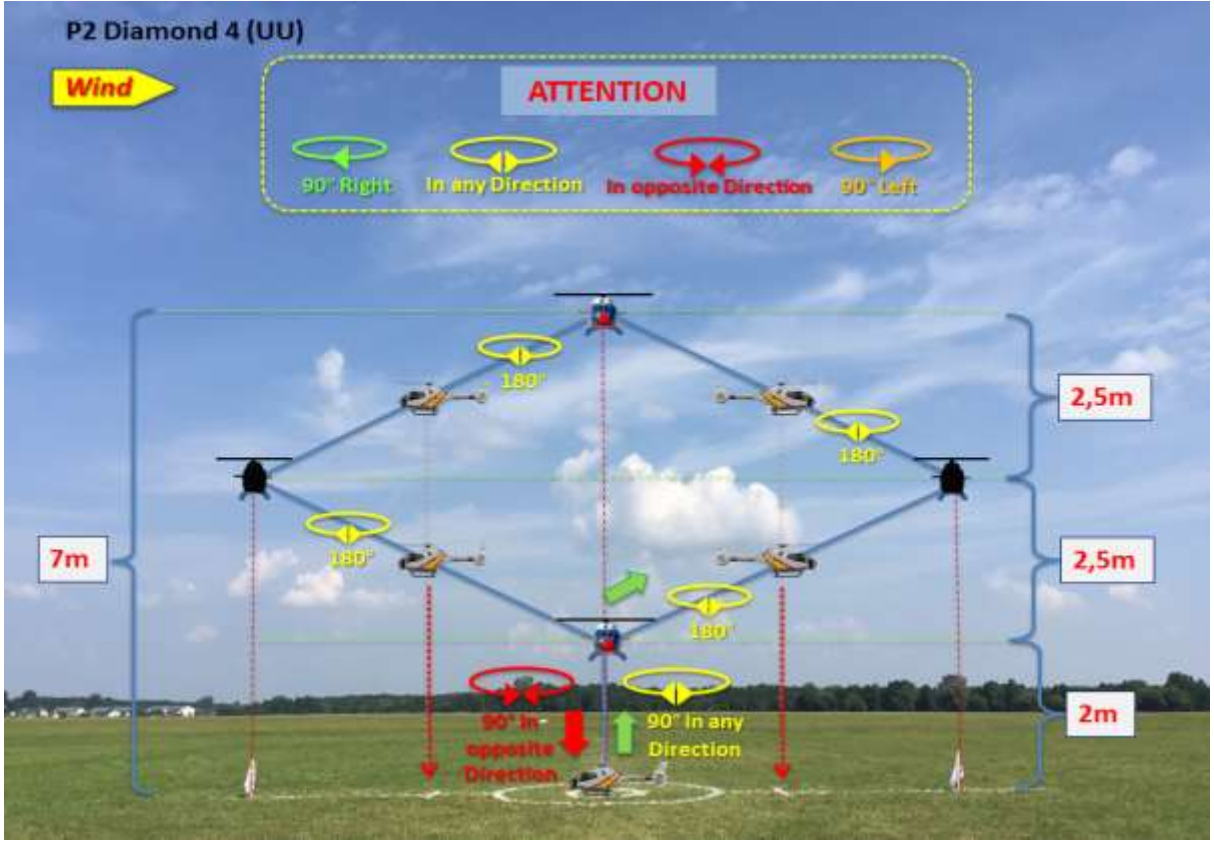
HELP FOR TRAINERS AND PILOTS

P2-Diamond 4-2020-2021

By Roger Lacôme



P2: Diamond 4 (UU) **K=1.5**

MA takes off vertically from the helipad and ascends to 2 m while performing simultaneously a 90° pirouette in any direction. It hovers there for at least 2 seconds,

Ma ascends 2.5 m in a straight line to any flag while performing a 180° pirouette in any direction and stops for at least 2 seconds.

MA ascends 2.5 m in a straight line to 7 m above the center line while performing a 180° pirouette in any direction and stops for at least 2 seconds.

MA descends 2.5 m in a straight line to the second flag while performing a 180° pirouette in any direction and stops for at least 2 seconds.

MA descends 2.5 m in a straight line to 2 m above the center line while performing a 180° pirouette in any direction and stops for at least 2 seconds.

MA descends and lands into the helipad while simultaneously performing a 90° pirouette in opposite direction of the first pirouette.

