George Washington University School of Business and Public Management



Technical Report 2 Brad Hartman Lighting / Electrical Dr Moeck October 31st 2005

The Purpose of the second technical assignment is to evaluate the existing electrical conditions inside the new George Washington University School of Business and Public management. Using the plans and specifications generously provided to me by Smith Group Inc., a single line diagram and a load summary calculation was performed. Also provided is a narrative on the general information included in the electrical system.

The Load summary Calculations adhere to the NEC standards provided in the NEC Handbook. Loads included in the calculation are lighting loads, receptacle loads, mechanical loads, and elevator loads. Feeders were then sized according to the loads, and the main feeder for the building was also sized accordingly. After compiling the load data, the local power utility data was applied to calculate the building cost.

The overall report is meant to provide general knowledge of the building and its electrical system. It will display both the positive and negative areas of the building and will determine the areas that must be re-evaluated.