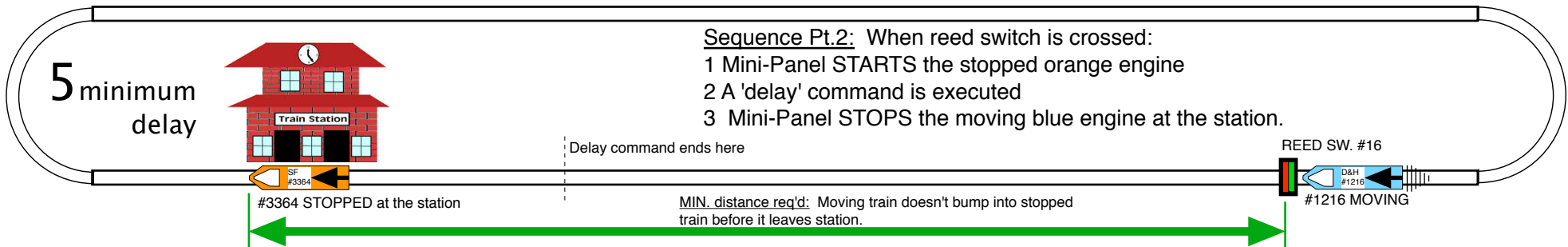
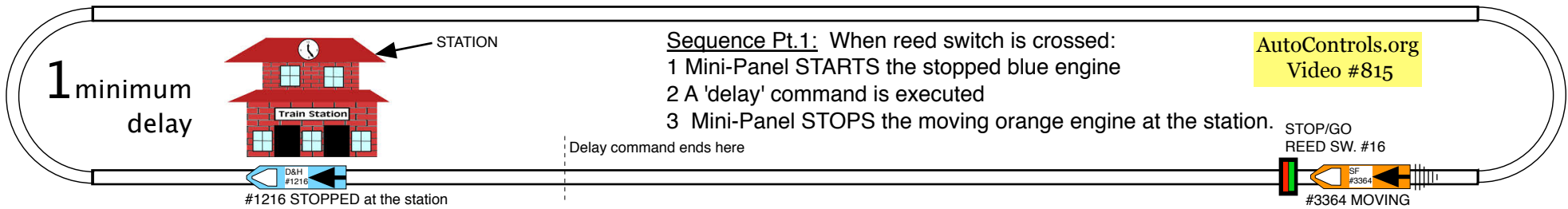
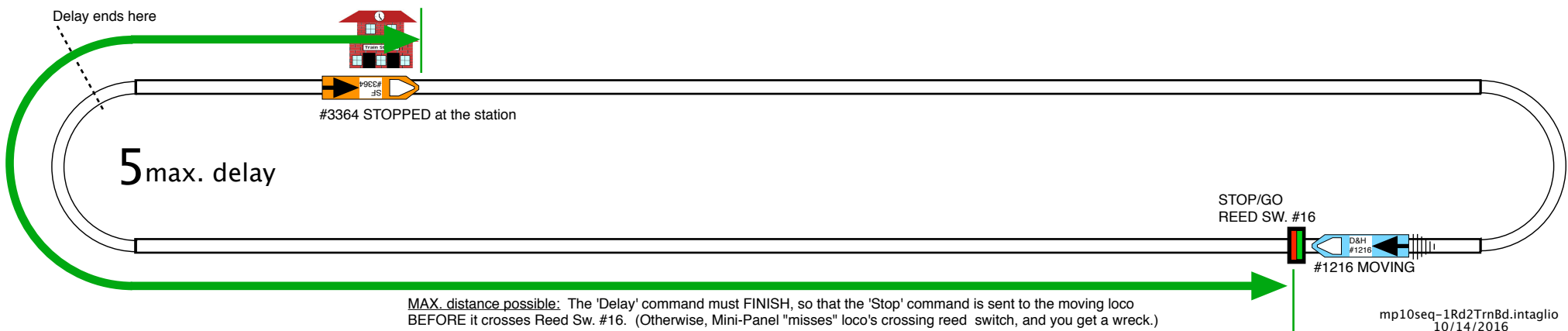
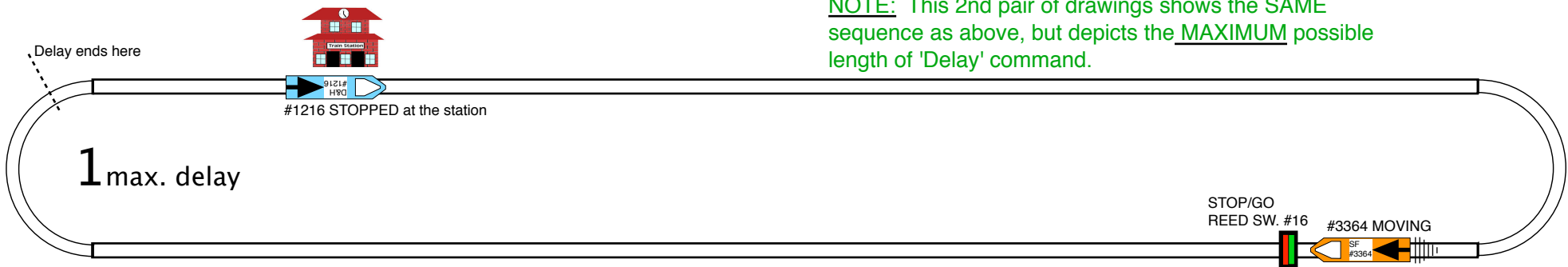


