Design exercise 1- determine cross-section

Question 1a
Given a future AADT of 6000 vehicles per day (two-way) determine for a rural State Highway upgrade project with a proposed design speed of 100 km/h
- the widths of the traffic lanes, shoulder and verges
- crossfall for each element based on a spray seal and gravel shoulders
- total carriageway width
- width between hinge points

Question 1b
From the diagram below determine if the culvert headwall is in the clear zone. If so what actions would you recommend.
- design ADT 4,000 vpd
- design speed 100 km/h
- on the outside of a 700 m horizontal curve