RIDGEWALL® SRW SYSTEM

The strong and bold Ridgewall® SRW (Segmental Retaining Wall) System provides an attractive solution for most heavy duty load-bearing vertical applications. Create large sweeping vistas, cascading staircases and striking angles; choosing either a dramatic rustic or a modern smooth profile. **For more information about the Ridgewall®, contact us at 1-800-BESTWAY or visit us at bestwaystone.com**

WOODBRIDGE
8821 Weston Rd.
Woodbridge, ON L4L 1A6

UXBRIDGE
63 Anderson Blvd.
Uxbridge, ON L9P 0C7

SUPERIOR QUALITY. TRUSTED SERVICE. CONTINUED INNOVATION.

BWS BEST WAY STONE®

//PAVERS //WALLS //STEPS //SLABS //CURBS

the **RidgeWall®** SRW System

The RidgeWall® segmental retaining wall (SRW) system is a modular system primarily used to retain and stabilize large and small areas of earth, through both sheer weight and strategic design.

Providing a rustic or modern aesthetic, the RidgeWall® can be used in many applications. From landscape applications requiring walls under 4 ft in height, with minimal retained loads to applications including large retaining walls, vertical and set-back as high as 20-30 feet.

The RidgeWall® system has a number of unique features that provide advantages to both the designer and the installer of the wall.

The RidgeWall® system provides integrated pre-marked 45° and 90° corners so that designs can be pre-constructed to avoid block manipulation on site. The system also has a patent pending ridge and key locking system that allows the wall to be erected vertically, set-back, reversed, or any combination of the three without any separate pins or clips required.

The units are drystacked and do not require mortar due to the size and weight of each unit. This saves time and money on the job site as the units are installed quickly and easily.

BEST PRACTICE: When installing the RidgeWall® system, ensure to install the units ridge-to-ridge and key-to-key where possible.

COLOURS

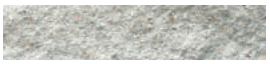
BLOCK

grey

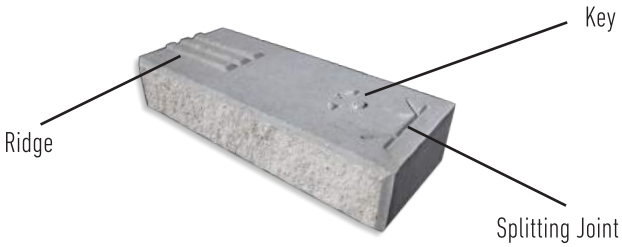
COPING

beige mix

grey mix



grey



PACKAGING

	block	45 corner	90 corner	coping
Units/Skid:	6	6	6	6
Sqft/Unit:	2.10	2.25	2.87	2.10
Sqft/Skid:	13.23	13.5	17.22	12.6
m^2/Unit:	0.20	0.21	0.27	0.20
m^2/Skid:	1.20	1.26	1.62	1.20
lin. ft/Unit:	3.28	3.57	4.49	3.28
lin. ft/Skid:	19.68	21.45	26.97	19.68
lin. m/Unit:	1	1.09	1.37	1
lin. m/Skid:	6	6.56	8.24	6

SIZES & WEIGHTS

BLOCK UNIT

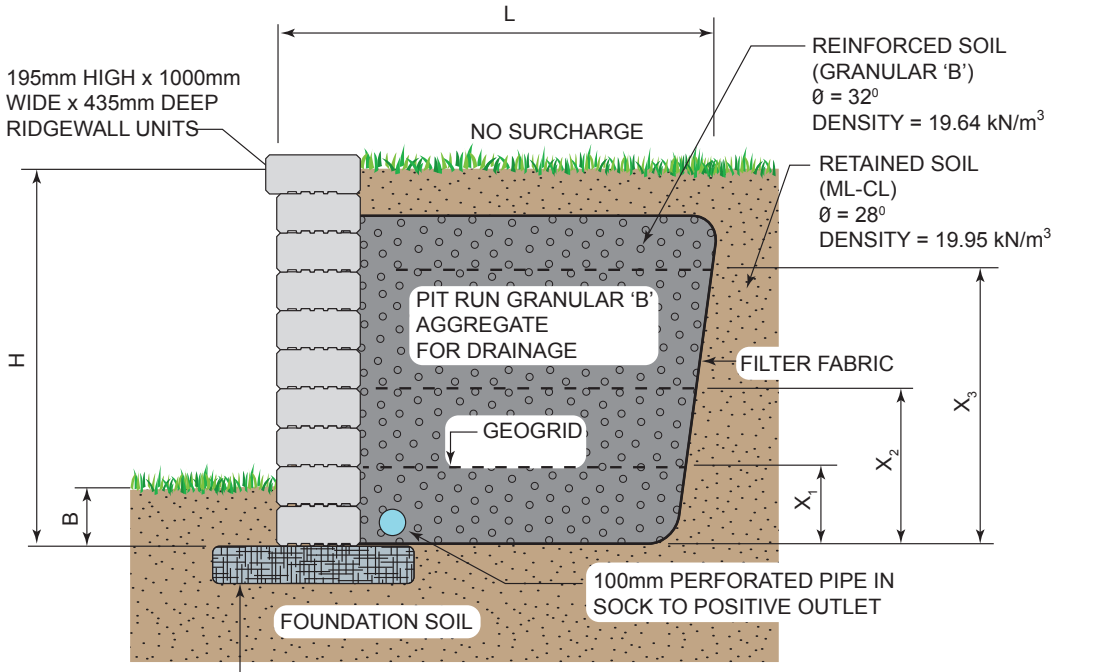
45° CORNER UNIT

90° CORNER UNIT

COPING UNIT

	BLOCK UNIT	45° CORNER UNIT	90° CORNER UNIT	COPING UNIT
WIDTH	1000 mm / 39.4 in	937.5 mm / 36.9 in	1000mm / 39.4 in	1000 mm / 39.4 in
HEIGHT	195 mm / 7.68 in	195 mm / 7.68 in	195 mm / 7.68 in	195 mm / 7.68 in
DEPTH	435 mm / 17.1 in	435 mm / 17.1 in	435 mm / 17.1 in	500 mm / 19.7 in
WEIGHT	395 lbs / 179.2 kg	390 lbs / 176.9 kg	371 lbs / 168.3 kg	497 lbs / 225.4 kg

