From the description of the question, we can construct a equation:

$\vec{a}^{(3)} = W^{(3)}\left(W^{(2)}\left(W^{(1)}\vec{a}^{(0)} + \vec{b}^{(1)}\right) + \vec{b}^{(2)}\right) + b^{(3)} = \widetilde{W}\vec{a}^{(0)} + \tilde{b},$

where $\vec{a}^{(0)} = (a_0^{(0)} a_1^{(0)} a_2^{(0)} a_3^{(0)} a_4^{(0)} a_5^{(0)})^T$, $\vec{a}^{(3)} = (a_0^{(3)} a_1^{(3)} a_2^{(3)} a_3^{(3)} a_4^{(3)} a_5^{(3)})^T$,

$\vec{b}^{(1)} = (b_0^{(1)} b_1^{(1)} b_2^{(1)} b_3^{(1)} b_4^{(1)} b_5^{(1)})^T, \vec{b}^{(2)} = (b_0^{(2)} b_1^{(2)} b_2^{(2)} b_3^{(2)} b_4^{(2)} b_5^{(2)})^T,$

$\vec{b}^{(3)} = (b_0^{(3)} b_1^{(3)} b_2^{(3)} b_3^{(3)} b_4^{(3)} b_5^{(3)})^T,$

$W^{(1)} = \begin{pmatrix} W_{0,0}^{(1)} & \cdots & W_{0,5}^{(1)} \\ \vdots & \ddots & \vdots \\ W_{5,0}^{(1)} & \cdots & W_{5,5}^{(1)} \end{pmatrix}, W^{(2)} = \begin{pmatrix} W_{0,0}^{(2)} & \cdots & W_{0,5}^{(2)} \\ \vdots & \ddots & \vdots \\ W_{5,0}^{(2)} & \cdots & W_{5,5}^{(2)} \end{pmatrix},$

$W^{(3)} = \begin{pmatrix} W_{0,0}^{(3)} & \cdots & W_{0,5}^{(3)} \\ \vdots & \ddots & \vdots \\ W_{5,0}^{(3)} & \cdots & W_{5,5}^{(3)} \end{pmatrix}, \widetilde{W} = \begin{pmatrix} W_{0,0} & \cdots & W_{0,5} \\ \vdots & \ddots & \vdots \\ W_{5,0} & \cdots & W_{5,5} \end{pmatrix}.$

Thus, the connection between $\widetilde{W}$ and $W^{(1)}, W^{(2)}, W^{(3)}$ is $\widetilde{W} = W^{(3)}W^{(2)}W^{(1)}$.

The connection between $\tilde{b}$ and $\vec{b}^{(1)}, \vec{b}^{(2)}, \vec{b}^{(3)}$ is

$\tilde{b} = \vec{b}^{(3)} + W^{(3)}\,\vec{b}^{(2)} + W^{(3)}W^{(2)}\,\vec{b}^{(1)}.$