ERRATA for
PE Structural Engineering Practice Exam
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Revisions are shown in red.

Question 124, p. 32
The assumptions should read as follows:
The header is fully braced. Lateral-torsional buckling and distortional buckling need **not** be considered.
The track sections stiffen the flanges of the 800S200 sections.

Solutions Table, p. 70
123: The correct answer is A.

Solution 123, p. 83
The solution should read as follows:

Strength I, M_u = 1.25(25.8 ft-kips) + 1.75(492.7 ft-kips) AASHTO Table 3.4.1-1
= 894.5 ft-kips

THE CORRECT ANSWER IS: (A)

Solution 124, p. 83
The answer should read as follows:

ASD option:

$$M_{n\ell} = S_e F_n$$ AISI Eq. F3.1-1

Since header is fully braced, $F_n = F_y$

$$M_{n\ell} = \frac{2(0.812)(33)(1,000)}{12} = 4,466 \text{ ft-lb}$$

$$\frac{M_{n\ell}}{\Omega_b} = \frac{4,466 \text{ ft-lb}}{1.67} = 2,674 \text{ ft-lb}$$

LRFD option:

$$M_{n\ell} = S_e F_n$$ AISI Eq. F3.1-1

Since header is fully braced, $F_n = F_y$

$$M_{n\ell} = \frac{2(0.812)(33)(1,000)}{12} = 4,466 \text{ ft-lb}$$

$$\phi_b M_{n\ell} = 0.90(4,466) = 4,019 \text{ ft-lb}$$

THE CORRECT ANSWER IS: (B)