Suggested Grid Position - Vertical or Set Back (No Surcharge Pedestrian)

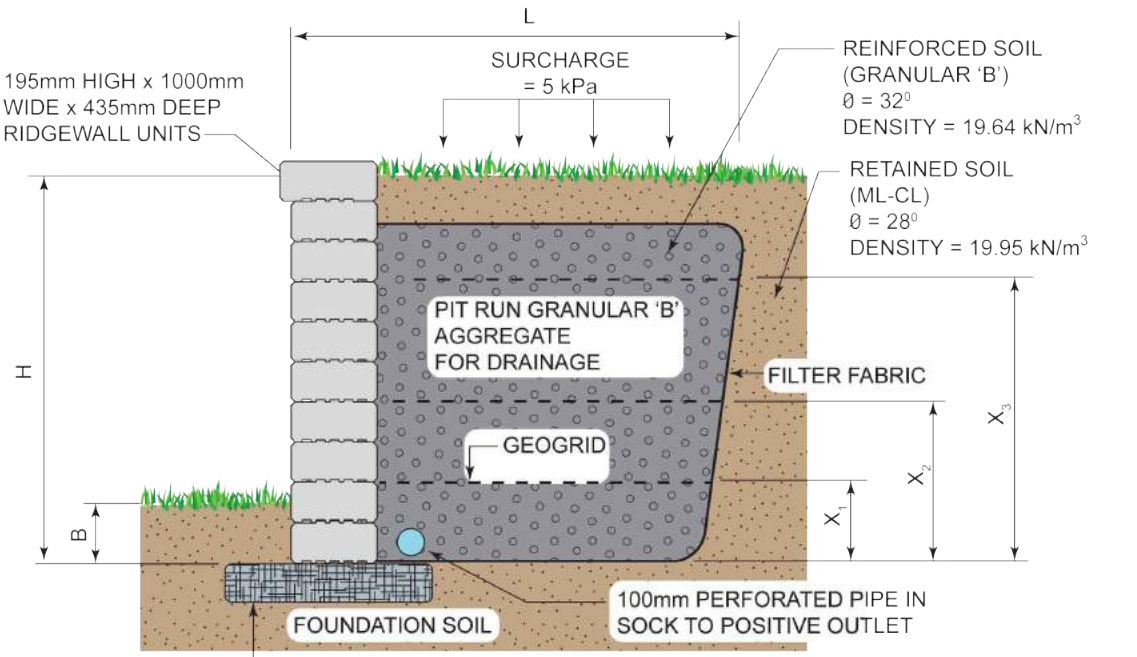


GEOGRID REINFORCED RIDGEWALL
CROSS SECTION WITH LEVEL BACKFILL
AND NO SURCHARGE

H HEIGHT (m)	B EMBEDMENT (m)	Geogrid Type	NUMBER OF GEOGRID LAYERS	L LENGTH (m)	GEOGRID POSITION (# of courses above levelling pad)				
					X_1	X_2	X_3	X_4	X_5
1.0	0.2	Mirafi 5XT	1	1.20	2				
1.2	0.2	Mirafi 5XT	1	1.20	2				
1.4	0.2	Mirafi 5XT	2	1.20	1	3			
1.6	0.2	Mirafi 5XT	2	1.30	1	4			
1.8	0.2	Mirafi 5XT	2	1.60	1	5			
2.0	0.2	Mirafi 5XT	2	1.75	2	6			
2.2	0.4	Mirafi 5XT	3	1.90	1	3	7		
2.4	0.4	Mirafi 5XT	3	2.00	1	4	8		
2.6	0.4	Mirafi 5XT	3	2.15	1	5	9		
2.8	0.4	Mirafi 5XT	3	2.25	2	6	10		
3.0	0.4	Mirafi 5XT	4	2.40	1	3	7	11	
3.2	0.4	Mirafi 5XT	4	2.50	1	4	8	12	
3.4	0.4	Mirafi 5XT	4	2.65	1	5	9	13	
3.6	0.4	Mirafi 5XT	4	2.80	2	6	10	14	
3.8	0.4	Mirafi 5XT	5	2.90	1	3	7	11	15

*DESIGN BASED ON COMPETENT FOUNDATION CONDITIONS

Suggested Grid Position - Vertical or Set Back (5 kpa Light Vehicular)

