



## Table of Contents

Executive Summary.....	2
Introduction.....	3-5
Background .....	3
General Building Overview.....	3
Design Background.....	4-5
Site .....	5
Lighting Depth.....	6-54
Club Room.....	7-18
Lobby.....	19-29
Gymnasium.....	30-42
Exterior Pathways .....	43-54
Electrical Depth.....	55-65
Branch Circuit Redesign.....	56-60
Copper vs Aluminum Feeder Study.....	61-62
Energy Efficient Transformer Analysis.....	63-64
Protective Device Coordination.....	65
Construction Management Breadth .....	67-70
Mechanical Breadth.....	71-72
Final Conclusions.....	73
References.....	74
Acknowledgements.....	75
Appendix A: Lighting and Control Equipment	
Appendix B: Gymnasium Daylight Study	
Appendix C: Mechanical System Study	