

City of Columbia

701 East Broadway, Columbia, Missouri 65201



Agenda Item Number: B 170-14

Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: June 16, 2014

Re: Bid Call for Keene Street Pavement Improvements

Documents Included With This Agenda Item

Council memo, Resolution/Ordinance

Supporting documentation includes: Maps

Executive Summary

Authorizing a bid call through the Purchasing Division for the construction of the Keene Street Pavement Improvement project from I-70 Drive SE to East Broadway (see attached location diagram). Council approved the Surface Transportation Program (STP) Agreement with the Missouri Highways and Transportation Commission for this project on November 4, 2013. An Interested Parties (IP) meeting was held March 25, 2014, and a public hearing was held on June 2, 2014.

Discussion

At the June 2, 2014 public hearing, Council directed staff to proceed with plans and specifications for the Keene Street Pavement Improvement project. The proposed project includes resurfacing Keene Street from I-70 Drive SE to East Broadway (Route WW). The resurfacing includes milling the existing concrete pavement surface to a depth of approximately 1-1/2 inches, and placing a thin lift asphalt overlay. Except for certain areas where pavement distresses extend to the curb, and at intersections, the milling and overlay will extend from bicycle lane to bicycle lane. Thus, the resulting roadway will have asphalt pavement for the vehicle lanes and concrete for the bike lanes. Staff feels the contrasting bike lanes will provide a benefit to cyclists, while also saving money. Preliminary plans are attached.

In order to satisfy requirements of Title II of the Americans with Disabilities Act (ADA), curb ramps along this route will be brought into compliance with current ADA requirements. Many of the existing curb ramps predate current ADA requirements and are not accessible; therefore, 19 curb ramps will be altered or reconstructed as part of this project. No additional easements will be needed for the project, and it's anticipated that the resurfacing work will be completed during night-time hours to limit disruption.

Fiscal Impact

Short-Term Impact: The estimated cost of this project is \$287,000, which was appropriated when the STP-Urban Program agreement was authorized with MHTC. The state will reimburse the City 80%, or \$229,600, and the City's local match of \$57,400 will be paid from Street Operations Maintenance account.

City of Columbia

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Long-Term Impact: The mill and overlay will prolong the life of the street, extending the timeframe for extensive reconstruction by 10+ years.

Vision, Strategic & Comprehensive Plan Impact

Vision Impact: Transportation

Strategic Plan Impact: Infrastructure

Comprehensive Plan Impact: Mobility, Connectivity, and Accessibility, Inter-Governmental Cooperation

Suggested Council Action

Authorize the call for bids through the Purchasing Division to construct the Keene Street Pavement Improvement project.

Legislative History

06/02/14 - (R78-14) - Public Hearing

03/25/14 - Interested Parties Meeting

11/04/13 - (Ord 21874) - Authorizing an STP Agreement with MHTC; appropriating funds



Department Approved



City Manager Approved

Introduced by _____

First Reading _____

Second Reading _____

Ordinance No. _____

Council Bill No. B 170-14

AN ORDINANCE

determining it is in the public interest to construct pavement improvements on Keene Street, from I-70 Drive SE to East Broadway (Route WW); approving and adopting plans and specifications; determining that the work shall be done by contract; calling for bids through the Purchasing Division; providing for payment for the improvement; authorizing the City Manager to obtain, execute and record all documents necessary for the improvement; providing for compliance with the prevailing wage law and state-mandated construction safety training; and fixing the time when this ordinance shall become effective.

WHEREAS, the City Council adopted a resolution declaring the necessity of constructing pavement improvements on Keene Street, from I-70 Drive SE to East Broadway (Route WW); and

WHEREAS, the notice of a public hearing on this project was published in a daily newspaper of general circulation in the city; and

WHEREAS, the City Council has held a public hearing on construction of the improvement.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The Council finds that the construction of pavement improvements on Keene Street, from I-70 Drive SE to East Broadway (Route WW), and other miscellaneous work, all in accordance with City of Columbia Street and Storm Sewer Specifications and Standards, in the City of Columbia, Missouri, is necessary for the welfare and improvement of the city and that it is in the public interest that such improvements be made. Specific improvements include milling the existing concrete pavement surface, from bicycle lane to bicycle lane, to a depth of approximately 1½-inches and placing a thin lift asphalt overlay, and the reconstruction of curb ramps to be ADA compliant.

