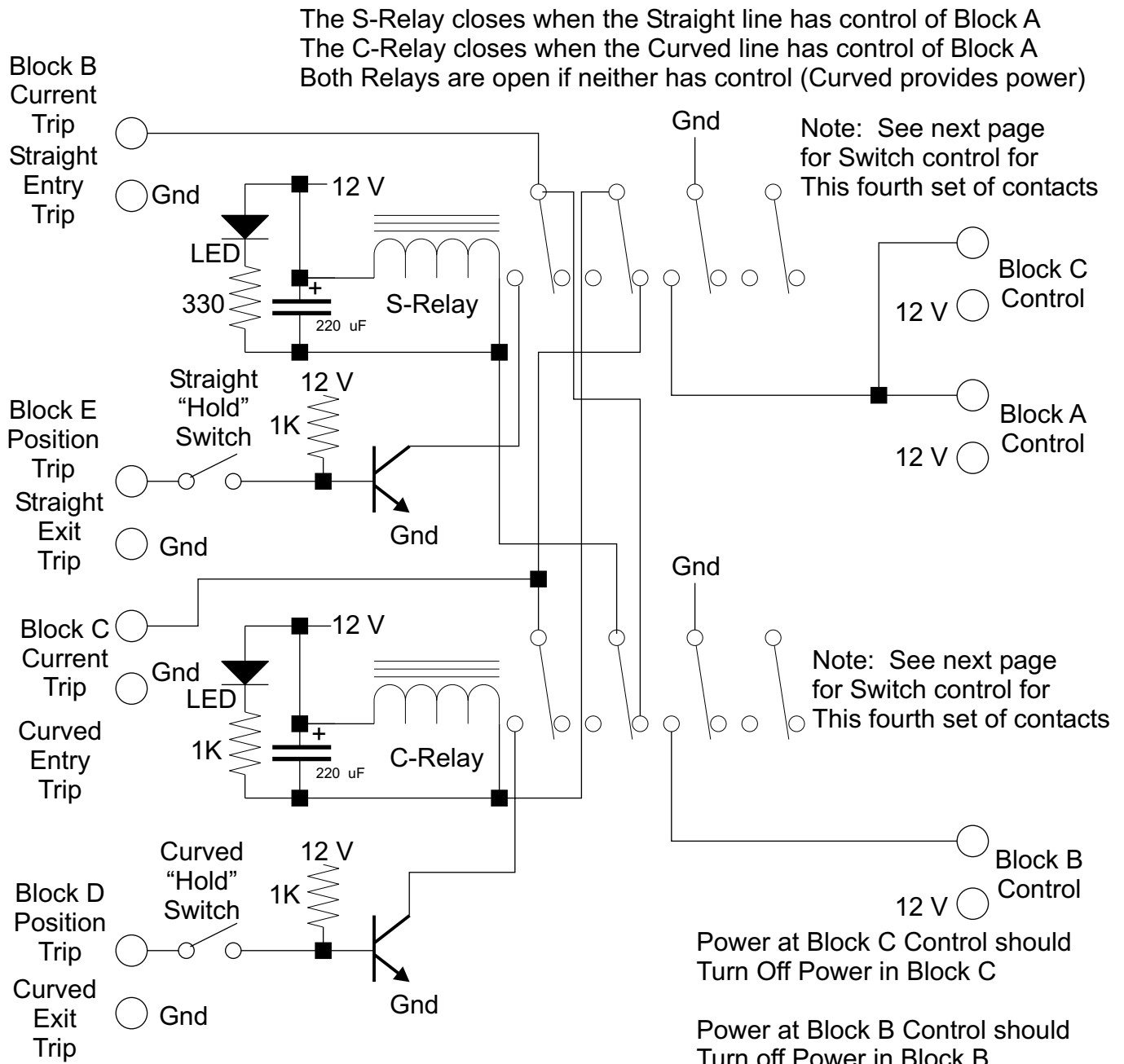


Block & Switch Controller
Sheet 1

Norbert Doerry
Rev 1: February 3, 2001
Rev 2: Feb 25, 2001
Rev 3; Mar 2, 2001

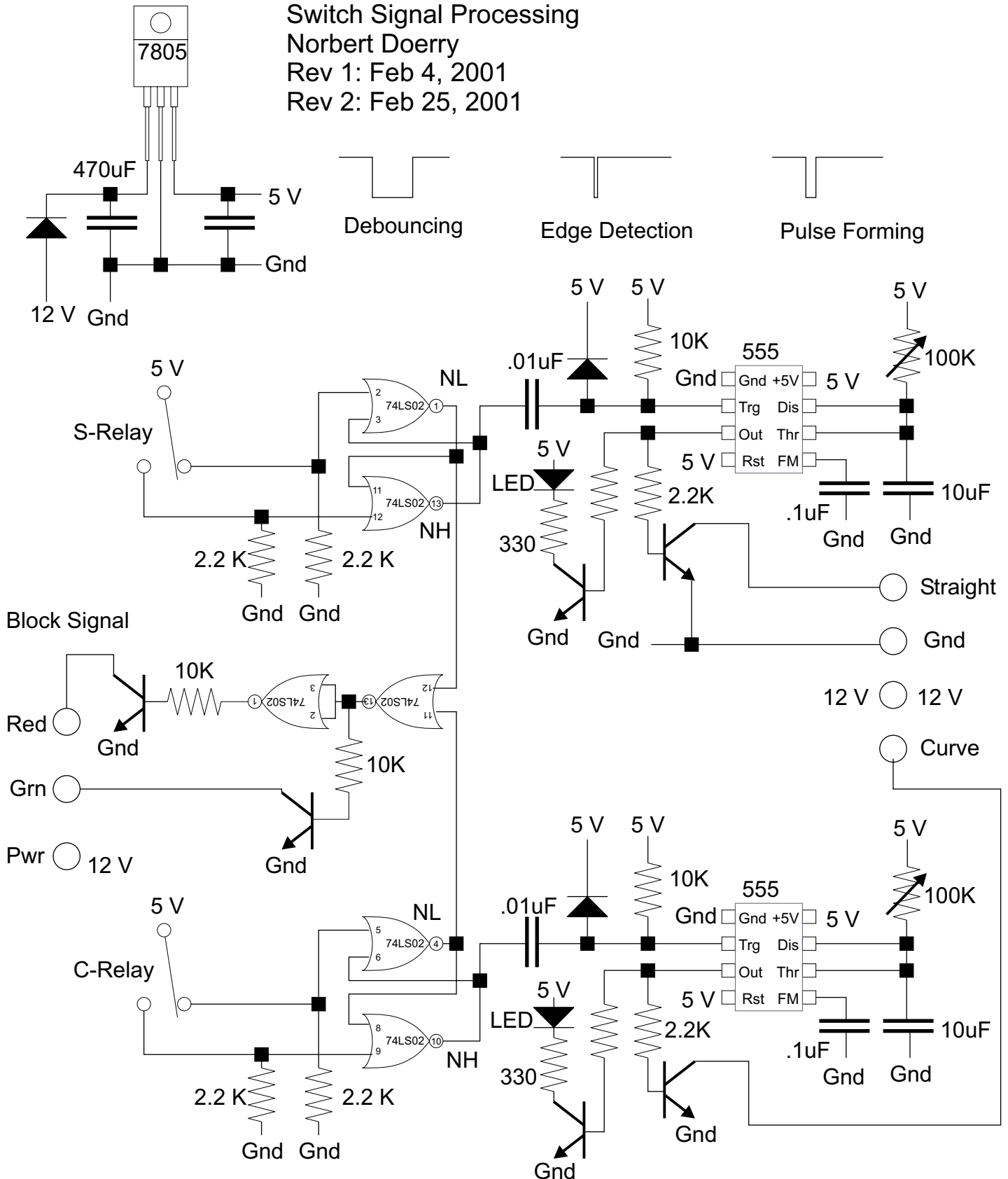
This circuit gives control of a shared piece of track to the first train that approaches the entrance switch. A second approaching train is stopped until the first has cleared the shared track.



NOTE: Also add NO Pushbutton switches across each trip (But on transistor side of hold switch) for manual setting / resetting of relays.

