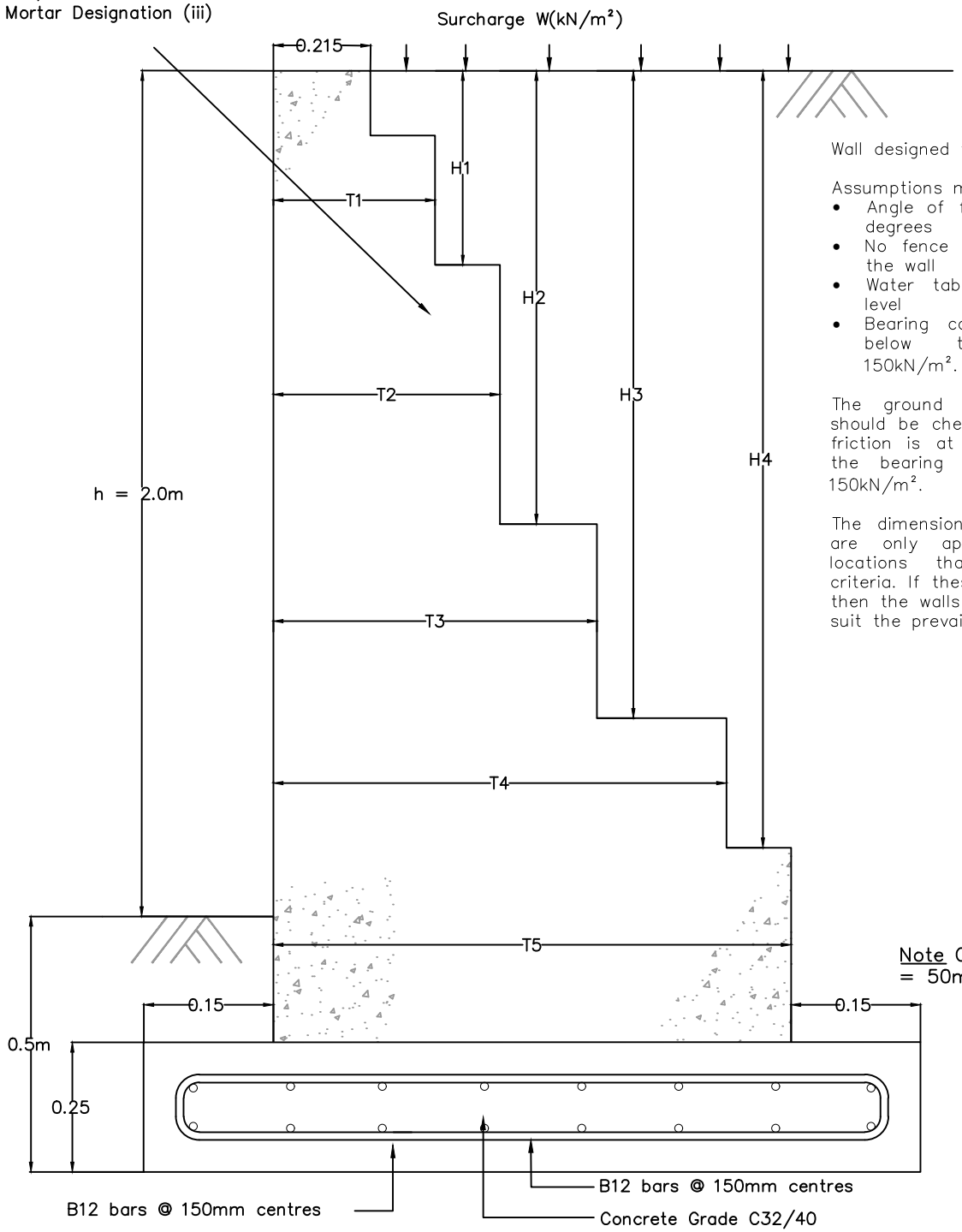
Rev.	Amendments	Date	Made By	Chk'd By

Concrete blocks
Compressive Strength of Unit = 10N/mm²
Mortar Designation (iii)



Wall designed to EC7.

Assumptions made for this design :

- Angle of friction on base = 35 degrees
- No fence or parapet is fixed to the wall
- Water table is below formation level
- Bearing capacity of the ground below the foundation is 150kN/m².

The ground below the foundation should be checked that the angle of friction is at least 35 degrees and the bearing capacity is at least 150kN/m².

The dimensions shown in the table are only applicable to walls at locations that meet the above criteria. If these criteria are not met then the walls should be designed to suit the prevailing factors.

Note Cover to reinforcement = 50mm

Retained Height h (m)	Surcharge W(KN/m2)	T1 (m)	T2 (m)	T3 (m)	T4 (m)	T5 (m)	H1 (m)	H2 (m)	H3 (m)	H4 (m)
2.0	12	0.35	0.5	0.725	1.0	1.225	0.4	0.75	1.05	1.35
	5	0.325	0.45	0.575	0.80	1.225	0.4	0.75	1.05	1.35
	0	0.325	0.475	0.7	0.875	–	0.4	0.9	1.4	–

MASONRY GRAVITY WALL (Height 2.0m)

COMMON STANDARDS FOR WALES HIGHWAY DESIGN GUIDE

Drawn	MT
Checked	SZ
Date	Feb '20
Scale	N.T.S.
Drg. No.	607
Rev.	