# Sequence Diagrams For 2 Trains w/1 Reed Sw. – Plan 10 (Pg.1/2 brief)

AutoControls.org  
Video #815



NOTE: This 2nd pair of drawings shows the SAME sequence as above, but depicts the MAXIMUM possible length of 'Delay' command.

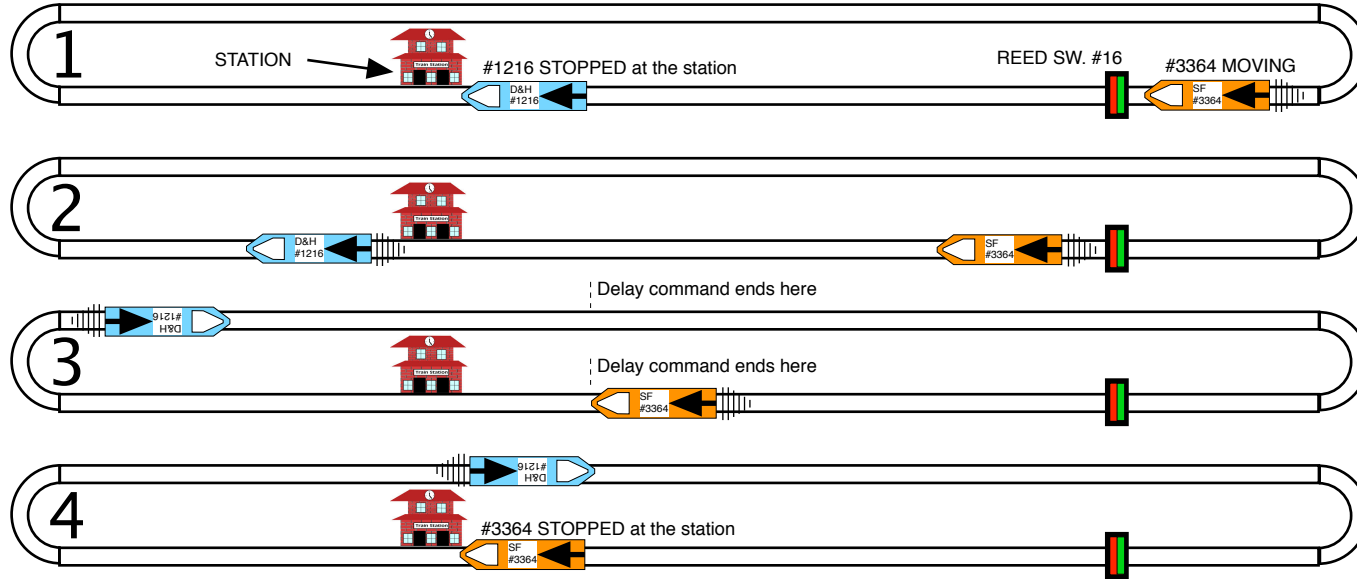


# Sequence Diagrams For 2 Trains w/1 Reed Sw. – Plan 10

AutoControls.org  
Video #815

(Pg.2/2 detailed)

