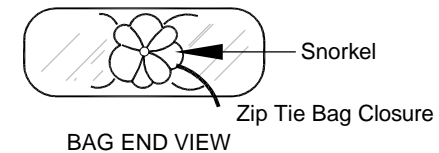
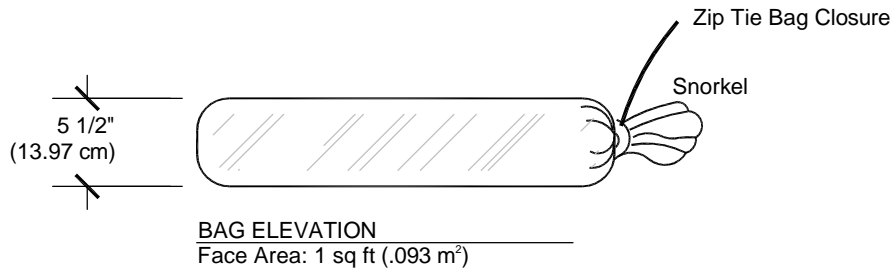


NOTE:

- Two Connector Pins shall be installed per bag, interconnecting the bags vertically
- Connector Pins shall be used to connect the first row of bags to the base setting course.
- Connector Pins shall penetrate each bag and/ or base course minimum of 2".
- Pin locations will vary with the slope of the structure and should be placed in the center of the bag contact area between courses.



ENVIROLOK BAG SPECIFICATION:

- Calculated Unit Fill: 1.25 cu ft (.0354 m³)/unit
- Face Area (Slope Application): 1 sq ft (.093 m²)
- Face Area (Mattress Application): 2.7 sq ft (.25 m²)/unit

ENVIROLOK BAG-FILL SPECIFICATION:

- Bag-Fill Volume: 1.25 cf (.0354 m³)/unit
- Bag-Fill Content: 80% Granular Sand / 20% Topsoil.
- 3/4" Clear Gravel may be Substituted as Bag-Fill for Embedded Bags
- See Sheet GN1-20 And Project Specifications for Additional Notes.

NOTE:

- Quantities required vary based on unit filling and design layout
- See Sheet GN1-20 and Project Specifications for Additional Details & Installation Instructions
- One Envirolok Unit consists of:
One (1) Envirolok Bag
Two (2) Connector Pins
One (1) Zip Tie Bag Closure

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TITLE

STANDARD UNIT DETAIL

DATE
JANUARY 2020

SCALE
1" = 1' - 0"

