

GOTO: 11dscznx
 d = dest (M or J)
 s = sign (ignore or load PC)
 c = carry (ignore or load PC)
 z = zero (ignore or load PC)
 n = non-zero (ignore or load PC)
 x = PC to XY (no action or copy)

Note: SN/CY/EZ/NZ have inbound diode on upper board

P-* signals connect from Pulse Bus via upper card (Sheet 3)
 10-17 signals connect from C/I Bus via upper card (Sheet 3)
 CHAT signal connects from Fetch/Increment group via upper card (Sheet 3)
 AT08/10/12/14 and IGTO signals connect to OP Bus via upper card (Sheet 3)
 Other signals connect to CtrIX/Y/Z (Sheet 3)

| | | |
|---|-------------------|---------------------|
| TITLE: Relay Computer : Controller Lower Card | | REV: 1.1 |
|  | Company: Paul Law | Sheet: 1/4 |
| | Date: 2019-11-02 | Drawn By: paul_6392 |

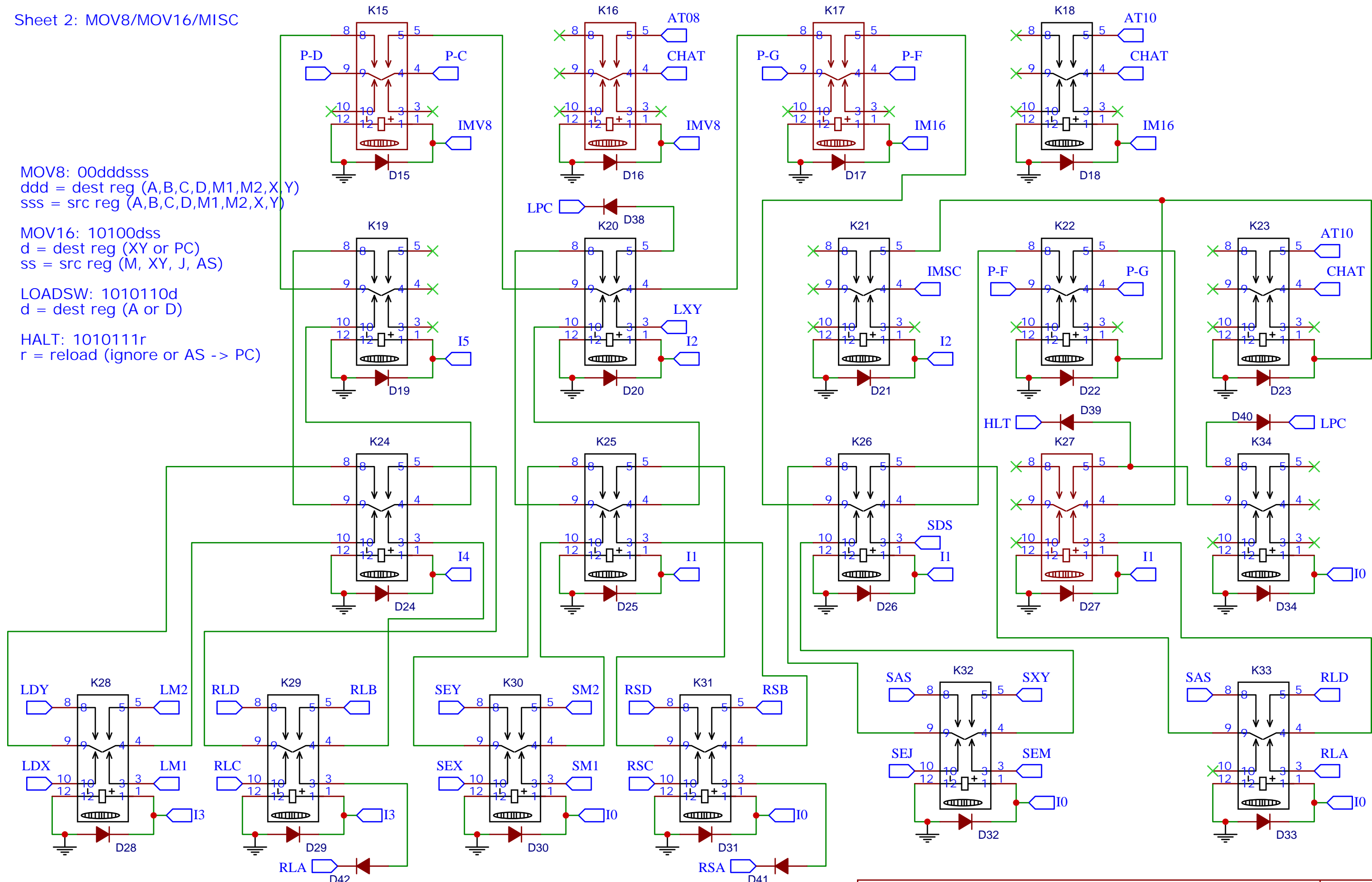
Sheet 2: MOV8/MOV16/MISC

MOV8: 00dddsss
 ddd = dest reg (A,B,C,D,M1,M2,X,Y)
 sss = src reg (A,B,C,D,M1,M2,X,Y)

