

City of Anchorage Street Lighting Demonstration and Design Criteria

Anchorage, Alaska

Project Completed:	2010 (Project Duration: 2009 - 2010)
Role:	Prime Consultant - Lighting (WBE and SBE not required)
Project Designer:	Todd Givler, 20% Time Spent on Project
Project Manager:	Nancy Clanton, 5% Time Spent on Project
Owner:	City of Anchorage, AK
Owner's Rep:	Michael Barber (now with Alaska Conservation)
Phone:	907-276-1917
Email:	mbarber@alaskaconservation.org

Clanton & Associates developed and conducted street lighting demonstration projects for residential and commercial areas in the City of Anchorage. The City was in the process of replacing all of the street lighting with energy efficient equipment. Demonstration projects were created in order to inform the City on equipment selection, quality visual results, adaptive standards implementation, and also to provide input from the community on subjective preference.

Energy efficient, high quality and low maintenance LED and induction luminaires were selected for the one-for-one replacement demonstration projects. In addition, three different dimming systems were evaluated as part of the adaptive standards demonstration. Visibility quality and adaptive standards were evaluated by a research team from Virginia Tech Transportation Institute, and Clanton & Associates conducted the subjective evaluations. The results from the demonstration projects were then used by Clanton & Associates to create street lighting design criteria and specifications for the City. Overall energy reduction goals of over 30% have been met with energy efficient luminaires, and far greater energy savings with adaptive standards implementation.

