

# City of Columbia

701 East Broadway, Columbia, Missouri 65201



**Agenda Item Number:** (C)

**Department Source:** Public Works

**To:** City Council

**From:** City Manager & Staff

**Council Meeting Date:** 2/16/2015

**Re:** Broadway Pavement Improvement Project

## Documents Included With This Agenda Item

Council memo, Resolution/Ordinance

**Supporting documentation includes:** Maps, Diagrams (construction, route, etc.), Sign-in sheets

## Executive Summary

Setting a public hearing for March 16, 2015 concerning construction of pavement improvements along Broadway, including sidewalk ramp repair or replacement where needed, from Providence Road to Hitt Street. Council approved a Surface Transportation Program (STP) agreement with the Missouri Highways and Transportation Commission for this project on December 2, 2013. The total project cost estimate is \$417,000. MoDOT will reimburse the City 80% or \$333,600, and the City's local match is 20%, or \$83,400. The project is expected to be under construction in the summer or fall of 2015.

## Discussion

On December 2, 2013 Council passed Ordinance 21912 authorizing an STP agreement with the Missouri Highway and Transportation Commission (MHTC), and appropriated funds, for the Broadway pavement improvement project from Providence Road to Hitt Street. An Interested Parties meeting was held on January 22, 2015, with no opposition to the project.

This project includes construction of an asphalt mill and overlay along Broadway, from Providence Road to Hitt Street, and some sidewalk ramp improvements. Due to a recent clarification of the requirements under Title II of the Americans with Disabilities Act (ADA), pavement resurfacing work completed on projects like this requires the installation of ADA-compliant curb ramps. At least 30 curb ramps along the corridor (see attached diagram) may be non-compliant and will be replaced or repaired to meet ADA requirements. Council authorized an engineering services agreement with Engineering Surveys & Services on November 3, 2014 to design the project at a cost of \$89,860.

## Fiscal Impact

**Short-Term Impact:** The total project cost estimate is \$417,000, with 80% or \$333,600 to be reimbursed by MoDOT. The City's local match is 20%, or \$83,400. To date, \$347,000 has been appropriated to this project.

**Long-Term Impact:** Regular maintenance as needed.

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## Vision, Strategic & Comprehensive Plan Impact

Vision Impact: Transportation

Strategic Plan Impact: Infrastructure

Comprehensive Plan Impact: Infrastructure, Mobility, Connectivity, and Accessibility, Livable & Sustainable Communities

## Suggested Council Action

After public input and council discussion at the public hearing, Council should authorize staff to move forward with the Broadway Pavement Improvements project.

## Legislative History

11/3/14 (R 208-14) Authorizing a Professional Engineering Services agreement with Engineering Surveys & Services, LLC for the design of the Broadway pavement improvement project.

12/2/13 (Ord 21912) Authorizing an STP-Urban Program agreement with MHTC for the Broadway pavement improvement project from Providence Road to Hitt Street; appropriating funds.