MOV16: 10100dss
 d = dest reg (XY or PC)
 ss = src reg (M, XY, J, AS)

LOADSW: 1010110d
 d = dest reg (A or D)

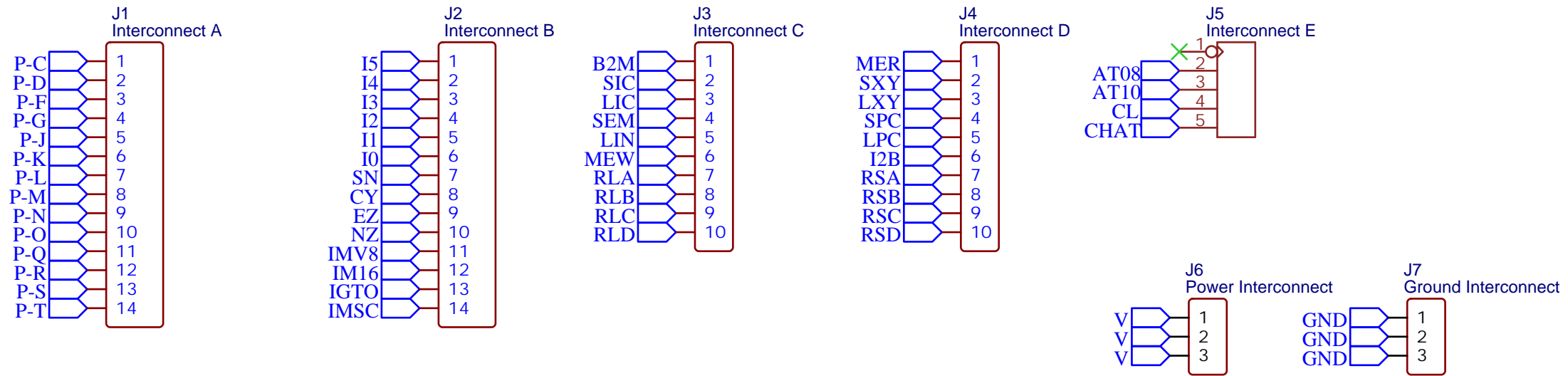
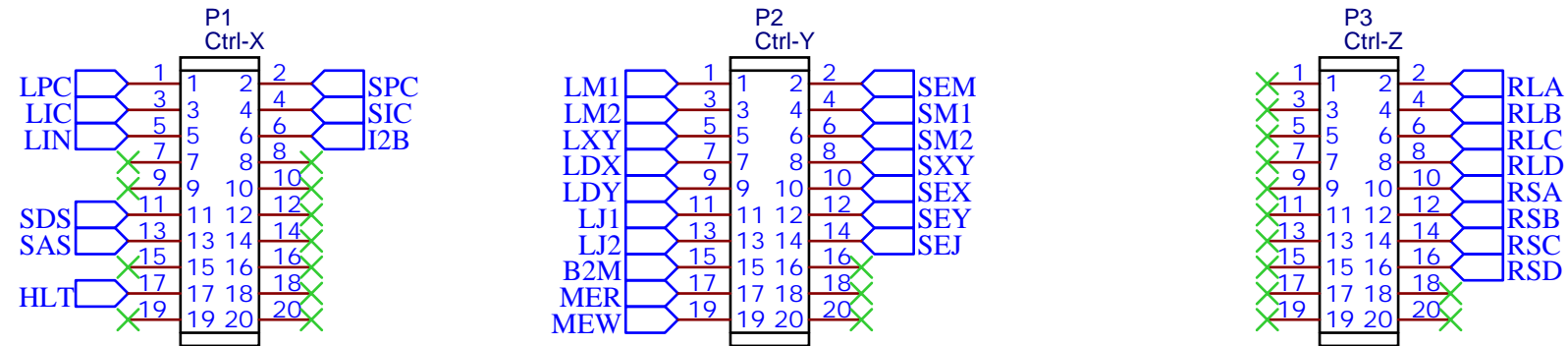
HALT: 1010111r
 r = reload (ignore or AS -> PC)



