

To: T10 Membership
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Hot Plugging on U3 Busses (Second Report)

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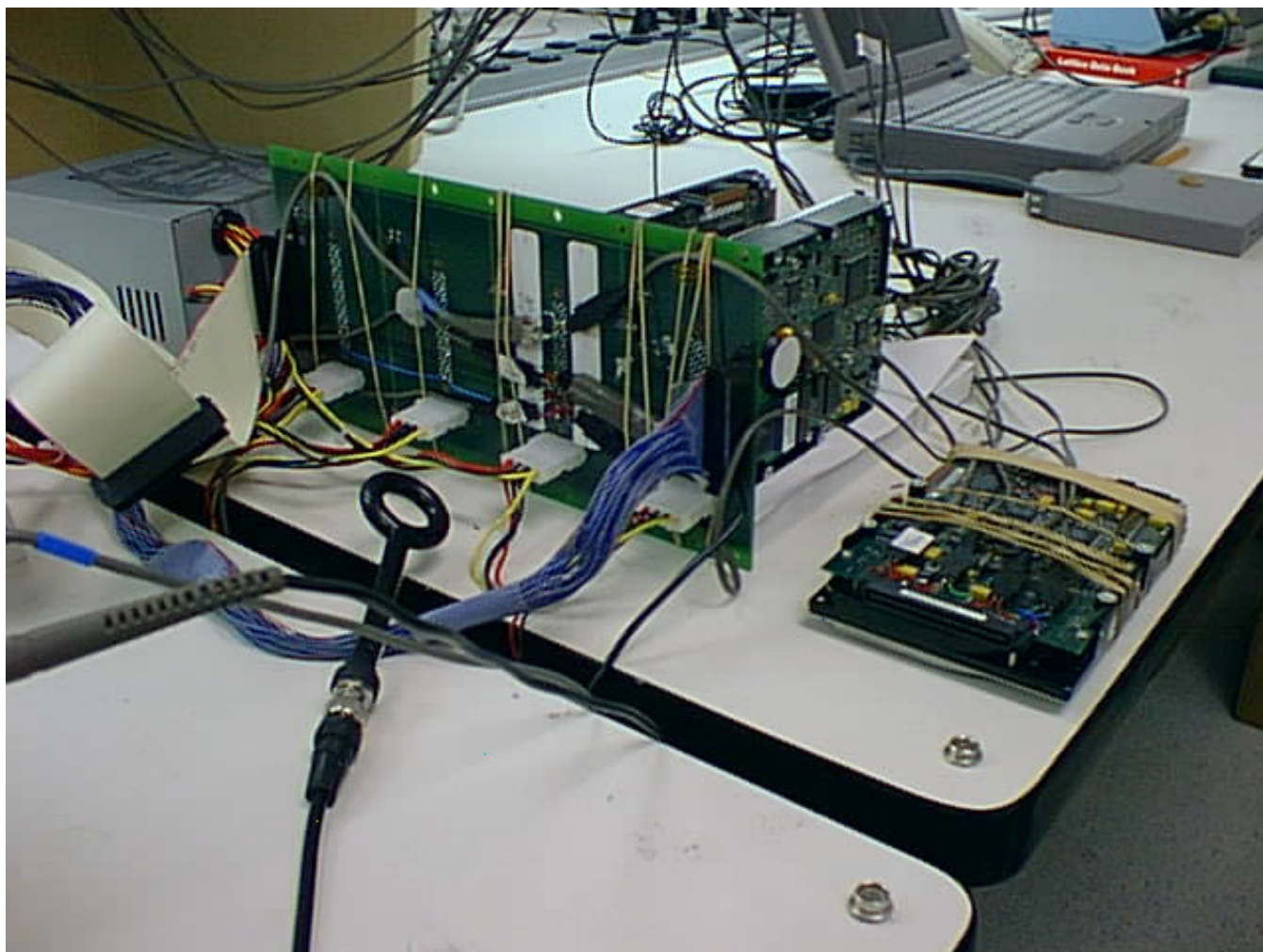


