Disclaimer

This note has not been internally reviewed by the DØ Collaboration. Results or plots contained in this note were only intended for internal documentation by the authors of the note and they are not approved as scientific results by either the authors or the DØ Collaboration. All approved scientific results of the DØ Collaboration have been published as internally reviewed Conference Notes or in peer reviewed journals.
Level 0 Detector Layout

F. Nang and R. Partridge
Brown University

This note describes the numbering of the level 0 counters and PMTs. The level 0 detector consists of two hodoscopes, one attached to the north endcap and the other attached to the south endcap. Each hodoscope will have twenty short counters and eight long counters arranged in two layers. Short counters have only one PMT at the end of a light guide; long counters have two PMTs at each end of the counter. Each layer is divided in two sections that are symmetrical to each other. The counters and PMTs for each layer will be assembled into two aluminum boxes that can be removed for access to the sliding flange where the beam pipe enters the endcap cryostat.

The following figures are for looking at the front face of the endcap cryostat. Figures 1 and 2 show the vertical and horizontal layers of the north hodoscope respectively. Note the division of the layer into two sections and the labeling of the counters and PMTs. Figure 3 shows the superposition of both layers. It is easy to see from this drawing that the counters have been labeled according to increasing $|\eta|$ and $\phi$. Figures 4-6 show the same information for the south hodoscope.

The nomenclature used is: N-north S-south E-east W-west T-top B-bottom.
Figure 3