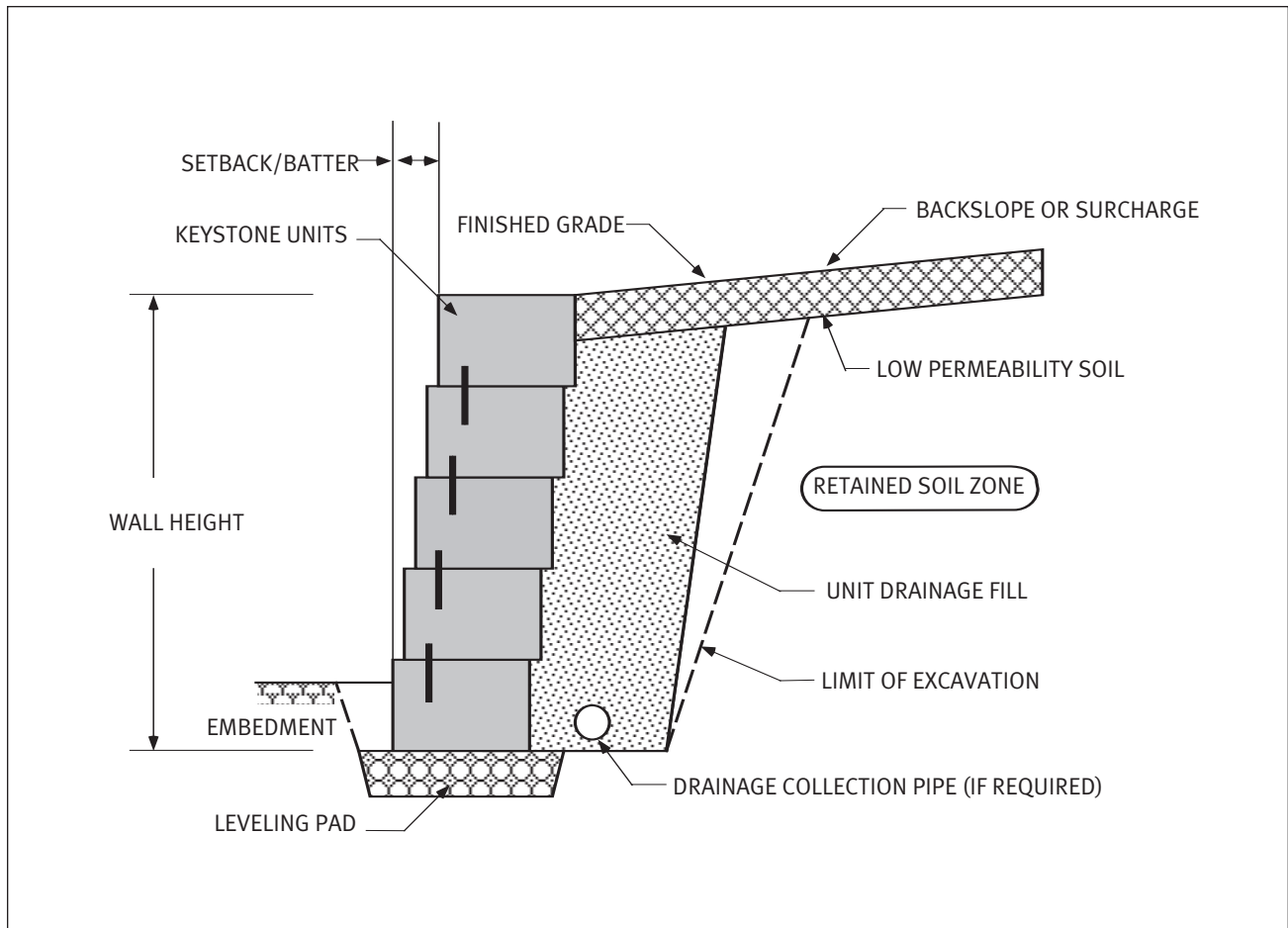


D E S I G N C H A R T S

GRAVITY WALL SCHEMATIC

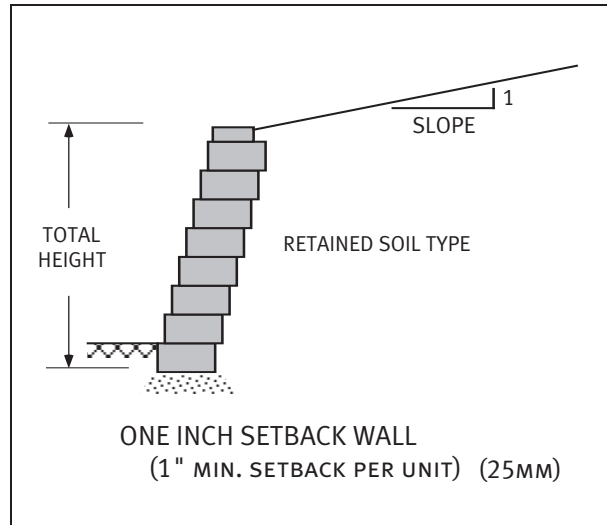
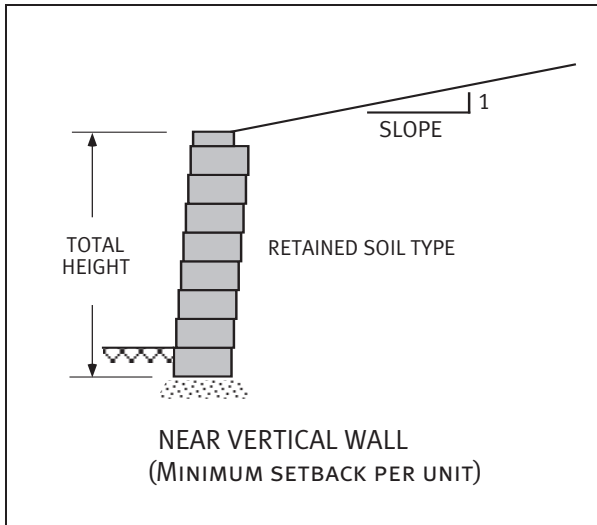