Figure 1 - Backplane cabling and drives

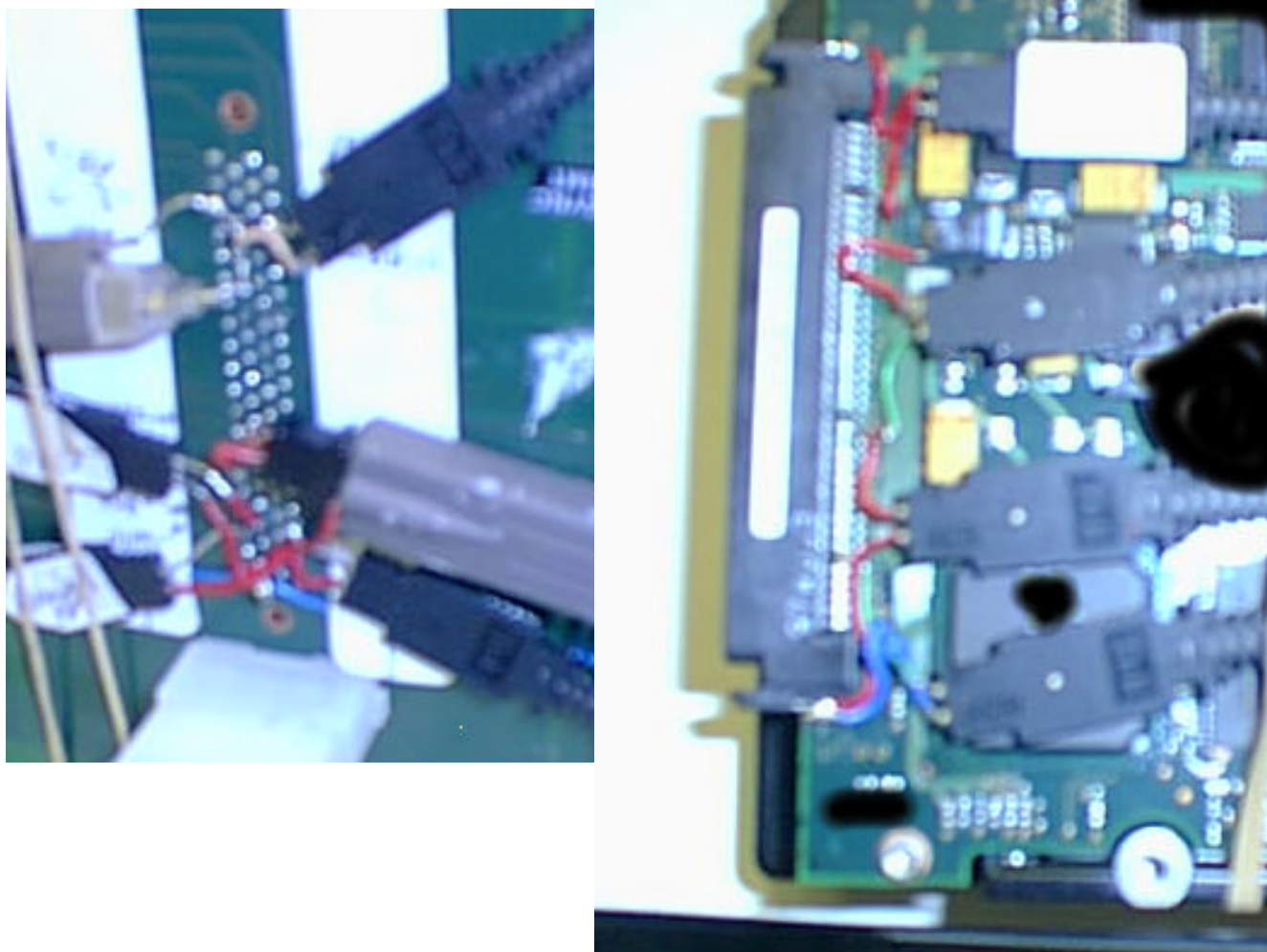


Figure 2- Close up photo showing probes on Hot Plugged drive