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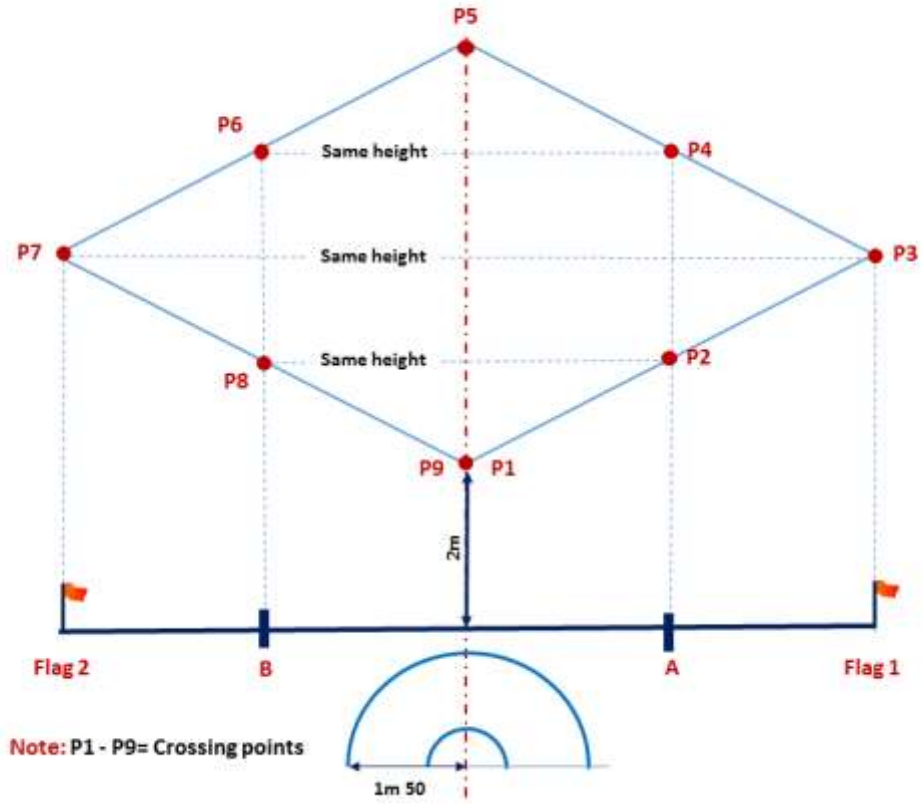

Comments :

For this figure, there are 9 checkpoints to check and I remind you that the trainer must move on the line of the judges to check:

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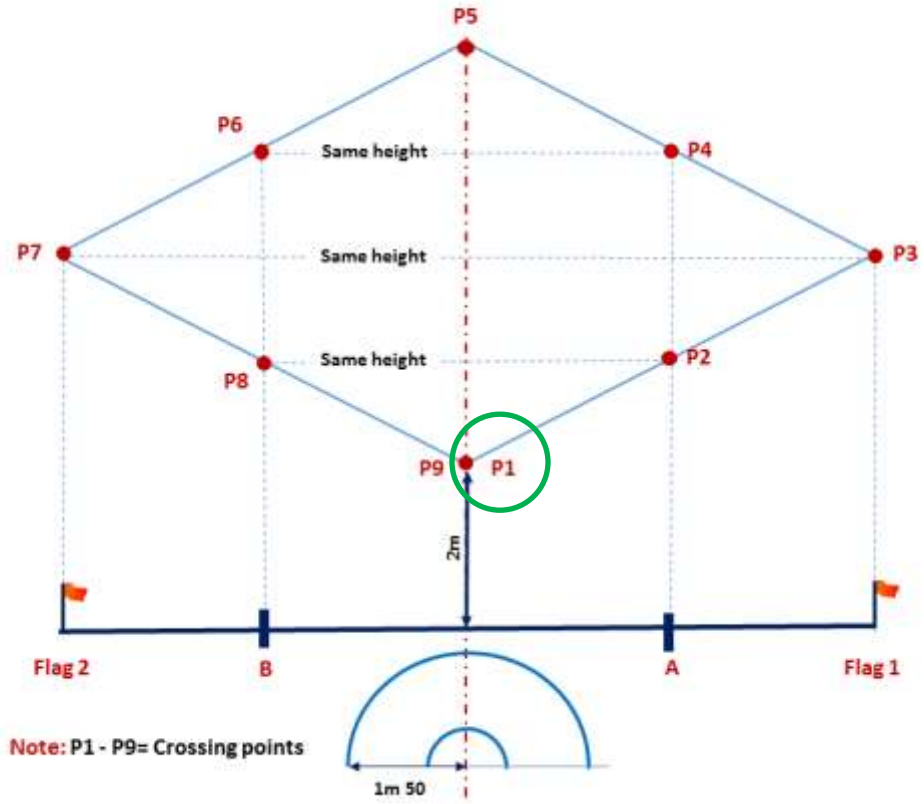
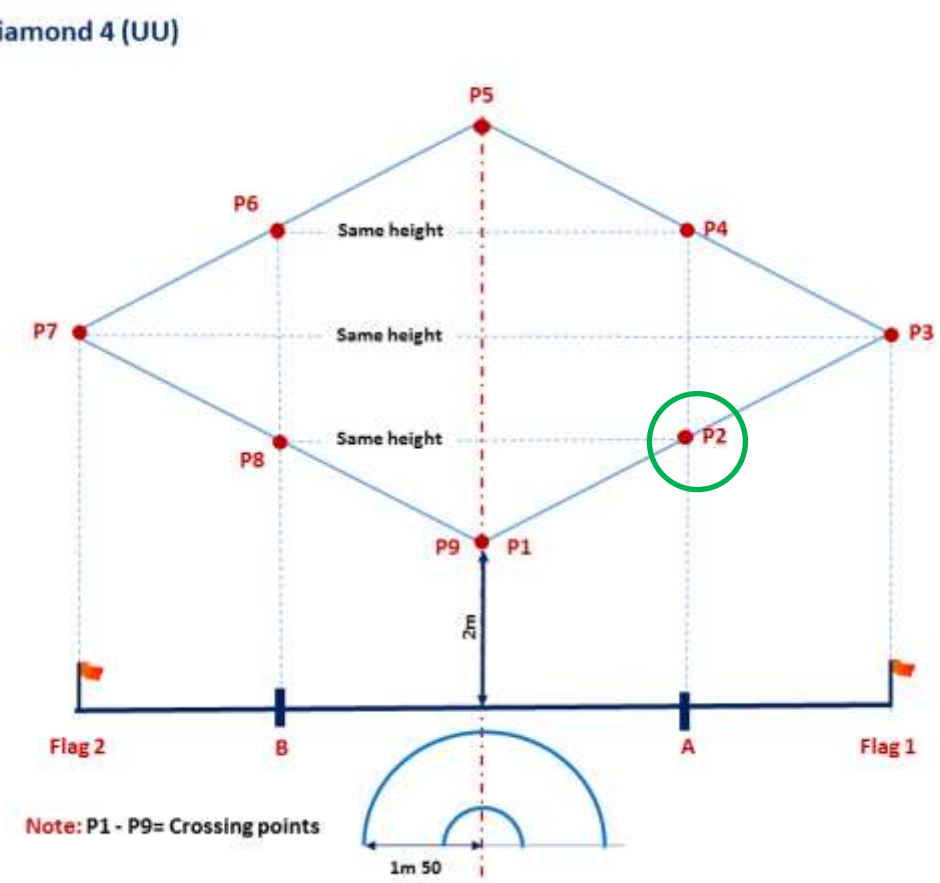


Waypoint 1:

- To begin and before the helicopter takes off from the center circle, the trainer must position himself behind judge's location "4, or 2" on the judges' line to check if the rate of ascent and rotation are constant and synchronized (45° rotation after an ascend 1m).

- The helicopter stops at 2m and the stationary lasts 2 seconds minimum.

A particularity for this figure because once the rise of 2m carried out, the helicopter perhaps with the nose or the tail of the helicopter towards the central judge.



Waypoint 2:

Another peculiarity for this figure, the helicopter can leave towards the vertical of the F1 flag (P3) or flag F2 (P7). For comments, it will go to the vertical of the F1 flag (P3).

- It's necessary to check that the oblique rise is well rectilinear.

- When the helicopter passes over the "A" mark, the longitudinal axis of the helicopter must be superimposed with that of the flight plan.