SECTION 2. The plans and specifications for this improvement, as prepared by the Director of Public Works, are hereby approved and made a part of this ordinance by reference.

SECTION 3. The construction of the improvement shall be done by contract in accordance with the plans and specifications, the laws of the State of Missouri, and the Charter and Ordinances of the City of Columbia, Missouri.

SECTION 4. The Purchasing Agent is hereby authorized to call for bids and execute a contract for the improvement.

SECTION 5. Payment for this improvement shall be made from Missouri Highways and Transportation Commission STP funding, annual street maintenance 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 \$229,600.00, of the project costs, and the City's local match is \$57,400.00.

SECTION 6. The City Manager is authorized to obtain, execute and have recorded all licenses, easements, deeds and any other conveyances or instruments necessary for the City to complete this improvement.

SECTION 7. The contract for the improvement shall provide that not less than the prevailing hourly rate of wages, as found by the Department of Labor and Industrial Relations of Missouri, shall be paid to all workers performing work under the contract. The contractor's bond shall guarantee the faithful performance of the prevailing hourly wage clause in the contract.

SECTION 8. The bid specifications and contract for the improvement shall provide that the contractor and any subcontractor shall provide a ten-hour Occupational Safety and Health Administration construction safety program (or a similar program approved by the Missouri Department of Labor and Industrial Relations) for all employees working on-site. All employees working on the site of the improvement are required to complete the safety program within 60 days of beginning work on the improvement project.

SECTION 9. This ordinance shall be in full force and effect from and after its passage.

PASSED this _____ day of _____, 2014.

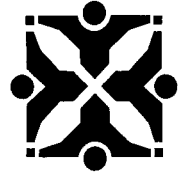
ATTEST:

City Clerk

Mayor and Presiding Officer

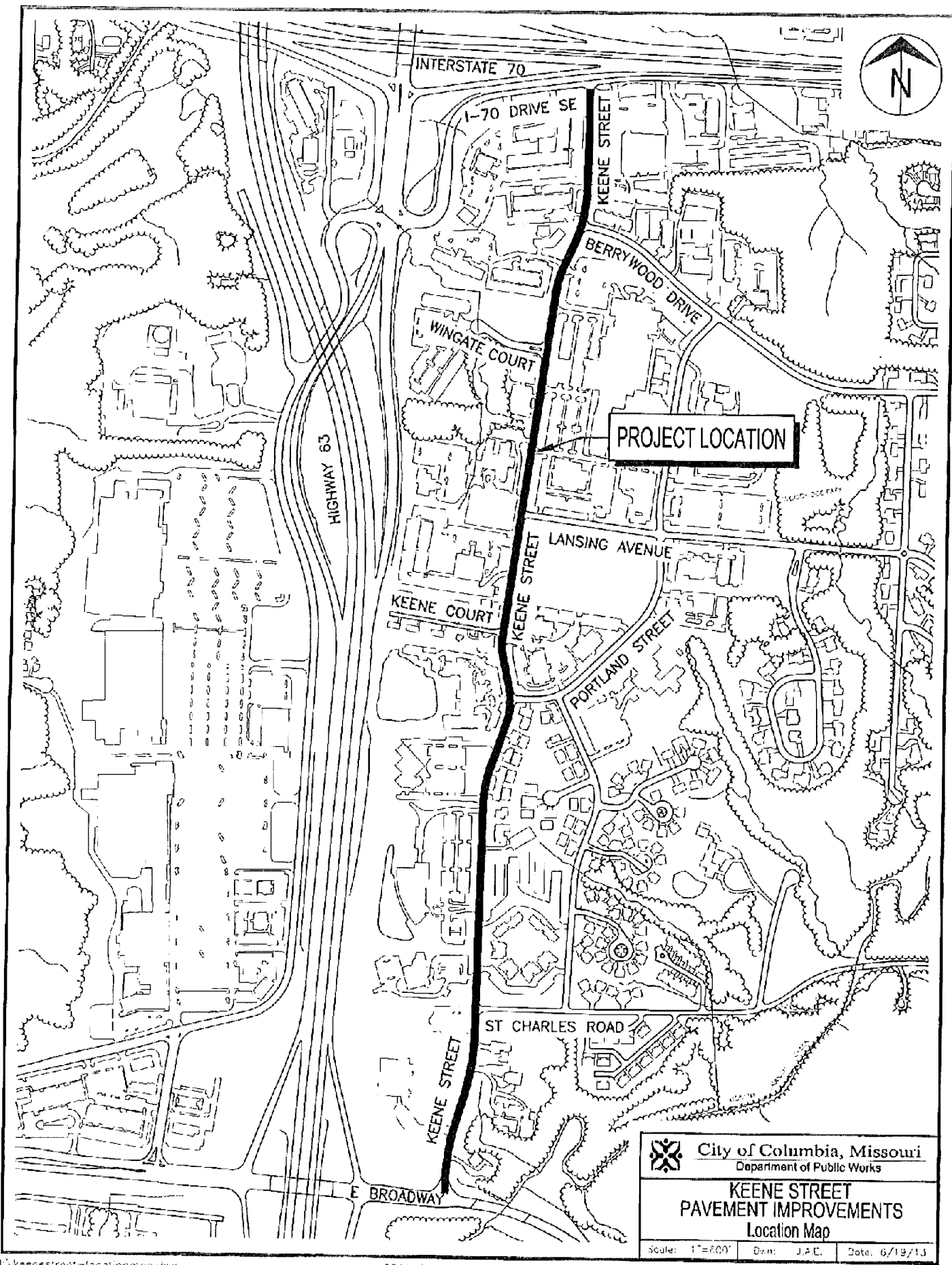
APPROVED AS TO FORM:

