Version 1.0 of the Microsoft Excel tool to design channel lining. This is the first version of the tool and was created in 2016 in the office of Design Policy and Support.
The excel sheet is meant to look similar to the Georgia Tech web page for calculating channel lining. All cells highlighted in yellow are user defined entries and all cells highlighted in gray are calculations output. Once you are finished entering all the yellow cells, please press the 'ITERATE' button to compute the solution. In order to have multiple channel runs in a single workbook, continue to copy each tab and add it to the end of the previous tab. The tabs can be renamed in order to organize the project by channel name or station. A summary page can be produced by clicking on the 'create summary table' button and a new worksheet will be placed at the beginning of the workbook with a detailed summary of all the channels within the project with a link which will take you to the tab that it was created with. You must have macros enabled for this spreadsheet to function properly. If Excel's Macro Security is not set properly, you will not be able to run the tool.

For a detailed description of the theory behind this application, please read the PDF file titled 'Channel Protection Design Explanation 12-13-2016.' If you have any questions about the excel file or any channel protection/channel design related questions, please contact Jon D. Griffith in Design Policy and Support at 404-631-1547.