Max. Permissible Impact Loads

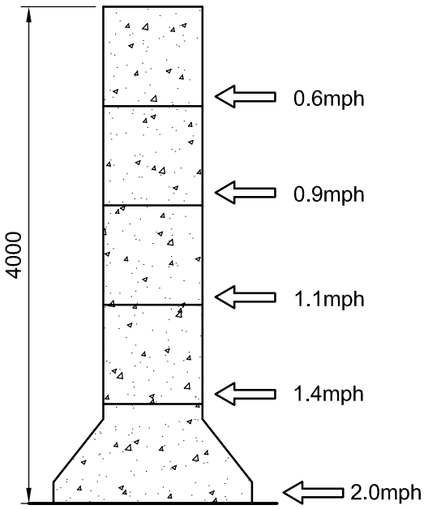
Allowable impact load speed based on:-

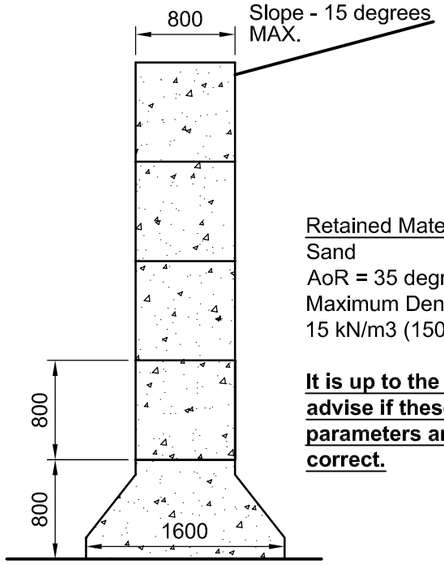
Vehicle (Maximum operating weight 20t)

Total allowable deflection - 100mm.

NOTE:-
Impact loads are the expected loads imposed on the wall by loading shovels, backhoes, buckets etc. carrying out NORMAL procedures of loading and unloading bays.

NOTE:-
Wall has **not** been designed for retained material to be compacted by vehicle driving over or on top of the retained material.

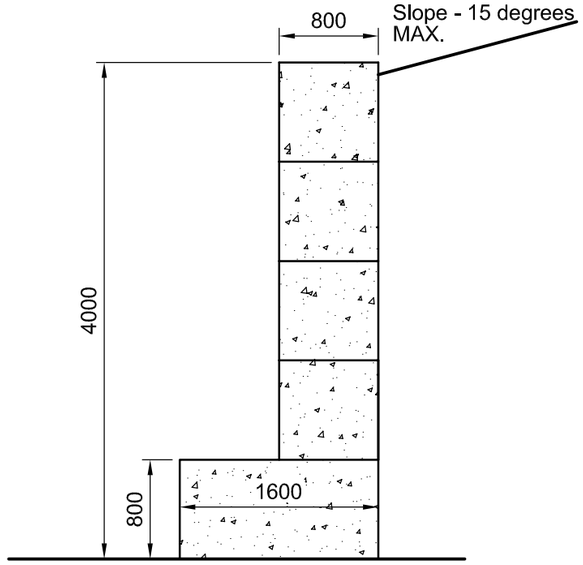




Retained Material:-
Sand
AoR = 35 degrees
Maximum Density
15 kN/m3 (1500 kgs/m3)

It is up to the client to advise if these parameters are not correct.

Important Note - The retained material should be allowed to naturally fall against the wall as it is stacked. Do not allow the retained material to stand up on its own as this could lead to a catastrophic failure of the material and the wall.
The wall has not been designed to withstand the impact of the retained material suddenly falling against the wall due to incorrect loading.



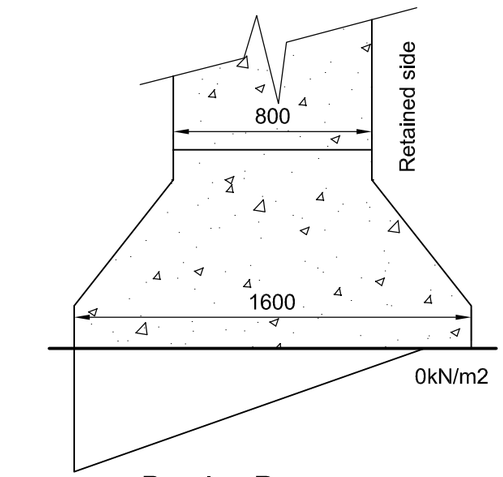
Design Parameters (1:50)

NOTES:-
1. The contractor should take all necessary measurements on site.
2. All dimensions shown on this drawing are approximate and for structural calculation purposes only.
3. Dimensions on this drawing should not be used for fabrication purposes.
4. Do not scale this drawing.
5. This drawing should be read in conjunction with the calculations.

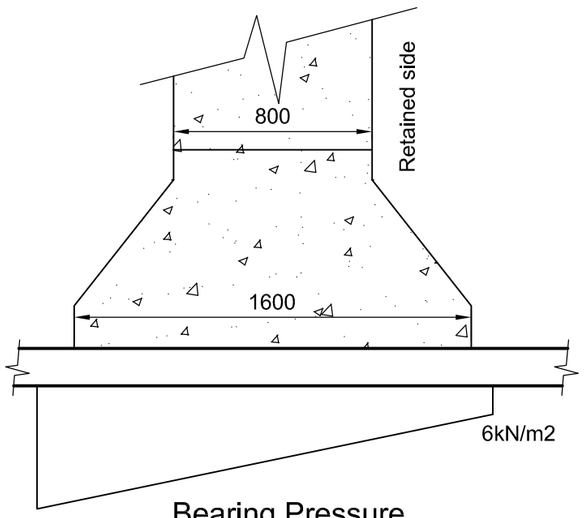
IMPORTANT NOTE
The existing slab and ground have not been investigated by CLP structures, the pressures exerted on the ground and slab are shown on this drawing, however **it is up to the client to satisfy himself that the existing ground and slab are adequate to support these loads.**

IMPORTANT NOTE
The wall has been designed to retain a specific material with a specific density and angle of repose. It is up to the client to ensure that the material retained on site does not exceed these designed parameters, failure to do so may result in he collapse of the wall.

NOTE:-
The bearing pressure beneath the wall is shown below. I**t is up to the client to ensure the ground and slab is adequate**, alternatively a foundation may be designed to suit allowable ground bearing pressures if required.



Bearing Pressure Directly Beneath Wall



Bearing Pressure Beneath 150mm slab

Bearing Pressures (1:25)

Rev	Description	By	Date	Chk'd
	Purpose of Issue	Rev	Date	Auth

CLP Structures
STRUCTURAL ENGINEERING CONSULTANTS
EMAIL: mail@CLP-Structures.co.uk
TEL: 0117 3706357

Client
Elite Precast Concrete Ltd.

Project
Elite Legato Wall

Title
5 Block High
Wall Design Options

Original Scale	Drawn	Rev – Checked
As noted	CEL	
	Date FEB 17	

Drawing Number 540–09

A3