

Title: Intersection Improvement, Type IIa vs. Type IIIa and Left turn Lane on Centerline

Memorandum Date: May 25, 2011

Design Exception Request Date: May 16, 2011

Region: Central

Approval Status: Approved

Project Location					
Highway	Control Section	At km	From km	To km	Existing AADT
10	08		6.500	6.900	2820

Project Type (Mark all that apply with an X)			
Functional Planning:	New Construction:	Reconstruction: X	Paving/Surfacing:
Bridge:	Operations:	Geotechnical:	Environmental:
Other:			

Summary
A request to construct a Type IIa rather than a Type IIIa intersection which is the recommended layout for 2030 design year traffic conditions. A second request at this intersection is the construction of a northbound left turn lane centered on the centerline instead of on the right side of the centerline due to physical restraints on the east side of the highway.
Rationale for Approval/Rejection
<ul style="list-style-type: none"> • There is a bridge located 115m south of this intersection. A Type IIIa intersection will require widening the bridge. A Type IIa will circumvent the need to widen the bridge. • There are sidewalks, guardrails, light poles, retaining walls, and residential properties located along the east side of the intersection. Constructing the northbound left turn lane at the centerline would not impact all the aforementioned physical constraints. • The collision history does not reflect safety concerns related to the geometry or traffic control at this intersection. • The posted speed limit is 50 km/hr and the 25:1 tapers will be constructed to provide transitions between lanes.

Additional Mitigation Required
No mitigation is required.

Key Words
Type IIa intersection, Type IIIa intersection, Left turn lane