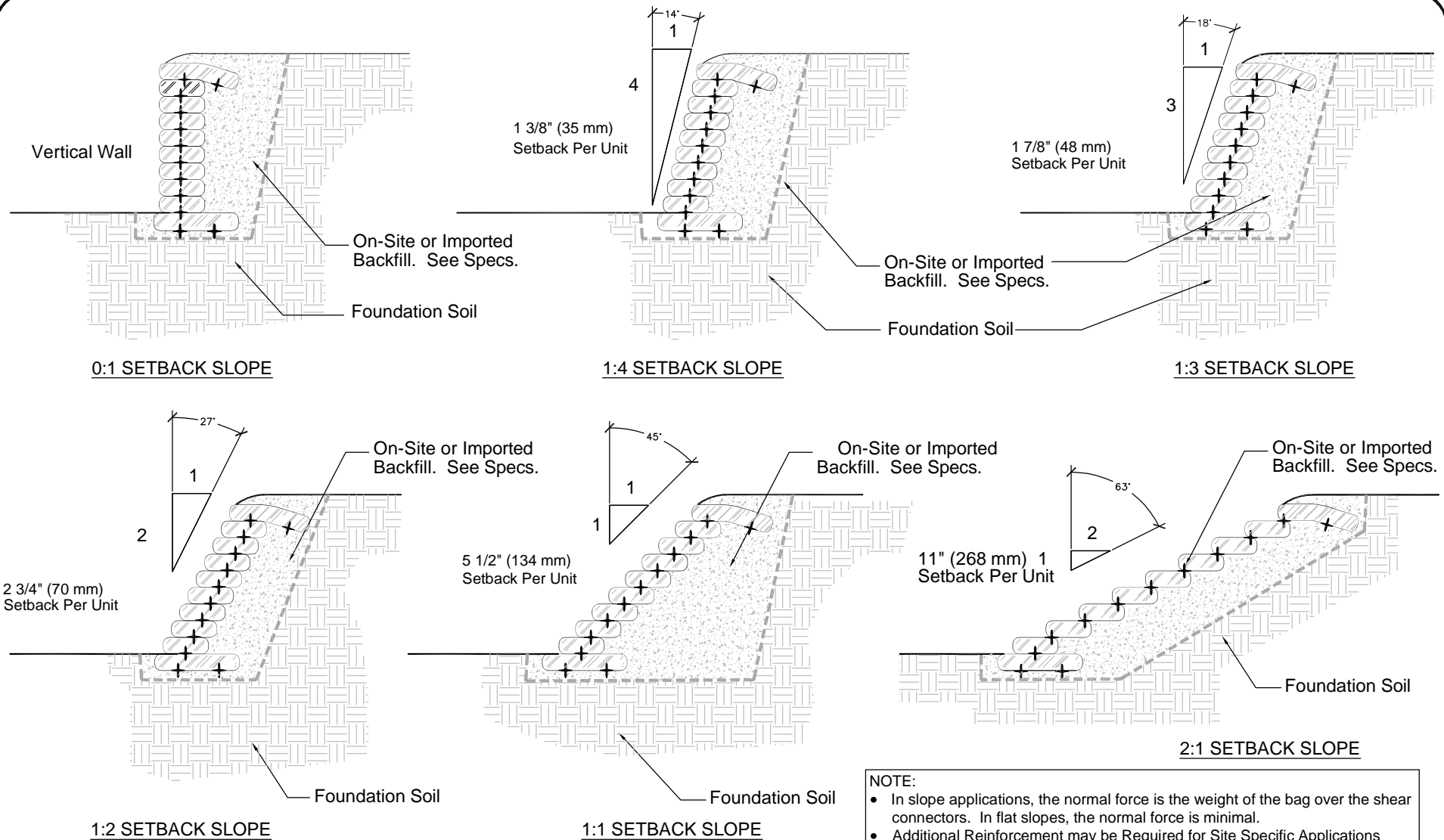
SHEET
SHEET S1-21



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REVISIONS



- NOTE:**
- In slope applications, the normal force is the weight of the bag over the shear connectors. In flat slopes, the normal force is minimal.
 - Additional Reinforcement may be Required for Site Specific Applications
 - See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions
 - Min. of 4" (10 cm) Bag Overlap Required for Proper Spike Connection
 - See Sheets SD 3.21 & 4.21 for Slopes < 2H:1V

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STANDARD SETBACKS FOR SLOPE APPLICATIONS

DATE
MARCH 2021

SCALE
1/4" = 1' - 0"

SHEET
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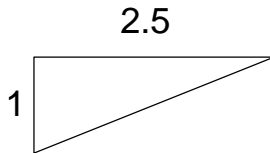
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NOTE:

- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions

Set Units @ 5-10% Angle to Achieve Less than 2H:1V Slope



Set Top Course Perpendicular to Wall Face. See Coping Details.

Cover Coping w/ Low Permeable Soil and Plant

Control Surface Water by Diverting Overland Flow from Wall.

On-Site or Imported Backfill. Compact to 95% Standard Proctor Density

Set First Course of Units Perpendicular to Wall Face (Foundation Course). Fill w/ Clear Gravel

Connector Pins (2 per bag)

Embed 1/2 Unit Min.

30" Wide Gravel Setting Pad, Depth as Needed

Install Connector Pins (2/ bag) Into the Base Course Material Prior to Installing the Foundation Course.

NOTE: MINIMUM OF 4" (10 cm) OVERLAP REQUIRED FOR PROPER SPIKE CONNECTION.

