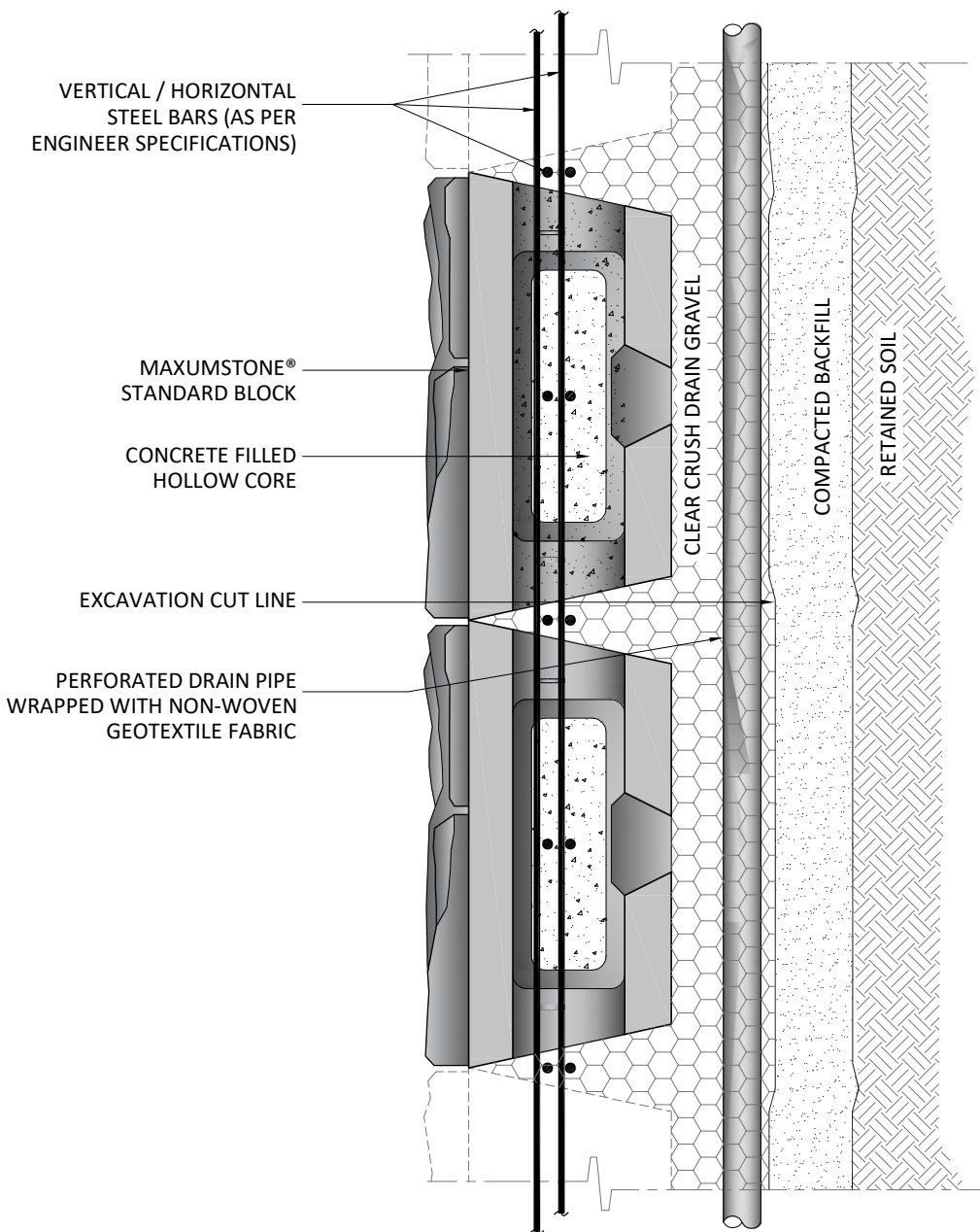




**ISOMETRIC VIEW**

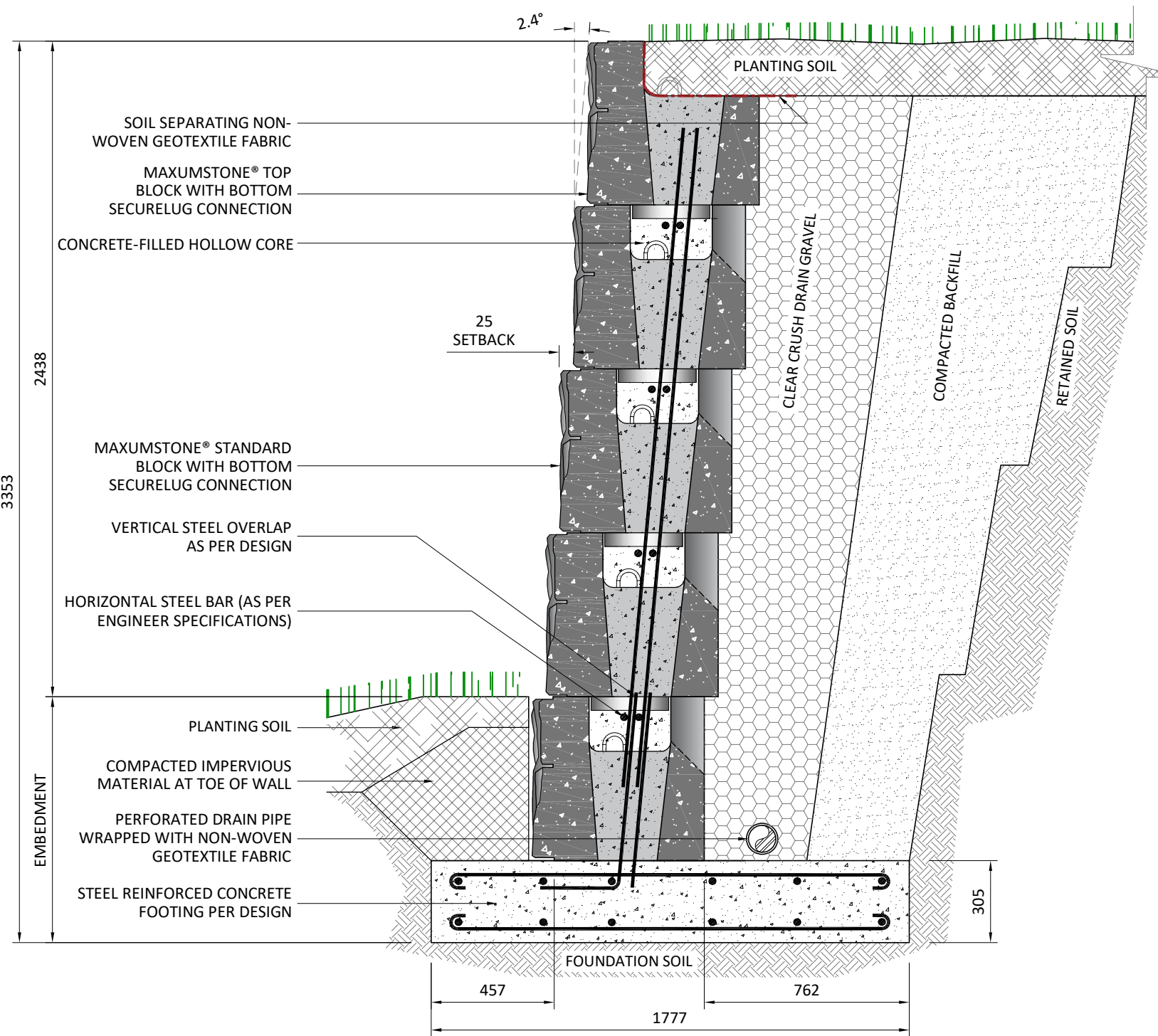
STEEL REINFORCED THROUGH HOLLOW CORE IN CONCRETE



01

**PLAN ABOVE BASE WALL**

SCALE 1 : 20



02

**CROSS SECTION**

SCALE 1 : 20

**GENERAL NOTES:**

These drawings are intended solely to act as an aid when designing a wall. This drawing should not be used for final design or construction.

Each site-specific wall should be certified and signed by a registered geotechnical engineer in the State or Province that it is being built.

The accuracy and use of the details in this document are the sole responsibility of the user.