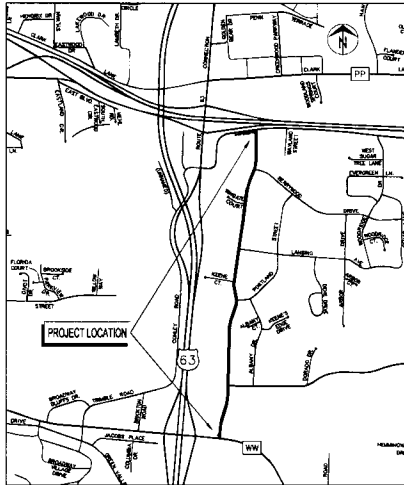
City Counselor



SUPPORTING DOCUMENTS INCLUDED WITH THIS AGENDA ITEM ARE AS FOLLOWS:

Maps

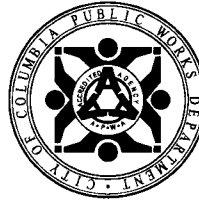




LOCATION MAP

City of Columbia, Missouri

Department of Public Works



KEENE STREET PAVEMENT IMPROVEMENTS

I-70 DRIVE SE TO EAST BROADWAY

FEDERAL PROJECT NO: STP-2101 (507)

GENERAL NOTES

- All construction to be in accordance with "City of Columbia Street and Storm Sewer Specifications and Standards" (Current edition).
- Known underground utilities are shown in their approximate locations. Other utilities may exist.
- All removal of driveway pavements should be verified by field engineer.
- All excavation to be in accordance with Sections 316.010-316.050, Revised Statutes of the State of Missouri. Such compliance shall not, however, excuse any person making any excavation from doing so in a careful and prudent manner, nor shall it excuse such person from liability for any damage or injury to underground utilities resulting from the excavation.
- All RCP is Class III unless otherwise indicated.
- All disturbed earth areas shall be restored as per TS— Seeding and TS— Erosion Control.
- Remove all pavement surfaces, inlets, pipes and sidewalks within the construction limits as per TS— except those noted to remain. The field inspector shall verify removal of all driveway pavement.
- Removal of trees and bushes shall be verified by field inspectors. Exercise caution when working near the construction limits to minimize disturbance to adjacent trees and shrubs that are not being removed by construction activities.
- Backfill of reinforced concrete pipe shall be 1 inch clean rock or soil compacted to 90 percent of standard proctor density as per TS—.
- No open trenches will be allowed overnight outside of the "road closed" area. Asphaltic "cold mix" shall be used as a temporary patch overnight. Temporary patching shall be considered incidental to the work.