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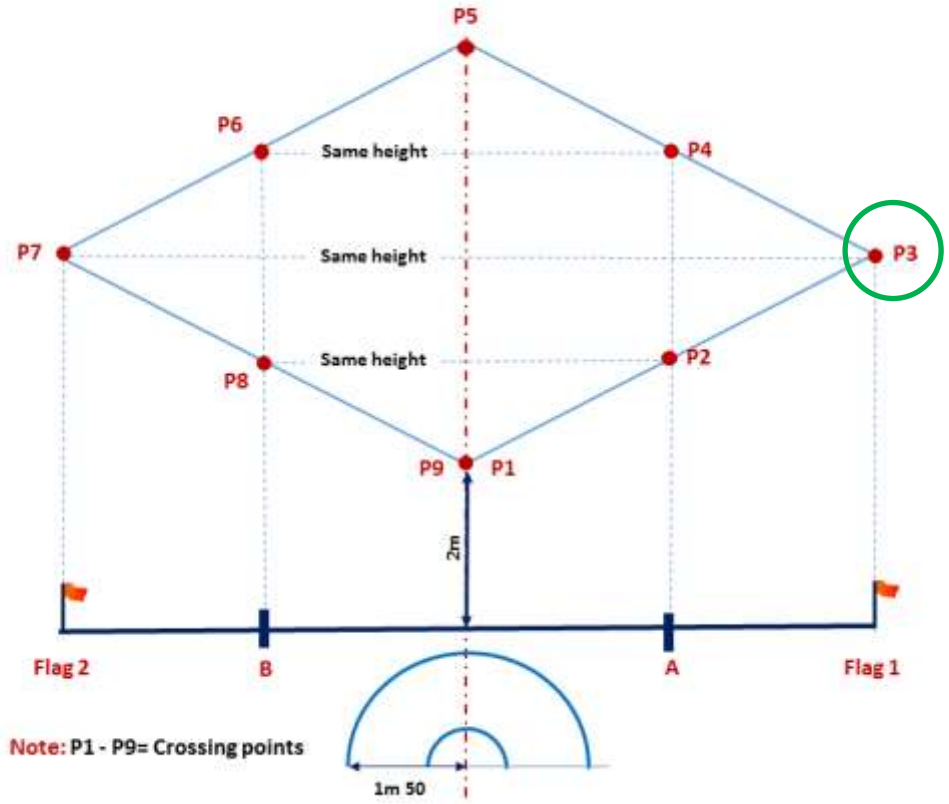

Waypoint 3:

- One would think that it is enough that the helicopter to stop vertical of the F1 flag, at 4.50m on height and indeed no, it's also necessary that the longitudinal axis of the helicopter is at 90 ° to the axis of the flight plan.

