

## DESIGN STANDARDS/PRACTICE EXCEPTION REQUEST SUMMARY

## Title: Hwy 2A & Dunbow Rd. Intersection–Improvement & Signalization

Memorandum (or Approval) Date: February 9<sup>th</sup>, 2015 Design Exception Request Date: January 23<sup>rd</sup>, 2015

Region: Southern

Approval Status: Approved

Project Location						
Highway	Control Section	At km	From km	To km	Existing AADT	
2A	08		0+000	5.229	22560	

Project Type (Mark all that apply with an X)					
Functional	New	Reconstruction:	Paving/Surfacing:		
Planning:	Construction:	Reconstruction.	Paving/Surfacing:		
Bridge:	Operations:	Geotechnical:	Environmental:		
Shoulder	Preliminary Design:	Geometry Improvement and Signalization: X			
Widening:					

#### Summary

The existing skew angle of 70 degrees does not provide sufficient tangent section to ensure that the through movement along Dunbow Road (eastbound – westbound movement) is aligned. The re-aligned skew angle will be at 67 degrees.

In addition to the re-alignment of Dunbow Road, the intersection is proposed to be signalized with adequate illumination. The posted speed approaching the intersection from the North/South will be 80 km/h and the posted speed approaching the intersection from the East/West will be 50km/h.

### Rationale for Approval/Rejection

- The skew angle will be 67 degrees which provides an aligned East/West movement
- Provides the most cost effective option among the several reviewed
- This option provides less throwaway of the existing pavement and also accommodates future growth
- A reduced skew angle will negatively impact the sightlines for a vehicle approaching the intersection on Dunbow Road. The risk is mitigated by the signalization of the intersection
- A relatively flat vertical alignment exists along Highway 2A and Dunbow Road with the intersection on a tangent section on Highway 2A
- Adequate illumination approaching the intersection and proper signage will be provided

Additional Mitigation Required				
None.				

#### **Key Words**



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Alignment, align, signal, skew angle, intersection

