



TECHNIQUES FOR STORMWATER MANAGEMENT

TABLE OF CONTENTS

BACKGROUND AND PURPOSE	1
REQUIREMENTS AND PRINCIPLES OF STORMWATER MANAGEMENT	3
SUBMITTAL INFORMATION.....	8
MAINTENANCE AND INSPECTIONS	12
DRY WELLS	15
VEGETATED FILTER STRIP AREAS	21
MODIFIED FRENCH DRAIN	27
PERMEABLE PAVERS	31
RAIN GARDENS.....	35
CREDIT FOR EXISTING TREES.....	43
APPENDIX A – INFILTRATION TESTING	
APPENDIX B – RECOMMENDED PLANTS - RAIN GARDENS	
APPENDIX C – DETERMINING FLOW AREA	
APPENDIX D – UNDERDRAINS AND POP-UP EMITTERS	
APPENDIX E – PRETREATMENT OPTIONS	
APPENDIX F – INFILL DEVELOPMENT ORDINANCE	
APPENDIX G – STORMWATER REVIEW PROCESS	
APPENDIX H - STORMWATER POLLUTION PREVENTION FOR SMALL RESIDENTIAL CONSTRUCTION SITES	



Acknowledgements and References

This document was created, reviewed, edited, and approved under the direction of Bill Bensing, Director of Public Services for the City of Kirkwood, Missouri. Thanks to all those who reviewed and provided input on content. Reviewers include:

City of Kirkwood Public Services Staff		
Engineering		
Chris Krueger, P.E.		Director of Public Services
Richard Holesinger, P.E.		City Engineer
Jamal Dillahunt		Project Engineer
Cory Meyer		City Forester
Jill Potts		Administrative Assistant
Planning		
Jonathan Raiche		City Planner
Amy Lowry		Assistant Planner
Building Commission		
Jack Schenck, Jr.		Building Commissioner
Tim Smalling		Plans Examiner
TaMara Pelkey		Permit Clerk
First Printing November 2018 Second Printing August 2020 Third Printing: January 2022 Fourth Printing: November 2023		
139 South Kirkwood Road Kirkwood, MO 63122 P: 314-822-5819 For an electronic version of this document go to: Web: https://www.kirkwoodmo.org/government/departments/public-services/engineering/stormwater		