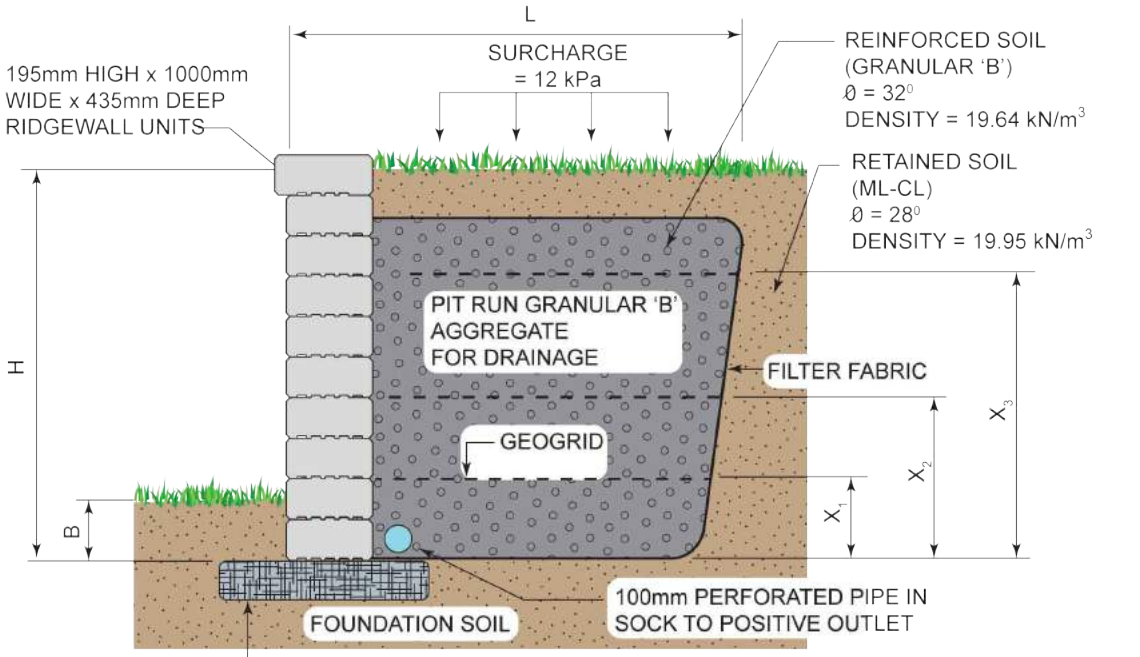


GEOGRID REINFORCED RIDGEWALL
CROSS SECTION WITH LEVEL BACKFILL
5 kPa SURCHARGE

H HEIGHT (m)	B EMBEDMENT (m)	GEOGRID TYPE	# OF GEOGRID LAYERS	L LENGTH (m)	GEOGRID POSITION								
					X_1	X_2	X_3	X_4	X_5	X_6	X_7	X_8	X_9
0.975	0.195	Miragrid 2XT	2	1.2	1	4							
1.17	0.195	Miragrid 2XT	2	1.2	1	4							
1.365	0.195	Miragrid 2XT	3	1.4	1	3	6						
1.56	0.195	Miragrid 2XT	3	1.4	1	4	7						
1.755	0.195	Miragrid 2XT	3	1.5	1	4	7						
1.95	0.195	Miragrid 2XT	4	1.7	1	3	6	9					
2.145	0.195	Miragrid 2XT	4	1.7	1	4	7	10					
2.34	0.195	Miragrid 2XT	4	1.8	1	4	7	10					
2.535	0.195	Miragrid 2XT	5	2.1	1	3	6	9	12				
2.73	0.195	Miragrid 2XT	5	2.1	1	4	7	10	13				
2.925	0.195	Miragrid 2XT	5	2.1	1	4	7	10	13				
3.12	0.195	Miragrid 3XT	6	2.4	1	3	6	9	12	15			
3.315	0.195	Miragrid 3XT	6	2.4	1	4	7	10	13	16			
3.51	0.195	Miragrid 3XT	6	2.5	1	4	7	10	13	16			
3.705	0.195	Miragrid 3XT	7	2.7	1	3	6	9	12	15	18		
3.9	0.195	Miragrid 3XT	7	2.7	1	4	7	10	13	16	19		
4.095	0.195	Miragrid 3XT	7	2.8	1	4	7	10	13	16	19		
4.29	0.195	Miragrid 3XT	8	3	1	3	6	9	12	15	18	21	
4.485	0.195	Miragrid 3XT	8	3	1	4	7	10	13	16	19	22	
4.68	0.195	Miragrid 3XT	8	3.1	1	4	7	10	13	16	19	22	
4.875	0.195	Miragrid 3XT	9	3.3	1	3	6	9	12	15	18	21	24
5.07	0.195	Miragrid 5XT	9	3.4	1	4	7	10	13	16	19	22	25

*DESIGN BASED ON COMPETENT FOUNDATION CONDITIONS

Suggested Grid Position - Vertical or Set Back (12 kpa Heavy Vehicular)