P-* signals connect from Pulse Bus via upper card (Sheet 3)
 I0-17 signals connect from C/I Bus via upper card (Sheet 3)
 CHAT signal connects from Fetch/Increment group via upper card (Sheet 3)
 AT08/10/12/14 and IMV8/IM16/IMSC signals connect to OP Bus via upper card (Sheet 3)
 Other signals connect to CtrlX/Y/Z (Sheet 3)

| | | |
|---|-------------------|---------------------|
| TITLE: Relay Computer : Controller Lower Card | | REV: 1.1 |
|  | Company: Paul Law | Sheet: 2/4 |
| | Date: 2019-09-23 | Drawn By: paul_6392 |

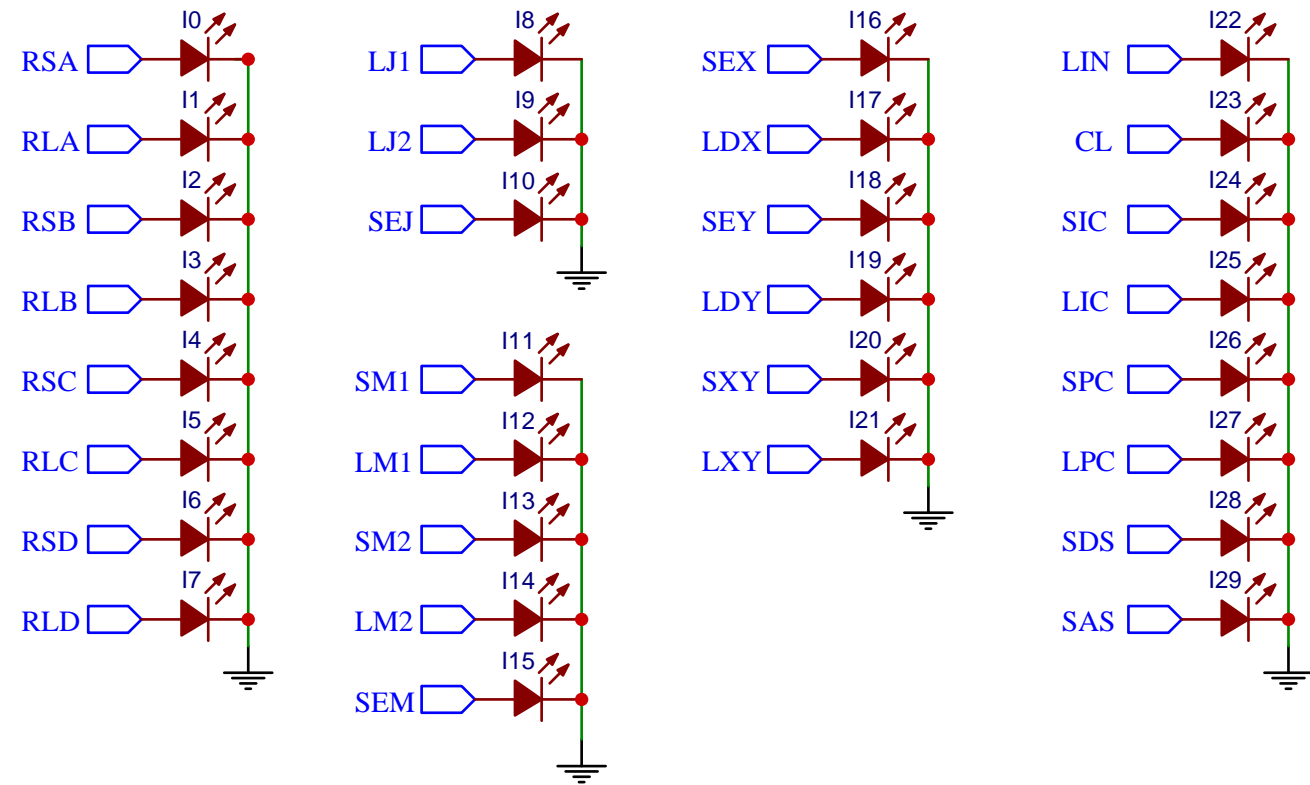
Sheet 3: Backplane & Inter-card connections



Interconnects pass signals to/from upper card
P1-P3 connect to W2 backplane connectors

| | | |
|---|-------------------|---------------------|
| TITLE: Relay Computer : Controller Lower Card | | REV: 1.1 |
|  | Company: Paul Law | Sheet: 3/4 |
| | Date: 2019-11-02 | Drawn By: paul_6392 |

Sheet 4: Card Status LEDs



Important Note: All LEDs shown are 12V type (with integral resistor)

| | | |
|---|-------------------|---------------------|
| TITLE: Relay Computer : Controller Lower Card | | REV: 1.1 |
|  | Company: Paul Law | Sheet: 4/4 |
| | Date: 2019-11-02 | Drawn By: paul_6392 |