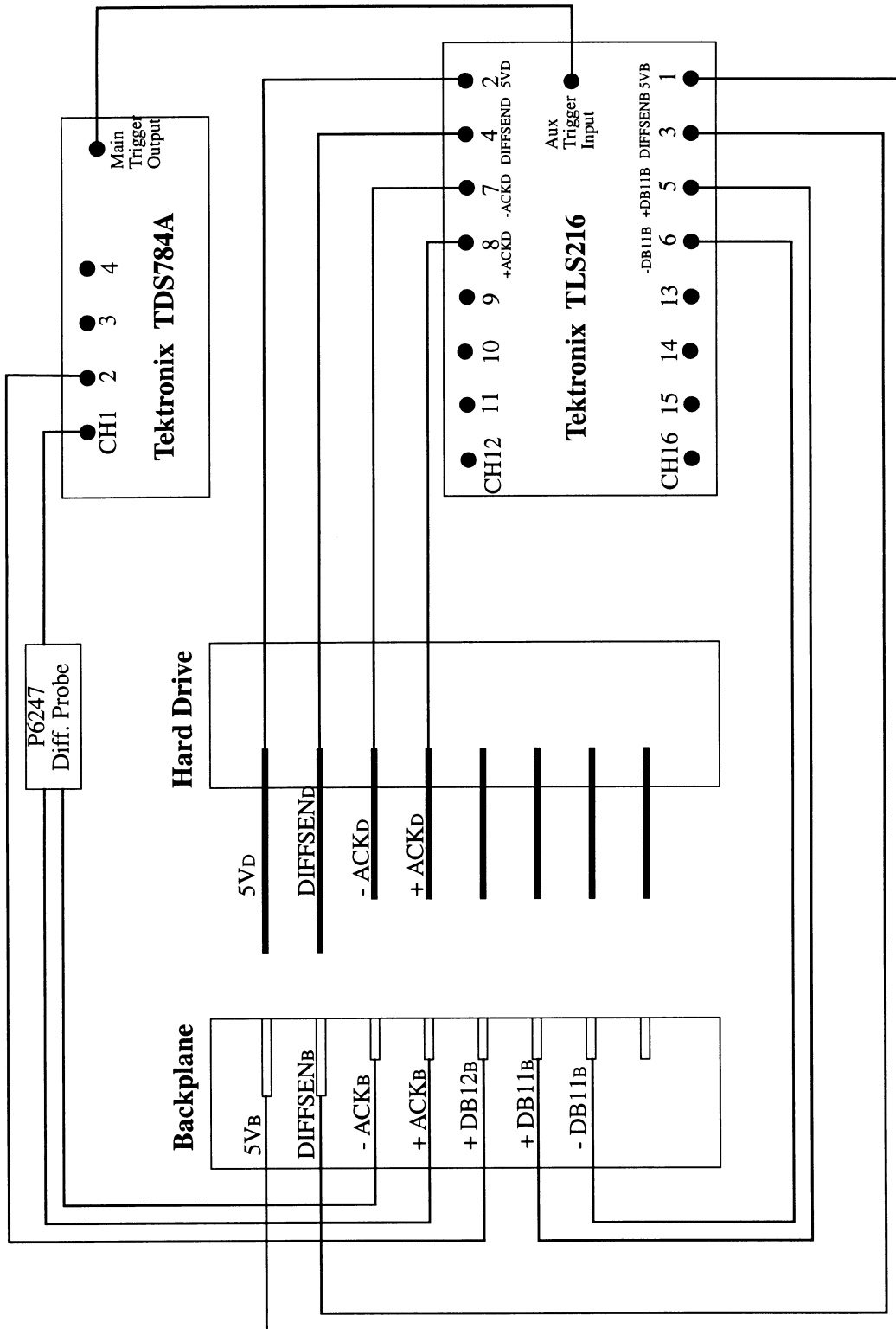


Figure 3 - Schematic of Probes & two scope triggering

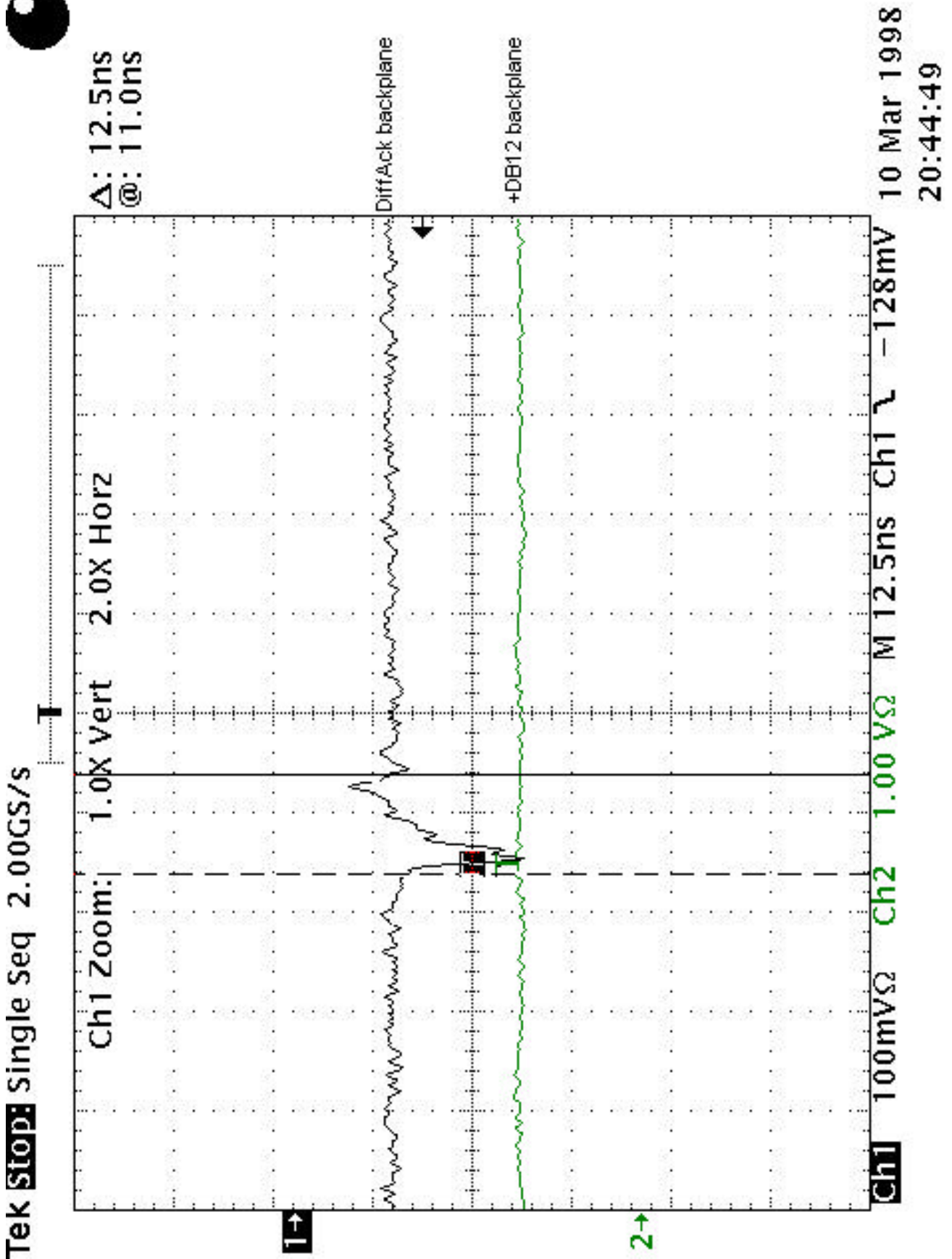


Figure 4a - Single-event hot-plug at