size No. 53	63	TON	$25.00	$1,575.00
4	4" Thick Concrete Sidewalk	281	SY	$45.00	$12,645.00
5	Concrete Curb Ramp	8	SY	$100.00	$800.00
6	Sodding	225	SY	$5.00	$1,125.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Concrete Driveway (6")	20	SY	$55.00	$1,100.00
9	Thermoplastic White Pavement Markings	1	LS	$1,000.00	$1,000.00
10	Construction Engineering/Stakeout	1	LS	$400.00	$400.00
11	Mobilization & Demobilization	1	LS	$2,000.00	$2,000.00
12	Erosion Control	1	LS	$1,000.00	$1,000.00
13	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$1,000.00	$1,000.00
Construction Subtotal					$26,465.00
Engineering & Contingency (25%)					$6,616.00
Total Cost					$33,081.00

Kewanna Drive Sidewalk

Table 11

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	400	TON	$25.00	$10,000.00
4	4" Thick Concrete Sidewalk	1,790	SY	$45.00	$80,550.00
5	Concrete Curb Ramp	4	SY	$100.00	$400.00
6	Sodding	1,330	SY	$5.00	$6,650.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Concrete Driveway (6")	102	SY	$55.00	$5,610.00
9	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
10	Construction Engineering/Stakeout	1	LS	$1,300.00	$1,300.00
11	Mobilization & Demobilization	1	LS	$6,300.00	$6,300.00
12	Erosion Control	1	LS	$3,200.00	$3,200.00
13	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$3,200.00	$3,200.00
Construction Subtotal					$139,710.00
Engineering & Contingency (25%)					$34,928.00
Total Cost					$174,638.00

Maple Elementary Area Sidewalk

Table 12

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$5,000.00	$5,000.00
2	Linear Grading	1	LS	$1,000.00	$1,000.00
3	Compacted Aggregate Base, Size No. 53	100	TON	$25.00	$2,500.00
4	4" Thick Concrete Sidewalk	460	SY	$45.00	$20,700.00
5	Concrete Curb and Gutter	830	LF	$25.00	$20,750.00
6	Concrete Curb Ramp	15	SY	$100.00	$1,500.00
7	Sodding	370	SY	$5.00	$1,850.00
8	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
10	Concrete Driveway (6")	125	SY	$55.00	$6,875.00
11	Thermoplastic White Pavement Markings	1	LS	$1,000.00	$1,000.00
14	Construction Engineering/Stakeout	1	LS	$2,000.00	$2,000.00
15	Mobilization & Demobilization	1	LS	$2,500.00	$2,500.00
16	Erosion Control	1	LS	$2,500.00	$2,500.00
17	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$1,250.00	$1,250.00
Construction Subtotal					$71,925.00
Engineering & Contingency (25%)					$17,981.00
Total Cost					$89,906.00

Middle Road Sidewalk from Allison Lane to Pebble Creek Drive

Table 13

				Engineer's Estimate	
Description		Quantity		Unit	Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$15,000.00	$15,000.00
3	Compacted Aggregate Base, Size No. 53	550	TON	$25.00	$13,750.00
4	4" Thick Concrete Sidewalk	2,480	SY	$45.00	$111,600.00
5	Concrete Curb Ramp	40	SY	$100.00	$4,000.00
6	Sodding	1,720	SY	$5.00	$8,600.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Concrete Driveway (6")	50	SY	$55.00	$2,750.00
9	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
10	Construction Engineering/Stakeout	1	LS	$2,500.00	$2,500.00
11	Mobilization & Demobilization	1	LS	$8,000.00	$8,000.00
12	Erosion control	1	LS	$4,000.00	$4,000.00
13	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$8,000.00	$8,000.00
Construction Subtotal					$193,200.00
Engineering & Contingency (25%)					$48,300.00
Total Cost					$241,500.00