UTILITY COMPANIES:

TELEPHONE
Centurylink
625 Cherry Street
Columbia, MO 65205
573-886-3300

NATURAL GAS
Ameren Missouri
2001 Maguire Boulevard
Columbia, MO 65201
573-236-8165 (N of I-70)
573-876-3030 (S of I-70)

CABLE TELEVISION
Mediacom
901 N. College Avenue
Columbia, MO 65201
573-443-1336 ext 354

LOCATES
Missouri One Call Inc.
1022 B Northeast Drive
Jefferson City, MO 65108
1-800-344-7483

WATER
City of Columbia
P.O. Box 6013
Columbia, MO 65205
Water & Light Department
Columbia, MO 65205
573-874-7301

ELECTRIC
City of Columbia
P.O. Box 6013
Columbia, MO 65205
Water & Light Department
Columbia, MO 65205
573-874-7301

SANITARY SEWER
City of Columbia
P.O. Box 6013
Columbia, MO 65205
Public Works Department
Columbia, MO 65205
573-874-7250

ELECTRIC (COUNCIL)
Boone Electric Cooperative
1415 Range Line Street
Columbia, MO 65201
573-446-6181 ext 231

LEGEND OF SYMBOLS

POWER POLE	○
TELEPHONE POLE	⊕
GUY ANCHOR	⊙
GUY POLE	⊕
STREET LIGHT POLE	⊕
YARD LIGHT (SOLAR)	⊕
WATER METER	⊕
GAS METER	⊕
GAS VALVE	⊕
WATER VALVE	⊕
FIRE HYDRANT	⊕
PIPE BREAKLINE	~
SANITARY MANHOLE	⊕
SANITARY CLEANOUT	⊕
SANITARY LATERAL CLEANOUT	⊕
TRANSVERSE POINT	⊕
WOOD ROW MARKER	⊕
BENCHMARK	⊕
SIGN	⊕
MAIL BOX	⊕
PROPERTY IRON	⊕
BUSH	⊕
STUMP	⊕
TREE REMOVAL	⊕
TREE	⊕
TREE LINE	⊕
SILT FENCE/TREE PROTECT	⊕
EXISTING PUBLIC SANITARY SEWER	⊕
EXISTING SANITARY SEWER LATERAL	⊕
EXISTING SANITARY SEWER TO BE ABANDONED	⊕
PROPOSED SEWER MAIN AND LATERALS	⊕
FENCE	⊕
CABLE TELEVISION	⊕
TELEPHONE	⊕
ELECTRIC	⊕
TELEPHONE OR ELECTRIC MANHOLE	⊕
WATER MAIN	⊕
GAS MAIN	⊕
FIBER OPTIC	⊕
FLOW LINE	⊕
PROPERTY LINE	⊕
LOT LINE	⊕
EXISTING RIGHT OF WAY LINE	⊕
EXISTING EASEMENT	⊕
PERMANENT UTILITY EASEMENT	⊕
PROPOSED SANITARY SEWER EASEMENT	⊕
PROPOSED PERMANENT DRAINAGE EASEMENT	⊕
PROPOSED RIGHT OF WAY	⊕
TEMPORARY ACCESS EASEMENT	⊕
TEMPORARY CONSTRUCTION EASEMENT	⊕
GRADING LIMIT	⊕

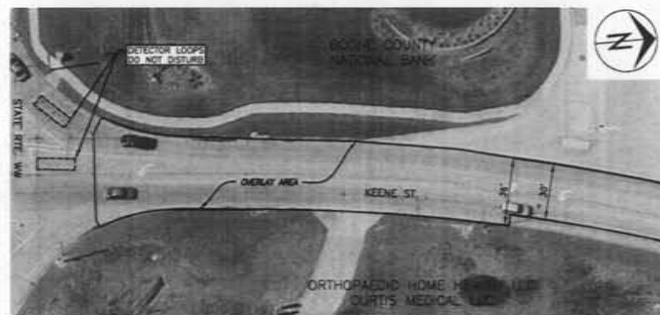
INDEX OF SHEETS

Description	Sheet No.
Cover Sheet	1
Mill & Overlay Plan Sheets	2
Sidewalk Plan Sheet	3-5
Detail Sheet	6