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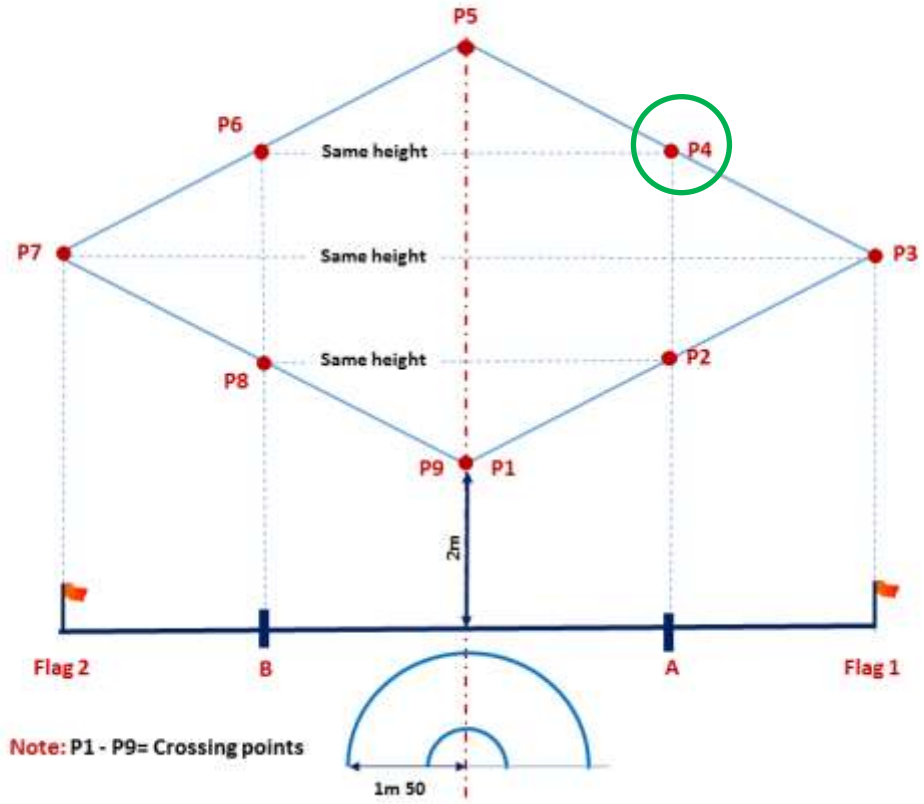
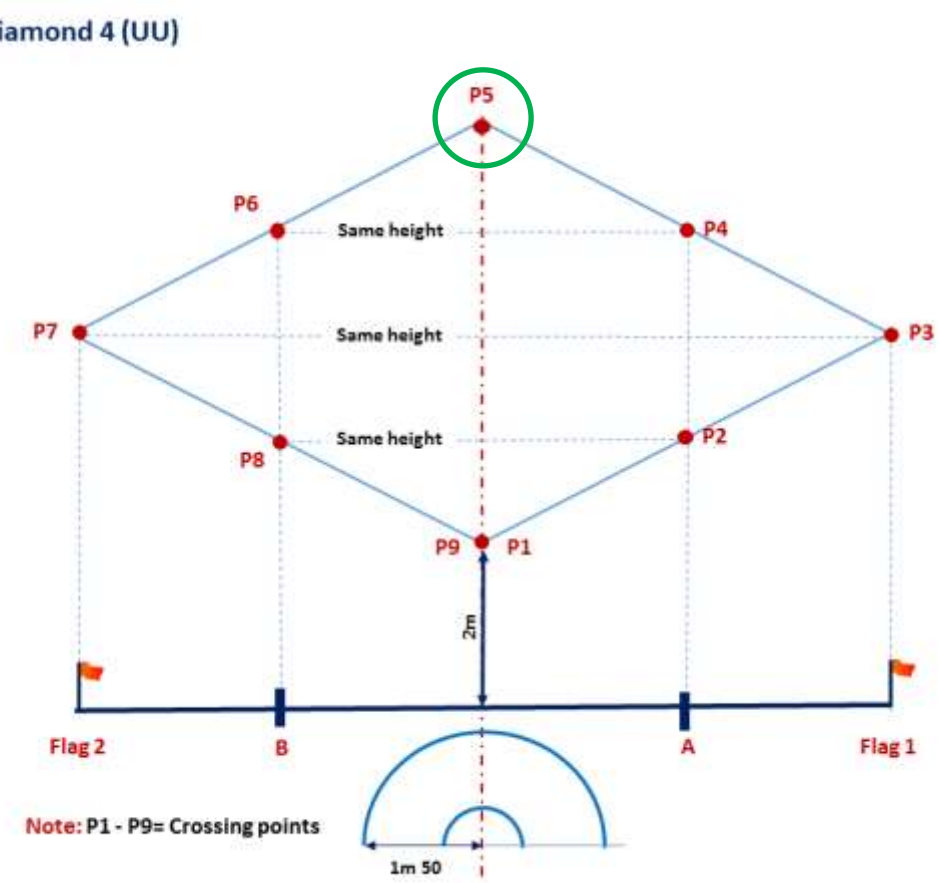


Waypoint 4:

- Same comments as for the "P2" waypoint.



Waypoint 5:

- Of course it is necessary that the helicopter stops at the vertical of the central circle.
- That the longitudinal axis of the helicopter must be superimposed with that of the flight plan, but that too is not enough!
- It must be checked that the helicopter did not go deep (distance).

To verify this previous point, it is necessary that from time to time the trainer (or a helper) is placed in the extension of the axis of the flight plan (axis F1 to F2).

