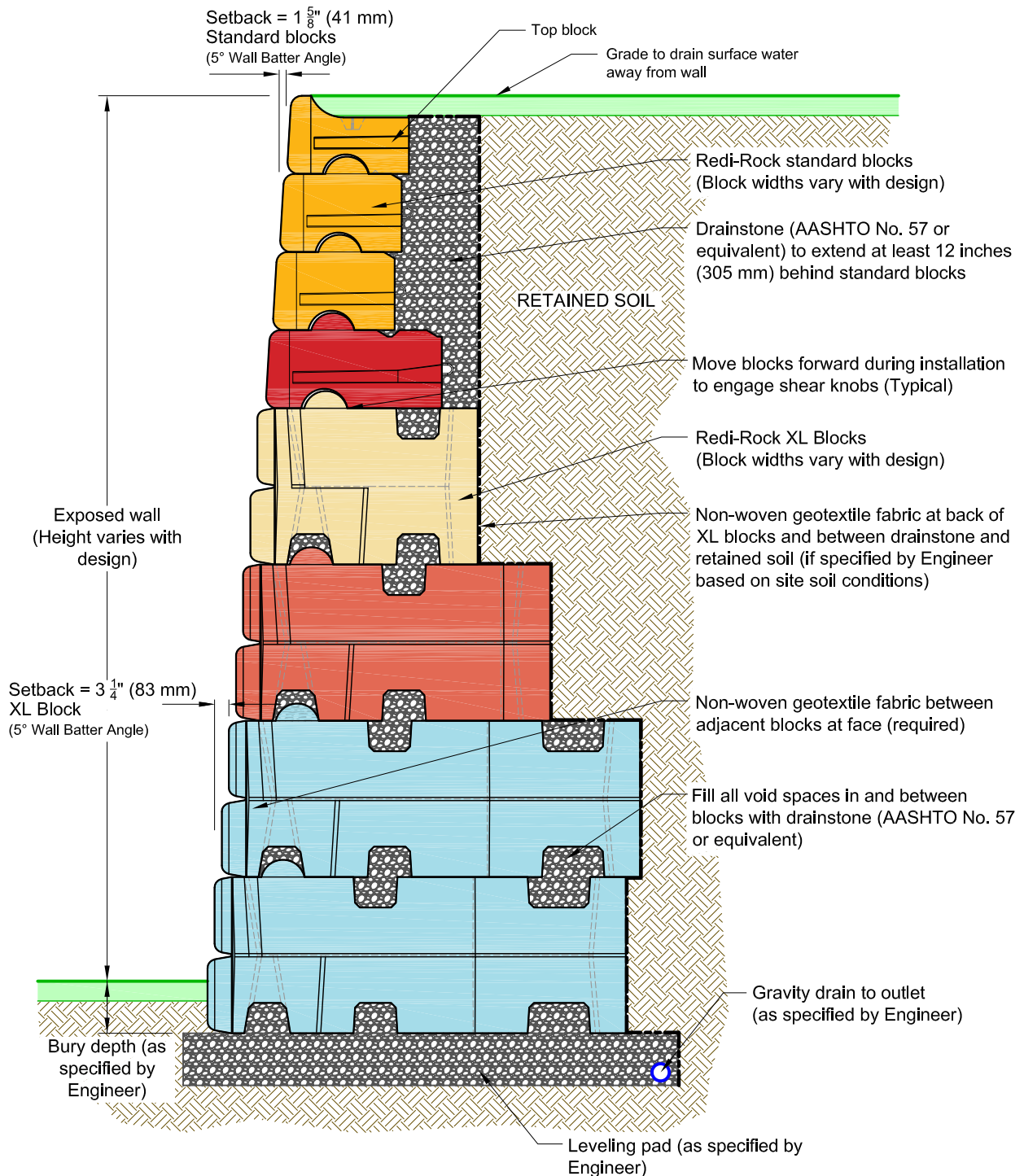


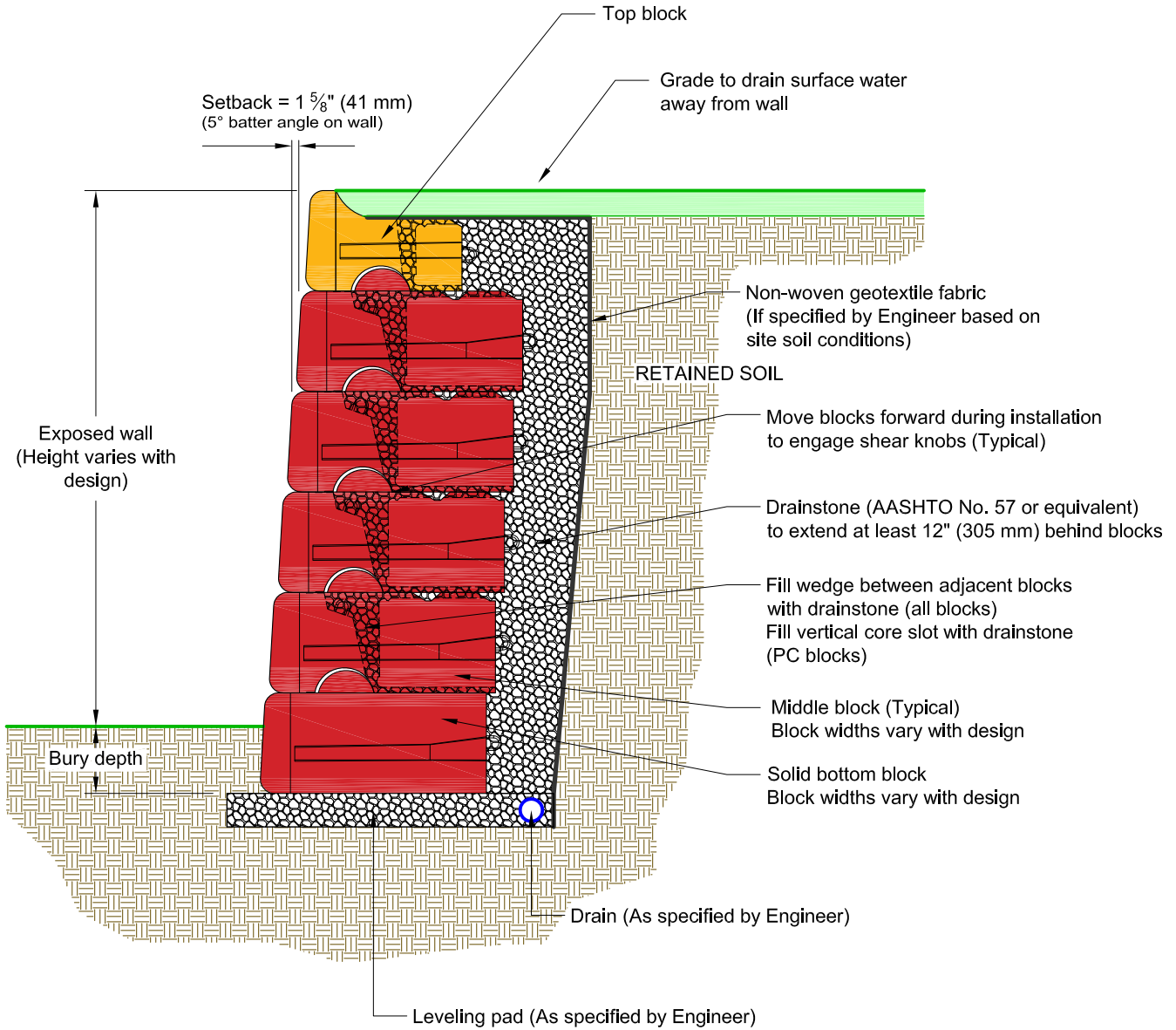
Typical XL Gravity Wall Section



This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

DRAWN BY:	NWL	TITLE: Typical Redi-Rock XL Block Wall Section	 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY:	JRJ		
DATE:	20APR2018		
SHEET:	1 of 1		
		FILE:	Typical XL Section 041318.dwg

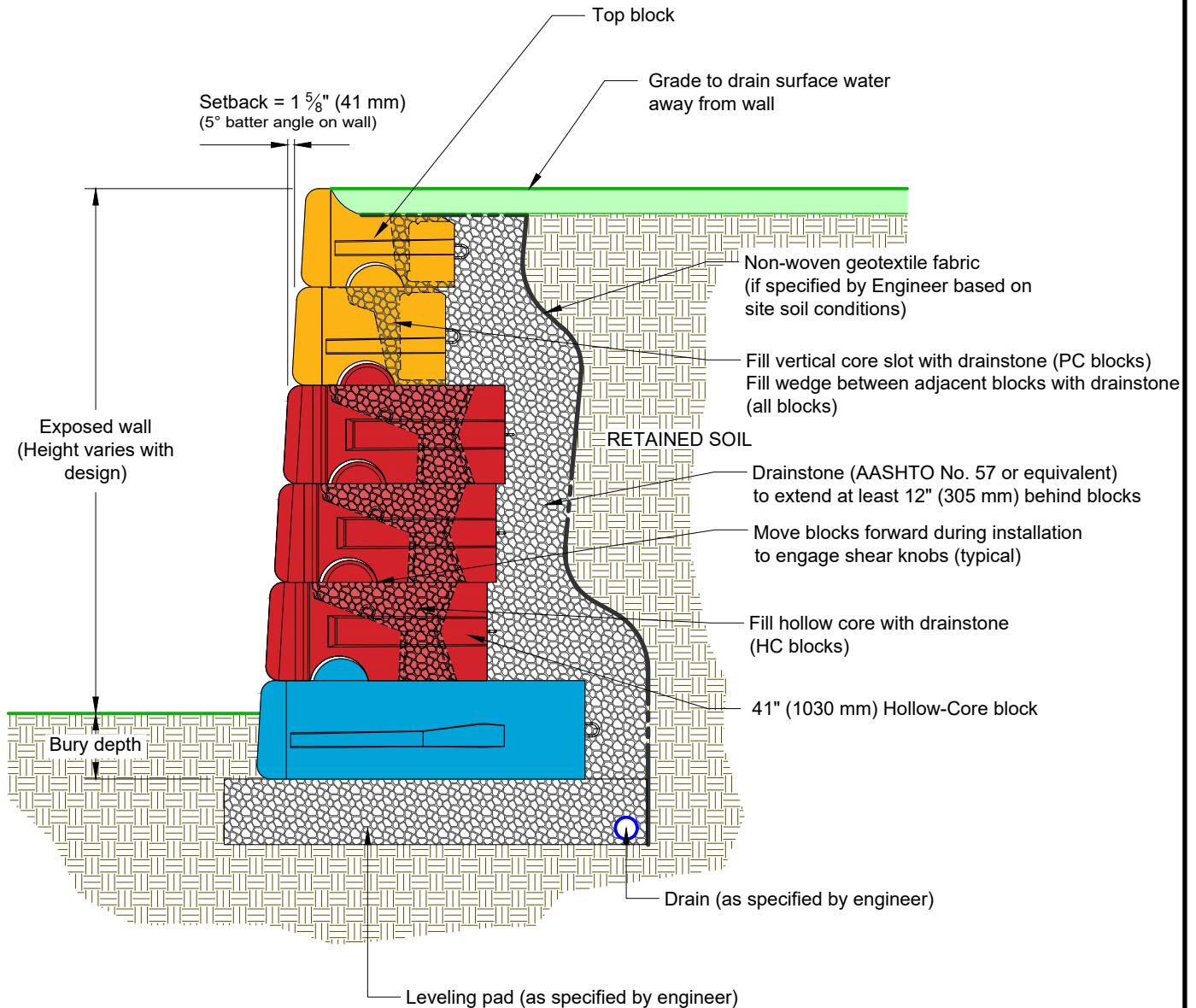
Typical Gravity Wall Section



This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

DRAWN BY:	JRJ	TITLE: Typical Gravity Wall Detail	 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY:	JRJ		
DATE:	17MAR2016		
SHEET:	1 of 1		

Typical Gravity Wall Section with Hollow-Core Blocks



Note: Wall designs typically include a combination of solid, PC, and hollow-core blocks. Redi-Rock blocks are designed to be used together. Block type, size, and configuration will vary based on site-specific conditions and wall height.