Rev	DESCRIPTION	DATE
01	ADDENDUM INFORMATION	08-10-2023
00	INTERNAL APPROVAL	07-01-2023

**REMARKS:**

**PURPOSE OF ISSUE:**

- INFORMATION
- REVIEW / APPROVAL
- PRODUCTION

**SHEET CONTENT**

**MAXUMSTONE CANTILEVER WALL**

**CROSS SECTION**

**SHEET REFERENCE**

**101**

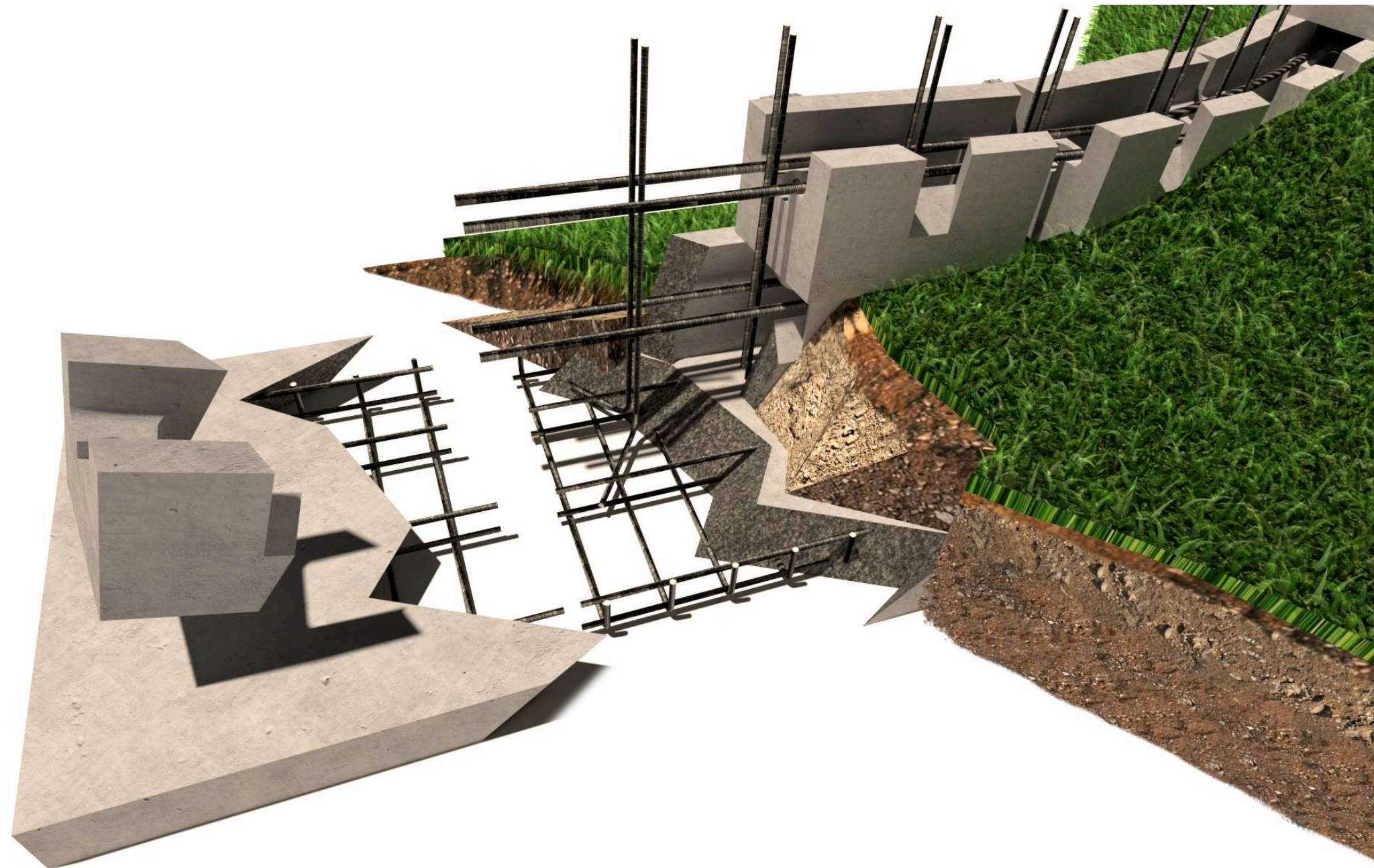
**1106-MX-CTL**

**DRAWING INFORMATION**

SCALE : 1 : 20  
 PAPER SIZE: 431.8mm x 297.5mm  
 PREPARED BY: RM







**GENERAL NOTES:**

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Rev	DESCRIPTION	DATE
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**SHEET CONTENT**