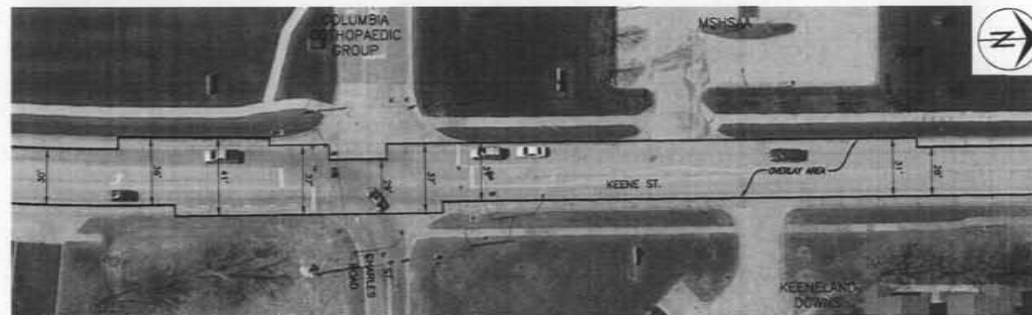
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No.	Date	By	Revision
File No. STP-2101(507)	Des. R.A.K.	Sheet	1 of 6
Scale: None	Dwn. B.F.R.		
Date: 5/22/2014	Chk. R.L.S.		
KEENE STREET PAVEMENT IMPROVEMENTS			
Approved By _____ Date _____			
Director of Public Works _____			



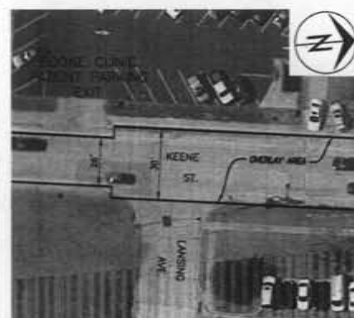
OVERALL PLAN
SCALE: 1" = 200'



INSET 1
SCALE: 1" = 30'



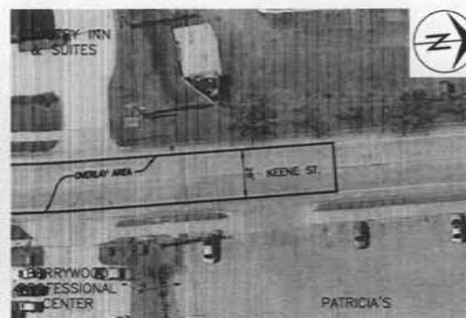
INSET 2
SCALE: 1" = 30'



INSET 3
SCALE: 1" = 30'



INSET 4
SCALE: 1" = 30'



INSET 5
SCALE: 1" = 30'