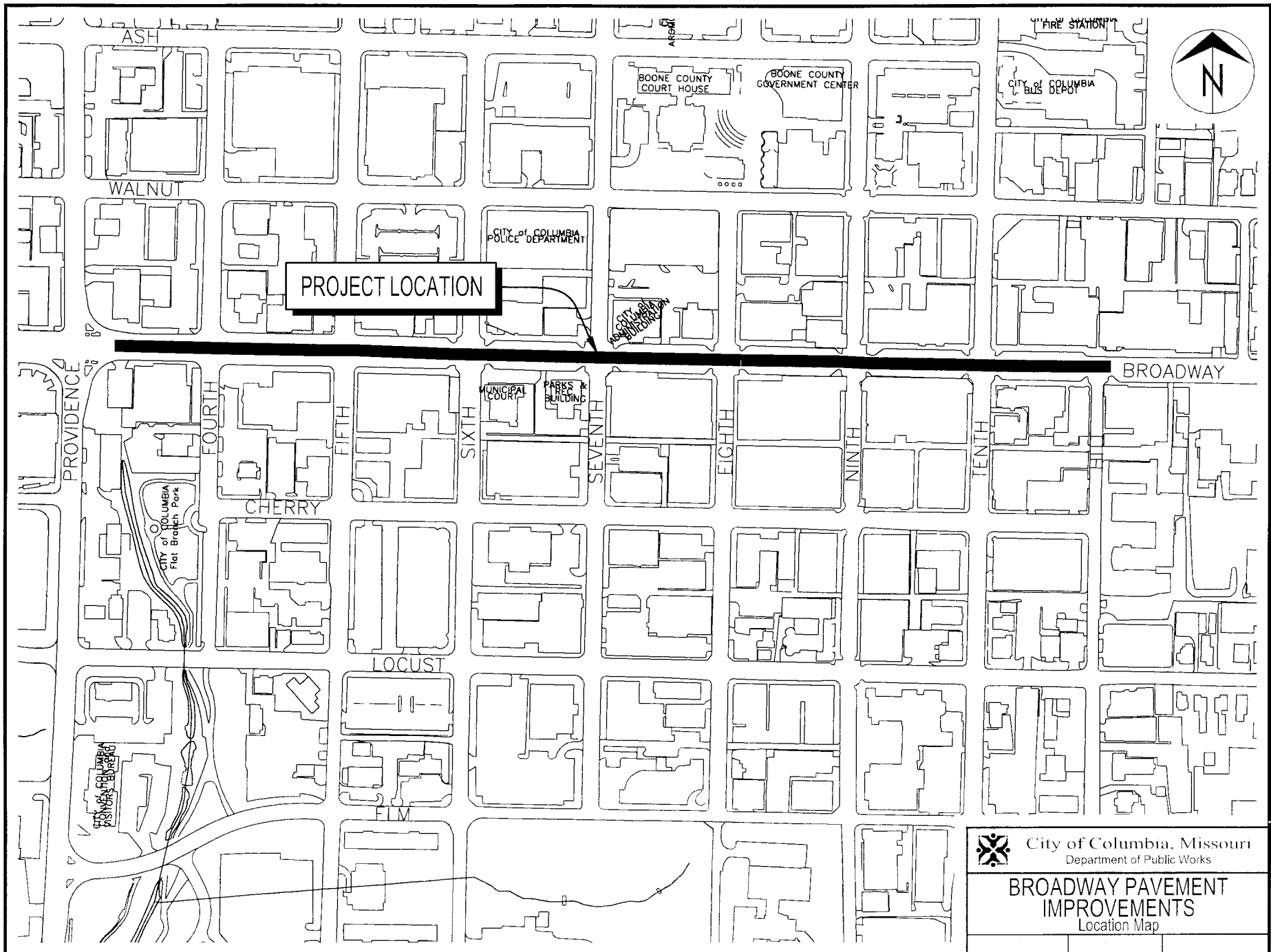
  
\_\_\_\_\_  
Department Approved


  
\_\_\_\_\_  
City Manager Approved



## SUPPORTING DOCUMENTS INCLUDED WITH THIS AGENDA ITEM ARE AS FOLLOWS:

Maps, Diagrams (construction, route, etc.), Sign-in sheets



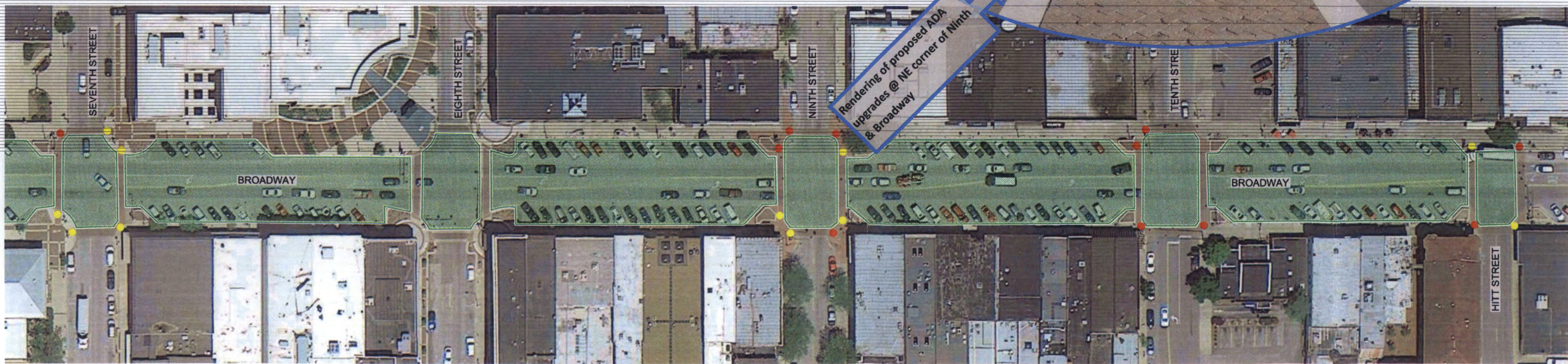
	City of Columbia, Missouri Department of Public Works
	<b>BROADWAY PAVEMENT IMPROVEMENTS</b>
	Location Map



