$\{\sigma_i^{-1}(\mu), \sigma_i^{-1}(\sigma_{i+1}(v_a^{\ell}))\} \subset \sigma_i^{-1}(V(\mathcal{K}^{\ell})) \setminus (V(\mathcal{P}_a^{\ell}) \cup V(\mathcal{P}_b^{\ell})),$