**MAXUMSTONE CANTILEVER WALL**

**PERSPECTIVE**

**SHEET REFERENCE**

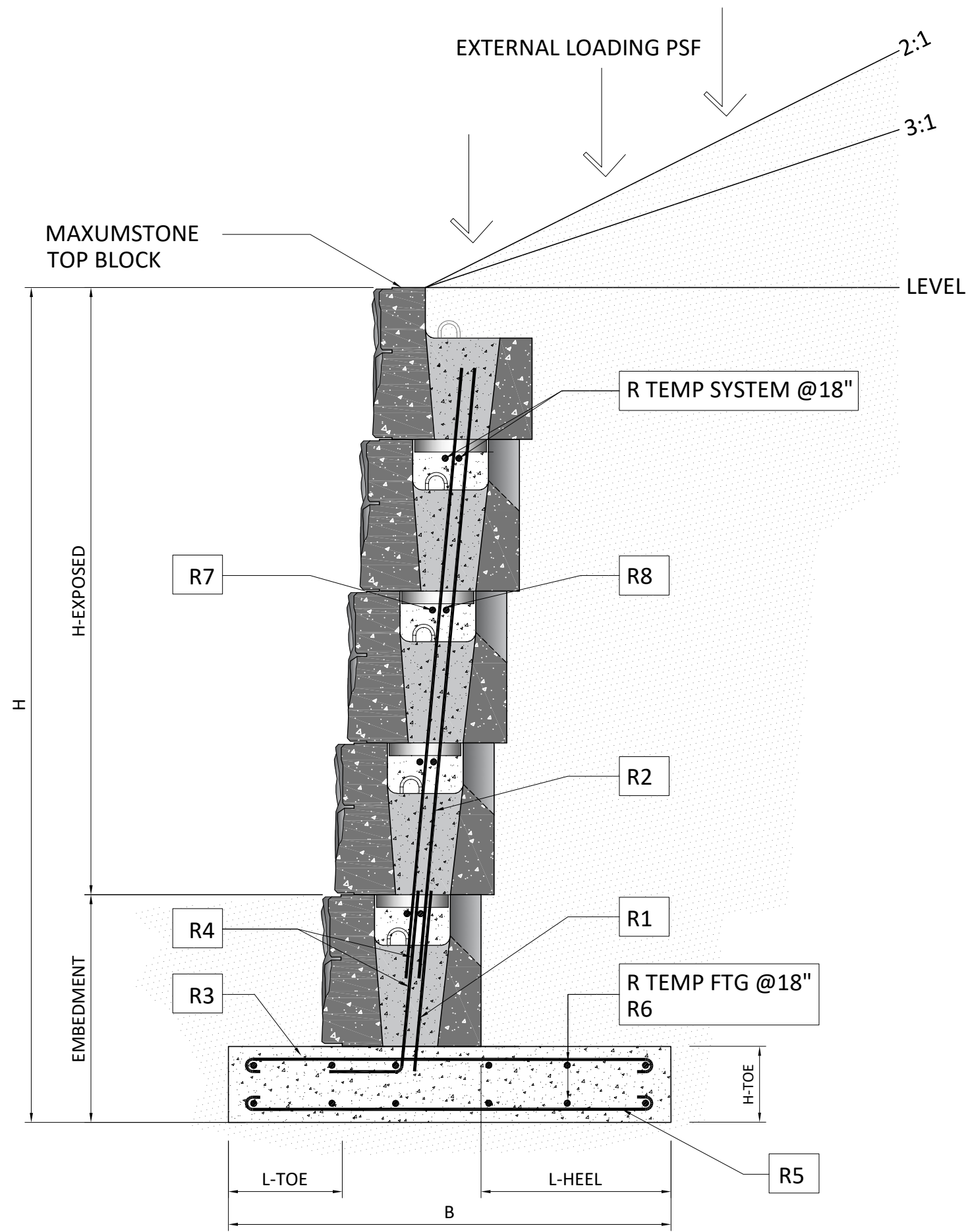
**201**

**1106-MX-CTL**

**DRAWING INFORMATION**

SCALE: 1 : 20  
 PAPER SIZE: 431.8mm x 297.5mm  
 PREPARED BY: RM





**01** **EXTERNAL LOADING DIAGRAM**  
SCALE 1 : 20

**GENERAL NOTES:**

These drawings are intended solely to act as an aid when designing a wall. This drawing should not be used for final design or construction.

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01	ADDENDUM INFORMATION	08-10-2023
00	INTERNAL APPROVAL	07-01-2023
Rev	DESCRIPTION	DATE

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- PURPOSE OF ISSUE:**
- INFORMATION
  - REVIEW / APPROVAL
  - PRODUCTION

**SHEET CONTENT**

**MAXUMSTONE CANTILEVER WALL**

**EXTERNAL LOADING DIAGRAM**

**SHEET REFERENCE**

**300**

**1106-MX-CTL**

**DRAWING INFORMATION**  
SCALE : 1 : 20  
PAPER SIZE : 431.8mm x 297.5mm  
PREPARED BY : RM





**MAGNUM STONE REINFORCED WALL SECTIONS**  
Estimate Worksheet (Metric)

**NO SLOPE, NO SURCHARGE ABOVE**

H total	H-Exposed	Slope above	Loading	Bearing Pressure (max- KPa)	B	L-toe	L-heel	H-toe	R1	R2	R3	R4	R5	R6	R7	R8
3.3528	2.4384	level	none	109.17	1.7770	0.4572	0.7620	0.3048	Use #6 @ 0.3048m back	Use #6 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
3.9624	3.0480	level	none	127.84	2.0818	0.5334	0.9906	0.3048	Use #6 @ 0.3048m back	Use #6 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
4.5720	3.6576	level	none	135.02	2.4628	0.6858	1.2192	0.3048	Use #7 @ 0.3048m back	Use #6 @ 0.3048m splice	Use #7 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
5.1816	4.2672	level	none	159.44	2.7676	0.6858	1.5240	0.4054	Use #8 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #7 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #5 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
5.7912	4.8768	level	none	172.85	3.1486	0.7620	1.8288	0.4572	Use 2#7 @ 0.3048m back or #10	Use #8 @ 0.3048m splice	Use #9 @ 0.3048m Top foot or 2#6	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #5 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
6.4008	5.4864	level	none	184.82	3.4534	0.9144	1.9812	0.5334	Use 2#7 @ 0.3048m back or #11	Use #8 @ 0.3048m splice	Use #9 @ 0.3048m Top foot or 2#7	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #6 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
7.0104	6.0960	level	none	192.00	3.8344	1.0668	2.2098	0.6096	Use 2#9 @ 0.3048m back	Use #9 @ 0.3048m splice	Use #10 @ 0.3048m Top foot or 2#7	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #6 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back

