

Title: Hwy 47:06, South Robb Intersection, Km. 6.94, Intersection Sight Distance

Memorandum (or Approval) Date: July 5, 2013

Design Exception Request Date: June 5, 2013

Region: North Central

Approval Status: Approved

Project Location					
Highway	Control Section	At km	From km	To km	Existing AADT
47	6		0	45.78	460

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

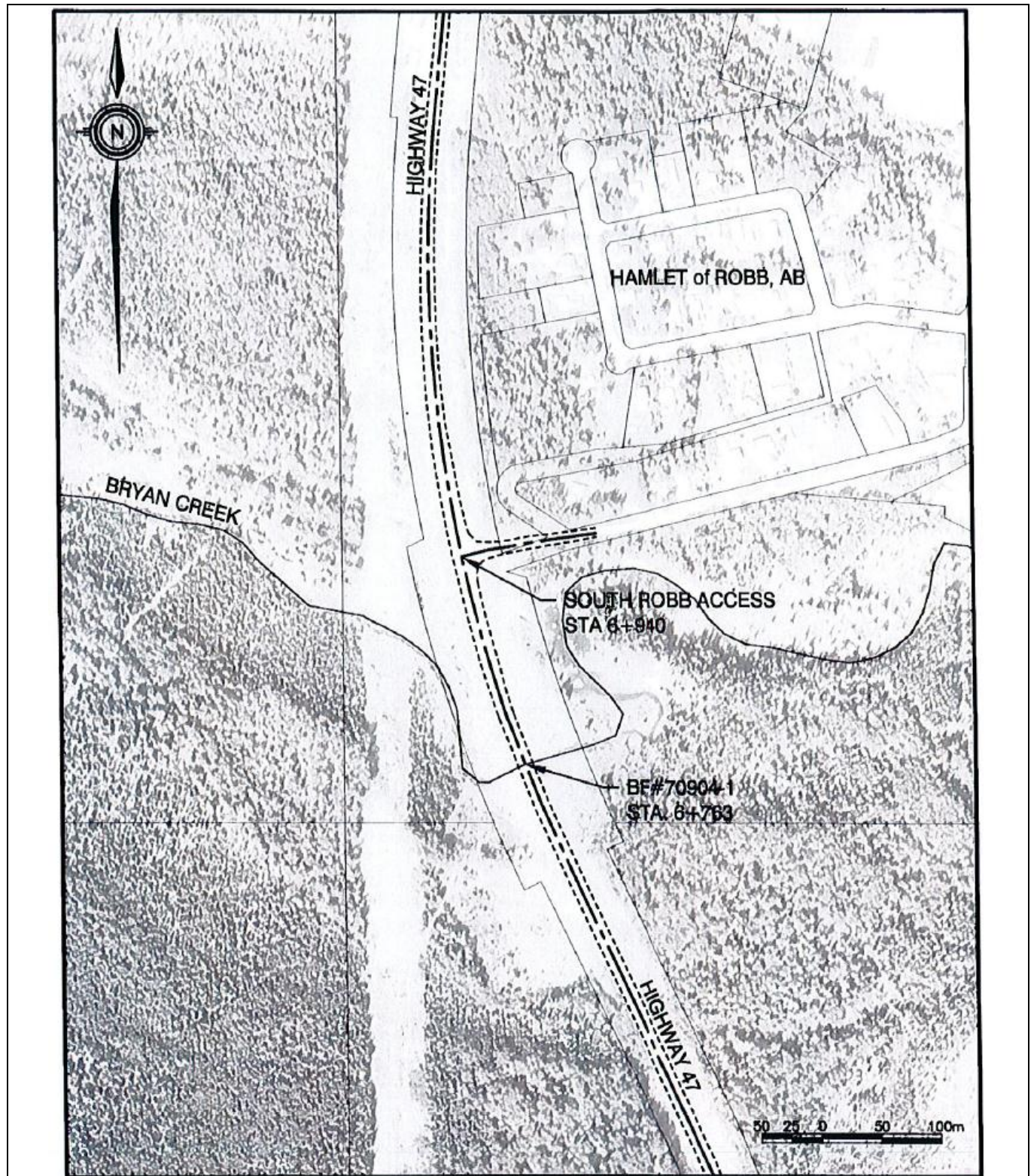
Summary
Current intersection sight distance (ISD) and stopping sight distance (SDD) are not adequate for a design speed of 110km/h. However, reconstruction of the road profile to meet a 110km/h design speed would be difficult due to existing site constraints. Thus, it is recommended to maintain the road profile and its 100km/h posted speed.