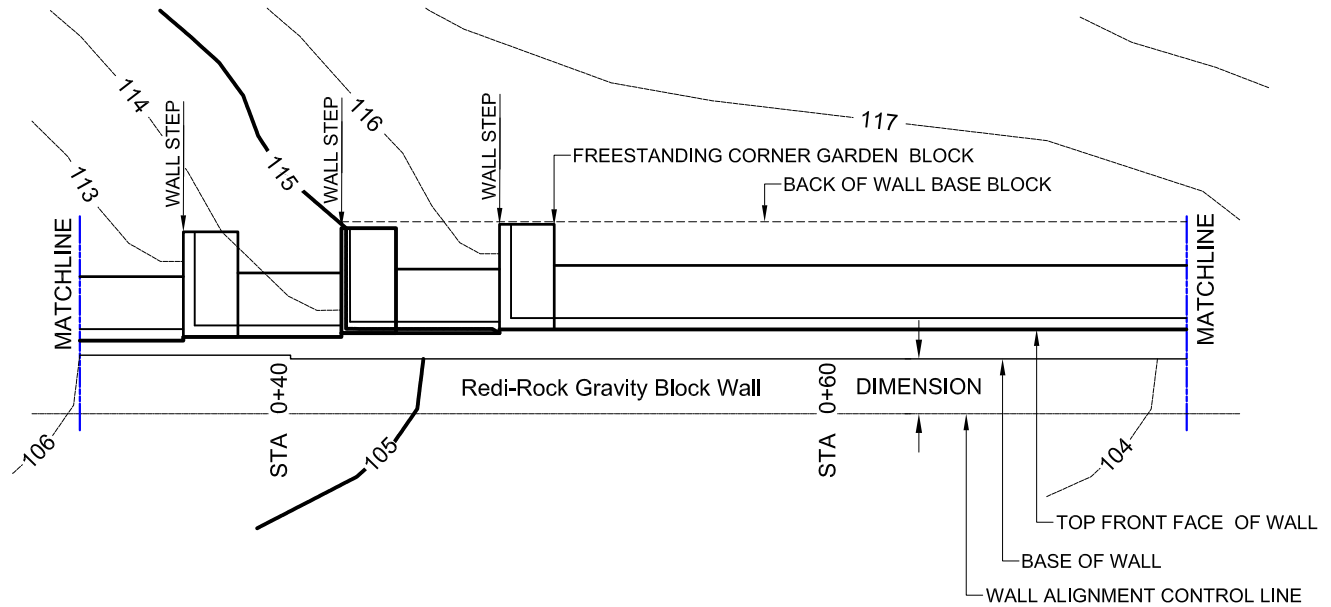
This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

DRAWN BY: NWL
APPROVED BY: NWL
DATE: 08JAN2020
SHEET: 1 of 1

TITLE: Typical Gravity Wall Detail
with Hollow-Core Blocks
FILE: Typical HC Wall Section 010820.dwg

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Sample Plan and Profile Gravity Wall



LEGEND:

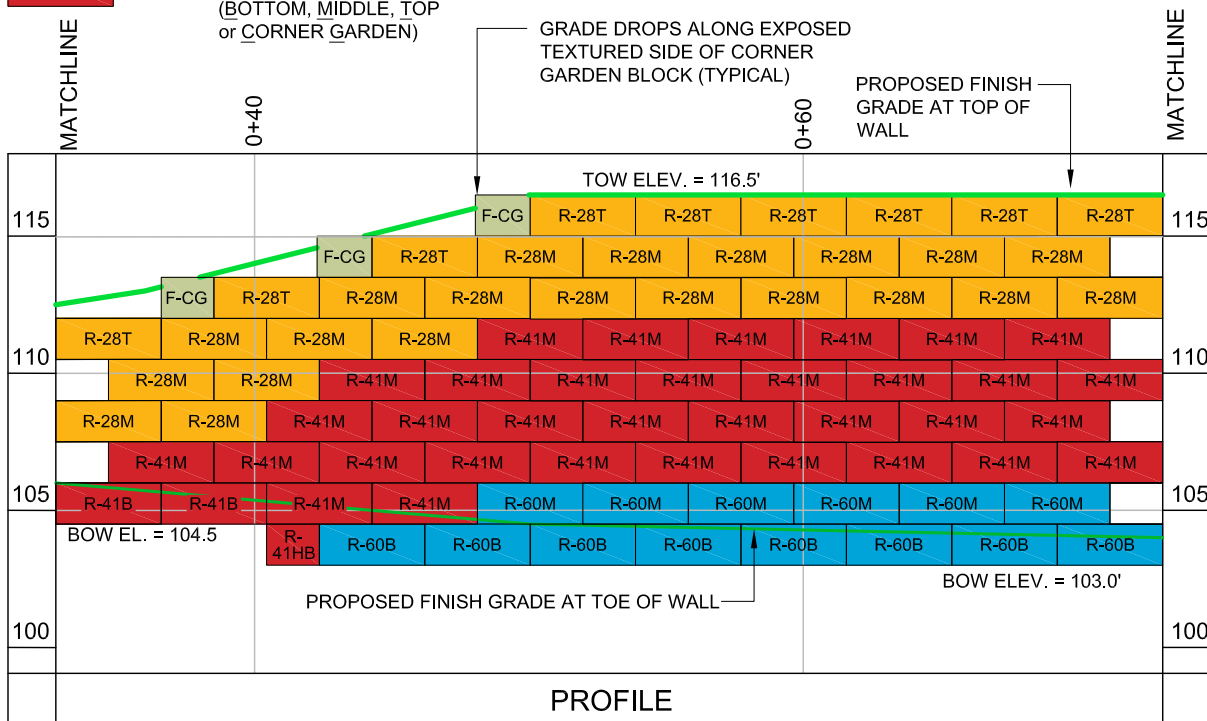
BLOCK SERIES (RETAINING,
FREESTANDING, ACCESSORY)