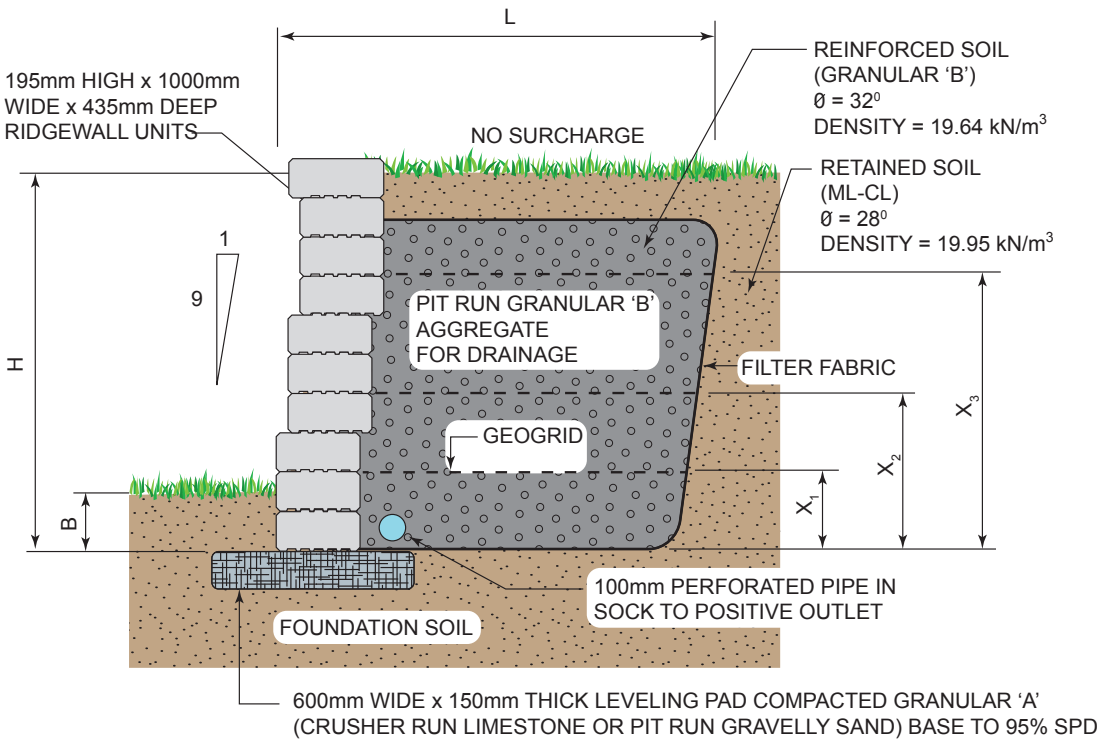


GEOGRID REINFORCED RIDGEWALL
CROSS SECTION WITH LEVEL BACKFILL
12 kPa SURCHARGE

H HEIGHT (m)	B EMBEDMENT (m)	GEOGRID TYPE	# OF GEOGRID LAYERS	L LENGTH (m)	GEOGRID POSITION								
					X_1	X_2	X_3	X_4	X_5	X_6	X_7	X_8	X_9
0.78	0.195	Miragrid 2XT	1	1.2	1								
0.975	0.195	Miragrid 2XT	2	1.2	1	4							
1.17	0.195	Miragrid 2XT	2	1.4	1	4							
1.365	0.195	Miragrid 2XT	3	1.6	1	3	6						
1.56	0.195	Miragrid 2XT	3	1.6	1	4	7						
1.755	0.195	Miragrid 2XT	3	1.6	1	4	7						
1.95	0.195	Miragrid 2XT	4	1.9	1	3	6	9					
2.145	0.195	Miragrid 2XT	4	1.9	1	4	7	10					
2.34	0.195	Miragrid 2XT	4	1.9	1	4	7	10					
2.535	0.195	Miragrid 2XT	5	2.2	1	3	6	9	12				
2.73	0.195	Miragrid 3XT	5	2.2	1	4	7	10	13				
2.925	0.195	Miragrid 3XT	5	2.3	1	4	7	10	13				
3.12	0.195	Miragrid 3XT	6	2.5	1	3	6	9	12	15			
3.315	0.195	Miragrid 3XT	6	2.5	1	4	7	10	13	16			
3.51	0.195	Miragrid 3XT	6	2.6	1	4	7	10	13	16			
3.705	0.195	Miragrid 3XT	7	2.8	1	3	6	9	12	15	18		
3.9	0.195	Miragrid 3XT	7	2.9	1	4	7	10	13	16	19		
4.095	0.195	Miragrid 3XT	7	3.1	1	4	7	10	13	16	19		
4.29	0.195	Miragrid 3XT	8	3.2	1	3	6	9	12	15	18	21	
4.485	0.195	Miragrid 3XT	8	3.2	1	4	7	10	13	16	19	22	
4.68	0.195	Miragrid 3XT	8	3.3	1	4	7	10	13	16	19	22	
4.875	0.195	Miragrid 5XT	9	3.6	1	3	6	9	12	15	18	21	24
5.07	0.195	Miragrid 5XT	9	3.6	1	4	7	10	13	16	19	22	25

*DESIGN BASED ON COMPETENT FOUNDATION CONDITIONS

Suggested Grid Position - 6 Degree Set Back (No Surcharge Pedestrain)

