

## APPENDIX 2

### SMART CART CLASSROOM INTERFACE SHIPPENSBURG UNIVERSITY

Following the completion of a construction contract, the SU Media Services section is responsible for outfitting some classrooms to be “Smart”. This involves the installation of an overhead projected and a cart at the front of the room where the teacher’s station is located. The current requirement is for one location to provide one box with 3-data, 1-voice and one cable tv outlets and right next to it a box for Smart Cart inputs. The data/voice and cable tv are standard outlets with a 2.5” X 4.5” coverplate. The Smart Cart inputs are more complex. The picture below shows a typical 4.5” X 4.5” cover plate for Smart Cart inputs.



Smart Cart Inputs

The plugs going into the back of the Smart Cart inputs require sufficient bend radius in the box that is provided. See below:



Back of Smart Cart Inputs

Many boxes simply are not deep enough to accommodate this. If a surface raceway is utilized, it must have provision for a deeper box for the Smart Cart inputs to be terminated



Sample Box for Smart Cart Inputs

In addition, the box must be firmly attached and capable of sustaining significant downward pull on it caused by the Smart Cart peripherals being plugged into it. The

picture below shows an example of a box that is made of plastic and pulling away from the wall.



Undesired Smart Cart Input Box Coming Off the Wall

The conduit between the Smart Cart inputs and the projector location should be 2" to allow for the plugs to pass through. The electrical outlet at the projector location is preferably mounted above the ceiling so that the electrical plug can be run up through the tube holding the project in place, making for a very clean installation.