

Conventions:

$$\{e_i, f_i, \omega_i^{\pm 1}, (\omega_i')^{\pm 1}, r, s\} \leftrightarrow \{x_{i,i+1}, y_{i,i+1}, e^{\pm v_i}, e^{\pm w_i}, e^r, e^s\}$$

We are assuming that $r_i = r$ and $s_i = s$.