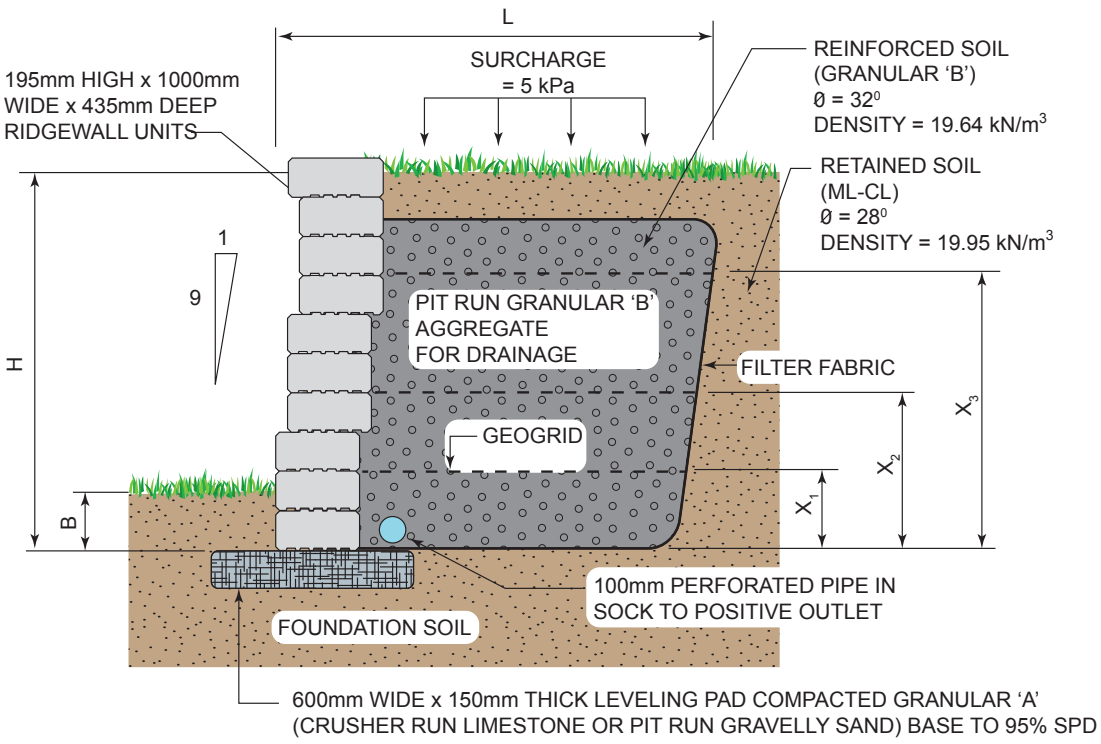


GEOGRID REINFORCED RIDGEWALL
CROSS SECTION WITH LEVEL BACKFILL
AND NO SURCHARGE

H HEIGHT (m)	B EMBEDMENT (m)	Geogrid Type	NUMBER OF GEOGRID LAYERS	L LENGTH (m)	GEOGRID POSITION (# of courses above levelling pad)				
					X_1	X_2	X_3	X_4	X_5
1.0	0.2	Mirafi 5XT	1	1.50	2				
1.2	0.2	Mirafi 5XT	1	1.50	2				
1.4	0.2	Mirafi 5XT	2	1.50	1	4			
1.6	0.2	Mirafi 5XT	2	1.50	1	4			
1.8	0.2	Mirafi 5XT	2	1.50	1	5			
2.0	0.2	Mirafi 5XT	2	1.75	2	6			
2.2	0.4	Mirafi 5XT	3	1.75	1	4	7		
2.4	0.4	Mirafi 5XT	3	2.00	1	4	8		
2.6	0.4	Mirafi 5XT	3	2.00	1	5	9		
2.8	0.4	Mirafi 5XT	3	2.25	2	6	10		
3.0	0.4	Mirafi 5XT	4	2.25	1	4	7	11	
3.2	0.4	Mirafi 5XT	4	2.25	1	4	8	12	
3.4	0.4	Mirafi 5XT	4	2.50	1	5	9	13	
3.6	0.4	Mirafi 5XT	4	2.50	2	6	10	14	
3.8	0.4	Mirafi 5XT	5	2.75	1	4	7	11	15

*DESIGN BASED ON COMPETENT FOUNDATION CONDITIONS

Suggested Grid Position - 6 Degree Set Back (5 kpa Light Vehicular)