fast sweep speed scope trace

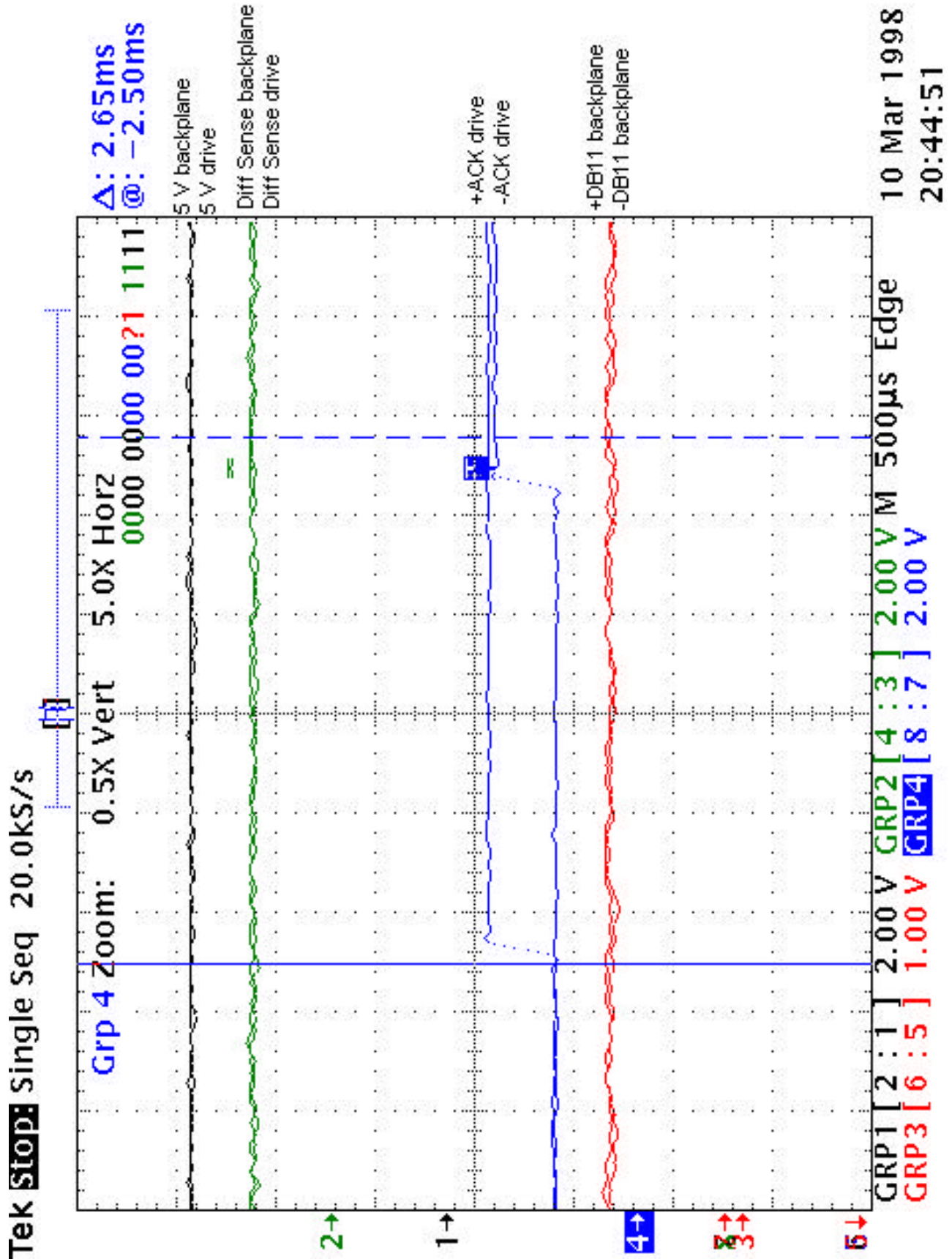


Figure 4b - Same event triggering slow sweep scope trace

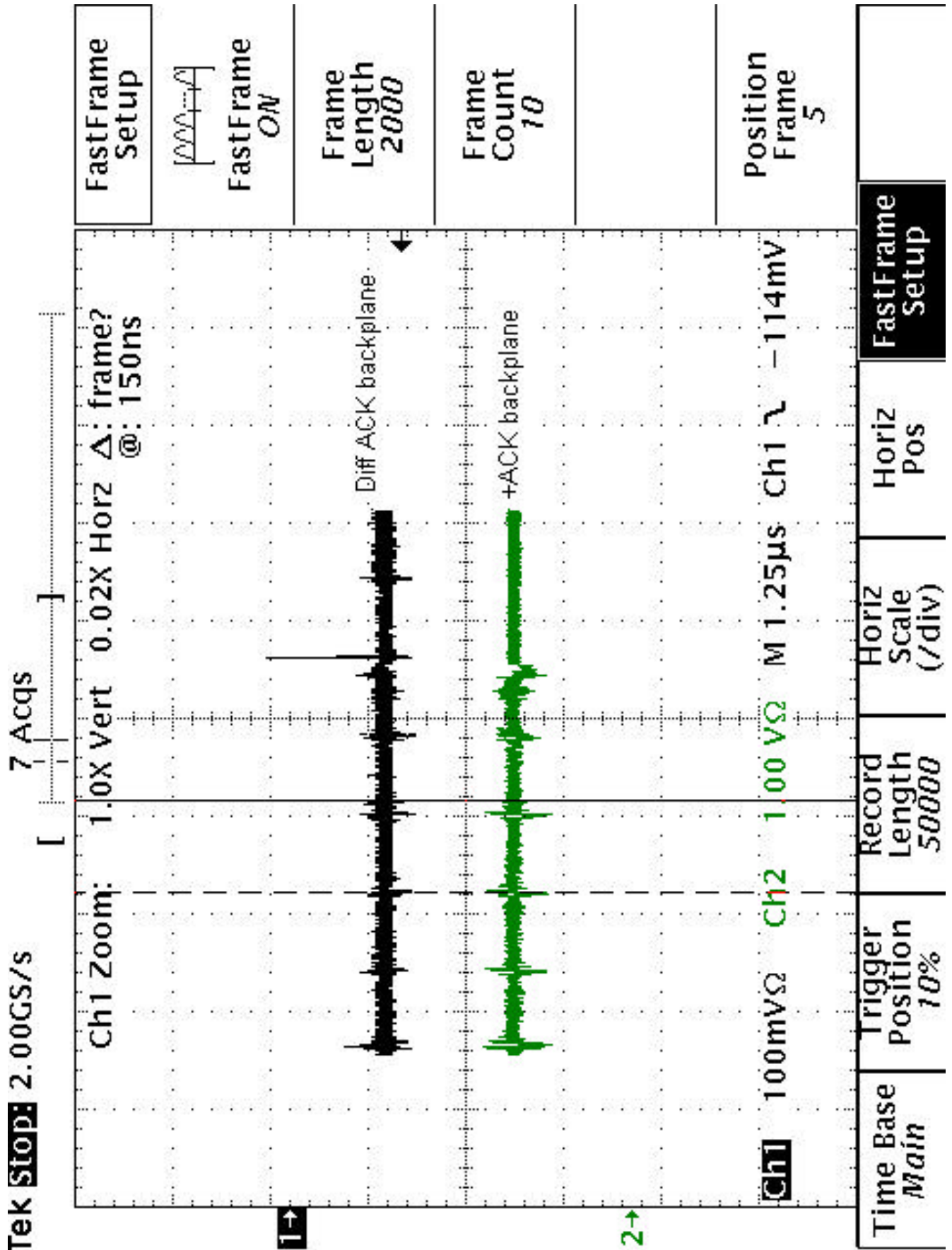


