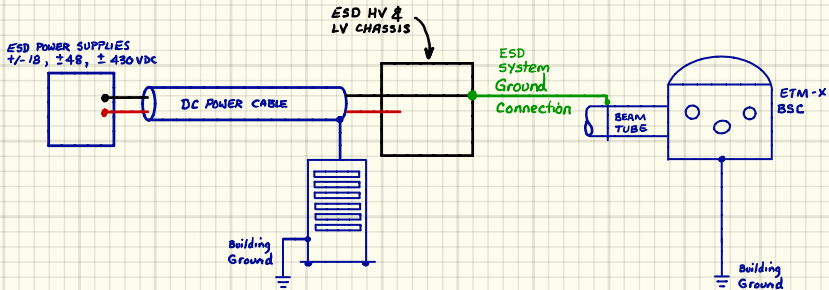


END-X ESD GROUNDING

5 MARCH 2019
LHO X-END
R. Abbott



summary of Actions :

1. H1 SUS ETMX-90 cut pin 8 (and unused pin 15 by accident) to remove a ground in the D1100B09 (CH 1 → 6) input connection. The actual cut was made in the gender changer on the front panel DIS monitor output of the HV AMP. This cable is the monitor readback for the HV Amp. Box.
2. Removed all rack ground connections in remote DC power supplies
3. Connected the HV AMP & LV AMP to beam tube ground next to ESD rack
4. Installed dielectric breaks between rack and HV/LV ESD AMPS
5. Verified entire ESD system is Floating until deliberately grounded to beam tube
6. Lifted cable shield connection on sus ESD-5 at LV Driver PI input (D-15)
7. Lifted cable shield connection on sus ESD-6 at AA input (LV Driver monitors D-9)
8. Restored ground Voltage mon (PEM) between beam tube & top of LV ESD AMP
9. Transitioned back to permanent ESD DC supplies in remote DC racks
10. Swapped HV preamp back to the one that was originally installed in EX so the 3rd IFO unit can be restored to the H2 building