BLOCK SIZE (28, 41, & 60)

R-41M
BLOCK TYPE
(BOTTOM, MIDDLE, TOP
or CORNER GARDEN)

GRADE DROPS ALONG EXPOSED
TEXTURED SIDE OF CORNER
GARDEN BLOCK (TYPICAL)

PROPOSED FINISH
GRADE AT TOP OF
WALL

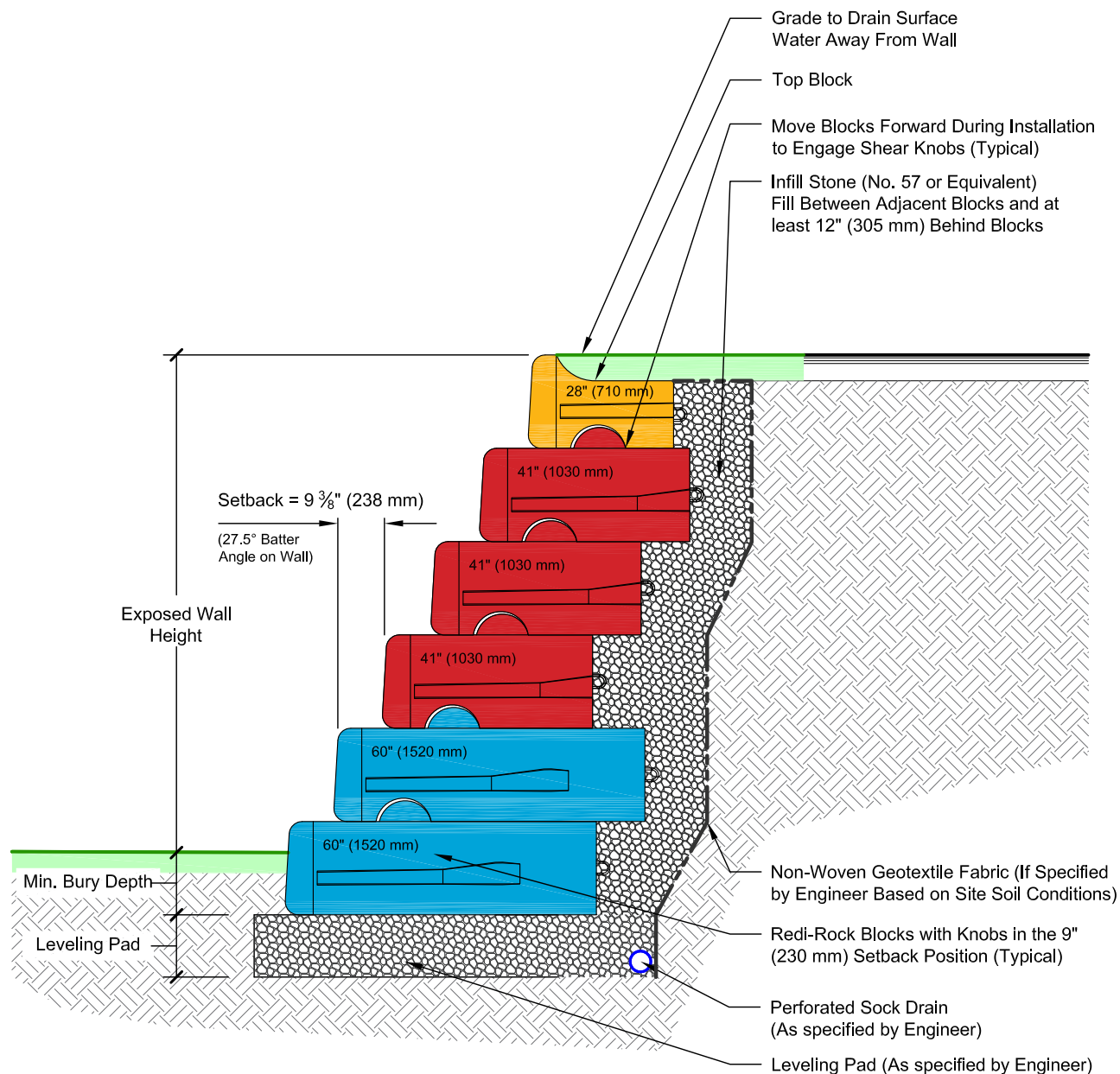


- This drawing is for reference only.
- **Final designs for construction must be prepared by a registered Professional Engineer** using the actual conditions of the proposed site.
- **Final wall design must address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the wall design.**

DRAWN BY: JRJ
APPROVED BY: JRJ
DATE: 22MAR2016
SHEET: 1 of 1

TITLE: Sample Plan and Profile Gravity Wall
FILE: 2 Sample Plan and Profile Gravity Wall 032216.dwg

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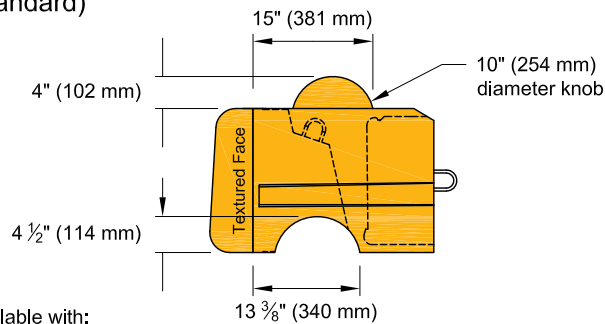
This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site. Final wall design must address both internal and external drainage and all modes of wall stability.