Figure 5a - Multiple-event hot-plug at fast frame viewing

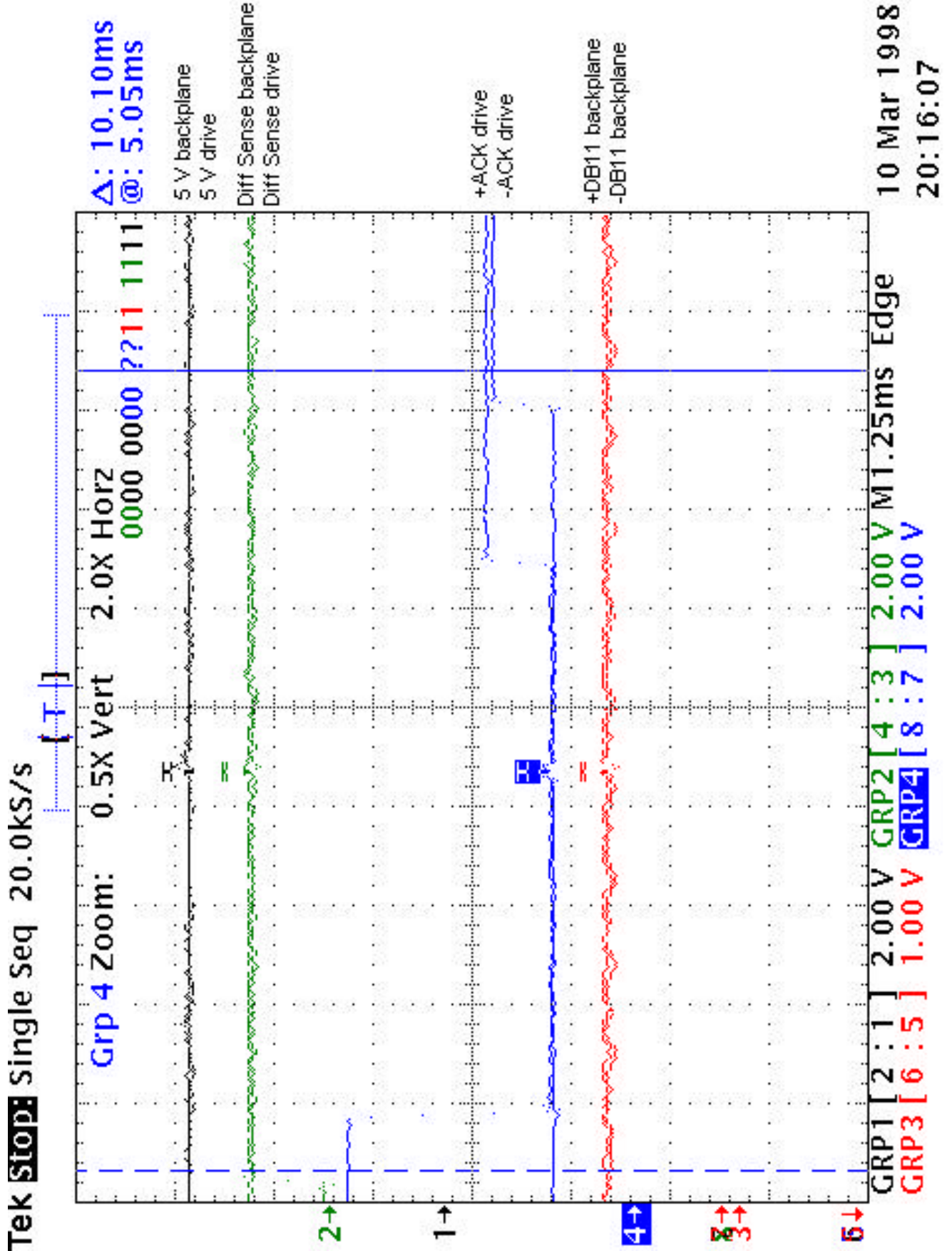


Figure 5b - First of multiple events triggering