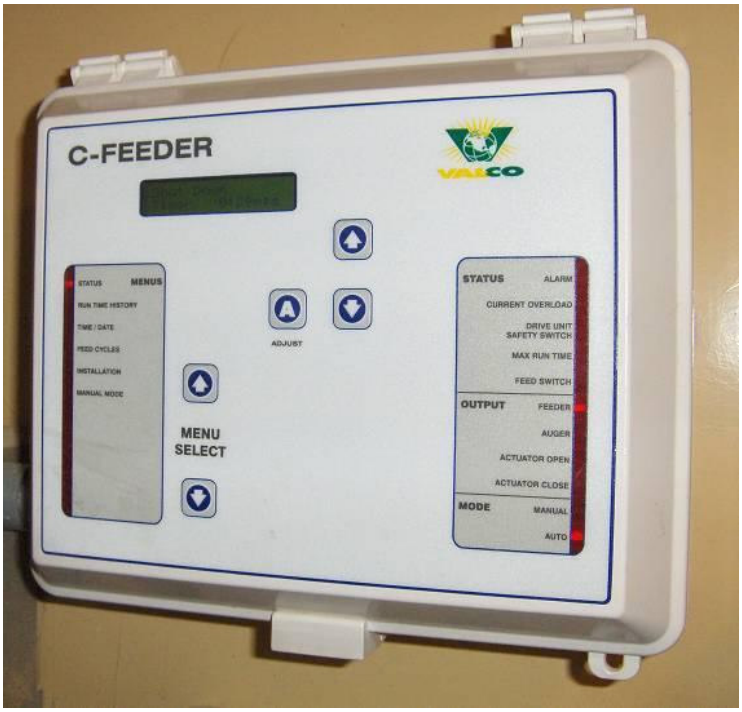
8 WIRING DIAGRAMS

8.1 Wiring Instructions

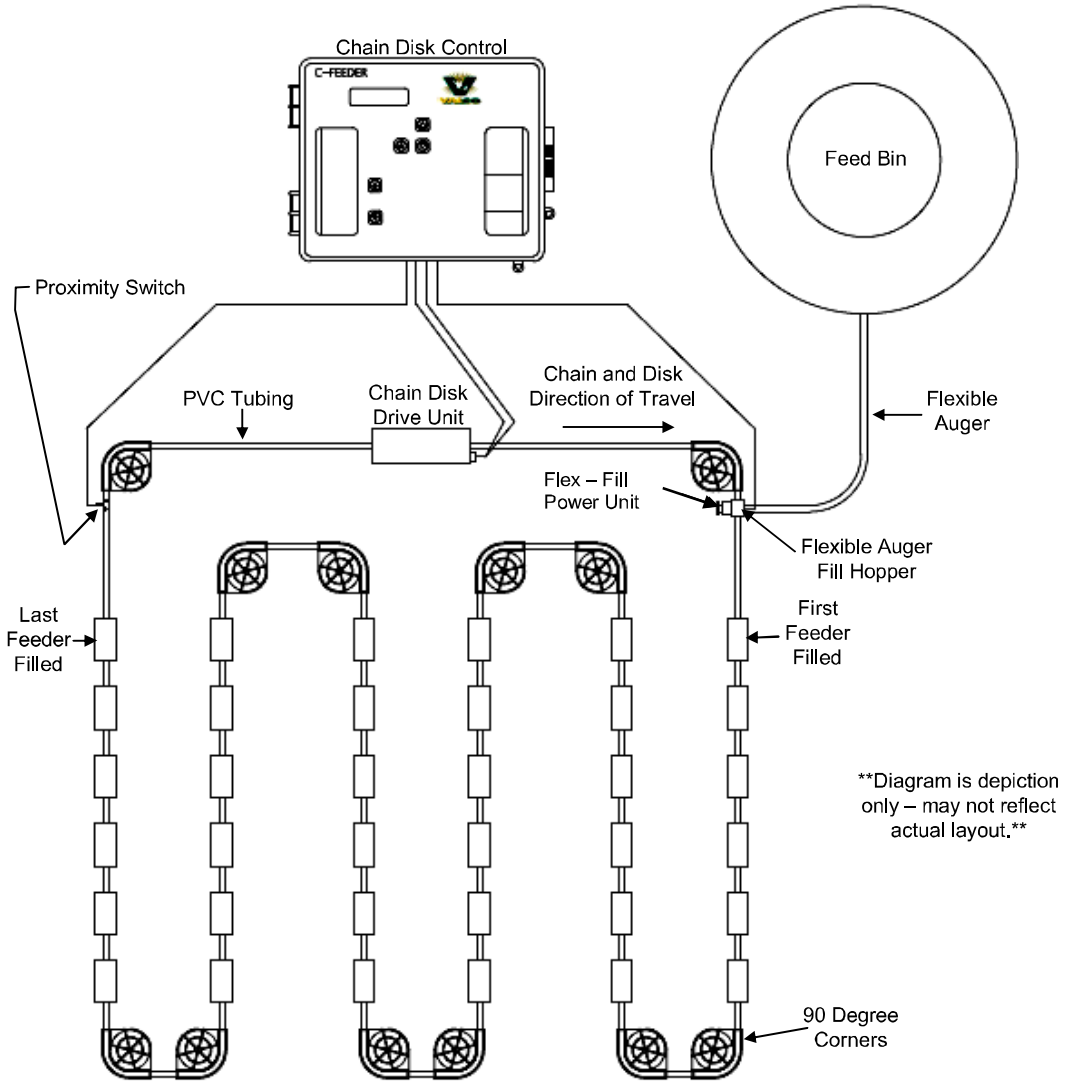
WARNING !