DRAWN BY: B. Lindfors	TITLE:	Large Batter Wall Section REDI-ROCK® 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY: J. Johnson		
DATE: Jan 28, 2016		
SHEET: 1 of 1	FILE: Large Batter Gravity Wall Section 012816.dwg	

BLOCK-TO-BLOCK SETBACK OPTIONS

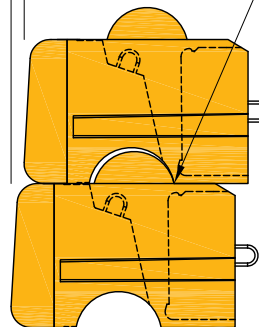
NO SCALE

Five degree (5°) setback (Standard)



Setback = $1 \frac{5}{8}$ " (41 mm)
(5° batter angle on wall)

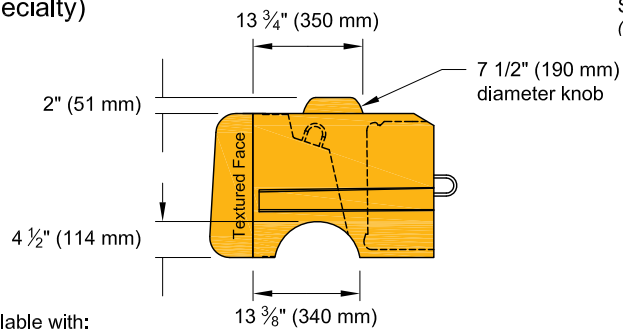
Move blocks forward during
installtion to engage shear
knobs (Typical)



Available with:

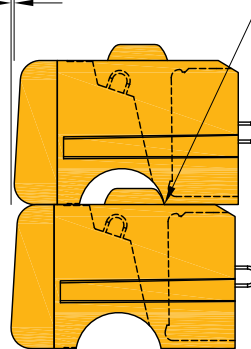
- 28" (710 mm) blocks, 41" (1030 mm) blocks, and 60" (1520 mm) blocks
- 28" (710 mm) PC blocks (shown here) and 41" (1030 mm) PC blocks

One degree (1°) setback (Specialty)



Setback = $\frac{3}{8}$ " (10 mm)
(1° batter angle on wall)

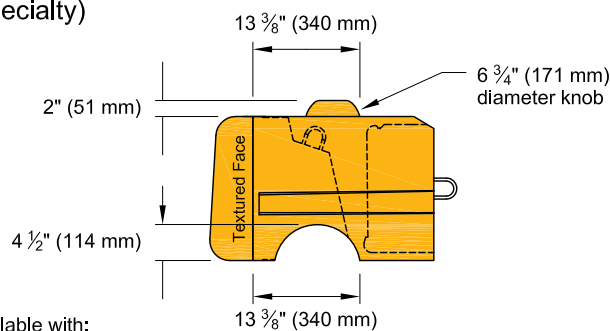
Move blocks forward during
installtion to engage shear
knobs (Typical)



Available with:

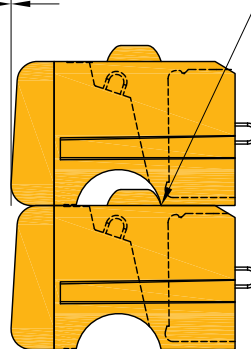
- 28" (710 mm) blocks, 41" (1030 mm) blocks, and 60" (1520 mm) blocks
- 28" (710 mm) PC blocks (shown here) and 41" (1030 mm) PC blocks

Zero (0°) setback (Specialty)



Setback = 0" (0 mm)
(0° batter angle on wall)

Move blocks forward during
installtion to engage shear
knobs (Typical)



Available with:

- 28" (710 mm) blocks, 41" (1030 mm) blocks, and 60" (1520 mm) blocks
- 28" (710 mm) PC blocks (shown here) and 41" (1030 mm) PC blocks

The block-to-block setback available with Redi-Rock is controlled by the size and location of the shear knobs (domes) cast into the blocks. While the 10" (254 mm) diameter knob and the $1 \frac{5}{8}$ " (41 mm) setback position is the most common configuration, Redi-Rock has three different knob sizes and three different locations available.

DRAWN BY: JRJ
APPROVED BY: JRJ
DATE: 06-22-2015
SHEET: 1 of 1

TITLE:

Block Setback Options Normal Batter

FILE: 4 Block Setback Options Normal Batter 062215.dwg

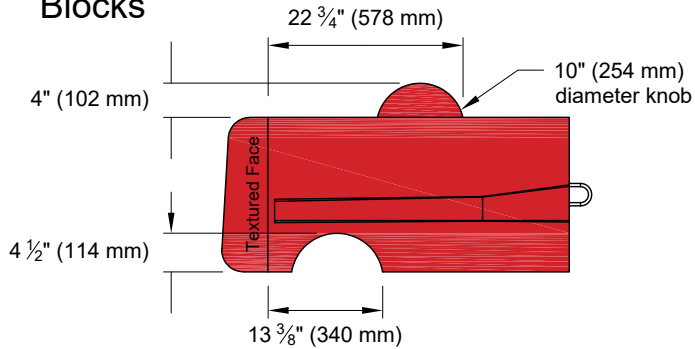
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BLOCK-TO-BLOCK SETBACK OPTIONS