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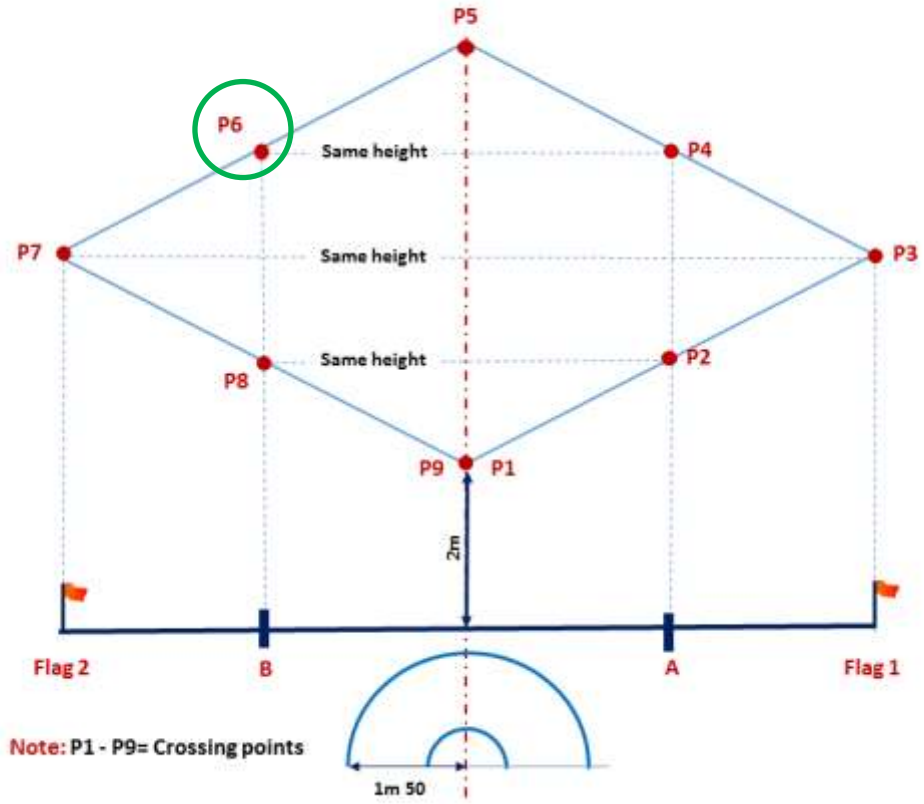

Waypoint 6:

- Always the same thing, vertical "B" axis at 90 °, oblique rectilinear translation, but again this is not enough!

- It’s also necessary that when the helicopter is vertical to the "B" mark, it must also be at the same height as when it was in "P4".