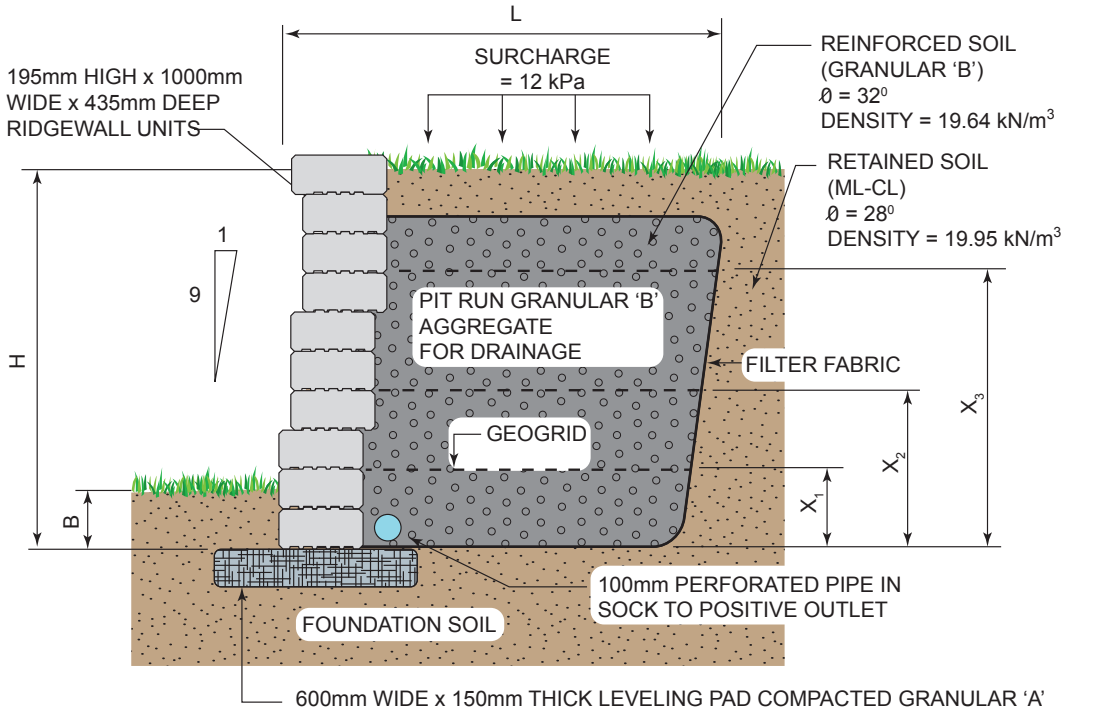


GEOGRID REINFORCED RIDGEWALL
CROSS SECTION WITH LEVEL BACKFILL
5 kPa SURCHARGE

H HEIGHT (m)	B EMBEDMENT (m)	Geogrid Type	NUMBER OF GEOGRID LAYERS	L LENGTH (m)	GEOGRID POSITION (# of courses above levelling pad)				
					X_1	X_2	X_3	X_4	X_5
1.0	0.2	Mirafi 5XT	1	1.50	2				
1.2	0.2	Mirafi 5XT	1	1.50	2				
1.4	0.2	Mirafi 5XT	2	1.50	1	4			
1.6	0.2	Mirafi 5XT	2	1.50	1	4			
1.8	0.2	Mirafi 5XT	2	1.50	1	5			
2.0	0.2	Mirafi 5XT	2	1.75	2	6			
2.2	0.4	Mirafi 5XT	3	1.75	1	4	7		
2.4	0.4	Mirafi 5XT	3	2.00	1	4	8		
2.6	0.4	Mirafi 5XT	3	2.00	1	5	9		
2.8	0.4	Mirafi 5XT	3	2.25	2	6	10		
3.0	0.4	Mirafi 5XT	4	2.25	1	4	7	11	
3.2	0.4	Mirafi 5XT	4	2.25	1	4	8	12	
3.4	0.4	Mirafi 5XT	4	2.50	1	5	9	13	
3.6	0.4	Mirafi 5XT	4	2.50	2	6	10	14	
3.8	0.4	Mirafi 5XT	5	2.75	1	4	7	11	15

*DESIGN BASED ON COMPETENT FOUNDATION CONDITIONS

Suggested Grid Position - 6 Degree Set Back (12 kpa Heavy Vehicular)