NO SCALE

9" (230 mm) Setback

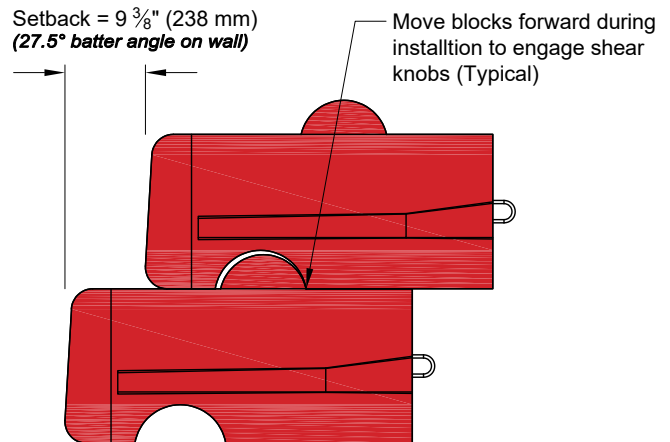
Blocks



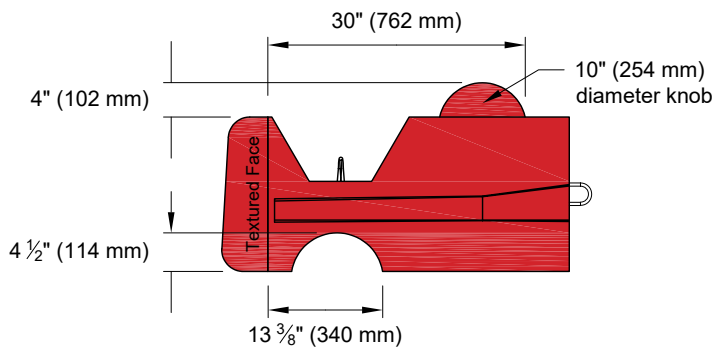
Available with:

- 41" (1030 mm) blocks (shown here) and 60" (1520 mm) blocks
- Not available in PC blocks

Setback = $9 \frac{3}{8}$ " (238 mm)
(27.5° batter angle on wall)



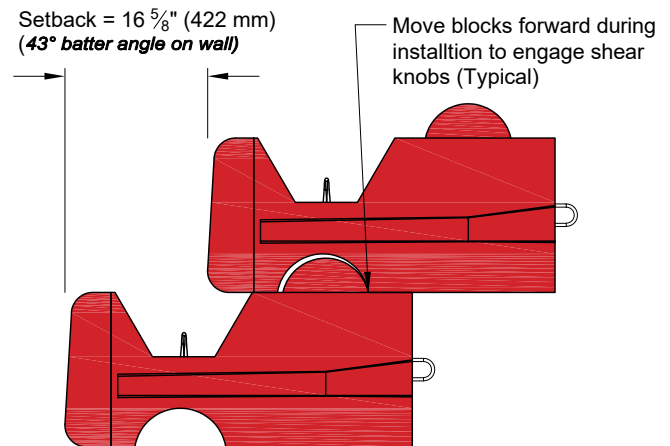
Planter Blocks



Available with:

- 41" (1030 mm) blocks (shown here) and 60" (1520 mm) blocks
- Not available in PC blocks

Setback = $16 \frac{5}{8}$ " (422 mm)
(43° batter angle on wall)



Redi-Rock has two options for large batter retaining walls. Both options are created by relocating the knob so that it is further back in the Redi-Rock blocks compared to our smaller batter walls (5° and less). There are two knob locations further back in the block which create the 9" (230 mm) setback block and the planter block. Blocks made with knobs in either of these locations almost exclusively use 10" (254 mm) diameter knobs.

DRAWN BY:	JRJ
UPDATED BY:	DLH
DATE:	01-03-2022
SHEET:	1 of 1

TITLE:

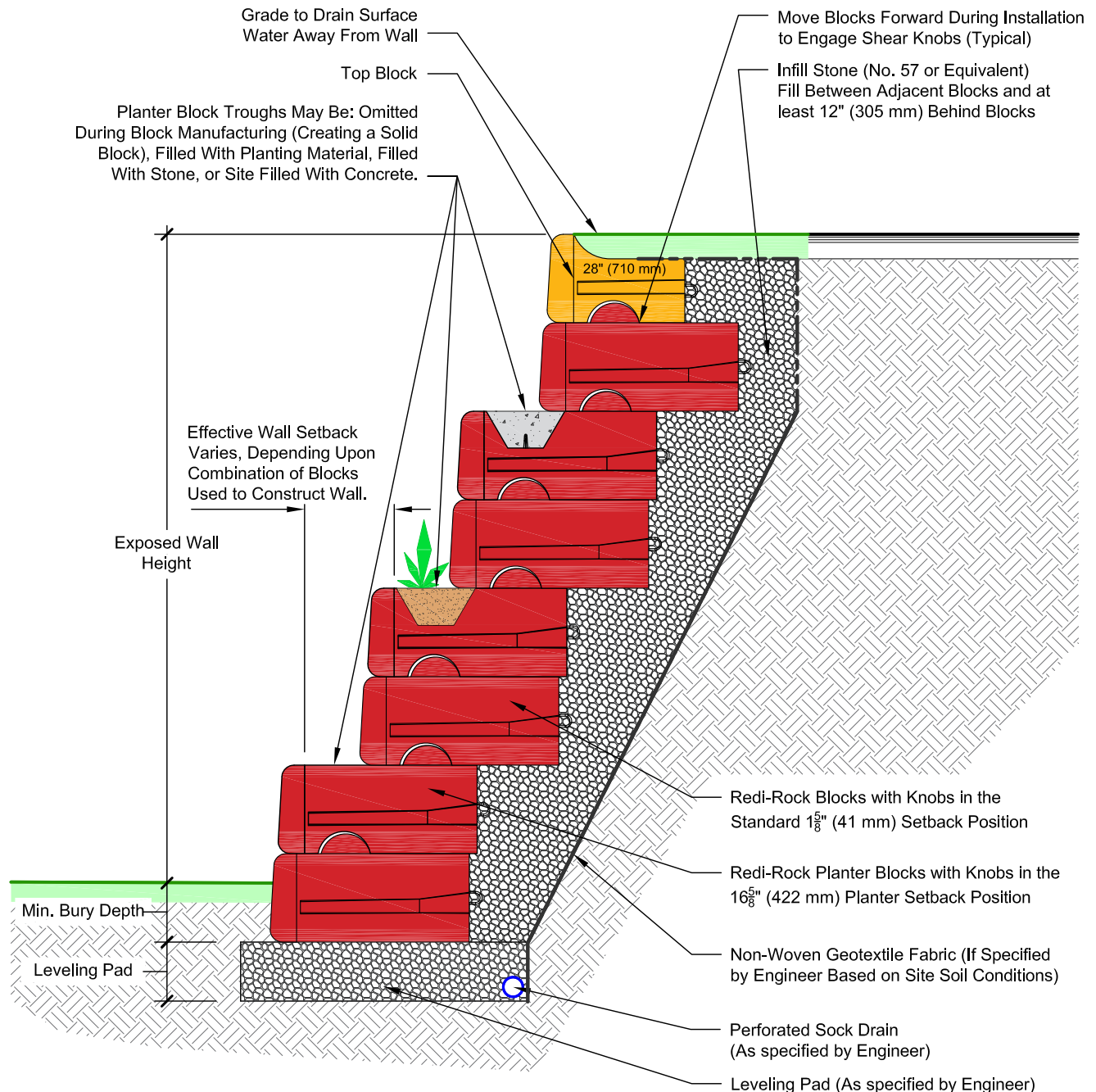
Block Setback Options Large Batter

FILE: Block Setback Options Large Batter 010322.dwg

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The Redi-Rock retaining blocks are available with multiple shear knob size and location options, to permit wall batter design flexibility. This detail depicts alternating $16\frac{5}{8}"$ (422 mm) Planter and $1\frac{5}{8}"$ (41 mm) Standard setback blocks, however designs are possible using more than one Standard setback block between Planter blocks. The regular repetition of combinations of different setback blocks within a wall profile can have structural and aesthetic significance. Abrupt changes in wall batter that carry over multiple blocks are not recommended.

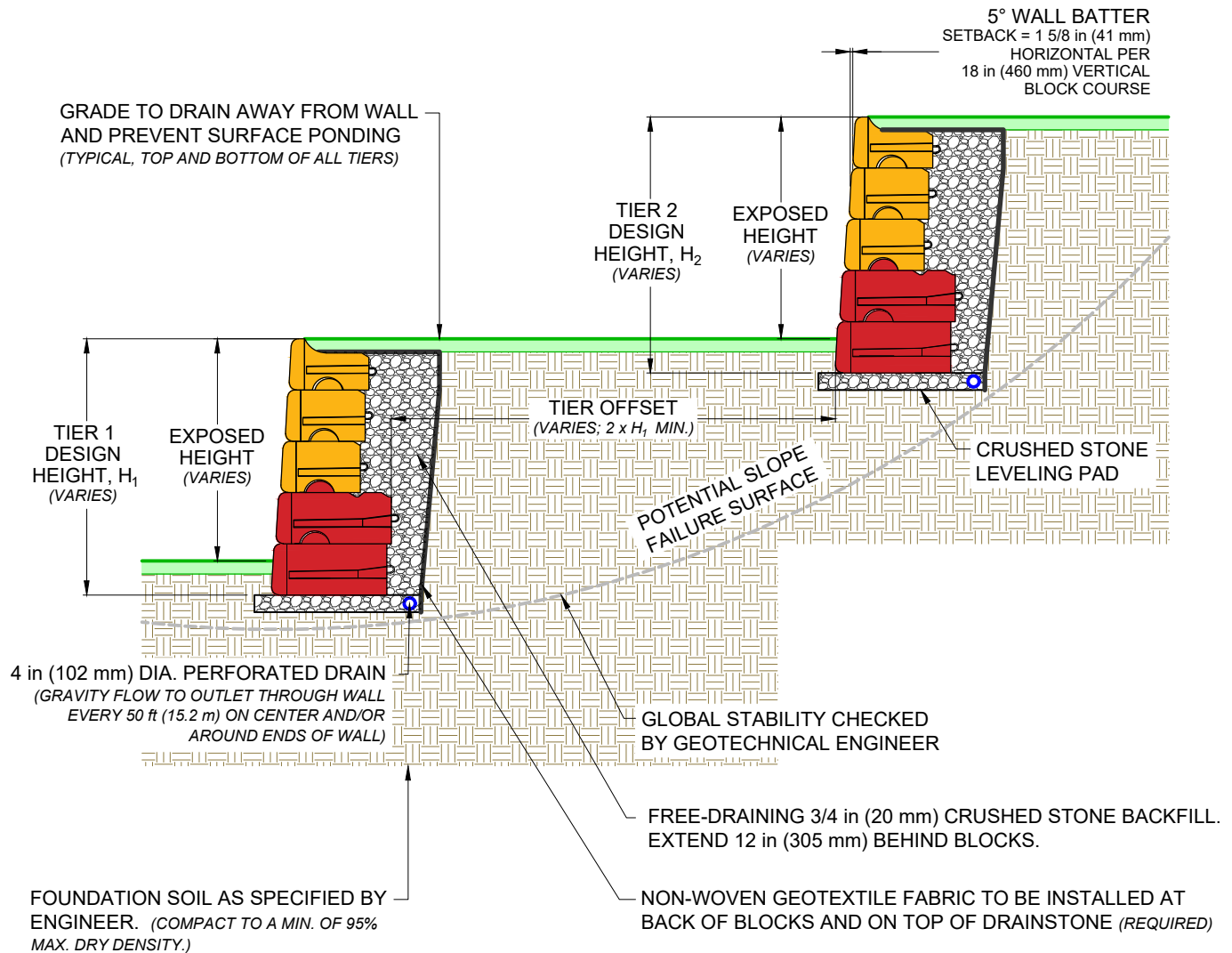


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DRAWN BY:	B. Lindfors	TITLE:	Alternating Planter & Standard Batter Block Wall Section	REDI-ROCK® 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com
APPROVED BY:	J. Johnson	FILE:		
DATE:	Jan 28, 2016			
SHEET:	1 of 1	Alt Planter & Standard Batter Wall Section 012816.dwg		