**2:1 SLOPE, NO SURCHARGE ABOVE**

H total	H-Exposed	Slope above	Loading	Bearing Pressure (max- KPa)	B	L-toe	L-heel	H-toe	R1	R2	R3	R4	R5	R6	R7	R8
3.3528	2.4384	2:01	none	107.73	2.0818	0.6096	0.9144	0.3048	Use #6 @ 0.3048m back	Use #6 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
3.9624	3.0480	2:01	none	124.97	2.3866	0.7620	1.0668	0.3048	Use #7 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
4.5720	3.6576	2:01	none	139.33	2.7676	0.9144	1.2954	0.3048	Use #8 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #7 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
5.1816	4.2672	2:01	none	184.82	2.9962	0.8382	1.6002	0.3810	Use #10 @ 0.3048m back or 2#7	Use #7 @ 0.3048m splice	Use #8 @ 0.3048m Top foot or 2#6	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #5 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
5.7912	4.8768	2:01	none	187.21	3.4534	1.0668	1.8288	0.4572	Use 2#9 @ 0.3048m back	Use #8 @ 0.3048m splice	Use #9 @ 0.3048m Top foot or 2#6	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #5 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
6.4008	5.4864	2:01	none	222.16	3.7582	1.0668	2.1336	0.5578	Use 3#8 @ 0.3048m back or #14	Use #10 @ 0.3048m splice	Use #10 @ 0.3048m Top foot or 2#7	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #6 @ 0.4572m temp foot T&B	Use #6 @ 0.6096m front	Use #4 @ 0.6096m back
7.0104	6.0960	2:01	none	228.87	4.3678	1.2192	2.5908	0.7315	Use 3#9 @ 0.3048m back or 2#11	Use #11 @ 0.3048m splice	Use #10 @ 0.3048m Top foot	Use #6 @ 0.3048m front	Use #6 @ 0.3048m Temp FTG	Use #6 @ 0.4572m temp foot T&B	Use #6 @ 0.6096m front	Use #4 @ 0.6096m back

**3:1 SLOPE, NO SURCHARGE ABOVE**

H total	H-Exposed	Slope above	Loading	Bearing Pressure (max- KPa)	B	L-toe	L-heel	H-toe	R1	R2	R3	R4	R5	R6	R7	R8
3.3528	2.4384	3:01	none	114.91	1.8532	0.5334	0.7620	0.3048	Use #6 @ 0.3048m back	Use #6 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
3.9624	3.0480	3:01	none	138.37	2.1580	0.6096	0.9906	0.3048	Use #7 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
4.5720	3.6576	3:01	none	149.87	2.5390	0.7620	1.2192	0.3048	Use #8 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #7 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
5.1816	4.2672	3:01	none	169.50	2.9200	0.8382	1.5240	0.3810	Use #9 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #8 @ 0.3048m Top foot or 2#6	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #5 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
5.7912	4.8768	3:01	none	189.13	3.3010	0.9144	1.8288	0.4572	Use 2#8 @ 0.3048m back or #11	Use #8 @ 0.3048m splice	Use #9 @ 0.3048m Top foot or 2#6	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #5 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
6.4008	5.4864	3:01	none	212.59	3.6058	0.9906	2.0574	0.5578	Use 2#9 @ 0.3048m back	Use #9 @ 0.3048m splice	Use #9 @ 0.3048m Top foot or 2#7	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #6 @ 0.4572m temp foot T&B	Use #6 @ 0.6096m front	Use #4 @ 0.6096m back
7.0104	6.0960	3:01	none	232.22	3.9868	1.0668	2.3622	0.6858	Use 3#8 @ 0.3048m back or 2#10	Use 2#8 @ 0.3048m splice or @11	Use 2#8 @ 0.3048m Top foot or #10	Use #6 @ 0.3048m front	Use #6 @ 0.3048m Temp FTG	Use #6 @ 0.4572m temp foot T&B	Use #6 @ 0.6096m front	Use #4 @ 0.6096m back

**NO SLOPE, 100 PSF SURCHARGE ABOVE**

H total	H-Exposed	Slope above	Loading	Bearing Pressure (max- KPa)	B	L-toe	L-heel	H-toe	R1	R2	R3	R4	R5	R6	R7	R8
3.3528	2.4384	level	100 psf	115.87	1.8532	0.5334	0.7620	0.3048	Use #6 @ 0.3048m back	Use #6 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
3.9624	3.0480	level	100 psf	134.06	2.1580	0.6096	0.9906	0.3048	Use #7 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
4.5720	3.6576	level	100 psf	140.77	2.5390	0.7620	1.2192	0.3353	Use #7 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
5.1816	4.2672	level	100 psf	153.70	2.9200	0.8382	1.5240	0.3810	Use #9 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #8 @ 0.3048m Top foot or 2#6	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #5 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
5.7912	4.8768	level	100 psf	167.10	3.3010	0.9144	1.8288	0.4572	Use #10 @ 0.3048m back or 2#7	Use #8 @ 0.3048m splice	Use #9 @ 0.3048m Top foot or 2#6	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #5 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
6.4008	5.4864	level	100 psf	184.82	3.6058	0.9906	2.0574	0.5578	Use 2#8 @ 0.3048m back or #11	Use #8 @ 0.3048m splice	Use #9 @ 0.3048m Top foot or 2#7	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #6 @ 0.4572m temp foot T&B	Use #6 @ 0.6096m front	Use #4 @ 0.6096m back
7.0104	6.0960	level	100 psf	218.81	3.7582	0.9906	2.2098	0.6858	Use 2#9 @ 0.3048m back	Use #10 @ 0.3048m splice OR 2#7	Use #9 @ 0.3048m Top foot	Use #6 @ 0.3048m front	Use #6 @ 0.3048m Temp FTG	Use #6 @ 0.4572m temp foot T&B	Use #6 @ 0.6096m front	Use #4 @ 0.6096m back