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TITLE

**STANDARD SETBACK
DETAIL 1V:2.5H**

DATE

MARCH 2021

SCALE

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SHEET

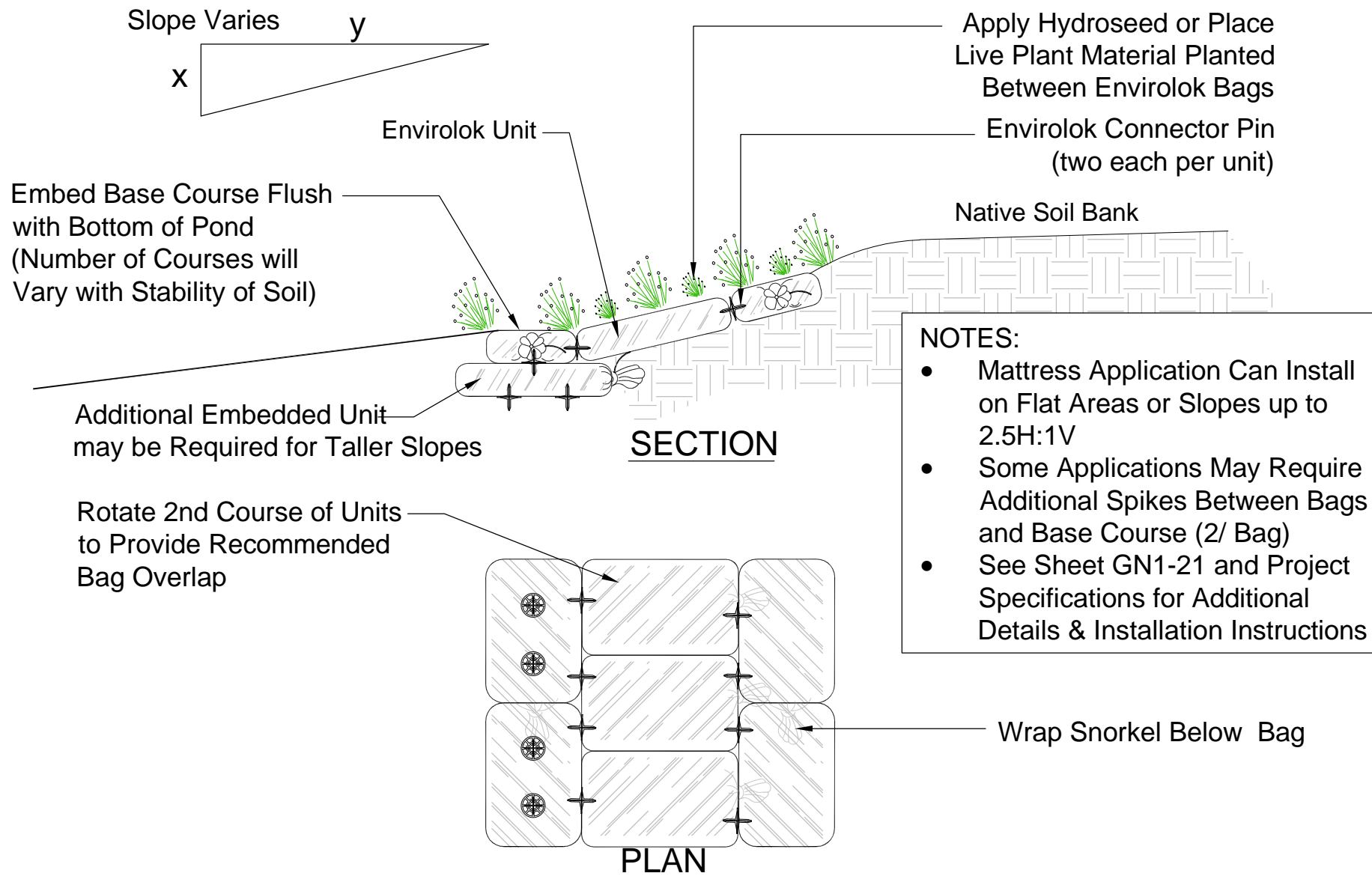
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TITLE
**MATTRESS APPLICATION
DETAIL**

DATE
SCALE
1/2" = 1' - 0"

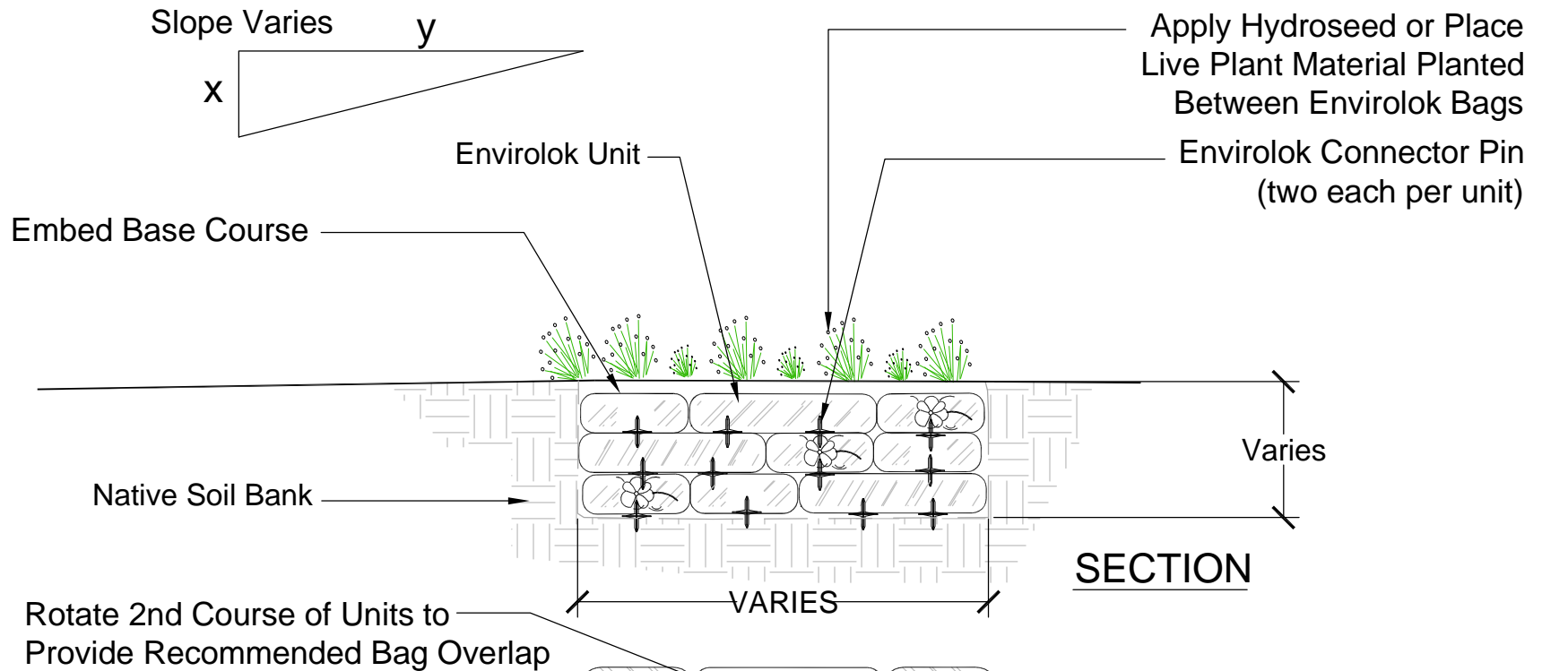
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SHEET S4-21