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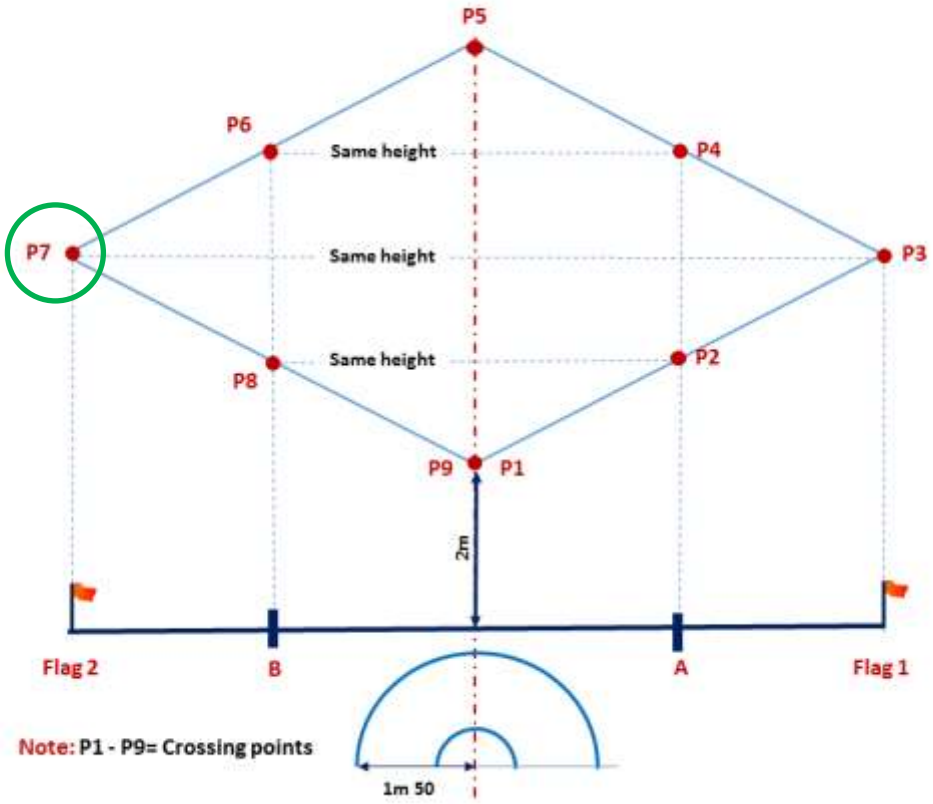
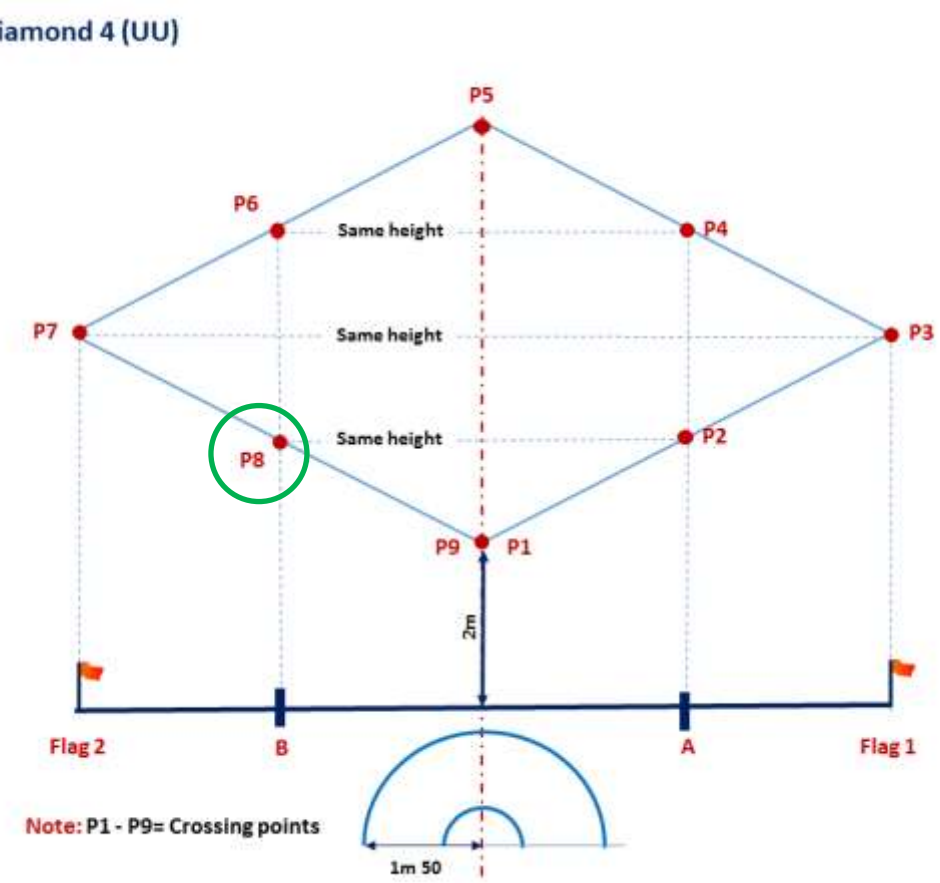


Waypoint 7:

- Same comments as for the "P3" waypoint, but also the stop must be at the same altitude as the "P3" stop, so at 4.50m.



Waypoint 8:

- Always the same thing, vertical "B" axis at 90 °, oblique rectlinear translation, but again this is not enough!

- It is also necessary that when the helicopter is vertical to the "B" mark, it must also be at the same height as when it was in "P2".