slow sweep scope traces

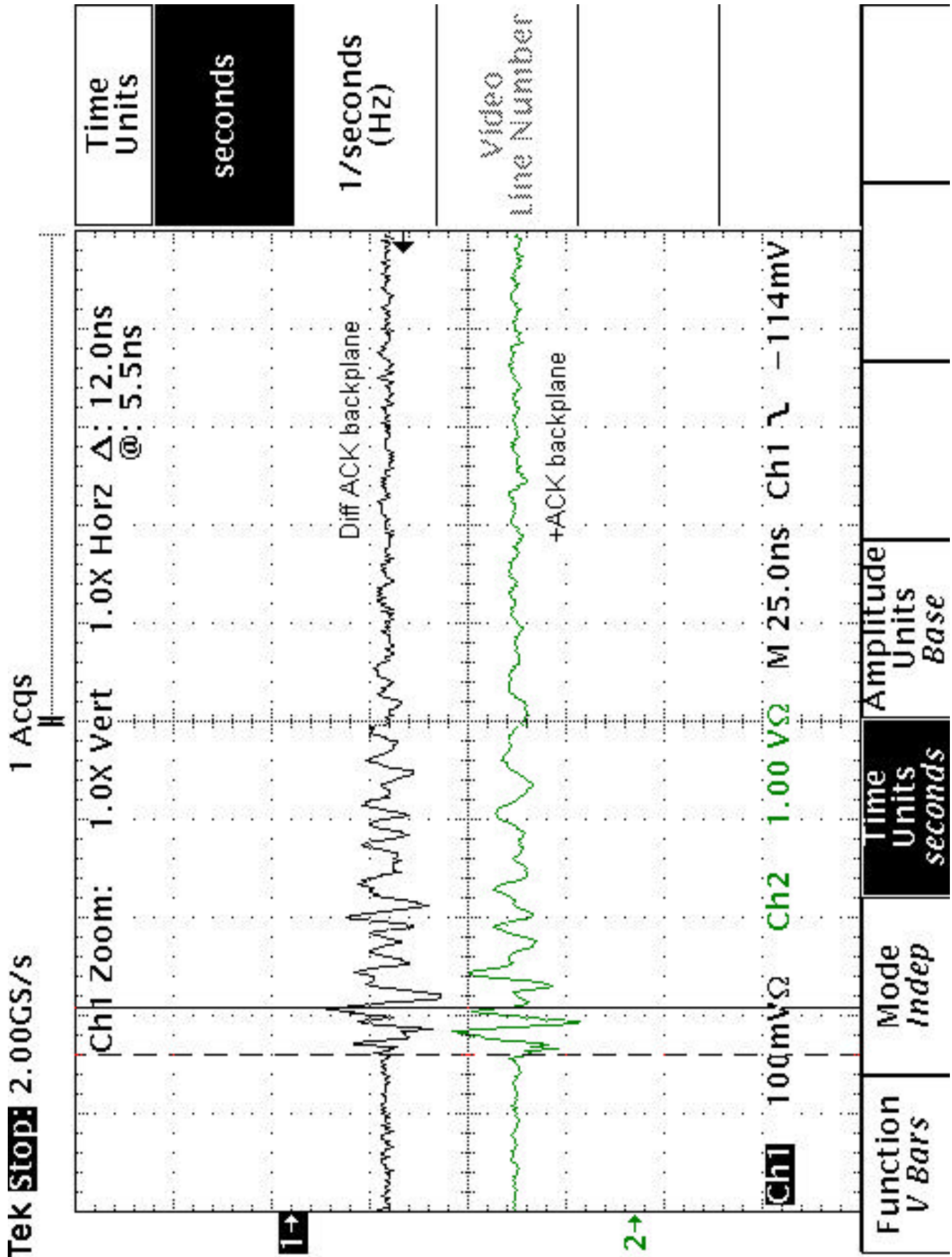


Figure 6a - Hot un-plug events at fast sweep speed

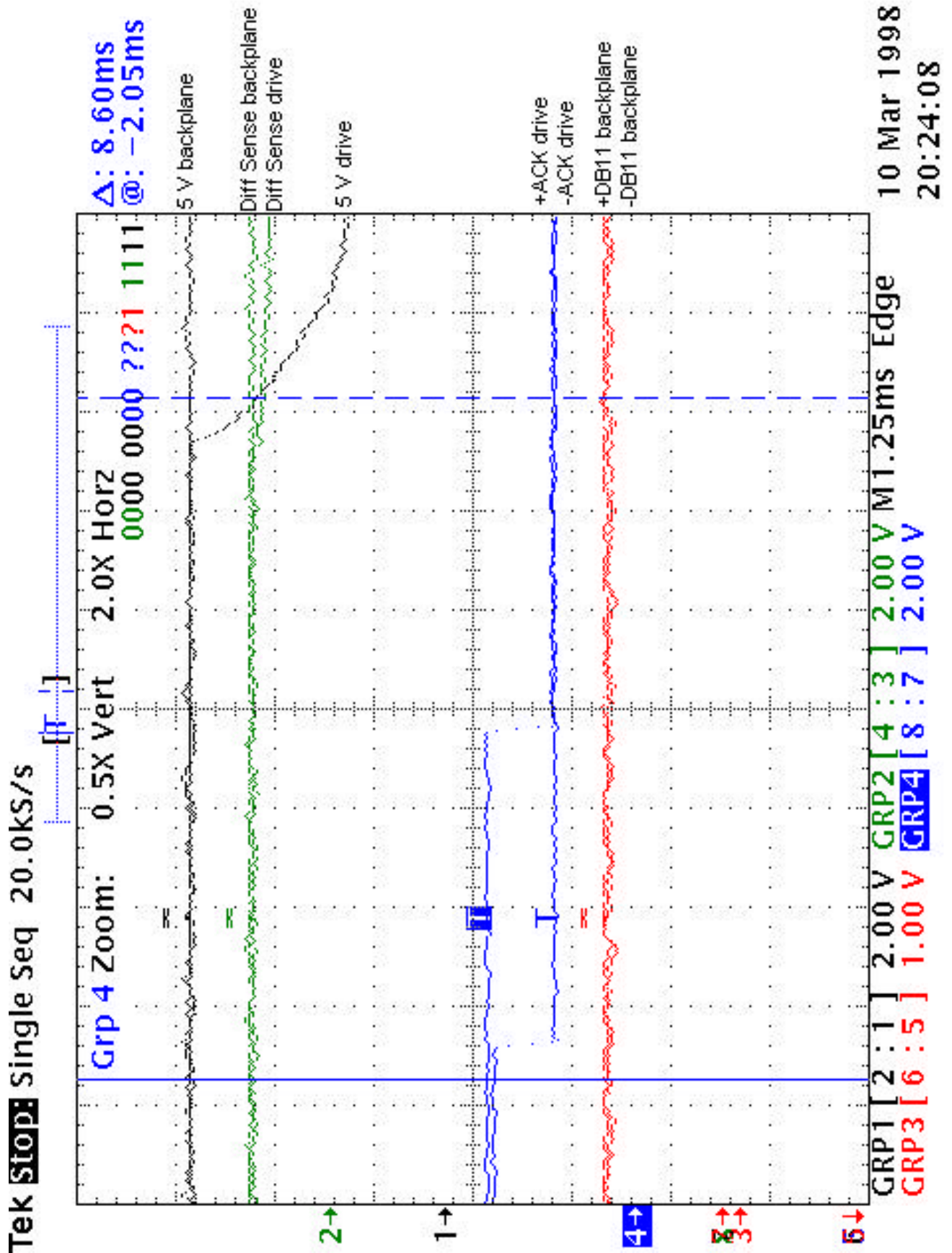