Revision	
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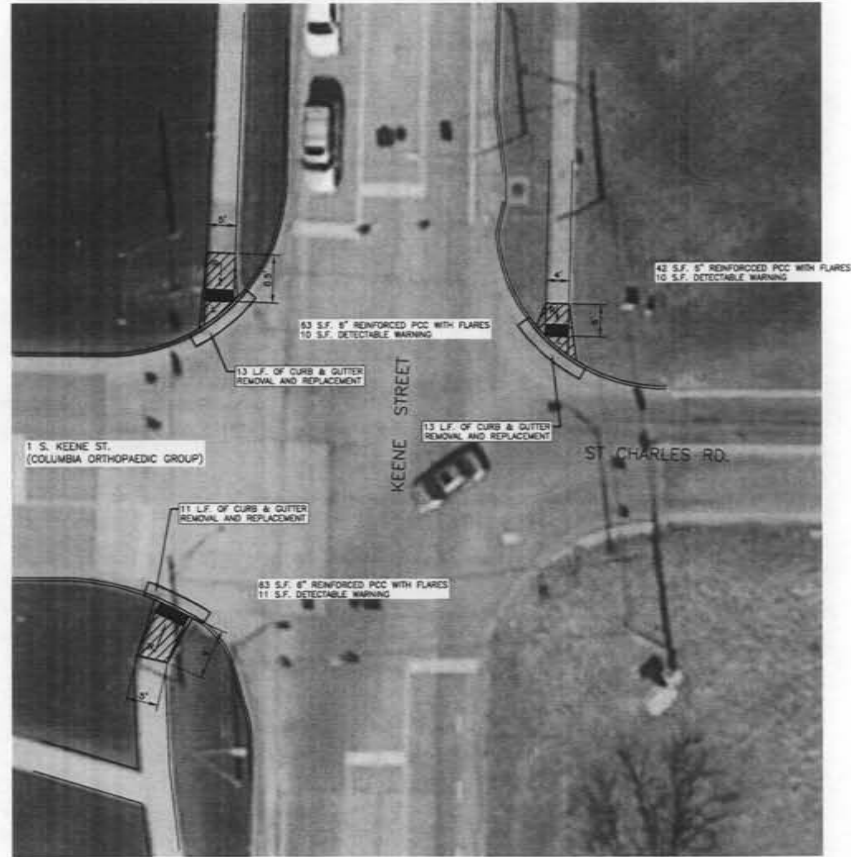
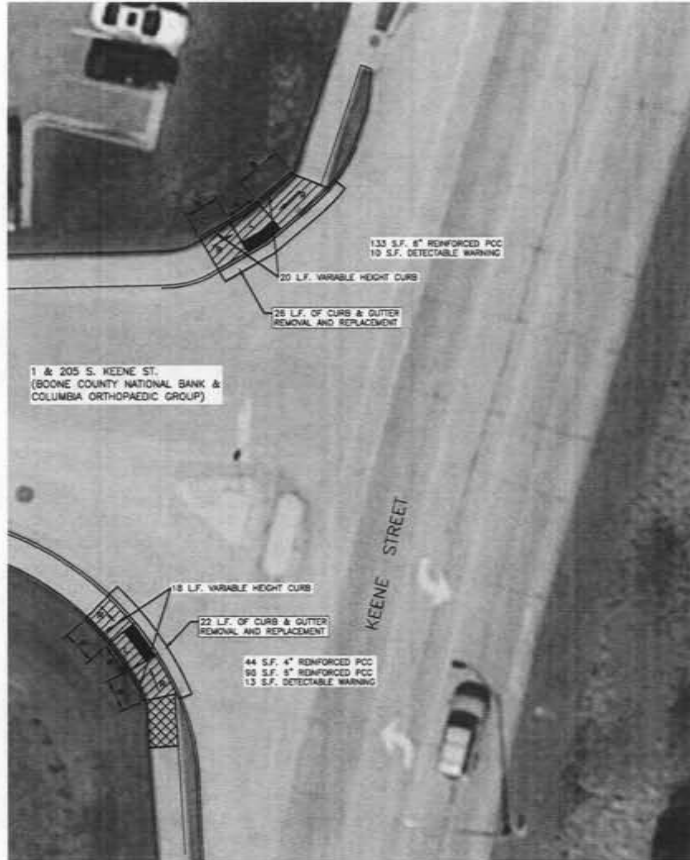
KEENE STREET PAVEMENT IMPROVEMENTS
Mill & Overlay Plan Sheet