NOTES:

- ▶ Wall Height (H) is the total height from top to bottom.
- ▶ Minimum wall embedment is 6" (150mm) or Height/20, whichever is greater for level toe.
- ▶ Subsurface soils must be capable of supporting wall system.
- ▶ Unit drainage fill is 3/4" (20mm) clean crushed stone.
- ▶ Leveling pad is crushed stone base material.
- ▶ All backfill materials are compacted to 95% max. density.
- ▶ Finished grade must provide positive drainage.
- ▶ The symbol — (5.0') indicates location and length of geogrid as measured from the connection pins to the end of the geogrid.

D E S I G N C H A R T S

► **GRAVITY WALL TABLES**



► **STANDARD/STANDARD II UNITS (18")**

MAX. HGT.	BACKSLOPE			
	LEVEL	4H:1V	3H:1V	2H:1V
SOIL TYPE	LEVEL	4H:1V	3H:1V	2H:1V
SAND/GRAVEL	4.3' (1.3M)	4.0' (1.2M)	3.8' (1.2M)	3.4' (1.0M)
SILTY SAND	4.0' (1.2M)	3.6' (1.1M)	3.4' (1.0M)	3.0' (0.9M)
SILT/LEAN CLAY	3.6' (1.1M)	3.2' (1.0M)	3.1' (0.9M)	2.1' (0.6M)

► **STANDARD/STANDARD II UNITS (18")**

MAX. HGT.	BACKSLOPE			
	LEVEL	4H:1V	3H:1V	2H:1V
SOIL TYPE	LEVEL	4H:1V	3H:1V	2H:1V
SAND/GRAVEL	5.7' (1.7M)	5.2' (1.6M)	5.0' (1.5M)	4.5' (1.4M)
SILTY SAND	5.1' (1.6M)	4.6' (1.4M)	4.3' (1.3M)	3.7' (1.1M)
SILT/LEAN CLAY	4.6' (1.4M)	4.0' (1.2M)	3.8' (1.1M)	2.5' (0.7M)

► **STANDARD UNITS (21.5")**

MAX. HGT.	BACKSLOPE			
	LEVEL	4H:1V	3H:1V	2H:1V
SOIL TYPE	LEVEL	4H:1V	3H:1V	2H:1V
SAND/GRAVEL	5.2' (1.6M)	4.7' (1.5M)	4.6' (1.4M)	4.1' (1.2M)
SILTY SAND	4.7' (1.4M)	4.3' (1.3M)	4.1' (1.2M)	3.6' (1.1M)
SILT/LEAN CLAY	4.4' (1.3M)	3.9' (1.2M)	3.7' (1.1M)	2.9' (0.9M)

► **STANDARD UNITS (21.5")**

MAX. HGT.	BACKSLOPE			
	LEVEL	4H:1V	3H:1V	2H:1V
SOIL TYPE	LEVEL	4H:1V	3H:1V	2H:1V
SAND/GRAVEL	6.8' (2.1M)	6.2' (1.9M)	5.9' (1.8M)	5.3' (1.6M)
SILTY SAND	6.1' (1.9M)	5.5' (1.7M)	5.2' (1.6M)	4.4' (1.3M)
SILT/LEAN CLAY	5.3' (1.6M)	4.5' (1.4M)	4.1' (1.2M)	3.2' (1.0M)

NOTES: CALCULATIONS ASSUME A UNIT WEIGHT OF 120 LBS/CF (19KN/SQM) FOR ALL SOIL TYPES. ASSUMED ϕ ANGLES FOR EARTH PRESSURE CALCULATIONS ARE: SAND/GRAVEL=34°, SILTY SAND=30°, AND SANDY SILT/LEAN CLAY=26°. NON CRITICAL STRUCTURES WITH SF>1.5. NO SURCHARGE LOADINGS ARE INCLUDED. SURCHARGES OR SPECIAL LOADING CONDITIONS WILL REDUCE MAXIMUM WALL HEIGHTS. SLIDING CALCULATIONS ASSUME A 6" (150MM) CRUSHED STONE LEVELLING PAD AS COMPACTED FOUNDATION MATERIAL. THE INFORMATION PROVIDED IS FOR PRELIMINARY DESIGN USE ONLY. A QUALIFIED PROFESSIONAL SHOULD BE CONSULTED. KEYSTONE ACCEPTS NO LIABILITY FOR THE IMPROPER USE OF THESE TABLES.