Middle Road Sidewalk from Perrin Lane to Allison Lane

Table 14

				Engineer's Estimate	
Description		Quantity		Unit	Total
1	Clearing and Grubbing	1	LS	$15,000.00	$15,000.00
2	Linear Grading	1	LS	$25,000.00	$25,000.00
3	Compacted Aggregate Base, Size No. 53	595	TON	$25.00	$14,875.00
4	4" Thick Concrete Sidewalk	2,670	SY	$45.00	$120,150.00
5	Concrete Curb Ramp	40	SY	$100.00	$4,000.00
6	Sodding	1,970	SY	$5.00	$9,850.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Concrete Driveway (6")	172	SY	$55.00	$9,460.00
9	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
10	Construction Engineering/Stakeout	1	LS	$7,500.00	$7,500.00
11	Mobilization & Demobilization	1	LS	$8,900.00	$8,900.00
12	Erosion Control	1	LS	$4,500.00	$4,500.00
13	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$8,900.00	$8,900.00
Construction Subtotal					$235,635.00
Engineering & Contingency (25%)					$58,908.00
Total Cost					$294,543.00

Plank Road Sidewalk

Table 15

	Description	Quantity		Engineer's Estimate Unit	Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	225	TON	$25.00	$5,625.00
4	4" Thick Concrete Sidewalk	1,010	SY	$45.00	$45,450.00
5	Concrete Curb Ramp	10	SY	$100.00	$1,000.00
6	Storm Sewer	1,800	LF	$50.00	$90,000
7	Catch Basins	9	EA	$2,000	$18,000
8	Pedestrian Railroad Crossing	1	LS	$15,000.00	$15,000.00
9	Sodding	700	SY	$5.00	$3,500.00
10	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
11	Concrete Driveway (6")	200	SY	$55.00	$11,000.00
12	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
13	Construction Engineering/Stakeout	1	LS	$1,000.00	$1,000.00
14	Mobilization & Demobilization	1	LS	$4,700.00	$4,700.00
15	Erosion Control	1	LS	$2,400.00	$2,400.00
16	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$4,700.00	$4,700.00
Construction Subtotal					$224,875.00
Engineering & Contingency (25%)					$56,219.00
Total Cost					$281,094.00

Riddle Street Sidewalk

Table 16

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$1,000.00	$1,000.00
2	Linear Grading	1	LS	$1,000.00	$1,000.00
3	Compacted Aggregate Base, Size No. 53	35	TON	$25.00	$875.00
4	4" Thick Concrete Sidewalk	150	SY	$45.00	$6,750.00
5	Concrete Curb Ramp	8	SY	$100.00	$800.00
6	Sodding	35	SY	$5.00	$175.00
7	Landscaping Replacement	1	LS	$1,000.00	$1,000.00
8	Concrete Driveway (6")	30	SY	$55.00	$1,650.00
9	Thermoplastic White Pavement Markings	1	LS	$1,000.00	$1,000.00
10	Construction Engineering/Stakeout	1	LS	$400.00	$400.00
11	Mobilization $ Demobilization	1	LS	$1,700.00	$1,700.00
12	Erosion Control	1	LS	$900.00	$900.00
13	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$900.00	$900.00
Construction Subtotal					$18,150.00
Engineering & Contingency (25%)					$4,537.00
Total Cost					$22,687.00

Skyline Acres Sections 1 and 2 Sidewalk

Table 17

				Engineer's Estimate	
	Description	**Quantity**		**Unit**	**Total**
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	362	TON	$25.00	$9,050.00
4	4" Thick Concrete Sidewalk	1,630	SY	$45.00	$73,350.00
5	Concrete Curb Ramp	6	SY	$100.00	$600.00
6	Sodding	1,070	SY	$5.00	$5,350.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Concrete Driveway (6")	240	SY	$55.00	$13,200.00
9	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
10	Construction Engineering/Stakeout	1	LS	$1,300.00	$1,300.00
11	Mobilization & Demobilization	1	LS	$6,300.00	$6,300.00
12	Erosion Control	1	LS	$3,100.00	$3,100.00
13	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$3,100.00	$3,100.00
Construction Subtotal					$137,850.00
Engineering & Contingency (25%)					$34,463.00
Total Cost					$172,313.00