INITIAL CONDITIONS:  
• LOCO #3364 IS "UPSTREAM" OF REED SWITCH #16 AND MOVING,  
• LOCO #1216 IS STOPPED AT STATION



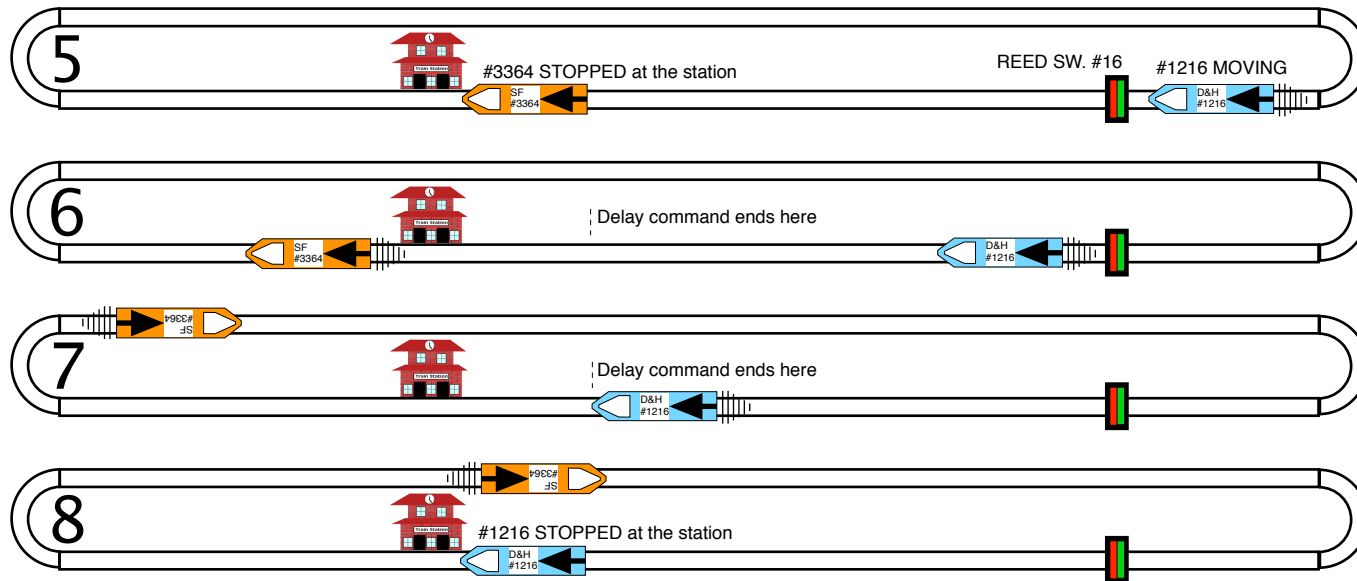
SELECT LOCO: 3364 <--(STARTUP)  
SPD FWD: 22 <--(STARTUP)

<-- WAIT INPUT #16 GND

<--SELECT LOCO: 1216 START LOCO OUT OF STATION)  
SPD FWD: 13  
DELAY 1/4 SEC: 40  
SKIP IF INPUT: 9 OPEN  
DELAY 1/4 SEC: 52  
<-- ~ ~ ~ 'DELAY' CONTROLS  
DISTANCE #3364  
TRAVELS PAST  
REED SWITCH  
CONTROLLED BY  
SPST SWITCH TO INP. 9

<--SELECT LOCO: 3364  
SPD FWD: 0

~~~~~ #3364 NOW STOPPED  
AT STATION



<-- WAIT INPUT #16 GND

<--SELECT LOCO: 3364 START LOCO OUT OF STATION)  
SPD FWD: 22  
DELAY 1/4 SEC: 40  
SKIP IF INPUT: 9 OPEN  
DELAY 1/4 SEC: 52  
<-- ~ ~ ~ 'DELAY' CONTROLS  
DISTANCE #3364  
TRAVELS PAST  
REED SWITCH  
CONTROLLED BY  
SPST SWITCH TO INP. 9

<--SELECT LOCO: 1216  
SPD FWD: 0

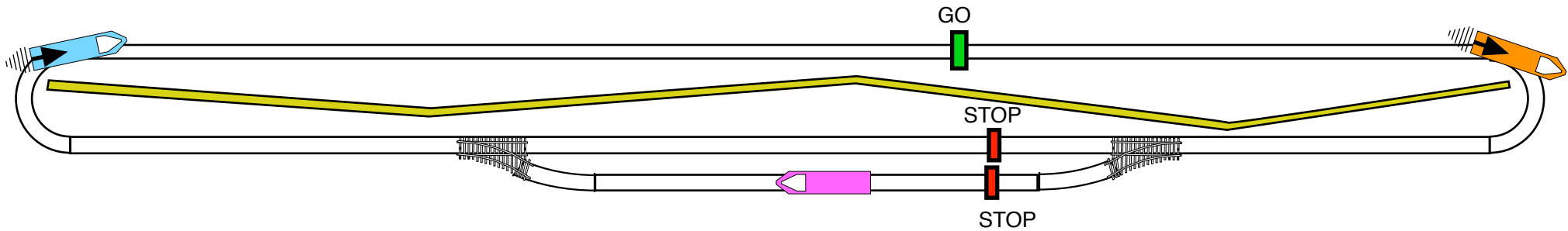
~~~~~ #1216 NOW STOPPED  
AT STATION

