The following is a description of what is to be included in the lab 3 report for each question. This is meant to be a clarification of what is to be handed-in. Be sure to include in your report everything that the lab manual asks for. With the report, attach a printed version of your code or send an electronic copy to umfauch2@cc.umanitoba.ca.

A) –

B) As described in the lab manual.

C) As described in the lab manual.

D) Answer the questions. Show that the results are the same with your new boundary condition using comparative plots.

E) Give the p.u.l. capacitance and describe how it was found.

F) Show your derivation and give the requested finite difference formula. Give the new p.u.l capacitance.

G) The velocity of propagation of the t-line and the requested plots.

H) Plots similar to those required in (G) but for a lossy line.

I) Plots before and after the pulse has hit the boundaries. Demonstrate that the implemented boundary conditions behave as expected for both lossy and lossless lines.