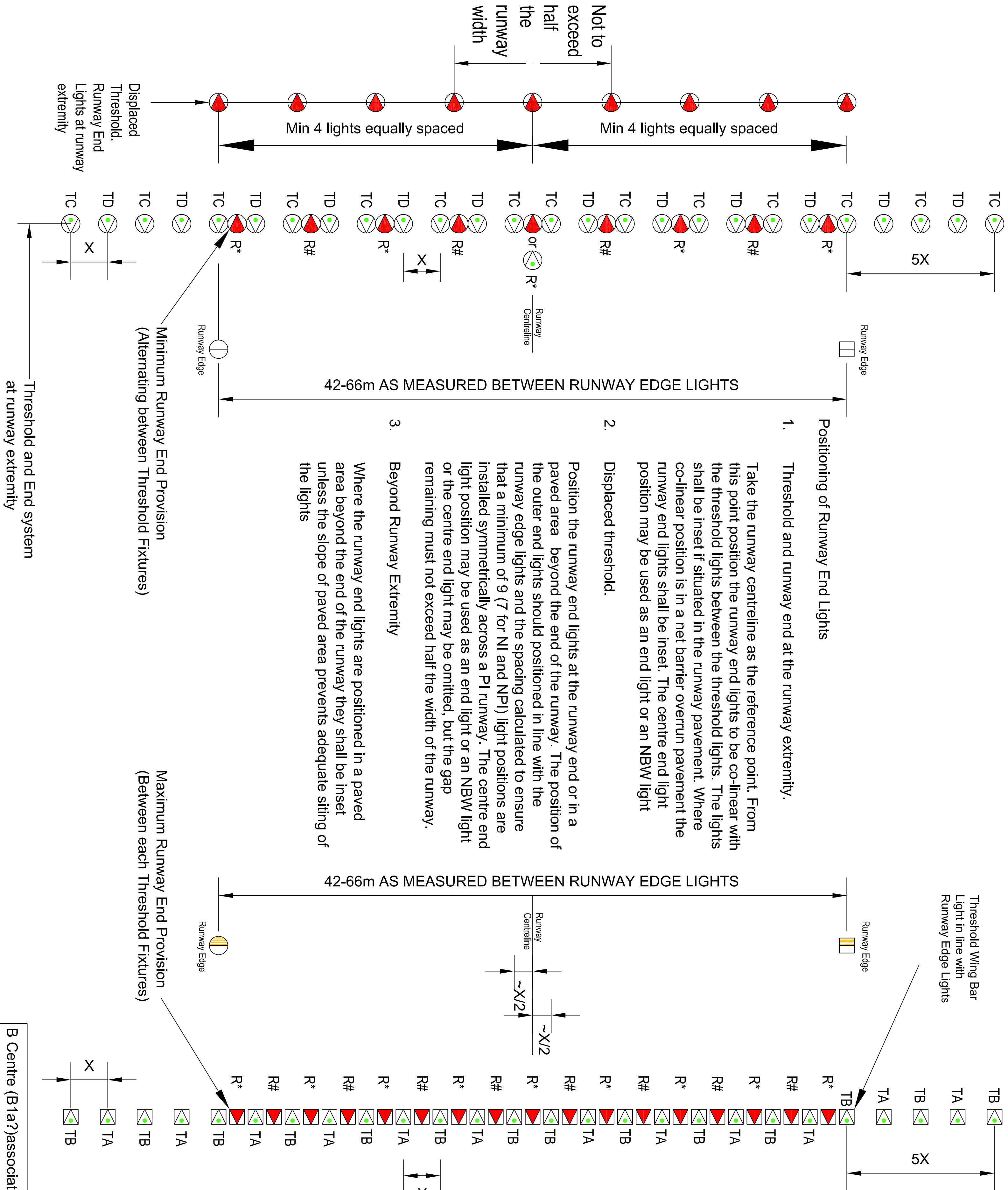


THRESHOLD LAYOUT FOR CAT I, CAT II APPROACHES AND THEIR CONJUGATE APPROACHES,
FOR DISTANCES BETWEEN RUNWAY EDGE LIGHTS EXCEEDING 42m AND LESS THAN 66m



Positioning of Runway Threshold / Threshold Wing Bar Lights where such lights are at the extremity of the runway or displaced

Measure distance between runway edge lights.
Divide this distance by 3.
Round-up the result to the nearest odd number.
Divide the distance by the obtained odd number.

This exercise will result in lights being spaced equally at less than or equal to 3m. The two inner lights will then be set symmetrically either side of the runway centreline.

The position on the runway centreline shall be occupied by a Runway End Light, Net Barrier Aiming Light or a Runway Centreline Light, as appropriate.

Threshold lights shall be inset where positioned in the runway pavement. Where the threshold lights are positioned on a paved area beyond the end of the runway pavement they may be elevated for improved conspicuity.

Threshold wing bar lights should match the installation of the threshold lights.

Procedure

$\frac{\text{Runway Width}}{3} = \text{Light Units per threshold}$

Obtained figure to be rounded up to next odd number. (Z). Do not apply this roundup where the runway widths are exactly 45.00m, 51.00m, 57.00m .

Calculate spacing for Threshold lights

$\text{Runway Width} = X$

Example Calculation:

Runway defined Width is 45.1m
Threshold Spacing Maximum 3m

$45.1/3 = 15.033$ light units per Threshold

Round up to 17 (Z)

$45.1/17 = 2.6529\text{m} (X)$

Roundup this number to 2 or 3 decimal places. This will give 2.65 or 2.654. The rounding will depend on the accuracy that measurements on the pavement can be achieved

In this example there will be (17-1) 16 Threshold Lights & 10 Threshold Wing Bar Lights equally spaced at 2.654m (X) centred to the Runway Centreline.

To layout the Threshold commence the measurement from each edge light at the runway edge.
Any small error, because of rounding will be accommodated between the two central lights.

Calculations for runway widths of 42m to 66m show that the spacing is never less than 2.6m. Hence if Wing lights are required the mandated length of 10m will be accomplished with 5 Wing lights.



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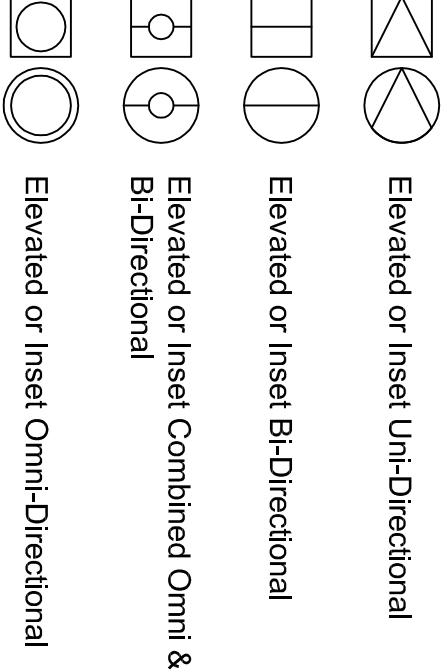
PROJECT

AGL Design Guide
Typical Drawings

NOTES

Regulations RA 3515(10), RA 3515(11) & RA 3515(12) applies

KEY



The visible colours from the light fixture shall be:

White (or Clean) - None
Red - Solid
Blue - A Cross
Green - Small Circular Solid Disc
Yellow - Stripes
Blank - Letter B.



ISSUE/REVISION

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DESCRIPTION	

SHEET TITLE

Runway, Threshold & Runway End Spacing and Circuit Configuration

SHEET NUMBER

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