TYPICAL GRAVITY TIERED WALL SECTION

NOT TO SCALE

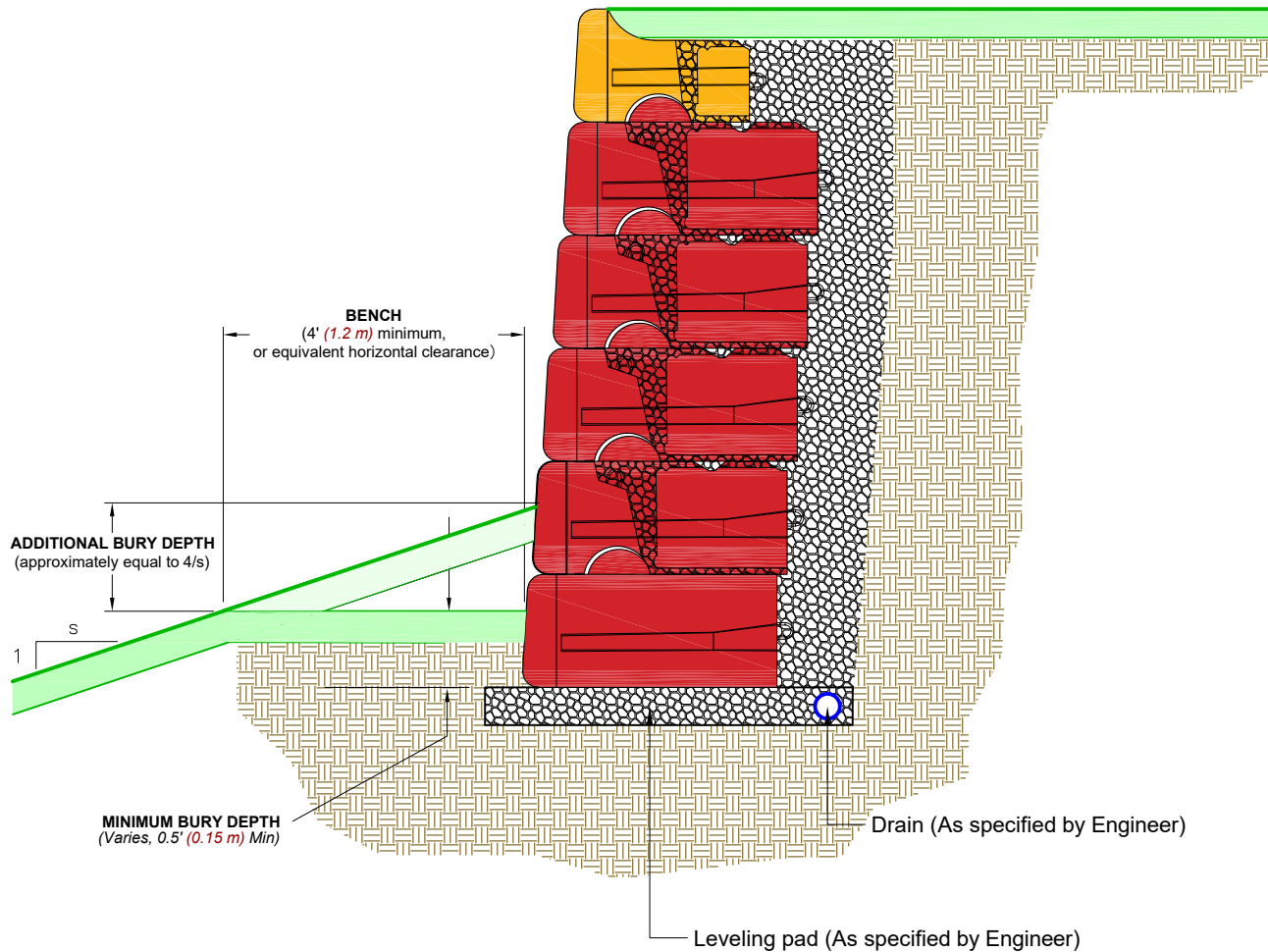


NOTES:

- Generally, H_1 is greater than or equal to H_2 .
- Tier offset is greater than or equal to $2 \times H_1$ without affecting bottom tier. Smaller tier offset is possible with site-specific engineering.
- Global stability often controls tiered wall design. Geotechnical engineer should analyze slope stability with site-specific conditions.
- All details shown apply to both tiers.
- Compact backfill soil to min. 95% max dry density.
- Block sizes and placement shown are for reference only. Individual Redi-Rock blocks will vary with installation pattern.

This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

DRAWN BY:	EGS	Typical Gravity Tiered Wall Section	
APPROVED BY:	LBR		
DATE:	16-MAR-2026		
SHEET:	1 of 1		
TITLE:		Typical_Gravity_Tiered_Wall_Section_16MAR2026.dwg	8212 M-119 HARBOR SPRINGS, MI 49740 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com



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The guidance provided is based upon generally accepted engineering principles, and should be considered a "rule of thumb." It should be noted that toe slopes generally decrease global stability and bearing capacity. These should be checked and verified by the responsible party.

DRAWN BY:	DLH	TITLE:	Typical Toe Slope Detail
APPROVED BY:	NWL		
DATE:	5/28/2021		
SHEET:	1 of 1	FILE:	
			REDI-ROCK® 05481 US 31 SOUTH, CHARLEVOIX, MI 49720 (866) 222-8400 ext 3010 • engineering@redi-rock.com www.redi-rock.com