1. **A qualified technician should perform all wiring to ensure local and national codes are followed.**
2. **Disconnect all power before inspecting or servicing equipment.**
3. **Always use the proper wire size for wiring systems.**
4. **Keep hands and tools away from exposed chains and gears.**
5. **Do not operate without covers or guards.**



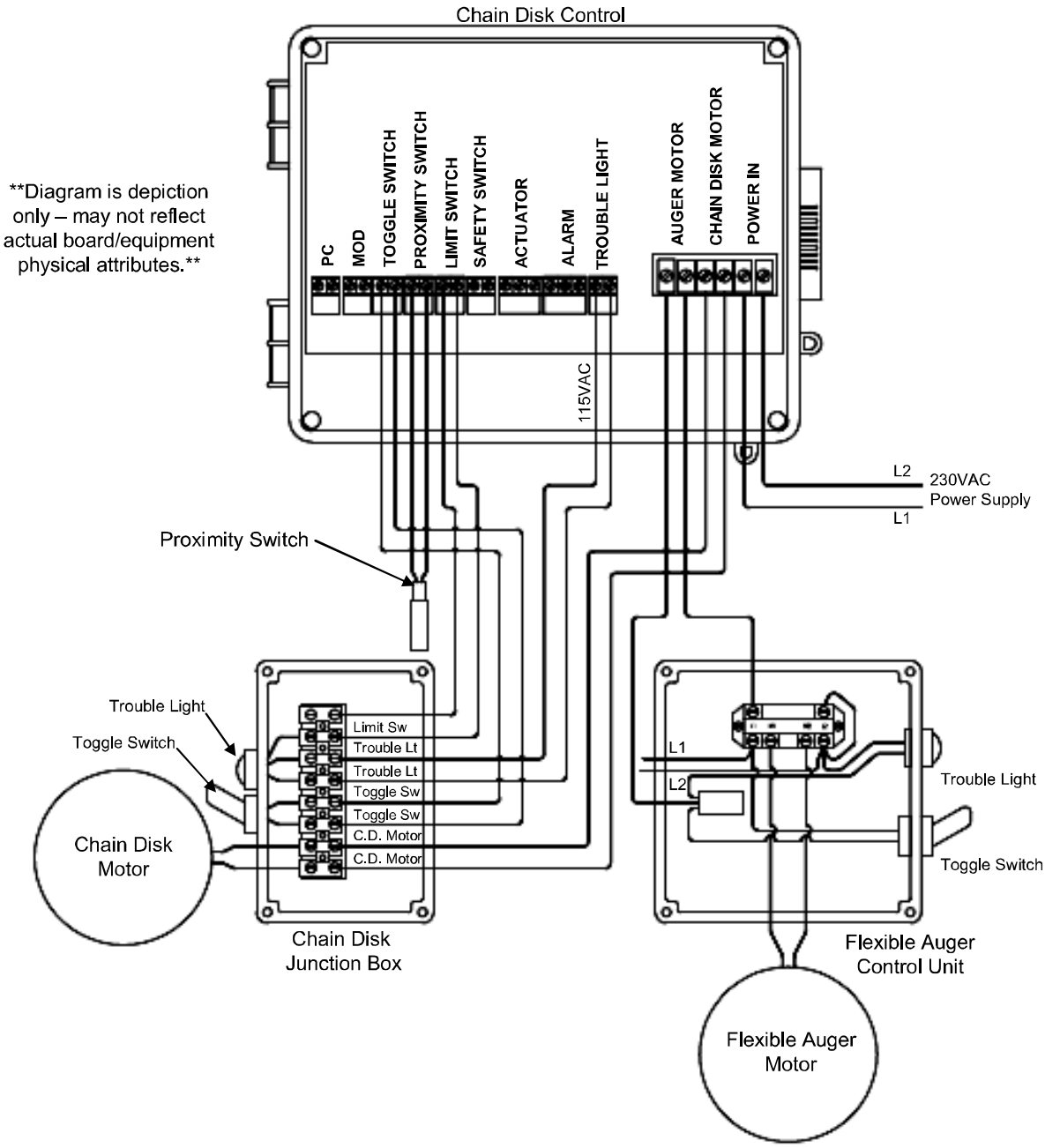
Example:

Wiring Diagrams - One Chain Disk Loop / Filled by One Flex Fill Auger / Timed Feeding



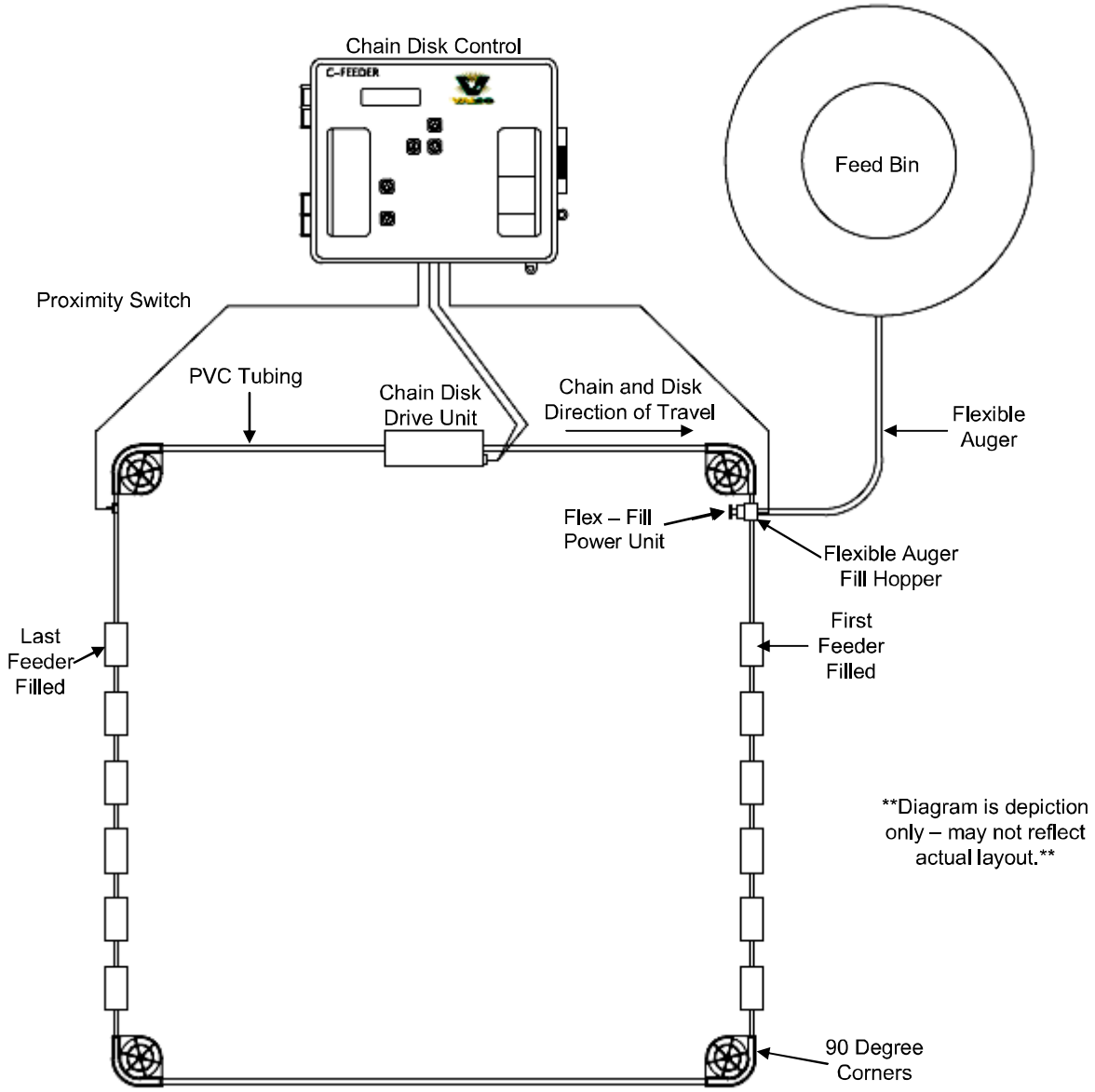
Example:

Control Wiring Diagram



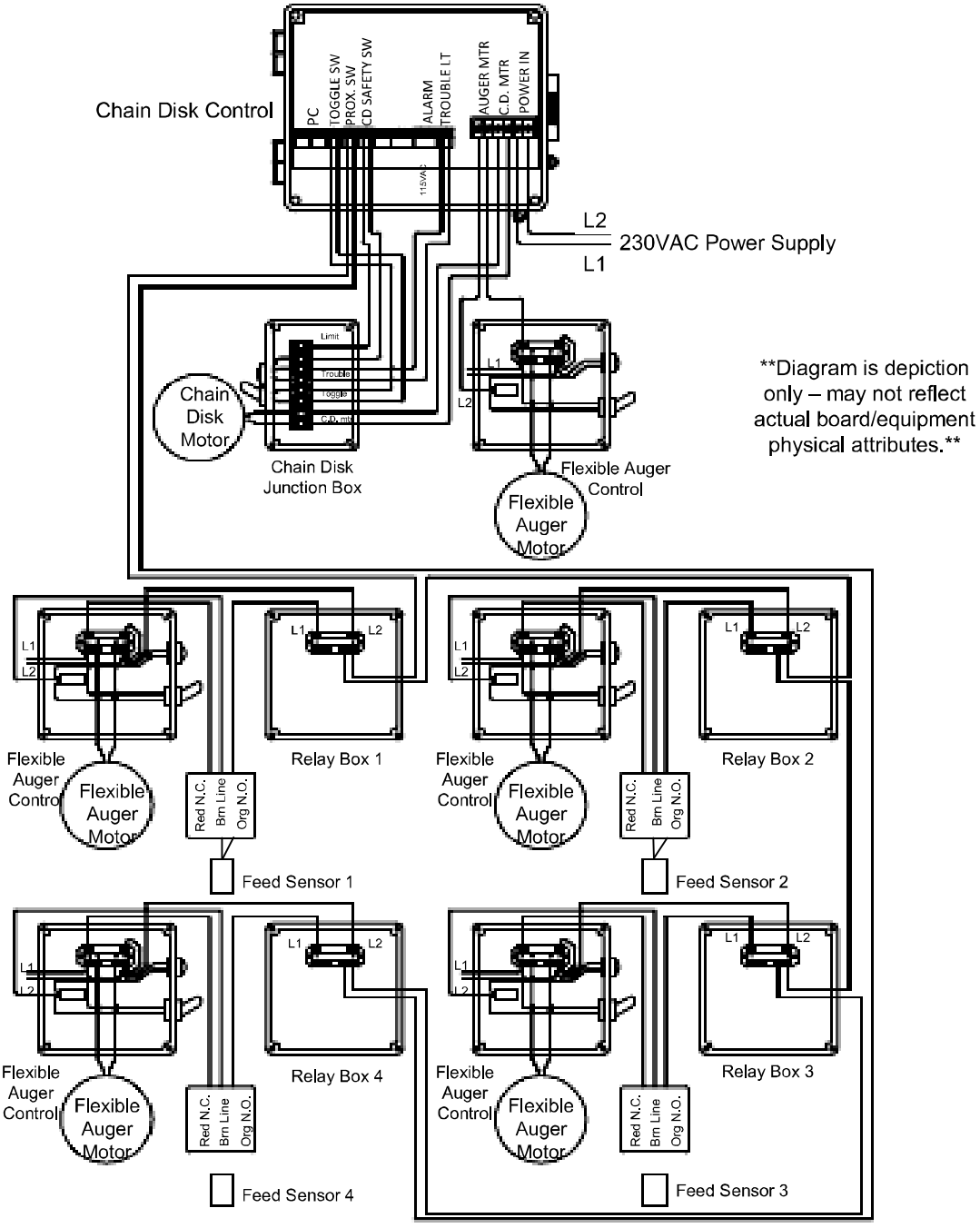
Example:

