Isfahan University of Technology (IUT) Department of Civil Engineering RIVER ENGINEERING 1403-1404 Term II Assignment #1 River Geomorphology Due: 05/12/1403

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1 Choose a reach of any mature river that include a river crossing. This reach should include meandering channels. Using the Google Earth or any matching software,

- (a) Divide the meandering channels into several reaches; calculate the sinuosity of the meandering and gradient of each reaches.
- (c) Make a graph of the relationship between sinuosity and the gradients. Describe in words the results of the graph. Is the relationship linear?
- (d) Do you foresee any potential problems with the bridge crossing? Pick up the best location for the river crossing (Hint: Use the time history of the region).