



Project: Dentholme, Cragg Road, Cleator Moor, CA25 5PR	Job No. 0010121	Sheet No. 412-01
Title: Hotel Building Rainwater Assessment	Prepared: MRV	Date: Jan. 2022
	Checked:	Date:

1.0 - DESIGN DATA

MAIN ROOF - PITCH - 25° - To 1st Floor
FLAT - To SINGLE STOREY EXISTING ANNEX

EXTERNAL - ROAD - TARMAC - EXISTING
TARMAC - NEW
PARKING - TARMAC - EXISTING
- TARMAC/GRAVEL - NEW

RAINFALL INTENSITY - AD H DIAG 2 = 0.012 Lt/Sec/m^2 - ROOF / PAVING

2.0 - EXISTING LAYOUT

For MAIN ROOF = $558.7 \times 1.29 \times 0.012 = 8.65$
FLAT " = $237.7 \times 0.012 = 2.85$
ANNEX = $57.4 \times 1.29 \times 0.012 = 0.89$
ROAD = $413.2 \times 0.012 = 4.96$

$= 17.35 \text{ Lt/Sec.}$

2.1 - PROPOSED LAYOUT

For MAIN ROOF = $615.9 \times 1.29 \times 0.012 = 9.53$
FLAT " = $79.4 \times 0.012 = 0.95$
ROAD " = $982.1 \times 0.012 = 11.78$
GRAVEL BAYS = $492 \times 0.012 = 5.90$

$= 28.16 \text{ Lt/Sec}$

POTENTIAL SPLIT

MAIN ACCESS ROAD DRAIN = 22.06 Lt/Sec.

ROAD DRAIN = 6.10 Lt/Sec.

} INCL. GRAVEL BAYS