



NOTES:

1. Precast concrete retaining blocks to be used. Type of block to be specified.
2. Terraforce blocks to be placed with off-set as shown and filled with well tamped approved soil or crushed gravel.
3. Infill soil (Backfill/ retained) to be granular, well drained and compacted in layers not exceeding 150mm at optimum moisture content.
4. Geosynthetic reinforcement filter material to be installed along cut-face, draining towards perforated drainage pipe.
5. Geosynthetic reinforcement sheets to be clamped between blocks and be pulled taut prior to placement of backfill material.
6. Stormwater cut-off drain to be constructed behind and along crest of wall, to prevent water to drain onto face of wall.
7. Foundation excavation to be inspected by the Engineer.
8. Existing services in front of proposed wall, running parallel to the proposed foundation, have to be re-excavated and the trench be backfilled with 6% cement stabilised fill compacted 90% mod AASHTO at optimum moisture content.
9. Excavation of trenches in front of wall not allowed once the retaining wall has been constructed.
10. Maximum superimposed load, surcharge, on retaining soil as indicated in the design table.
11. Concrete keys (Where required) to be class 1 mortar or 20MPa concrete or 19mm crushed stone or by tilting back the foundation a few degrees (Base Angle "y").
12. Concrete keys (Where required) to be installed as per precast concrete retaining blocks Design and Construction Manual of 1992 and 2009.

TERRAFORCE GRAVITY RETAINING WALL DETAILS

BLOCKS	VALUE	WALL	WALL
BLOCK TYPE	Precast Retaining block	HEIGHT (H)	Varies
OFF-SET	105mm	TILT ANGLE (b)	60
WIDTH	425mm	BACK SLOPE (i)	
HEIGHT	Varies	HEIGHT WITH KEYS (Hk)	Varies
KEYS	See Note 11 and 12	KEYLESS HEIGHT (Ho)	Varies
DRAINAGE LAYER WIDTH (c)	1000mm	SURCHARGE (KN/m ²)	Varies
		BASE ANGLE (y)	
		CONSTRUCTED MASS (Kg/m ²)	

DETAIL 1

				SCALE:	NTS	DESIGNER:		CLIENT:	Cnr Leyds & Simmonds Street Shosholozza Meyl Junction Braamfontein	CONTRACTOR:		WORK DESCRIPTION
				DRAWN:		DISCIPLINE:						Construction of slope protection at Mayfair Station
				CHECKED:		PROJECT LEADER:						
				DWG. FILE NAME:		CLIENT:						
23/09/2022	AS	FOR BRIEFING										
REV	DATE	BY	DESCRIPTION	CHECKED	APPROD							