## Revision and Errata List- March 2021 <br> AISC Steel Construction Manual, $\mathbf{1 5}^{\text {th }}$ Edition

The following list represents corrections to the Third Printing of the AISC Steel Construction Manual, 15th Edition. These corrections are incorporated in the Fourth Printing dated March 2021.

## Page(s)

3-207

3-218

4-106 thru 4-131

4-132 thru 4-138

7-85 to 7-86

## Item

Replace the top figure in Table 3-22c with the following (right figure, fourth row, middle two terms, denominator revised to 38).


Replace the figure for Case 29 with the following (direction of $R_{3}$ arrow reversed):


Add the following to the Table 4-7 footer:
Note: Interpolation between $L=0 \mathrm{ft}$ and 10 ft for the $\mathrm{Y}-\mathrm{Y}$ axis may produce an incorrect result.

Add the following to the Table 4-7 footer:
Note: Interpolation between $L=0 \mathrm{ft}$ and 4 ft for the $\mathrm{Y}-\mathrm{Y}$ axis may produce an incorrect result.

Revise Table 7-19 as shown in "15th Edition Manual Errata - 3rd Printing_ATT 1"

Revise Equation 8-16 as follows ( $2 e_{x}^{2}$ revised to $2 e_{x}$ ):

$$
\begin{equation*}
l_{a}=\frac{\sqrt{4 e_{x}^{2}+l_{w}^{2} \tan ^{2} \theta}-2 e_{x}}{\tan \theta} \tag{8-16}
\end{equation*}
$$

Revise Equation 8-17 as follows ( $2 e_{x}^{2}$ revised to $2 e_{x}$ ):

$$
\begin{equation*}
f_{a}=\frac{N}{l_{a}}=\frac{N \tan \theta}{\sqrt{4 e_{x}^{2}+l_{w}^{2} \tan ^{2} \theta}-2 e_{x}} \tag{8-17}
\end{equation*}
$$

Revise Equation 8-18 as follows ( $M$ revised to $4 M$ ):

$$
\begin{equation*}
f_{b}=\frac{4 M}{l_{w}^{2}-l_{a}^{2}} \tag{8-18}
\end{equation*}
$$

Revise Equation 9-35 as follows ( $\rho$ replaced with $\eta$ ):

$$
\begin{equation*}
M_{n}=\frac{t^{2} F_{y}}{4}\left(\frac{4 \sqrt{2 a b c T \eta}+L \eta}{2 a b}\right) \tag{9-35}
\end{equation*}
$$

Revise Equation 9-36 to 9-36a and add new Equation 9-36b:

$$
\begin{align*}
& \rho=2 a b+a c+b c  \tag{9-36a}\\
& \eta=4 a b+a c+b c \tag{9-36b}
\end{align*}
$$

Replace the "For $17.5^{\circ}<\theta \leq 45^{\circ}$ from Perpendicular" figure with the following (shear plate is now beveled):


In Section M2.1, replace the second sentence with "The temperature of heated areas shall not exceed $1,100^{\circ} \mathrm{F}\left(590^{\circ} \mathrm{C}\right)$ for ASTM A514/A514M steel nor $1,200^{\circ} \mathrm{F}\left(650^{\circ} \mathrm{C}\right)$ for other steels."

At the end of the first sentence on the page, the expression " $P \geq 1.5 P$ " " is revised to " $P \geq$ $0.15 P_{y}$ "



