

**Title: Hwy 63:11/Hwy 63:12/ Hwy 686 Interchanges, 35 m High Mast Lighting Poles**

Memorandum (or Approval) Date: December 21, 2012

Design Exception Request Date: December 19, 2012

Region: Ft. McMurray

Approval Status: Approved

Project Location					
Highway	Control Section	At km	From km	To km	Existing AADT
63	11/12		18.70	1.20	26000

Project Type (Mark all that apply with an X)			
Functional Planning:	New Construction:	Reconstruction:	Paving/Surfacing:
Bridge:	Operations:	Geotechnical:	Environmental:
Other: Preliminary Design, Illumination <b>X</b>			

Summary
The design exception request is for a lighting design using proposed 35 m high mast light poles at the new interchanges at Hwy 63 / Hwy 686 and Hwy 686 / East Parsons Arterial in Ft. McMurray. The current department lighting standard for high mast structures is a pole height of 30 m.
Rationale for Approval/Rejection
<ul style="list-style-type: none"> <li>There is no significant difference in the routine maintenance practices between the 30 m and 35 m high mast poles.</li> <li>35 m poles with 750W luminaries were determined by the consultant to be the most efficient with the lowest combined power and maintenance costs over a 30 year period.</li> <li>35 m poles would not require any future lighting modifications or pole relocations to the mainline lighting system to accommodate future roadway widening.</li> </ul>

Additional Mitigation Required
<ul style="list-style-type: none"> <li>None</li> </ul>

Key Words
Illumination

Photograph/Diagram



Preliminary Lighting Layout, 35 m High Mast Poles