



**Defence
Infrastructure
Organisation**

ADDRESS

**Technical Services, Engineering & Construction, Electrical Infrastructure
Defence Infrastructure Organisation**
Kingsion Road,
Sutton Coldfield
West Midlands,
B75 7RL,
United Kingdom

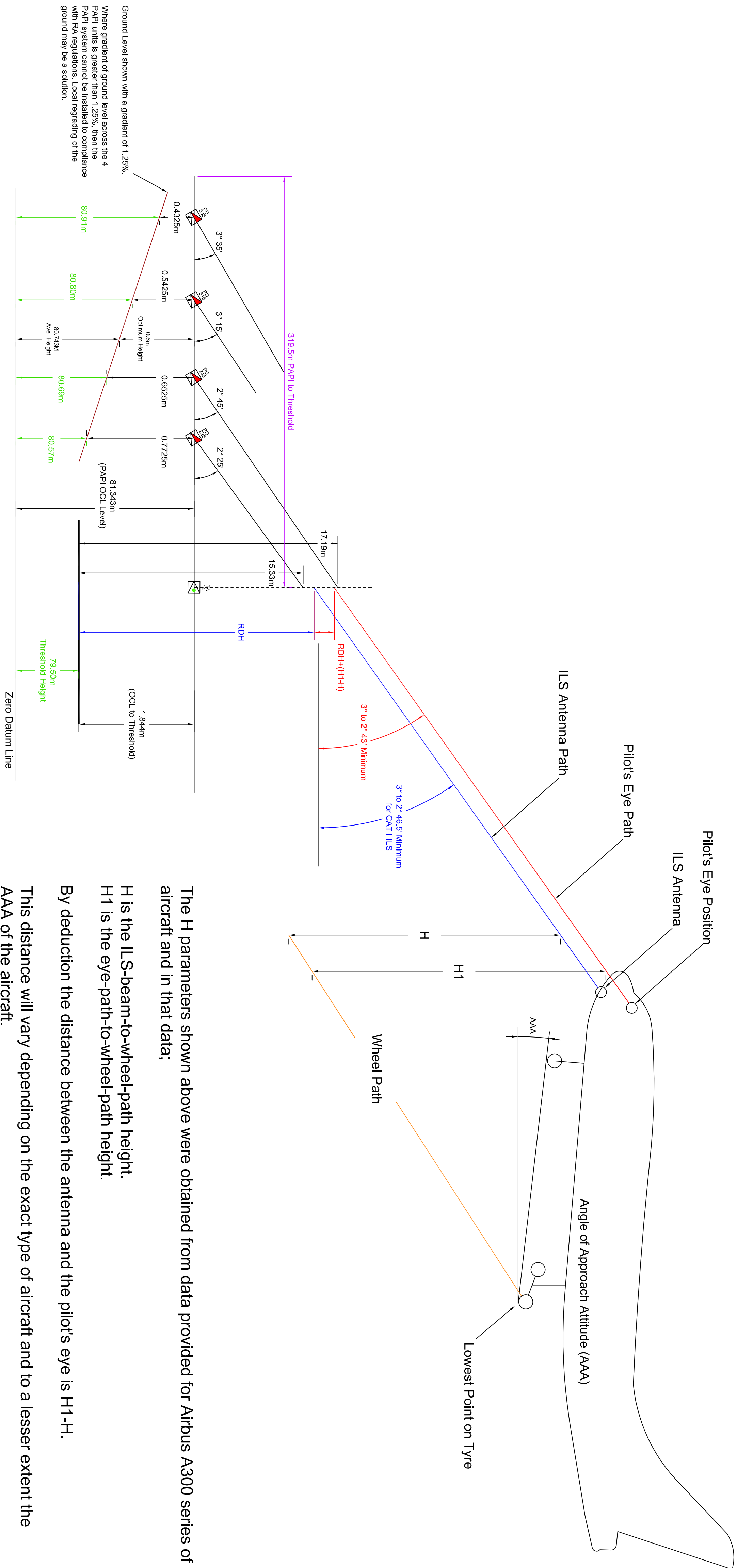
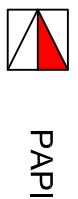
PROJECT

AGL Design Guide Typical Drawings

NOTES

Regulation RA 3515(8) applies

KEY



Desired Glideslope in Degrees and Minutes (θ)	3	0				
Desired MEHT	17					
Set OCL above Average GL	0.6					
Unit designation		PD225		PD245		PD315 PD335
Distance from PAPI units to Threshold	319.50					
Threshold Height	79.50					
Optical Centre of Lens (OCL)	81.343					
Height difference Threshold to OCL	1.8435					
GL at each base position						
Average GL across unit bases		80.57		80.69		80.80 80.91
Lens above GL			80.743			
PAPI Top above GL (max permitted is 0.9)		0.7725	0.6525		0.5425	0.4325
		0.8475	0.7275		0.6175	0.5075
Optimum Glideslope, in decimal degrees (θ)					3	
Angle of individual units, in decimal degrees		2.4167		2.75		3.25 3.5833
MEHT angle, in decimal degrees			2.7167			
Beam height above Threshold		15.33		17.19		19.99 21.85
Minimum Eye Height over Threshold (MEHT)						

Items in **Blue** are set by Aerodrome Authority; Items in **Green** are set by Topography; Items in **Magenta** to be set by PAPI designer; Items in **Black** and **Red** are by Excel calculation

The Table above is derived from the full Table as shown in Table 8.1 of the design document, with all the lines of the calculations hidden.

From Table 2 of RA 3515(8), we will assume that the eye-to-wheel height is between 8 and 14m. That implies that a minimum wheel clearance of 6m is required. Generally for medium to large aircraft H1 is 8m on average. Hence for the above MEHT - H1 (the wheel clearance) is approximately 10m.

For both the ILS and PAPI systems the parameters of the selected largest aircraft that predominates on the approach shall be given to the designers.

The visible colours from the light fixture shall be

White (or Clear) - None

Red - Solid

Blue - A Cross

Green - Small Circular Solid Disc

Blank - letter B

דברים - עמוד 1

Examples



ISSUE/REVISION

0	25 Sep 20	Issue 0
IR	DATE	DESCRIPTION

SHEET TITLE

PAPI Setting Out Schematic

SHEET NUMBER

DIO-VA-005