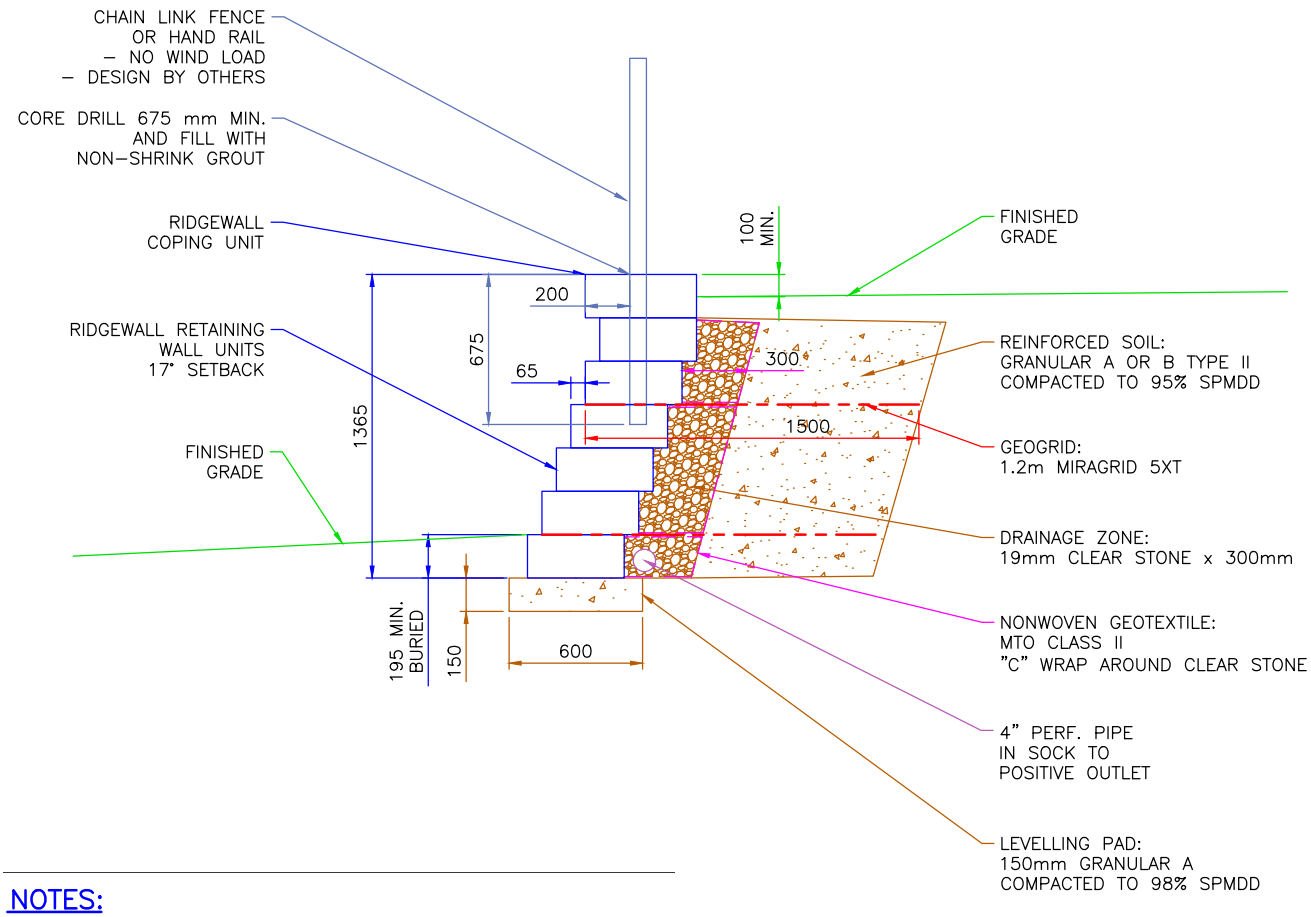


GEOGRID REINFORCED RIDGEWALL
CROSS SECTION WITH LEVEL BACKFILL
12 kPa SURCHARGE

H HEIGHT (m)	B EMBEDMENT (m)	Geogrid Type	NUMBER OF GEOGRID LAYERS	L LENGTH (m)	GEOGRID POSITION (# of courses above levelling pad)				
					X_1	X_2	X_3	X_4	X_5
1.0	0.2	Mirafi 5XT	1	1.50	2				
1.2	0.2	Mirafi 5XT	1	1.50	2				
1.4	0.2	Mirafi 5XT	2	1.50	1	4			
1.6	0.2	Mirafi 5XT	2	1.50	2	5			
1.8	0.2	Mirafi 5XT	2	1.50	2	5			
2.0	0.2	Mirafi 5XT	2	1.75	1	4	7		
2.2	0.4	Mirafi 5XT	3	1.75	1	4	7		
2.4	0.4	Mirafi 5XT	3	2.00	2	5	8		
2.6	0.4	Mirafi 5XT	3	2.00	2	5	9		
2.8	0.4	Mirafi 5XT	3	2.25	1	4	7	10	
3.0	0.4	Mirafi 5XT	4	2.25	1	4	7	11	
3.2	0.4	Mirafi 5XT	4	2.25	1	4	8	12	
3.4	0.4	Mirafi 5XT	4	2.50	1	5	9	13	
3.6	0.4	Mirafi 5XT	4	2.50	1	4	7	10	14
3.8	0.4	Mirafi 5XT	5	2.75	1	4	7	11	15

*DESIGN BASED ON COMPETENT FOUNDATION CONDITIONS

Typical Cross Section - Core Drilled Fence



NOTES:

1. THE GEOGRID REINFORCING SHALL BE MIRAGRID 5XT.

2. THE GEOGRID SHALL BE INSTALLED AT THE LOCATIONS INDICATED. THE EMBEDMENT LENGTH (L) SHALL BE MEASURED PERPENDICULAR TO THE WALL FACE.

3. THE REINFORCED SOIL SHALL BE:
   3.1. GRANULAR A OR B TYPE II,
   3.2. PLACED IN 195 mm MAX. COMPACTED LIFTS, AND
   3.3. COMPACTED TO 95% SPMDD.

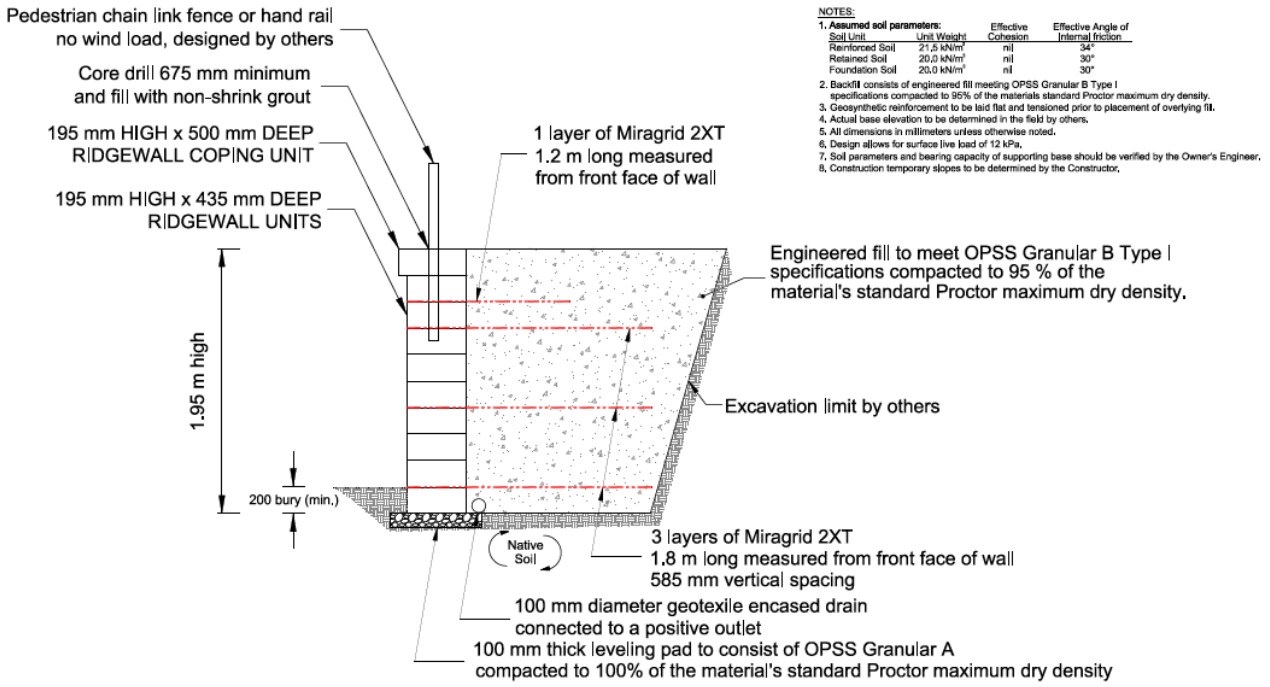
4. THE RIDGEWALL COPING UNITS SHALL BE:
   4.1. 100 mm MIN. PROUD OF THE FINISHED GRADE BEHIND THE TOP OF THE WALL, AND
   4.2. GLUED TO THE COURSE BELOW WITH SUITABLE & ADEQUATE CONCRETE ADHESIVE.

5. NO WIND LOAD SHALL BE APPLIED BY THE FENCE OR HAND RAIL TO THE RETAINING WALL.

6. THE POSTS SHALL BE SET INTO THE CORE DRILLED HOLE FILLED WITH NON–SHRINK GROUT.

7. THIS GENERIC DESIGN IS NOT FOR CONSTRUCTION. A PROJECT SPECIFIC DESIGN SHALL BE PRODUCED BASED ON THE SPECIFIC SITE AND LOADING CONDITIONS.

