



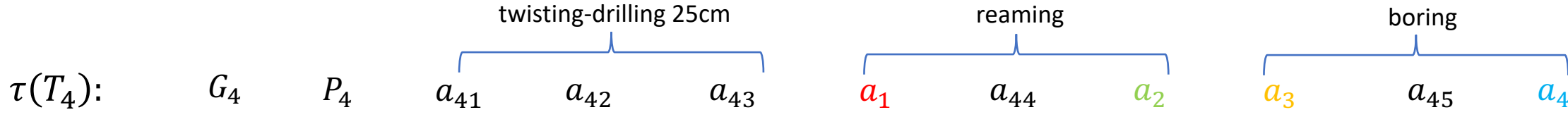
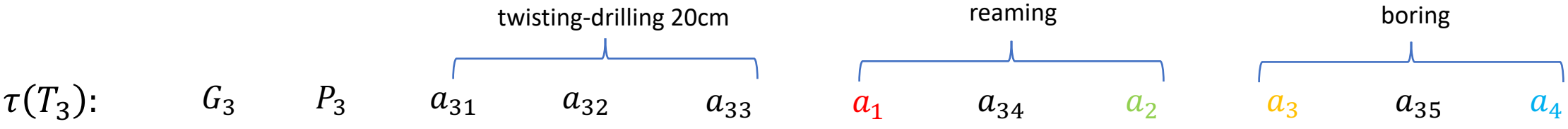
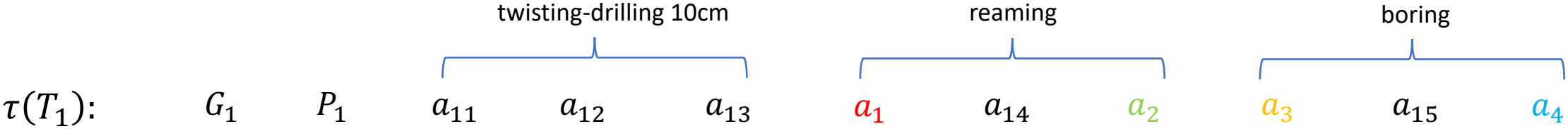
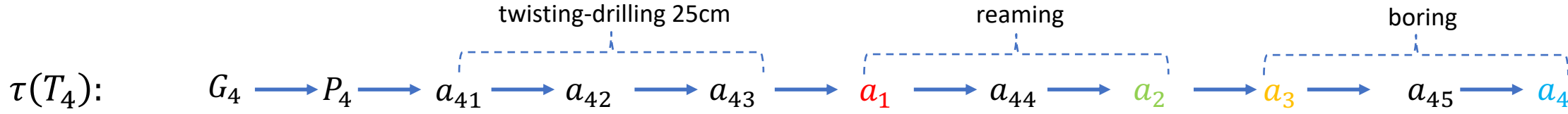
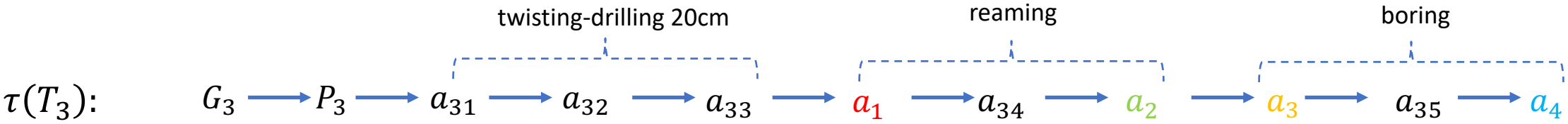
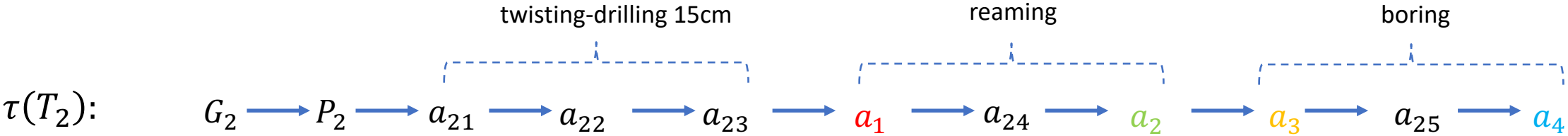
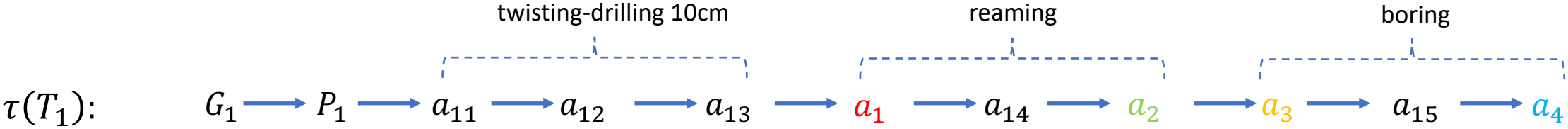


		Operation 1	Operation 2	Operation 3
block 1		twisting-drilling 10cm	reaming	boring
block 2		twisting-drilling 15cm	reaming	boring
block 3		twisting-drilling 20cm	reaming	boring
block 4		twisting-drilling 25cm	reaming	boring





## Overlap Progression Links:

$a_1$

$$(\{a_{13}, a_{23}\} \rightarrow \{a_1 - P_1, a_1 - P_2\})$$

$$(\{a_{13}, a_{33}\} \rightarrow \{a_1 - P_1, a_1 - P_3\})$$

$$(\{a_{13}, a_{43}\} \rightarrow \{a_1 - P_1, a_1 - P_4\})$$

$$(\{a_{23}, a_{33}\} \rightarrow \{a_1 - P_2, a_1 - P_3\})$$

$$(\{a_{23}, a_{43}\} \rightarrow \{a_1 - P_2, a_1 - P_4\})$$

$$(\{a_{33}, a_{43}\} \rightarrow \{a_1 - P_3, a_1 - P_4\})$$

}  $\mathcal{C}_4^2$

$$(\{a_{13}, a_{23}, a_{33}\} \rightarrow \{a_1 - P_1, a_1 - P_2, a_1 - P_3\})$$

$$(\{a_{13}, a_{33}, a_{43}\} \rightarrow \{a_1 - P_1, a_1 - P_3, a_1 - P_4\})$$

$$(\{a_{13}, a_{23}, a_{43}\} \rightarrow \{a_1 - P_1, a_1 - P_2, a_1 - P_4\})$$

$$(\{a_{23}, a_{33}, a_{43}\} \rightarrow \{a_1 - P_2, a_1 - P_3, a_1 - P_4\})$$

}  $\mathcal{C}_4^3$

$$(\{a_{13}, a_{23}, a_{33}, a_{43}\} \rightarrow \{a_1 - P_1, a_1 - P_2, a_1 - P_3, a_1 - P_4\})$$

}  $\mathcal{C}_4^4$

## Result from Fast-forward planner