Springdale Drive Sidewalk

Table 18

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	444	TON	$25.00	$11,100.00
4	4" Thick Concrete Sidewalk	2,000	SY	$45.00	$90,000.00
5	Concrete Curb Ramp	28	SY	$100.00	$2,800.00
6	Sodding	1,350	SY	$5.00	$6,750.00
7	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
8	Concrete Driveway (6")	260	SY	$55.00	$14,300.00
9	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
10	Construction Engineering/Stakeout	1	LS	$1,400.00	$1,400.00
11	Mobilization & Demobilization	1	LS	$6,800.00	$6,800.00
12	Erosion Control	1	LS	$3,400.00	$3,400.00
13	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$3,400.00	$3,400.00
Construction Subtotal					$162,450.00
Engineering and Contingency (25%)					$40,612.00
Total Cost					$203,062.00

Tenth Street Sidewalk from Vissing Park Road to Allison Lane

Table 19

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	260	TON	$25.00	$6,500.00
4	4" Thick Concrete Sidewalk	1,170	SY	$45.00	$52,650.00
5	Concrete Curb and Gutter	2,100	LF	$25.00	$52,500.00
6	Concrete Curb Ramp	20	SY	$100.00	$2,000.00
7	Sodding	940	SY	$5.00	$4,700.00
8	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
9	Sawcutting (Asphalt)	2,100	LF	$1.00	$2,100.00
10	Concrete Driveway (6")	45	SY	$55.00	$2,475.00
11	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
12	Catch Basin	15	EA	$2,000.00	$30,000.00
13	Storm Sewer	2,100	LF	$50.00	$105,000.00
14	Construction Engineering/Stakeout	1	LS	$2,800.00	$2,800.00
15	Mobilization & Demobilization	1	LS	$14,000.00	$14,000.00
16	Erosion Control	1	LS	$7,000.00	$7,000.00
17	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$14,000.00	$14,000.00
Construction Subtotal					$318,225.00
Engineering & Contingency (25%)					$79,556.00
Total Cost					$397,781.00

Tenth Street and Allison Lane Sidewalk (Thornton's / Rural King)

Table 20

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$5,000.00	$5,000.00
2	Linear Grading	1	LS	$5,000.00	$5,000.00
3	Compacted Aggregate Base, Size No. 53	61	TON	$25.00	$1,525.00
4	4" Thick Concrete Sidewalk	272	SY	$45.00	$12,240.00
	Concrete Curb Ramp	12	SY	$100.00	$1,200.00
	Sodding	220	SY	$5.00	$1,100.00
	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
	Thermoplastic White Pavement Markings	1	LS	$1,000.00	$1,000.00
	Construction Engineering/Stakeout	1	LS	$400.00	$400.00
	Mobilization & Demobilization	1	LS	$1,900.00	$1,900.00
	Erosion Control	1	LS	$1,000.00	$1,000.00
	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$1,900.00	$1,900.00
Construction Subtotal					$34,765.00
Engineering & Contingency (25%)					$8,691.00
Total Cost					$43,456.00

Utica Pike Sidewalk from Perrin Lane to Pawnee Drive

Table 21

				Engineer's Estimate	
	Description	Quantity		Unit	Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	251	TON	$25.00	$6,275.00
4	4" Thick Concrete Sidewalk	1,130	SY	$45.00	$50,850.00
5	Concrete Curb and Gutter	1,000	LF	$25.00	$25,000.00
6	Concrete Curb Ramp	1	SY	$100.00	$100.00
7	Sodding	780	SY	$5.00	$3,900.00
8	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
9	Sawcutting (Asphalt)	1,000	LF	$1.00	$1,000.00
10	Concrete Driveway (6")	130	SY	$55.00	$7,150.00
11	Catch Basin	4	EA	$2,000.00	$8,000.00
12	Storm Sewer	1,000	LF	$50.00	$50,000.00
13	Construction Engineering/Stakeout	1	LS	$1,700.00	$1,700.00
14	Mobilization & Demobilization	1	LS	$8,500.00	$8,500.00
15	Erosion Control	1	LS	$4,300.00	$4,300.00
16	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$8,500.00	$8,500.00
Construction Subtotal					$192,775.00
Engineering & Contingency (25%)					$48,194.00
Total Cost					$240,969.00

