$$A = \min_{a,g,h,j,k} \left(B\left[a, g, h, j\right] + C_{\boxtimes}\left[g, h-1, j, k-1\right] \right)$$

$$B\left[a, g, h, j\right] = \min_{e,f,i} \left(C_{\boxtimes}\left[e, f-1, h, i-1\right] + C\left[a, e | f, g, i, j\right] \right)$$

$$C'\left[a, e | f, g, i, j\right] = \min \begin{cases} C'[a, e-1 | f, g, i, j], & \text{if } e-1, \notin \{a, f, g, i, j\} \\ C[a+1, e-1 | f, g, i, j] + \Delta G(a, e) & \text{if } \{a+1, e-1\} \cap \{f, g, i, j\} = \emptyset \end{cases}$$

$$C\left[a, e | f, g, i, j\right] = \min \begin{cases} C[a+1, e | f, g, i, j], & \text{if } a+1 \notin \{e, f, g, i, j\} \\ C'[a, e-1 | f, g, i, j], & \text{if } e-1, \notin \{a, f, g, i, j\} \\ C[a+1, e-1 | f, g, i, j] + \Delta G(a, e) & \text{if } \{a+1, e-1\} \cap \{f, g, i, j\} = \emptyset, \\ D'[a, e+1, f, g, i, j] & \end{cases}$$

$$D\left[b, d, f, g, i, j\right] = \min_{c} \left(C_{\boxtimes}\left[c, d-1, f, g-1\right] + C_{\boxtimes}\left[b, c-1, i, j-1\right] \right)$$