Rapid Flashing Beacon (RFB) indications shall comply with the dimensional, operational, and flash pattern requirements of Federal Highway Administration (FHWA) Interim Approval 21 (IA-21, Conditions 4, 5, and 6, excluding Condition 5f; https://mutcd.fhwa.dot.gov/resources/interim_approval/ia21/index.htm). RFB systems shall be capable of providing, at a minimum, the following two-channel flashing patterns:

1. NEMA Standard 50-50:
   - Channel one is ON and channel two is OFF for 0.5 seconds.
   - Channel one is OFF and channel two is ON for 0.5 seconds.
   (Cycle repeats; the total flashing pattern cycle length is 1.00 second.)

2. RFB “WW+S” Pattern (IA-21 Condition 5b):
   - Channel one is ON and channel two is OFF for 0.05 seconds.
   - Both channels are OFF for 0.05 seconds.
   - Channel one is OFF and channel two is ON for 0.05 seconds.
   - Both channels are OFF for 0.05 seconds.
   - Channel one is ON and channel two is OFF for 0.05 seconds.
   - Both channels are OFF for 0.05 seconds.
   - Channel one is OFF and channel two is ON for 0.05 seconds.
   - Both channels are OFF for 0.05 seconds.
   - Both channels are ON for 0.05 seconds.
   - Both channels are OFF for 0.25 seconds.
   (Cycle repeats; the total flashing pattern cycle length is 0.80 seconds.)

The flashing pattern shall be user-selectable in the field.

RFB system pushbuttons shall not include tactile arrows, speech messages, or vibrotactile indications. RFB system pushbuttons shall use a 9” x 12” R10-25 sign. The R10-25 sign may include integral yellow warning lights.