Figure 6b - Same first event triggering slow speed triggering slow sweep

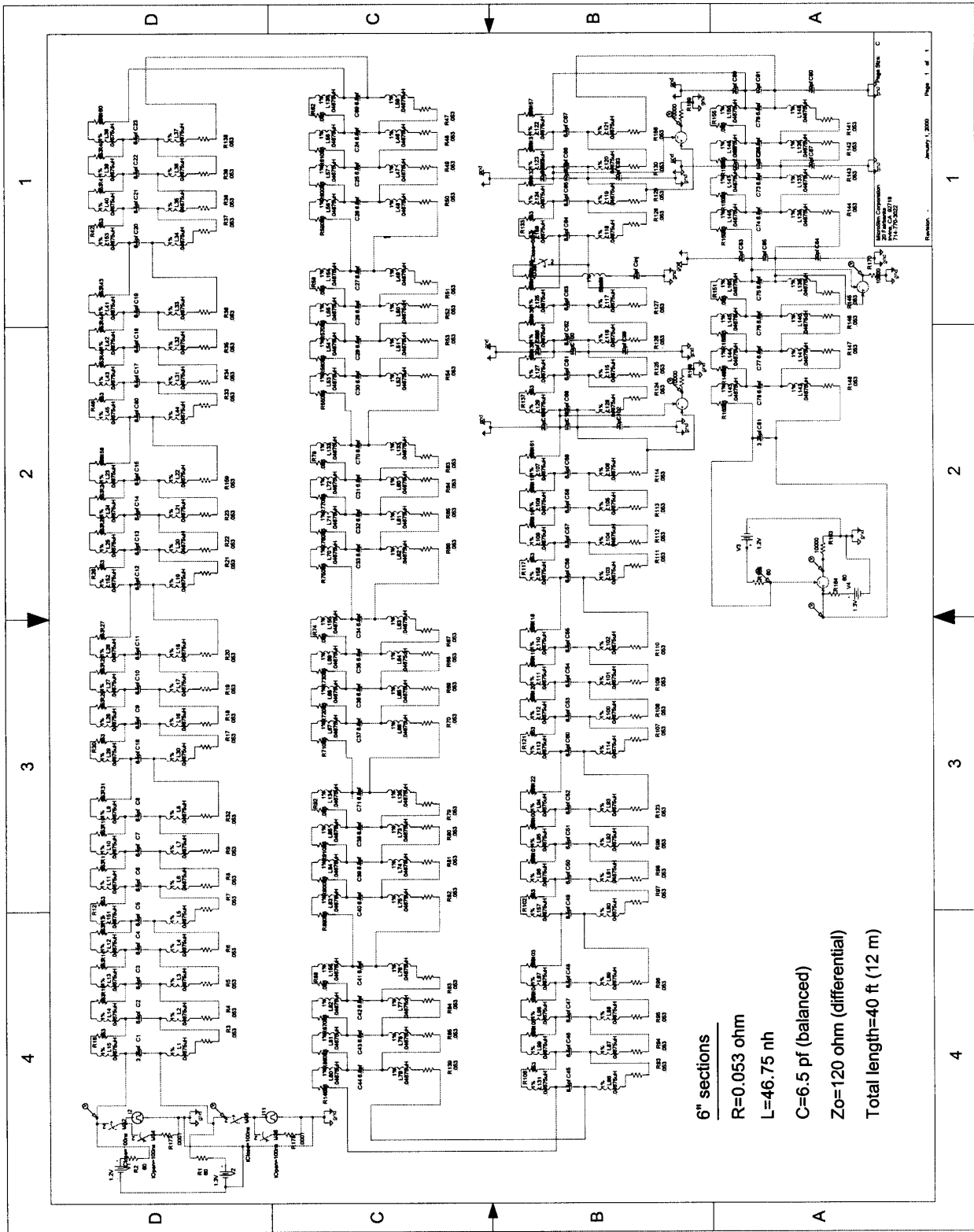
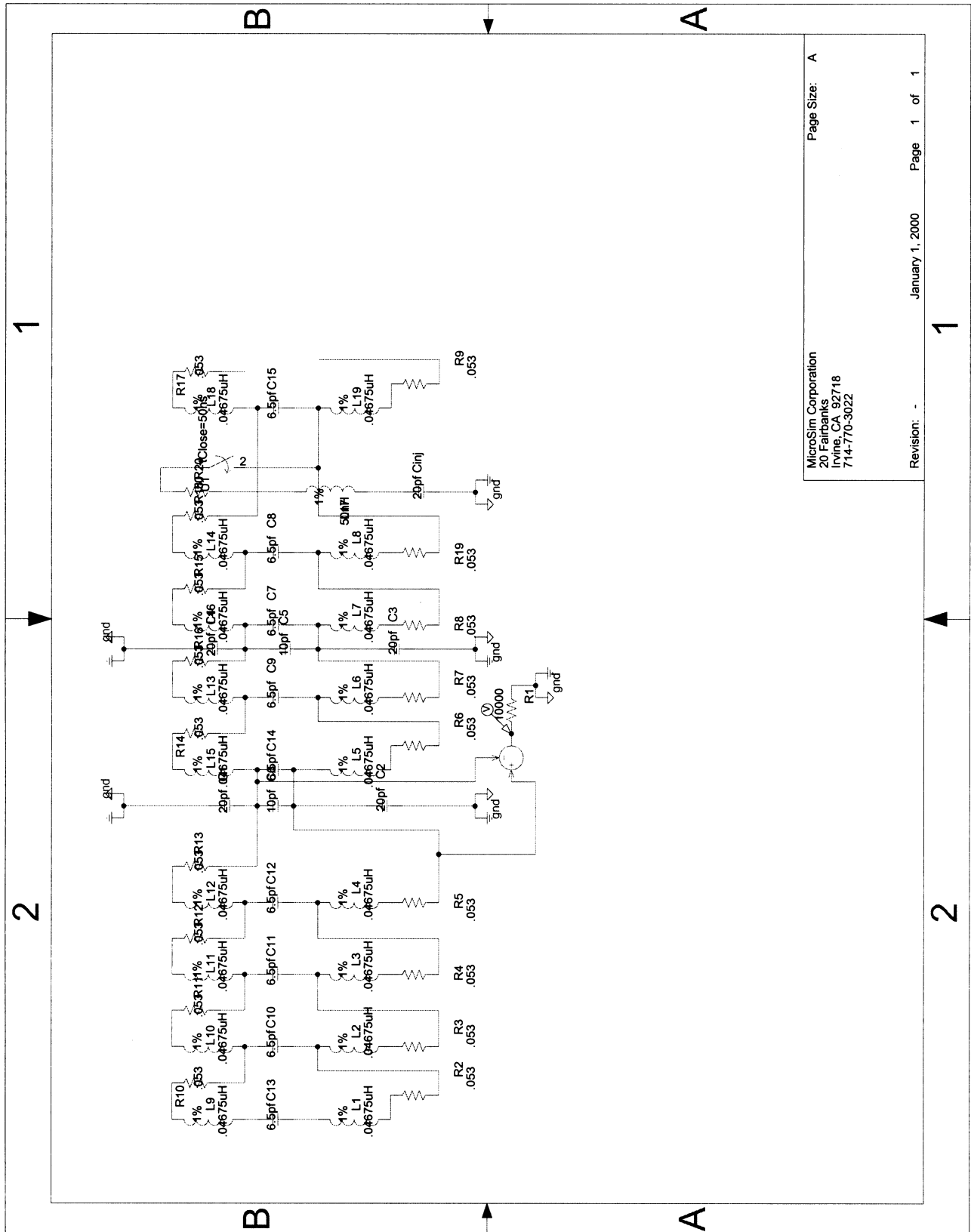


