



**Figure 17.** Our measured section (June-July, 2003) for the Trenton and Black River Groups exposed along Pennsylvania Route 453 near Union Furnace, and the vertical stacking pattern of carbonate facies there. The blue triangles indicate deepening-upward facies successions, and the red ones indicate shallowing-upward facies successions. BR 1, BR 2, etc. indicate third order stratigraphic sequences interpreted from the facies successions. M5/M4 is the position of one particular sequence boundary from the sequence stratigraphic scheme of Holland and Patzkowsky (1996). This boundary along with the positions of the Millbrig and Deicke K-bentonites permit calibrations with other Middle Ordovician stratigraphic sections in the eastern U.S. and mid-continent regions. See Figure 18 for an explanation of the symbols.