Proposed Improvements - Providence Road to Seventh Street



LEGEND		DESCRIPTION
	Ramp Modifications	Alterations will be constructed that will bring sub-standard elements of the sidewalk ramp into conformance with current ADAAG 2010 Standards. This typically will include adding detectable warnings where they do not exist currently and/or providing for a contrasting color between the detectable warning and sidewalk.
	Ramp Reconstruction	Total reconstruction of sidewalk ramp will be required to conform with current ADAAG 2010 Standards.
	Limits of Pavement Resurfacing	The highlighted areas will be "milled" (grinding machine will removed the top few inches of the existing asphalt pavement), then a new asphalt riding surface will be placed. Vehicles can be driven on the milled roadway surface, so portions of Broadway will be closed primarily during milling and resurfacing activities only.



Proposed Improvements - Seventh Street to Hitt Street

Broadway Pavement Improvement Project  
Providence Road to Hitt Street  
PROPOSED IMPROVEMENTS - PAVEMENT RESURFACING & SIDEWALK RAMPS

City of Columbia, Missouri  
Department of Public Works





# Why Are We Here?

## Examples of Sidewalk Ramps on East Broadway Corridor



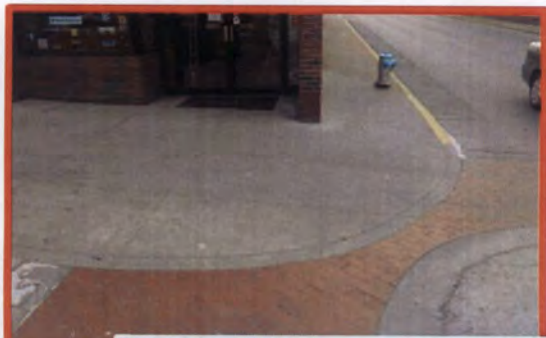
**Fourth & Broadway**

- No detectable warning
- No contrasting color
- Slope too steep
- Not aligned with crosswalks (either direction)



**Seventh & Broadway**

- No detectable warning
- No contrasting color
- Slope too steep



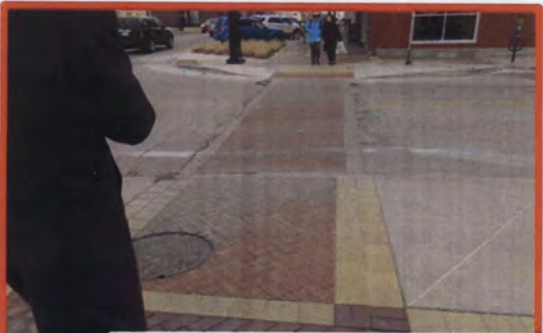
**Tenth & Broadway**

- No detectable warnings
- No contrasting color prior to entering roadway
- Proximity of building a potential constraint



**Fifth & Broadway**

- Detectable warning stamped in concrete
- Slope too steep



**Seventh & Broadway**

- Detectable warning longer than typical
- Contrasting color shorter than typical



