



CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA 57701-2724

PUBLIC WORKS DEPARTMENT

300 Sixth Street

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MEMORANDUM

TO: Honorable Mayor and Council

FROM: Dirk Jablonski, Public Works Director

DATE: December 5, 2005

RE: E. St. Patrick Street Pedestrian Crossing

At the November 29, 2005, Public Works Committee meeting a proposal for increasing the safety at the referenced crossing was presented. The proposal will make vehicular traffic more aware of the presence of a pedestrian in the crosswalk.

The existing configuration consists of a painted crosswalk, flashing lights to provide advance warning and signs at the crosswalk.

The proposal would replace and relocate the lights. The incandescent bulb lights would be replaced with LED bulb lights which provide a much brighter projection. The lights would be located adjacent to the crossing and would be pedestrian activated. The current system is on all the time which drivers become accustomed to. Advance warning signs and new fluorescent green signs would be installed.

The probable cost of this improvement is \$12,000. It is recommended that the funding be provided from the General Fund, Streets & Highways.

November 22, 2005

TO: Dirk Jablonski

Subject: E. St Patrick Street mid-block pedestrian crossing.

Black Hills Power Company will not let the City attach any new lights, signs or electrical services to the existing power poles in the area of the crossing. With this minor problem we look at adding a new electrical service and to increasing the visibility to this pedestrian crossing.

The City Traffic Shop will replace all the old signs with fluorescent yellow-green pedestrian signs, add pedestal poles and bases, wire and all other miscellaneous parts at the crossing. The shop placed on order four yellow LED signal lights.

To improve the visibility of this crossing the City would like to add pedestrian activated (bright LED) lights. The light will only flash when the pedestrian button is pushed and this would reduce energy cost. New electrical services would bring the City electrical service into City code. The existing flasher lights and electrical service has been in place for many years.

I have requested two costs estimated from Checker Electric and Solar Electric for drilling and pouring two concrete foundations for pedestrian poles, installing two electrical J-boxes, add 100 amp electrical services and trenching and boring under the street from one side to the other.

The quotes from the electrical contractors for the above project are:

- Solar Electric \$9,147.09
- Checker Electric \$9,954.00
- City cost for parts and materials \$1,900.00

This would cost the City around \$12,000 to bring this crossing up to standard.