**NO SLOPE, 250 PSF SURCHARGE ABOVE**

H total	H-Exposed	Slope above	Loading	Bearing Pressure (max- KPa)	B	L-toe	L-heel	H-toe	R1	R2	R3	R4	R5	R6	R7	R8
3.3528	2.4384	level	250 psf	122.57	2.0818	0.6096	0.9144	0.3048	Use #6 @ 0.3048m back	Use #6 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
3.9624	3.0480	level	250 psf	140.29	2.3866	0.6858	1.1430	0.3048	Use #7 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #6 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
4.5720	3.6576	level	250 psf	158.00	2.6914	0.7620	1.3716	0.3353	Use #8 @ 0.3048m back	Use #7 @ 0.3048m splice	Use #7 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #4 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
5.1816	4.2672	level	250 psf	176.20	2.9962	0.8382	1.6002	0.3810	Use #10 @ 0.3048m back or 2#7	Use #7 @ 0.3048m splice	Use #8 @ 0.3048m Top foot or 2#6	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #5 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
5.7912	4.8768	level	250 psf	188.65	3.3772	0.9144	1.9050	0.4572	Use 2#8 @ 0.3048m back or #11	Use #8 @ 0.3048m splice	Use #9 @ 0.3048m Top foot	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #5 @ 0.4572m temp foot T&B	Use #5 @ 0.6096m front	Use #4 @ 0.6096m back
6.4008	5.4864	level	250 psf	206.84	3.6820	0.9906	2.1336	0.5791	Use 2#9 @ 0.3048m back	Use #9 @ 0.3048m splice	Use #9 @ 0.3048m Top foot or 2#7	Use #5 @ 0.3048m front	Use #5 @ 0.3048m Temp FTG	Use #6 @ 0.4572m temp foot T&B	Use #6 @ 0.6096m front	Use #4 @ 0.6096m back
7.0104	6.0960	level	250 psf	219.77	4.0630	1.0668	2.4384	0.6858	Use 2#10 @ 0.3048m back or 3#8	Use 2#8 @ 0.3048m splice or #11	Use #10 @ 0.3048m Top foot or 2#7	Use #6 @ 0.3048m front	Use #6 @ 0.3048m Temp FTG	Use #6 @ 0.4572m temp foot T&B	Use #6 @ 0.6096m front	Use #4 @ 0.6096m back

This chart is for estimation purposes only and should not be used for construction. There are many assumptions that were incorporated into these analyses and by changing any one or combination of, could result in significantly different results. The contractor, project owner or must a professional engineer to design case by utilizing site specific criteria All Concrete 28 MPa compressive strength, all steel 60 ksi tensile strength. Talk to your local distributor of Magnum Stone, every wall should be looked at on a case-by-case basis criteria.

**GENERAL NOTES:**

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01	ADDENDUM INFORMATION	08-10-2023
00	INTERNAL APPROVAL	07-01-2023
Rev	DESCRIPTION	DATE

**REMARKS:**

**PURPOSE OF ISSUE:**

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**SHEET CONTENT**

**MAXUMSTONE CANTILEVER WALL**

**ESTIMATE WORKSHEET (METRIC)**

**SHEET REFERENCE**

**301b**

**1106-MX-CTL**

**DRAWING INFORMATION**

SCALE : 1 : 20  
PAPER SIZE: 431.8mm x 297.5mm  
PREPARED BY: RM