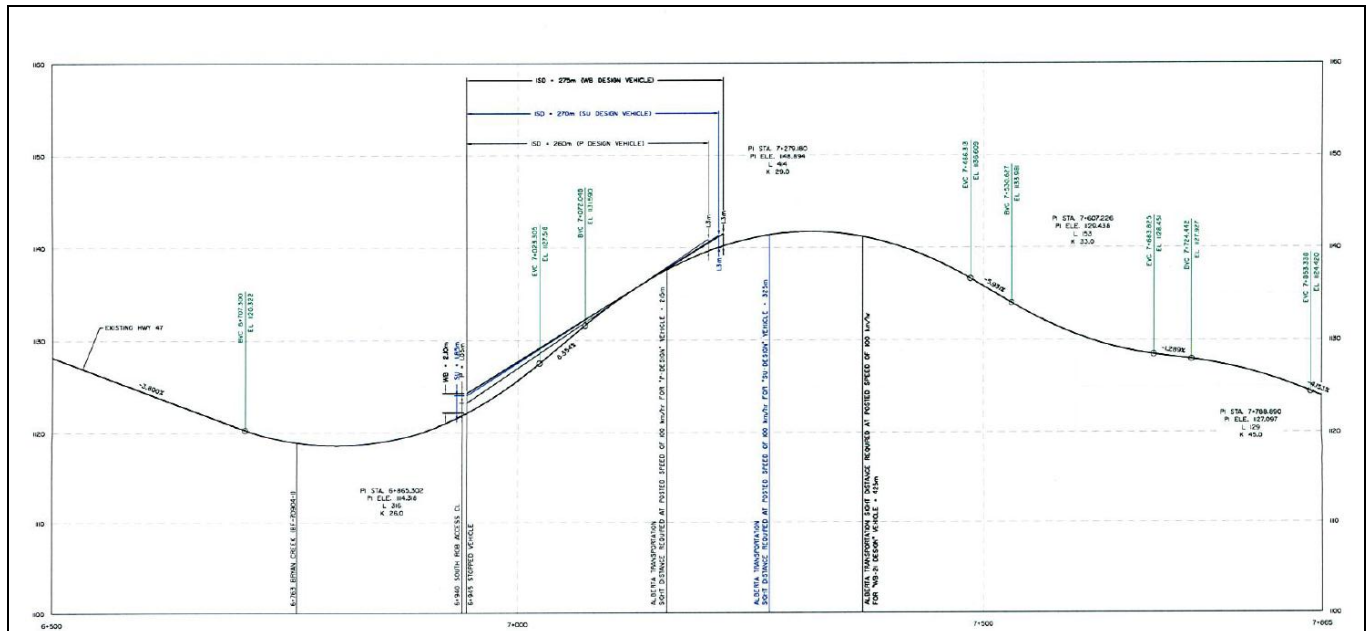
Rationale for Approval/Rejection
<ul style="list-style-type: none"> • Due to the topography and site constraints in the area, the consultant estimated that improving the ISD and SDD would cost 5 million dollars. Thus, improving the vertical alignment is not considered as cost effective. • The collision history from 2006 to 2010 for this intersection is considered good. There were 9 reported collisions. Within that, 2 were non-animal collisions, and both were PDO. • The existing Type 3a intersection treatment exceeds the warranted Type 1a intersection treatment.

Additional Mitigation Required
Concealed intersection sign (WA-13) will be installed in advance of the intersection along Highway 47.

Key Words
Vertical curve, minimum K value, sag curve, intersection, intersection sight distance

Photograph/Diagram





EXISTING CONDITIONS
POSTED SPEED 100km/hr

2011.09.05 047:06:c1 DL:R1 km 6.768 COALSPUR JCT Hwy 16 BICKERDIKE 53.230165 -116.985838 1119.4



Hwy 47 and Robb Access (NB)