Figure 7a - Spice Simulation Schematic for Lossy 40ft differential cable



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Figure 7b - Spice Schematic detail at "Victim" and "Hot Plug" locations

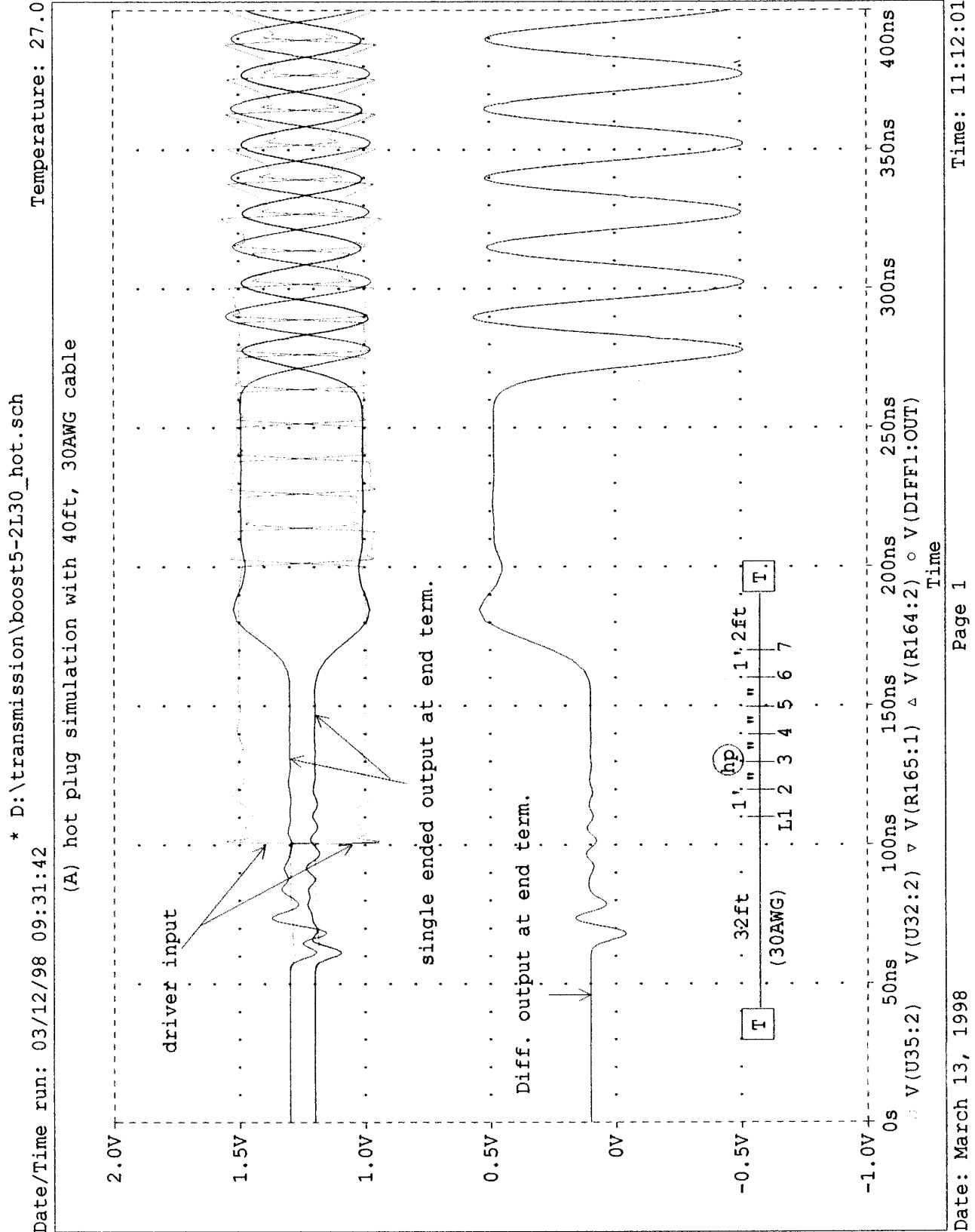


Figure 8 - Spice U3 Waveforms with Hot Plug noise injected