Power at Block A Control should Power Block A from Block B source
No Power at Block A Control should Power Block A from Block C source

Block and Switch Controller
Sheet 2
Switch Signal Processing
Norbert Doerry
Rev 1: Feb 4, 2001
Rev 2: Feb 25, 2001



Straight
Entry
Trip

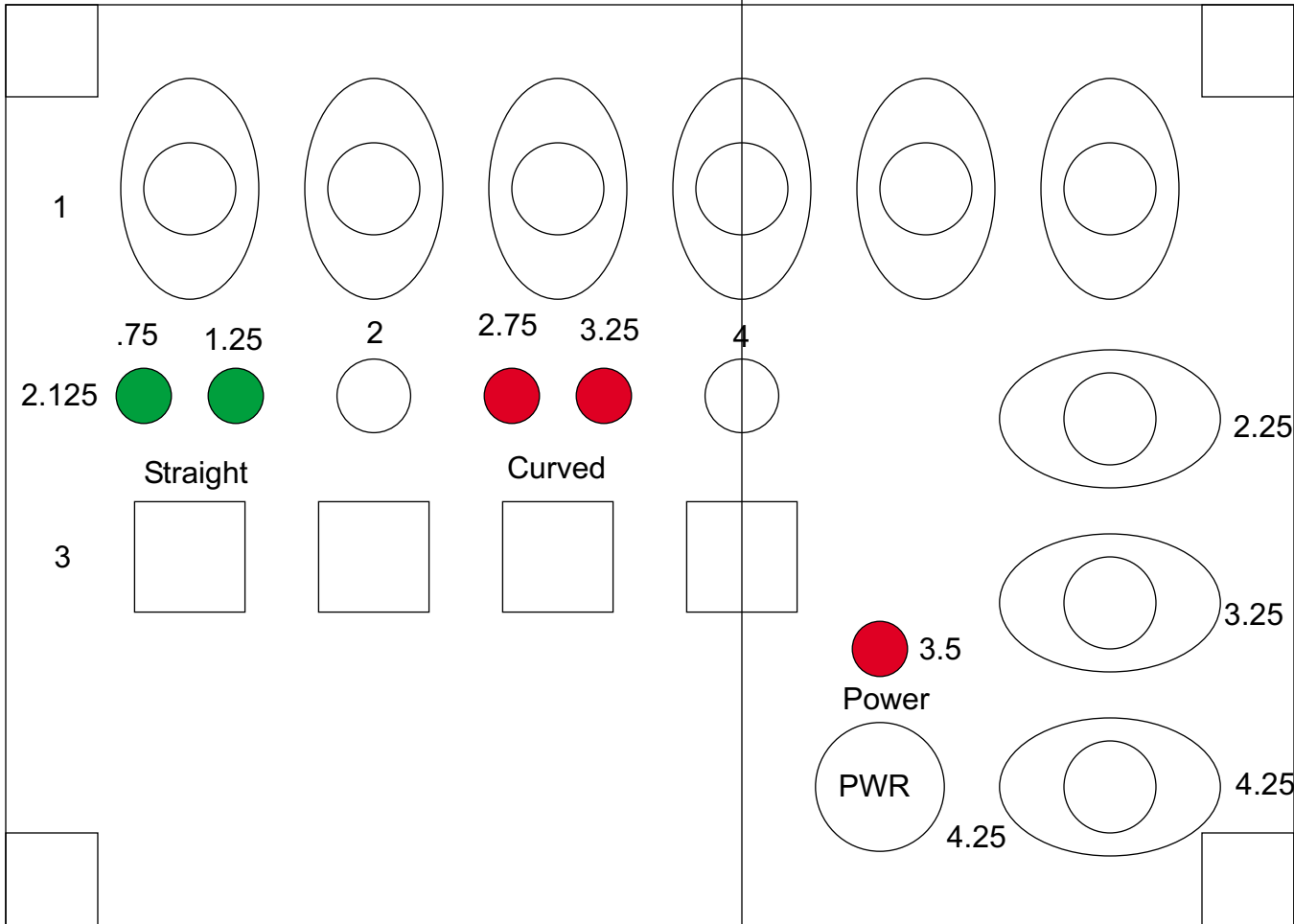
Straight
Exit
Trip

Curved
Entry
Trip

Curved
Exit
Trip

Switch
Control

Block
Signal



1" from
edge

Straight
Block
Control

Curved
Block
Control

Shared
Block
Control

.75 from
Edge
others
spaced
1"

