



Hamilton

INFORMATION REPORT

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	May 16, 2016
SUBJECT/REPORT NO:	Winona Business Petition for Street Lighting (PW16040)-(Ward 11)
WARD(S) AFFECTED:	Ward 11
PREPARED BY:	Mike Field (905) 546-2424, Extension 4576
SUBMITTED BY:	Gary Moore, P.Eng. Director, Engineering Services Public Works Department
SIGNATURE:	

Council Direction:

N/A

Information:

A letter and petition was presented to Council by businesses in Winona on February 10, 2016, attached Appendix A. The petition was signed by eight businesses and was in reaction to recent robberies in the area. The correspondence associated with petition suggests that the existing street lighting local to the businesses is inadequate and requests additional street lighting to enhance safety and security.

The addresses of the noted businesses are located in two distinct areas in Winona. Two businesses are within the Sun Valley Square commercial plaza (3&15 Lockport Way) and the remaining six are on Highway No.8 in proximity to Winona Road.

Corridor Management staff conducted a daytime and night-time audit of the areas where the business are located to assess the existing street lighting conditions in the context of the petition request. In addition to the on-site audit, street lighting on Highway No.8 was retrofitted to LED in 2015 and staff consulted the lighting design to review the post-retrofitted light levels.

The Sun Valley Square commercial plaza is flanked by Lockport Way and North Service Road. Both roadways are fully illuminated with street lighting and meet required lighting levels. The plaza is fully illuminated by non-Municipal lighting and appears to conform to applicable lighting standards.

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Highway No.8 and Winona Road, local to the petitioned businesses, is fully illuminated with street lighting. Highway No.8 consists of LED street lights and Winona Road consists of high-pressure sodium (HPS) street lights.

Highway No.8, west of Winona Road, the existing street lighting is installed on both sides of the roadway on utility poles in a staggered configuration. Lighting levels on this segment of roadway exceed the required levels. East of Winona Road the existing street lighting is installed on the south side of the roadway on every-other utility pole. Lighting levels on this segment of the roadway meet the required average lighting levels with a negligible deficiency in uniformity on the far eastern end of the audited area.

On Winona Road, both north and south of Highway No.8, the existing street lighting is installed on the east side of the roadway on every utility pole. Lighting levels on Winona Road exceed the required levels. Lighting levels at the intersection of Highway No.8 and Winona Road exceed the required levels.

The purpose of street lighting is to adequately illuminate the municipal right-of-way (ROW) to enhance the night-time safety and security of pedestrians and roadway users. It is not intended to illuminate private property and efforts are made to reduce or eliminate obtrusive lighting and light trespass. LED street lights distribute light accurately and enable the City to illuminate the ROW while reducing or eliminate obtrusive lighting, light trespass and general light pollution more effectively; they are more environmentally friendly than older HPS street lights thereby better aligning with the City's Mission, Vision, Values and Goals.

It was observed during the on-site audit that the petitioned businesses have varied configurations of private lighting most of which would not conform to applicable lighting standards. At night a number of properties were exceedingly dark as they had non-functioning, non-existent or considerably inadequate site lighting.

The lighting of private property is not a function of the street lighting system. Businesses that are concerned about the safety and security of their properties at night are encouraged to review their site lighting strategies by using Crime Prevention through Environment Design (CPTED) principals and the applicable recognized lighting standards.