Utica Pike Sidewalk from Allison Lane to Pawnee Drive

Table 22

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	290	TON	$25.00	$7,250.00
4	4" Thick Concrete Sidewalk	1,310	SY	$45.00	$58,950.00
5	Concrete Curb and Gutter	2,350	LF	$25.00	$58,750.00
6	Concrete Curb Ramp	7	SY	$100.00	$700.00
7	Sodding	1,050	SY	$5.00	$5,250.00
8	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
9	Sawcutting (Asphalt)	2,350	LF	$1.00	$2,350.00
10	Concrete Driveway (6")	55	SY	$55.00	$3,025.00
11	Thermoplastic White Pavement Markings	1	LS	$5,000.00	$5,000.00
12	Catch Basin	14	EA	$2,000.00	$28,000.00
13	Storm Sewer	2,450	LF	$50.00	$122,500.00
14	Construction Engineering/Stakeout	1	LS	$3,100.00	$3,100.00
15	Mobilization & Demobilization	1	LS	$15,500.00	$15,500.00
16	Erosion Control	1	LS	$7,800.00	$7,800.00
17	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$15,500.00	$15,500.00
Construction Subtotal					$351,175.00
Engineering & Contingency (25%)					$87,794.00
Total Cost					$438,969.00

Vissing Park Road Sidewalk

Table 23

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	352	TON	$25.00	$8,800.00
4	4" Thick Concrete Sidewalk	1,583	SY	$45.00	$71,235.00
5	Concrete Curb and Gutter	1,765	LF	$25.00	$44,125.00
6	Concrete Curb Ramp	8	SY	$100.00	$800.00
7	Sodding	1,270	SY	$5.00	$6,350.00
8	Landscaping Replacement	1	LS	$2,500.00	$2,500.00
9	Sawcutting (Asphalt)	1,765	LF	1.00	1,765.00
10	Concrete Driveway (6")	20	SY	55.00	1,100.00
11	Catch Basin	8	EA	2,000.00	16,000.00
12	Storm Sewer	1,520	LF	50.00	76,000.00
13	Precast Concrete Head Wall	3	EA	$750.00	$2,250.00
14	Construction Engineering/Stakeout	1	LS	$2,500.00	$2,500.00
15	Mobilization & Demobilization	1	LS	$3,200.00	$3,200.00
16	Erosion Control	1	LS	$12,300.00	$12,300.00
17	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$12,300.00	$12,300.00
Construction Subtotal					$276,225.00
Engineering & Contingency (25%)					$69,056.00
Total Cost					$345,281.00

Woehrle Road Sidewalk

Table 24

	Description	Quantity		Engineer's Estimate Unit	Engineer's Estimate Total
1	Clearing and Grubbing	1	LS	$7,500.00	$7,500.00
2	Linear Grading	1	LS	$7,500.00	$7,500.00
3	Compacted Aggregate Base, Size No. 53	380	TON	$25.00	$9,500.00
4	4" Thick Concrete Sidewalk (5' Wide)	1,700	SY	$45.00	$76,500.00
5	Concrete Curb Ramp	1	SY	$100.00	$100.00
6	Seeding	2,720	SY	$1.00	$2,720.00
7	Construction Engineering/Stakeout	1	LS	$1,100.00	$1,100.00
8	Mobilization & Demobilization	1	LS	$5,200.00	$5,200.00
9	Erosion Control	1	LS	$2,600.00	$2,600.00
10	Maintenance of Traffic, Signs, Barricades, Complete	1	LS	$2,600.00	$2,600.00
Construction Subtotal					$115,320.00
Engineering & Contingency (25%)					$28,830.00
Total Cost					$144,150.00