LCLS Master Interconnect

Beamline 1

[Diagram of LCLS Master Interconnect with labels for various components and connections such as FEE-01, FEE-02, NEH-01, NEH-02, XRT-01, FEH-01, and FEH-03, along with specific node locations and connections indicated.]
**XTOD Legend**

**for General Diagrams**

**CONTROLLERS**
- MOTOR OTHER VACUUM
- PLC
- PLC-I/O
- DIAGNOSTIC

**OTHER**
- IOC
- SWITCH
- POWER
- TERMINAL SERVER

**WIRING**
- Ethernet
- VLANs
  - Power/SNMP
  - EPICS (CA)
  - Field bus
  - Ether/IP (PLC)
  - Console
- Serial
- Timing
- ControlNet

**NAMING (EPICS PV)**

**TYPE : LOCN : NUMB**

TYPE = Type of Device/Controller
LOCN = Location = AAAP
AAA = area:
  - Front End Enclosure
  - Near Experimental Hall
  - X-Ray Transport
  - Far Experimental Hall
NUM = beamline:
  - 1 = LCLS
  - 2..6 = future

- VLANs
- Ethernet
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**T** = Type of Device/Controller
**LOCN** = Location
**NUM** = Relative Z distance
**b** = branch line:
  - 1..6 = branches terminates in hutch
**h** = hutch:
  - 1..6 = hutch number
**E** = equipment room/alcove

*Note: 'future' implementation shown as*