Engineering Services Available



NOTES:

1. Assumed soil parameters:

Soil Unit	Unit Weight	Effective Cohesion	Effective Angle of Internal Friction
Reinforced Soil	21,5 kN/m³	nil	34°
Retained Soil	20,0 kN/m³	nil	30°
Foundation Soil	20,0 kN/m³	nil	30°

2. Backfill consists of engineered fill meeting OPSS Granular B Type I specifications compacted to 95% of the materials standard Proctor maximum dry density.
3. Geosynthetic reinforcement to be laid flat and tensioned prior to placement of overlying fill.
4. Actual base elevation to be determined in the field by others.
5. All dimensions in millimeters unless otherwise noted.
6. Design allows for surface live load of 12 kPa.
7. Soil parameters and bearing capacity of supporting base should be verified by the Owner's Engineer.
8. Construction temporary slopes to be determined by the Constructor.

TYPICAL CROSS SECTION (1.95 m HIGH MAXIMUM)

RidgeWall MSE Retaining Wall
East Wall – 1.74 m Exposed Height

REVISIONS

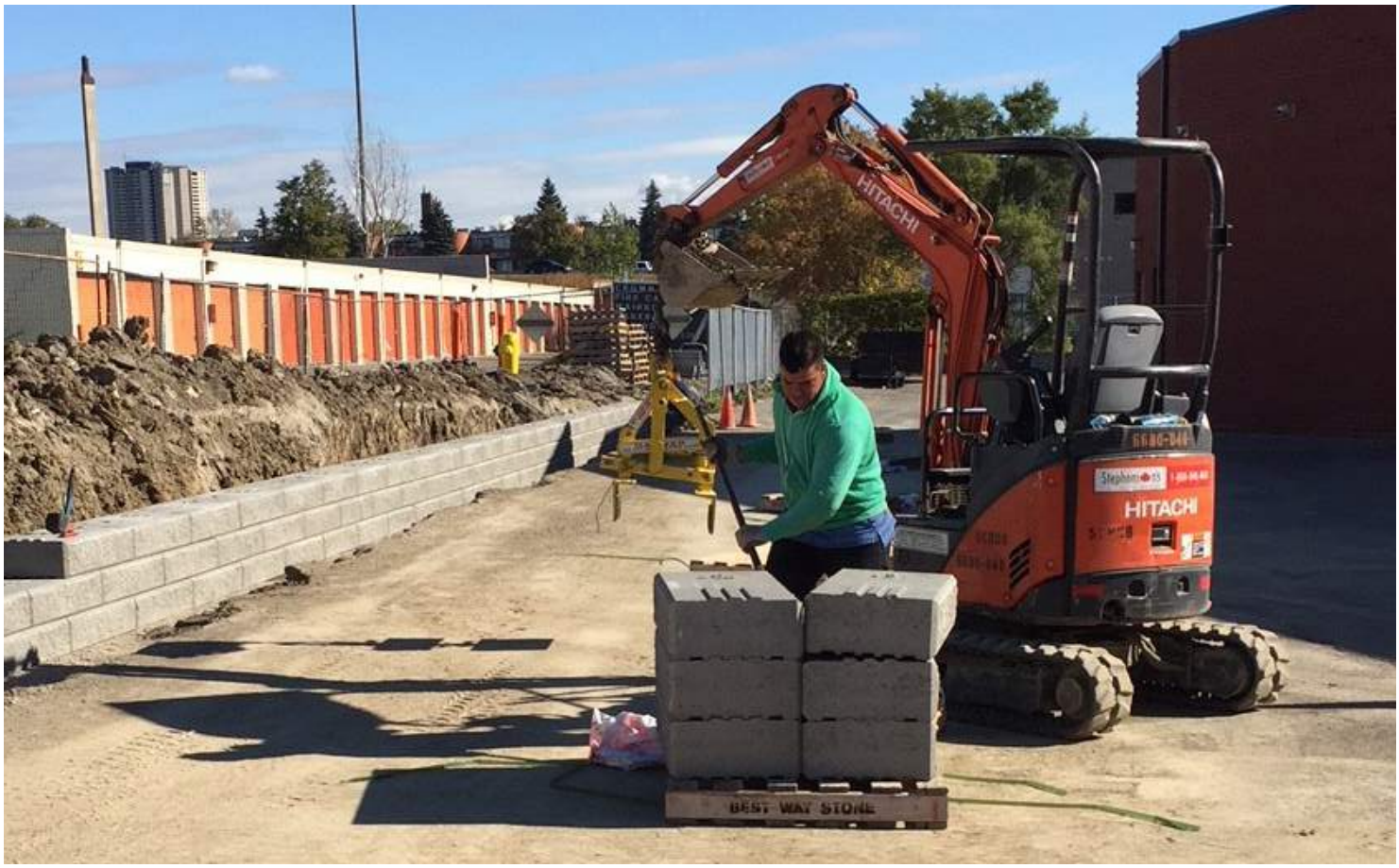
NO.	DESCRIPTION	DATE	INITIAL
0.	ISSUED FOR REVIEW	1 OCT 2018	CA
1.	ISSUED FOR CONSTRUCTION	2 OCT 2018	CA
2.			

DESIGNED BY: CA	APPROVED BY: CA	PROJECT NO: 18.033
DATE: October 2018	SCALE: 1:25	DRAWING # 1 of 3

BWS BEST WAY STONE


U-LOC

Easy Installation / Ridge to Ridge & Key to Key Where Possible


HITACHI
HITACHI
BEST WAY STONE


HITACHI

Easy Installation / Corners & Terracing