LINK TO INPUT: 23

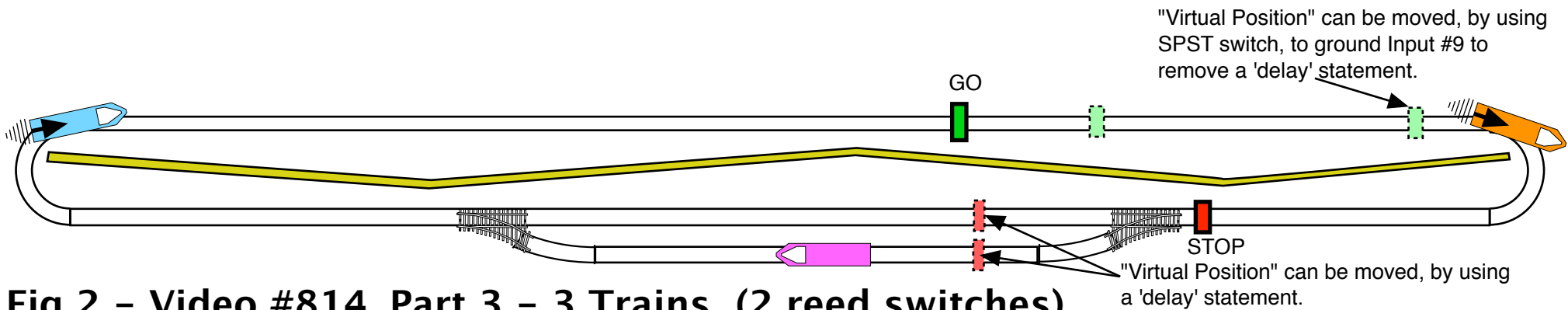
- Each train STOPS at the station, and WAITS until the other train reaches Reed Switch #16.
- Then, the stopped train STARTS, and the incoming train travels on to the station, then STOPS at the station and waits.
- The process REPEATS, when the 2nd train reaches Reed Switch #16.

D&H #1216  
 D&H #1216  
 LINES INDICATE  
MOVING LOCOMOTIVE  
 NO LINES INDICATE  
STOPPED LOCOMOTIVE

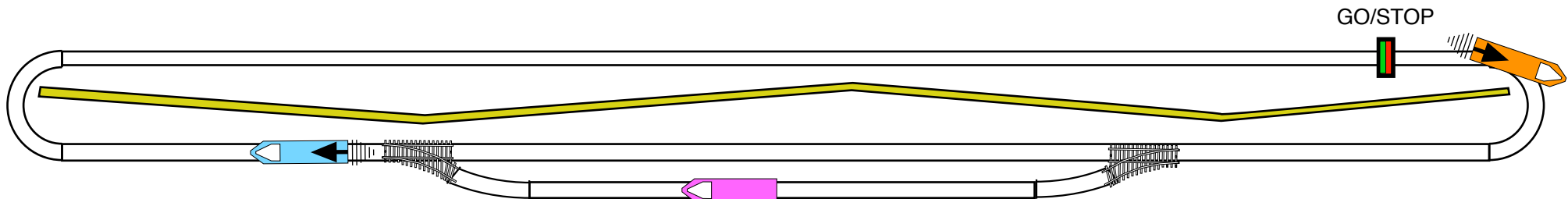
# Sequence Diagrams For 3 Train Operation (for discussion)



**Fig 1 – Video #814, Part 1 – 3 Trains (3 reed switches)**



**Fig 2 – Video #814, Part 3 – 3 Trains (2 reed switches)**



**Fig 3 – Video #815 – 3 Trains (1 reed switch)**

(This version has never been hooked up, just discussed as part of Video #815.  
It would be BETTER to use the Fig 2 version, with TWO reed switches.)

## Notes:

- Fig. 1 was demonstrated in Video #814, Part 1
- Fig. 2 was demonstrated in Video #814, Part 3
- Fig. 3 was never hooked up, just discussed as part of Video #815.