$\sigma_{i+1}^{-1}(V(\mathcal{K}^{\ell})) \not\in V(\mathcal{P}_a^{\ell}) \cup V(\mathcal{P}_b^{\ell}) \text{ and } |\{\sigma_{i+1}(v_a^{\ell}), \sigma_{i+1}(v_b^{\ell})\} \cap V(\mathcal{K}^{\ell})\} \leq 1.$