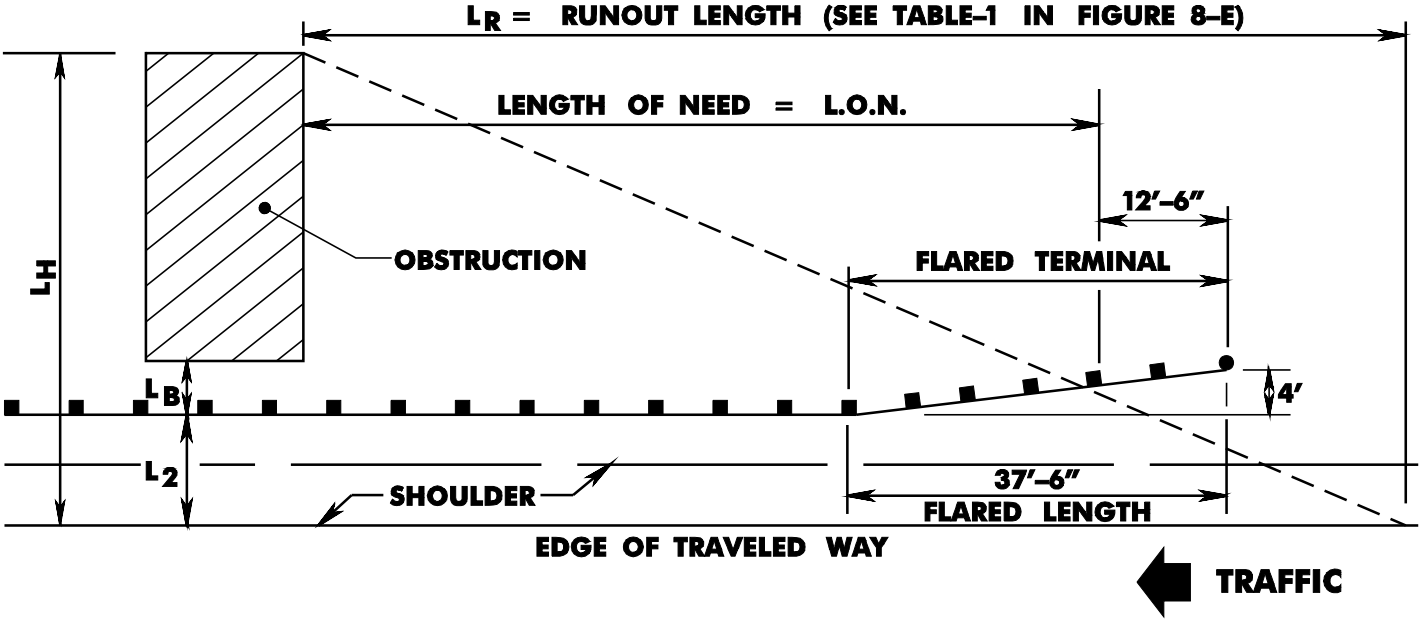
EXAMPLE OF APPROACH LENGTH OF NEED ON EMBANKMENT (FILL) SLOPES

FIGURE: 8–G

BDC13MR–04



EXAMPLE

DESIGN SPEED = 70 M.P.H.

TANGENT ROADWAY

A.D.T. = 7000

L_B = 4′

L_H = 22′

L_R = 330′

L_2 = 16′

STEP 1.

$$L.O.N. = \frac{L_R\,(L_H - L_2 - 2.7')}{L_H}$$

$$L.O.N. = \frac{330'\,(22' - 16' - 2.7')}{22'}$$

L.O.N. = 49.5′

STEP 2. Increase 49.5′ to nearest multiple of 12′–6″, L.O.N. = 50′.

STEP 3. Add an additional 12′–6″ to get required L.O.N. including flare terminal, use L.O.N.–plus–flare terminal = 62.5′.

STEP 4. From Table 1, Figure 8–D and Table 2, Figure 8–E, the minimum length = 75′. Since L.O.N.–plus–flare terminal is less than 75′, use 75′.