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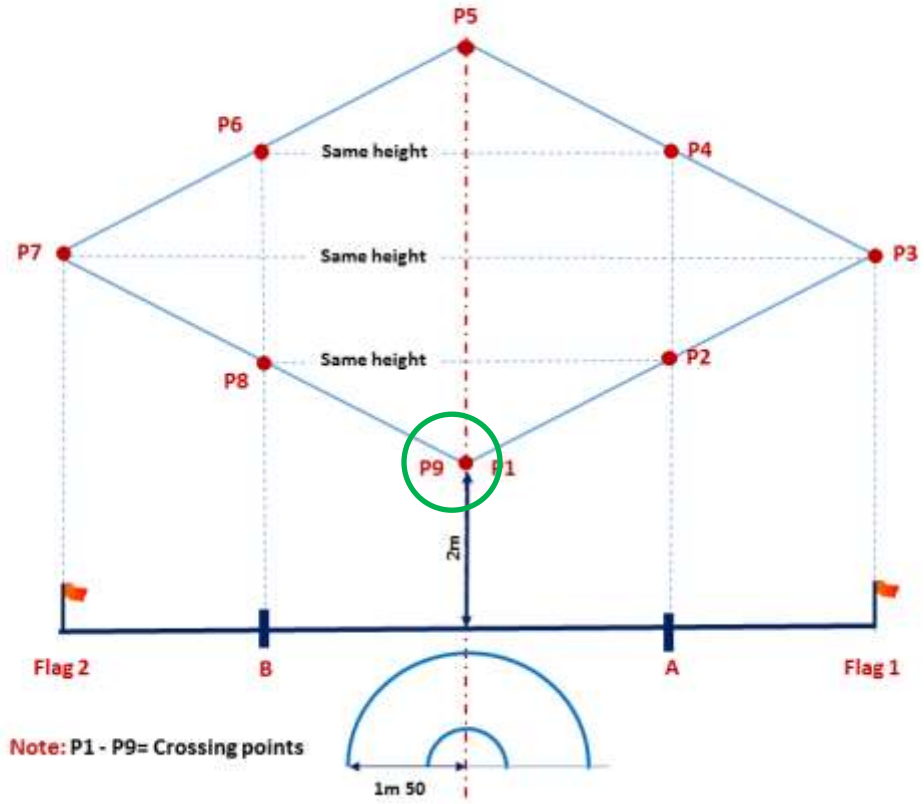

Waypoint 9:

- You have to check that the stop is at 2m height, the axis at 90 ° and that the hovering lasts 2 seconds minimum.

As usual, do not neglect the descent with the same comments as for the ascent at the beginning of the figure, that is to say: 1m rise or descent = 45 ° rotation.

Note: Of course, all the waypoints are important, but you have to focus even more on the points: P2 - P4 - P6 and P8

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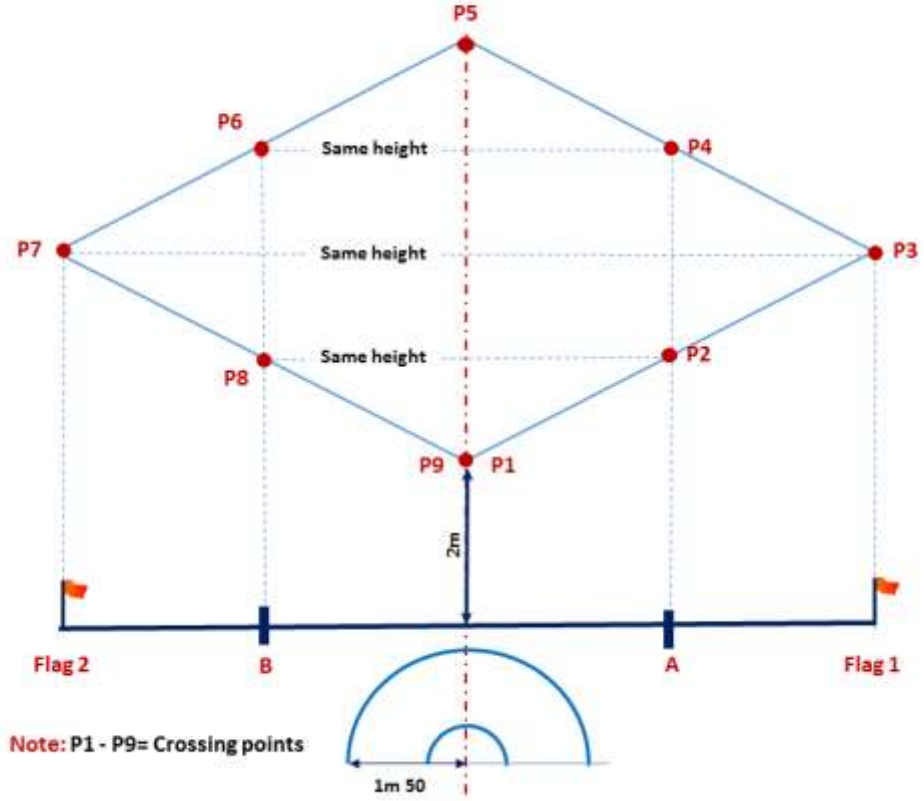

Thanks for your interest

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