$H^{[i,K]}$		$I^{[i]}$	$\widetilde{T2}_{[i+1,K]}^{[i]}$	$ \left  \begin{array}{c} \widetilde{S}_{[i+1,K]}^{[i]} + \widetilde{T4}_{[i+1,K]}^{[i]} \end{array} \right  $	$\underline{P_{[i+1,K][i+1,K]}^{[i]}}$	$\overline{P}_{[i+1,K][i+1,K]}^{[i]}$	0	$(-\widetilde{a}_{[i]})^{[i]}$	0	0	0	$(a_{[i]}^{\dagger}a_{[i]})^{[i]}$	0	$(\widetilde{a}_{[i]}^\dagger)^{[i]}$	0	$(\widetilde{a}_{[i]})^{[i]}$	$H^{[i]}$	$H^{[i+1,K]}$
$(a_{[i]}^{\dagger})^{[i,K]}$		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$(a_{[i]}^{\dagger})^{[i]}$	$(a_{[i+1,K]}^{\dagger})^{[i+1,K]}$
$(a_{[i+1,K]}^{\dagger})^{[i,K]}$		0	$\widetilde{I}^{[i]}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$(a_{[i+1,K]})^{[i+1,K]}$
$(a_{[i]})^{[i,K]}$		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$(a_{[i]})^{[i]}$	$\overline{A}_{[i+1,K][i+1,K]}^{[i+1,K]}$
$\frac{(a_{[i+1,K]})^{[i,K]}}{\overline{A_{[i,K]}^{[i,K]}}} = \frac{(a_{[i+1,K]})^{[i,K]}}{\overline{A_{[i+1,K][i]}^{[i,K]}}}$		0	0	$\widetilde{I}^{[i]}$	0	0	0	0	0	0	0	0	0	0	0	0	0	$A^{[i+1,K]}_{[i+1,K][i+1,K]}$
$\overline{A}_{[i][i]}^{[i,K]}$		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$(a_{[i]}^{\dagger}a_{[i]}^{\dagger})^{[i]}$	$S_{[1,i-1]}^{[i+1,K]} \ S_{[i]}^{[i+1,K]}$
$\overline{A}_{[i+1,K][i]}^{[i,K]}$		0	$(\widetilde{a}_{[i]}^\dagger)^{[i]}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$S_{[i]}^{[i+1,K]}$
$ \begin{array}{c} [i+1,K][i] \\ \overline{A[i,K]} \\ \underline{A[i,K]} \\ \underline{A[i,K]} \\ \underline{A[i,K]} \\ \underline{A[i,K]} \\ A[i,K] \\ \underline{A[i,K]} \\ A[i,K] \end{array} $		0	0	0	$I^{[i]}$	0	0	0	0	0	0	0	0	0	0	0	0	$Q_{[1,i-1][1,i-1]}^{[i+1,K]} \\ Q_{[1,i-1][1,i-1]}^{[i+1,K]} \\ Q_{[1,i-1][i]}^{[i+1,K]}$
$\underline{A}_{[i][i]}^{[i,K]}$	=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$(a_{[i]}a_{[i]})^{[i]}$	$Q_{[1,i-1][i]}^{[i+1,K]}$
$A^{[i,K]^{(i)}}$		0	0	$(\widetilde{a}_{[i]})^{[i]}$	0	0	0	0	0	0	0	0	0	0	0	0	0	$Q_{[i][1,i-1]}^{[1,i-1][i]}$
$A^{[i,K]}_{[i+1,K][i+1,K]}$		0	0	0	0	$I^{[i]}$	0	0	0	0	0	0	0	0	0	0	0	$Q^{[i+1,K]}_{[i]}$
$S_{[1,i-1]}^{[i,K]}$		0	0	0	0	0	$\widetilde{I}^{[i]}$	0	0	0	0	0	0	0	0	0	$S_{[1,i-1]}^{[i]}$	$T_1^{[i][i]}$
$Q_{[1,i-1][1,i-1]}^{[i,i-1]}$		0	$(v_{p_Lq_Cr_Ls_R}\widetilde{a}_{q_C}^{\dagger})^{[i]}$	$(-v_{p_Lq_R\tau_Ls_C}\widetilde{a}_{s_C})^{[i]}$	0	0	0	0	$I^{[i]}$	0	0	0	0	0	0	0	$Q_{[1,i-1][1,i-1]}^{[i]}$	$\frac{Q_{[i]1,i-1]^{[i]}}^{[i+1,K]}}{Q_{[i][1,i-1]}^{[i+1,K]}} \\ \frac{Q_{[i][i]}^{[i+1,K]}}{T1_{[i+1,K]}^{[i+1,K]}} \\ T1_{[i]}^{[i+1,K]}$
$ \frac{T1_{[i,k-1]}^{[i,k-1]}}{T1_{[1,i-1]}^{[i,K]}} $		0	$(v_{p_Lq_Rr_Cs_C}\widetilde{a_{r_C}a_{s_C}})^{[i]}$	$(v_{p_Lq_Cr_Cs_R}\widehat{a_{q_C}^\dagger}a_{r_C})^{[i]}$		$(v_{p_Lq_Cr_Rs_R}a_{q_C}^\dagger)^{[i]}$	0	0	0	$(-a_{q_C})^{[i]}$	0	0	$\widetilde{I}^{[i]}$	0	0	0	$T1_{[1,i-1]}^{[i]}$	$T3^{[i+1,K]}$
$\frac{A_{[i+1,K][i+1,K]}^{[i,K]}}{S_{[1,i-1]}^{[i,K]}} \\ \frac{Q_{[1,i-1]}^{[i,K]}}{T1_{[1,i-1]}^{[i,K]}} \\ \frac{T3_{[i,i-1]}^{[i,K]}}{I^{[i,K]}}$		0	$(-v_{p_Lq_Rr_Ls_C}\widetilde{a_{p_C}^\dagger a_{s_C}})^{[i]}$	$(v_{p_Cq_Cr_Ls_R}\widetilde{a_{p_C}^\dagger a_{q_C}^\dagger})^{[i]}$	$(v_{p_Rq_Rr_Ls_C}a_{s_C})^{[i]}$	0	0	0	0	0	$(a_{p_C}^\dagger)^{[i]}$	0	0	0	$\widetilde{I}^{[i]}$	0	$T3^{[i]}_{[1,i-1]}$	$T3_{[i]}^{[i+1,K]}$
$\lfloor I^{[i,K]} \rfloor$		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$I^{[i]}$	$I^{[i+1,K]}$