**Eighth & Broadway**

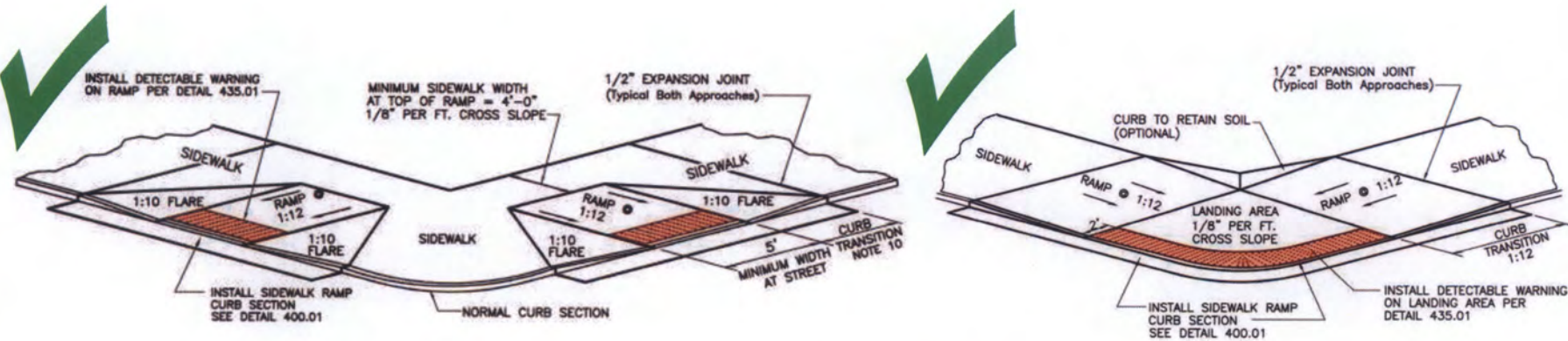
- Compliant with ADAAG 2010 Standards

The *Americans with Disabilities Act of 1990* (ADA) governs the requirements state and local government facilities must follow to be readily accessible to and usable by individuals with disabilities. Standards have been developed to achieve these requirements, and are summarized in the *ADA Accessibility Guidelines (ADAAG) 2010 Standards*, which include the following federal regulations:

- ◆ Title II regulations at 28 CFR 35.151
- ◆ 36 CFR part 1191, appendices B and D

For local governments, this requires bringing existing facilities into compliance with these regulations. Many of the sidewalk ramps on the East Broadway corridor are impacted. Common features of non-compliant, existing ramps include:

COMMON RAMP DEFICIENCY	GENERAL ADAAG REQUIREMENT
Detectable Warnings:	A surface of truncated domes that meet specific size and spacing requirements is needed.
Visual Contrast:	The detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light
Slope:	Ramps shall have 1:12 maximum slopes or lengths greater than 15 feet; curb ramp flares shall not be steeper than 1:10
Landings:	Landings shall be provided at the top and bottom of each ramp. In alterations where there is no landing, ramp flairs shall have less than 1:12 slope.



**Typical Details for ADAAG Compliant Ramp**





**Broadway Pavement Improvement Project**  
**Providence Road to Hitt Street**

**Project Sponsor:** City of Columbia - Public Works Department

**Open House Sign In**

**IP Meeting: January 22, 2015**

**First Baptist Church – 1112 E Broadway**

NAME	ADDRESS	EMAIL	PHONE
Seth Nelson		senelson@gocolumbiapro.com	999-1906
RICHARD STONE		RSTONE@GOCOLUMBIAPRO.COM	
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Katie Essing	11 South 10th St	Kessing@discover-the-discovery.com	
John Clark	703 N. 5th	jgclark@mcbsi.com	
	PO Box 1225	(this is Dan Hagan's signature)	
Additional Project Team Attendees:			
City of Columbia - Public Works Department: Lee White, Scott Bitterman			
Engineering Surveys and Services: Ben Ross, Dave Bennett, John Frerking			
Landworks Studio: Carisa McMullen			



## **A RESOLUTION**

declaring the necessity for construction of pavement improvements along Broadway, between Providence Road and Hitt Street, including the reconstruction of some curb ramps to meet ADA requirements; stating the nature of and the estimate of the cost of the improvement; providing for payment for the improvement; providing for compliance with the prevailing wage law; and setting a public hearing.

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The City Council deems the construction of pavement improvements along Broadway, between Providence Road and Hitt Street, including the reconstruction of some curb ramps to meet ADA requirements, necessary to the welfare and improvement of the City.

SECTION 2. The nature and scope of the improvement shall consist of furnishing all labor, materials, transportation, insurance and all other items, accessories and incidentals thereto necessary for the complete construction of the improvements.

SECTION 3. The estimated cost of this improvement is \$417,000.00.

SECTION 4. Payment for this improvement shall be made from Missouri Highways and Transportation Commission STP funding, annual sidewalk capital improvement sales tax funds and such other funds as may be lawfully appropriated. Per the terms of an STP-Urban Program agreement, the Missouri Highways and Transportation Commission shall reimburse the City 80%, or \$333,600.00, of the project costs, and the City's local match is \$83,400.00.

SECTION 5. Any work done in connection with the construction of the improvement specified above shall be in compliance with the provisions of the prevailing wage laws of the State of Missouri.

SECTION 6. A public hearing in respect to this improvement will be held in the Council Chamber of the City Hall Building, 701 E. Broadway, Columbia, Missouri, at 7:00 p.m. on March 16, 2015. The City Clerk shall cause notice of this hearing to be published in a newspaper published in the City.

ADOPTED this \_\_\_\_\_ day of \_\_\_\_\_, 2015.



ATTEST:

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City Clerk

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Mayor and Presiding Officer

APPROVED AS TO FORM:

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City Counselor