City of Columbia, Missouri

Department of Public Works

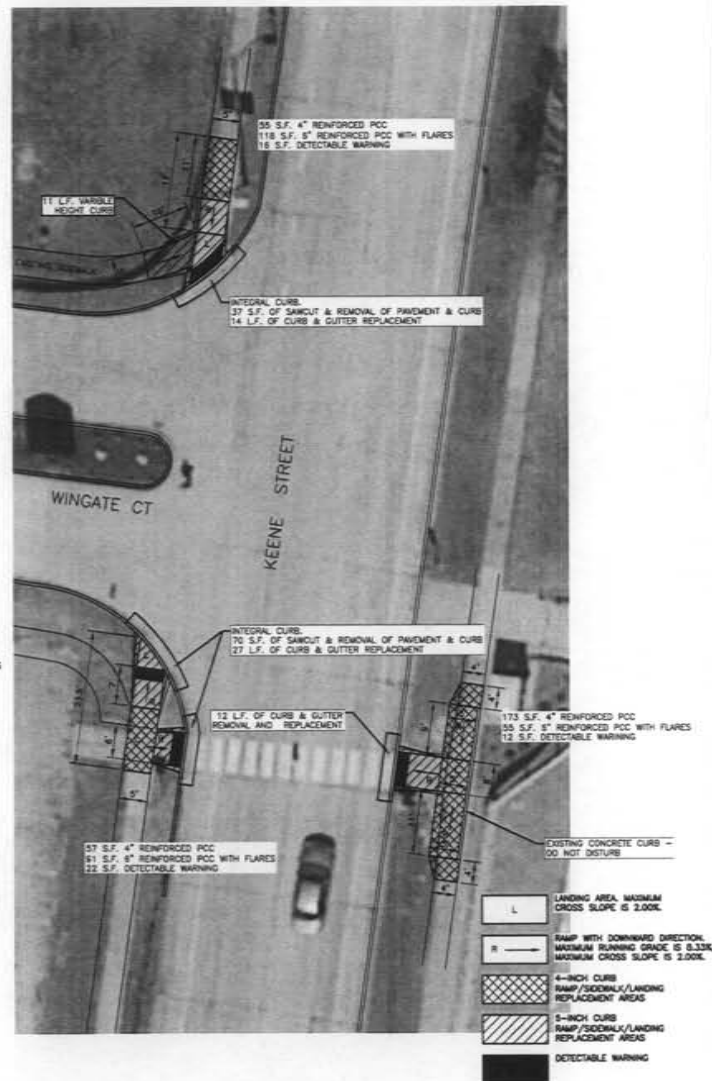
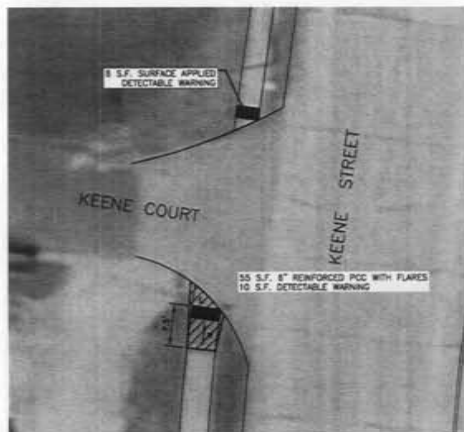
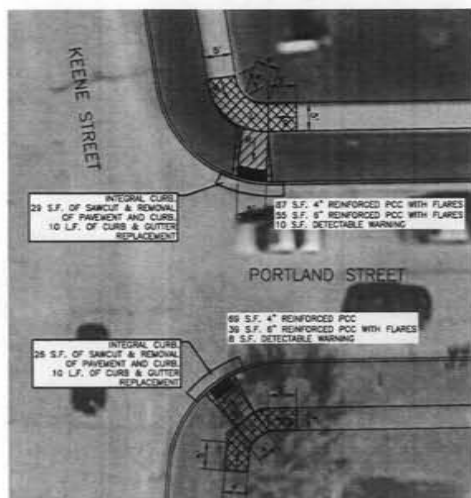
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Chk.	R.L.S.

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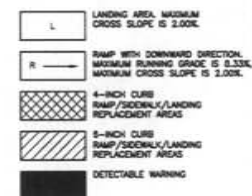
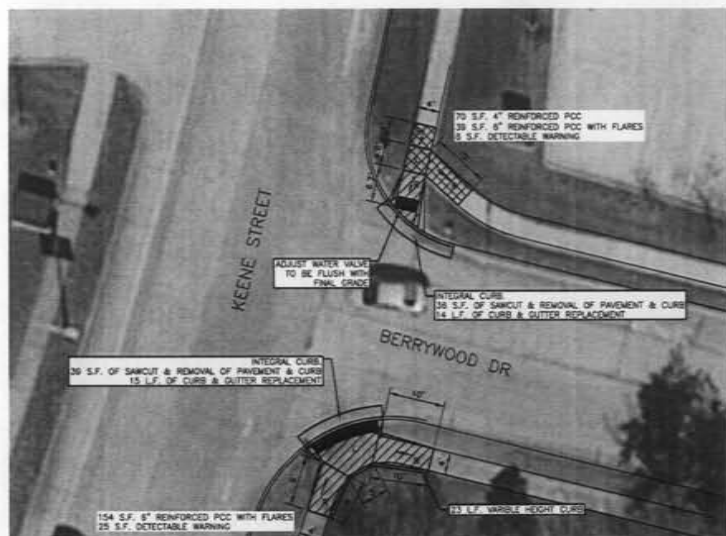
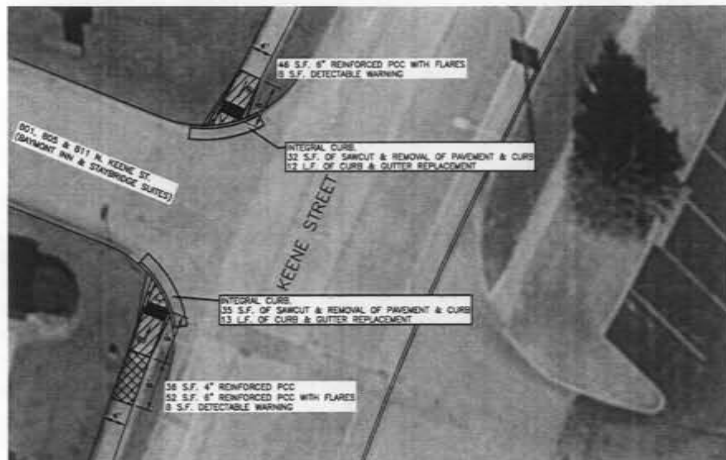