One Chain Disk Loop / Filled by One Flexible Auger fill system / Continuous Feed after Time Delay



Example:

One Chain Disk Loop / Filled by Four Flexible Auger Lines / Started by any of four (4) Proximity Switches at the end of the Auger Lines



9 CONTROL OPERATION

9.1 General

If the Flexible Auger Fill System capacity is greater than that of the Chain Disk Feed System, the Chain Disk Feed System can over fill. This can also happen if longer systems are allowed to re-circulate. If the Chain Disk Feed Systems' motor is over loaded by over filling, it can cause the thermal reset switch on the motor to trip or premature motor failure, or both.

9.2 Current Sensor

A current sensor is installed on the PC board inside the Chain Disk Control Unit.
The current sensor:

1. Monitors the AMP draw of the Chain Disk motor
2. Controls a relay wired to the Flexible Auger Fill System.

During the Chain Disk Feed System fill cycle, the amperage draw will steadily increase. The current sensor will automatically turn off the Flexible Auger Fill System – temporarily – if the amperage reaches the maximum point set up within the system. As the Chain Disk Feed System continues to empty, the amperage draw will steadily decrease. The current sensor will automatically turn the Flexible Auger Fill System on when the amperage reaches a minimum point set up within the system.

The 'ON/OFF' cycle of the Flexible Auger Fill System should occur every few minutes, until the Chain Disk Feed System is full. When the Chain Disk Feed System is full, both the Chain Disk Feed System and the Flexible Auger Fill System should shut off.



Figure 9A
Chain Disk PC Board

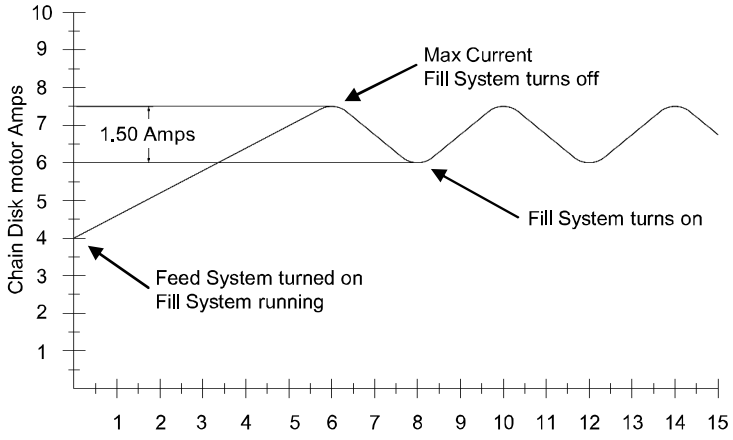


Figure 9B
Current Sensor Operation Illustration
Typical Feed System