



Jefferson National Expansion Memorial

Environmental Assessment for
Emerald Ash Borer Strategy

DRAFT July 2011



Table of Contents

1.0 Purpose and Need	1-1
1.1 Purpose of and Need for Action	1-1
1.2 Project Background and Scope	1-2
1.3 Relationship to Other Planning Projects	1-2
1.4 Issues.....	1-8
1.5 Authorizing Actions and Applicable Laws, Regulations, and Policies.....	1-10
1.6 Impact Topics Considered in this EA	1-12
1.7 Impact Topics Dismissed from Further Consideration	1-12
2.0 Description of Alternatives	2-1
2.1 Alternatives Considered, but Dismissed.....	2-1
2.2 Description of Proposed Action and No Action Alternatives.....	2-1
2.3 Comparison of the Alternatives	2-3
2.4 Cumulative Actions.....	2-3
3.0 Affected Environment / Environmental Consequences	3-1
3.1 Methodology	3-1
3.2 Natural Resources: Vegetation	3-2
3.3 Cultural Resources: Cultural Landscapes.....	3-5
3.4 Cultural Resources: Historic Properties / National Register of Historic Places	3-6
3.5 Cultural Resources: Visual and Aesthetic Resources	3-9
3.6 Visitor Use and Experience	3-12
3.7 National Park Service Operations	3-14
3.8 Public Health and Safety	3-15
3.9 Transportation and Access.....	3-16
4.0 Consultation and Coordination	4-1
4.1 EAB Working Group	4-1
4.2 Public Involvement Activities	4-1
4.3 Internal Workshops	4-1

5.0 Bibliography	5-1
References Cited.....	5-1
6.0 List of Preparers	6-1
National Park Service - Midwest Regional Office.....	6-1
Jefferson National Expansion Memorial	6-1
Consultants	6-1
Appendices	A-1
Appendix A: Technical Memorandum #1.....	A-3
Appendix B: Technical Memorandum #2.....	A-29
Appendix C: Determination of Impairment.....	A-51

List of Figures

Figure 1.1	Regional context map.	1-2
Figure 1.2	St. Louis context map.	1-2
Figure 1.3	Jefferson National Expansion Memorial and its urban context.....	1-3
Figure 1.4	The character-defining single-species allee planting.....	1-4
Figure 1.5	Allée planting	1-5
Figure 1.6	A rendering by Kiley of the tree character	1-6
Figure 1.7	Kiley planting plan, 1964.....	1-6
Figure 1.8	Diagram comparing trees specified by Kiley and trees planted by NPS.	1-7
Figure 1.9	Missing trees create gaps in the planting.....	1-7
Figure 1.10	Some Rosehill ash are planted along the street edge	1-7
Figure 1.11	Rosehill ash planted on the slope by the grand staircase	1-8
Figure 1.12	Map showing the locations where EAB has been detected	1-9
Figure 3.1	Form of the allees in relationship to the Arch	3-2
Figure 3.2	Rendering of the existing conditions at the Memorial grounds	3-3
Figure 3.3	Allee plantings.....	3-7
Figure 3.4	View from the north of the Gateway Arch.	3-8
Figure 3.5	Kiley concept rendering of the same view of the Gateway Arch	
Figure 3.6	View of the Gateway Arch from the east side of the Old Courthouse at Luther Ely Smith Square.....	3-9
Figure 3.7	View of the Gateway Arch from East St. Louis.....	3-9
Figure 3.8	North reflecting pond with ash trees (leafless).....	3-10
Figure 3.9	Transportation context.....	3-11
Figure 3.10	Canopy cover along the walks.	3-12

List of Tables

Table 2.1	Alternatives Summary and Extent to which Each Alternative Meets Project Objective(s)	2-3
Table 2.2	Environmental Impact Summary by Alternative.....	2-5
Table 4.1	Summary of Feedback from Public Information Meeting.....	4-3