- L LANDING AREA, MAXIMUM CROSS SLOPE IS 2.00%.
- R RAMP WITH DOWNHILL DIRECTION, MAXIMUM RUNNING GRADE IS 8.33%, MAXIMUM CROSS SLOPE IS 2.00%.
- 4-INCH CURB RAMP/SIDWALK/LANDING REPLACEMENT AREAS
- 5-INCH CURB RAMP/SIDWALK/LANDING REPLACEMENT AREAS
- DETECTABLE WARNING

KEENE STREET PAVEMENT IMPROVEMENTS Sidewalk Curb Ramp Plan Sheet									
City of Columbia, Missouri Department of Public Works	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Revision</td> <td style="width: 80%;"></td> </tr> <tr> <td>By</td> <td></td> </tr> <tr> <td>Date</td> <td></td> </tr> <tr> <td>No.</td> <td></td> </tr> </table>	Revision		By		Date		No.	
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The No. 307-2125(2007) Scale: 1"=10' Date: 5/22/2014 Des. R.A.K. Dwn. B.F.R. Chk. R.L.S. Sheet 3 of 6									



City of Columbia, Missouri	Department of Public Works	<p>KEENE STREET PAVEMENT IMPROVEMENTS</p> <p>Sidewalk Curb Ramp Plan Sheet</p>	No.	Date	By	Revision
<p>File No. 239-2121(201)</p> <p>Scale: 1"=10'</p> <p>Date: 5/22/2014</p> <p>Des. R.A.K.</p> <p>Draw. B.F.S.</p> <p>Chk. R.L.S.</p>		<p>Sheet</p> <p>4 of 6</p>				



KEENE STREET PAVEMENT IMPROVEMENTS
Sidewalk Curb Ramp Plan Sheet

City of Columbia, Missouri
Department of Public Works

File No.	STP-2101(307)
Scale:	1"=10'
Date:	5/22/2014
Des.	R.A.K.
Chk.	B.F.R.
App.	R.L.S.

Sheet
5 of 6



1. RAMP SHALL BE 6" THICK SLAB A CONCRETE WITH #4 BARS @ 12" O.C. MIN.
2. EXPANSION JOINT SHALL BE 1/2" PREPARED CORD OR BUTYRAMOUS EXPANSION JOINT MATERIAL.
3. MAXIMUM RAMP CROSS SLOPE IS 2.00%.
4. MAXIMUM RAMP SIDE SLOPE IS 4.00% HORIZONTAL.
5. REPLACE STANDARD CURB SECTION WITH SIDEWALK RAMP CURB SECTION - DETAIL 400.01
6. SIDEWALK RAMP CURB SECTION IS EXPANSION JOINT TO THE FLAT WALKWAY.
7. LANDING AREA AT TOP OF RAMP SHALL BE 4'-0" MINIMUM, CROSS SLOPE OF LANDING SHALL NOT EXCEED 1.00%, INCREASE SIDEWALK RADIIUS TO OBTAIN MINIMUM 4'-0" LANDING.
8. SIDEWALK RAMP NOT APPLICABLE IF SIDEWALK AND PARAWALK WALKWAY DOES NOT PROVIDE 4'-0" LANDING AT TOP OF RAMP.
9. FLARE IS REQUIRED AT RAMP TO KEEP GRASS PARAWALK SLOPES IN CONFORMANCE WITH THE CURB SECTION.
10. CURB TRANSITION LENGTH IS DEPENDENT ON FLARE SLOPE.
11. FLARE EXTENDS TO NORMAL SIDEWALK, FLARE SLOPES MUST NOT EXCEED 1:10, A LANDING IS REQUIRED, SEE NOTE 7.

SIDEWALK RAMP
Sidewalk with Grass Parkway
(Type A)

430.01

KEENE STREET PAVEMENT IMPROVEMENTS

City of Columbia, Missouri
Department of Public Works

Sheet
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