1" from edge and spaced 1" apart

2.25 from edge
.75" up
1.5 up

1

.75 1.25

2.125

Straight

3

2

2.75 3.25

Curved

4

3.5

Power

PWR

4.25

2.25

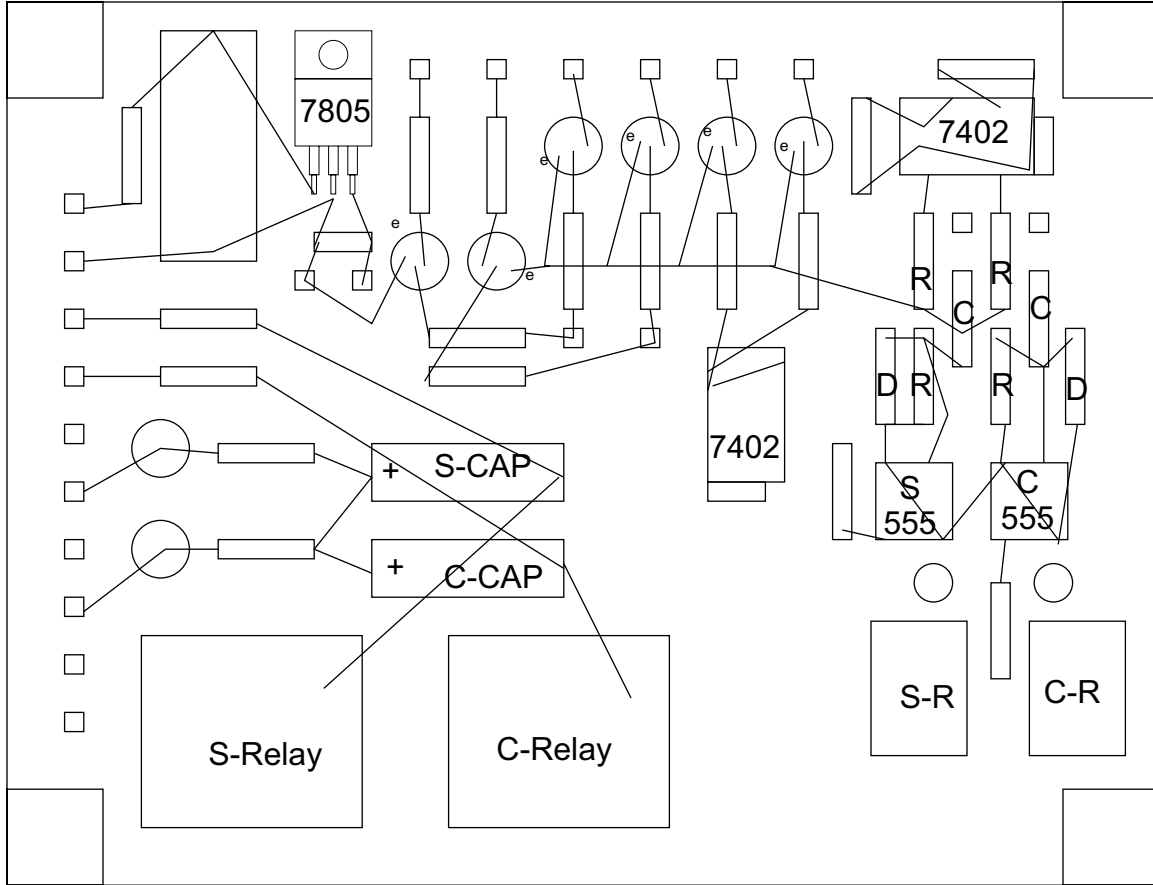
3.25

4.25

S C
 SW SW S C BLK BLK
 LED LED SW SW Grn Red

D

12V
 GND
 S-LED
 C-LED
 S-Entry
 S-Exit
 C-Entry
 C-Exit
 S-BLK
 C-BLK



6" by 4.6"