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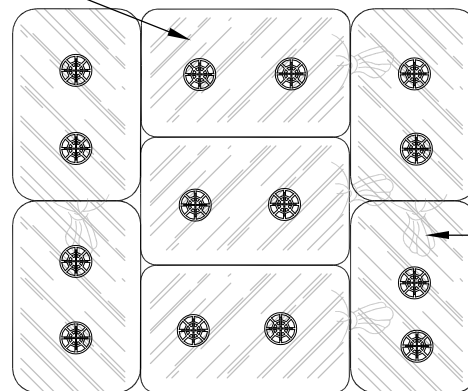
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REVISIONS



NOTES:

- Mattress Application Can Install on Flat Areas or Slopes up to 2.5H:1V
- Some Applications May Require Additional Spikes Between Bags and Base Course (2/ Bag)
- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions



PLAN

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TITLE MATTRESS STACKING DETAIL

DATE

SCALE

1/2" = 1' - 0"

SHEET
SHEET S4B-21

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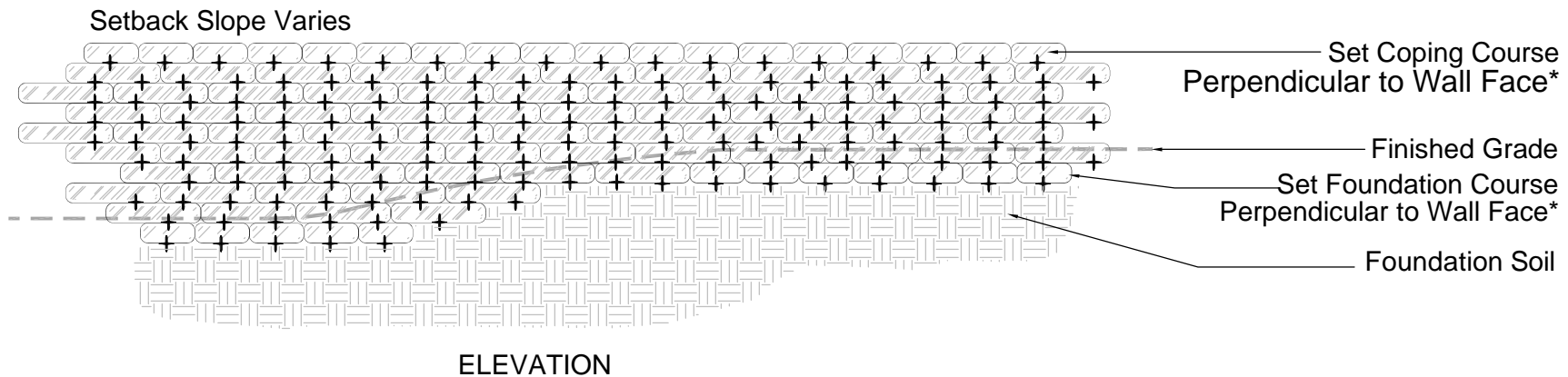
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REVISIONS

NOTE:

- Limit Changes in Foundation Course Elevation to Two Courses per Step to Avoid Differential Settling
- Install Steps as Needed to Minimize Number of Buried Units and Maintain Required Minimum Embedment
- Initial Foundation Course and Coping Course may be set Perpendicular to Face of Wall for Larger or More Complex Installations. Consult an Engineer for Walls over 48" in Exposed Height.*
- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions



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TITLE
**STEPPED FOUNDATION
COURSE DETAIL**

DATE
MARCH 2021

SCALE
1/4" = 1' - 0"

SHEET
SHEET S5-21



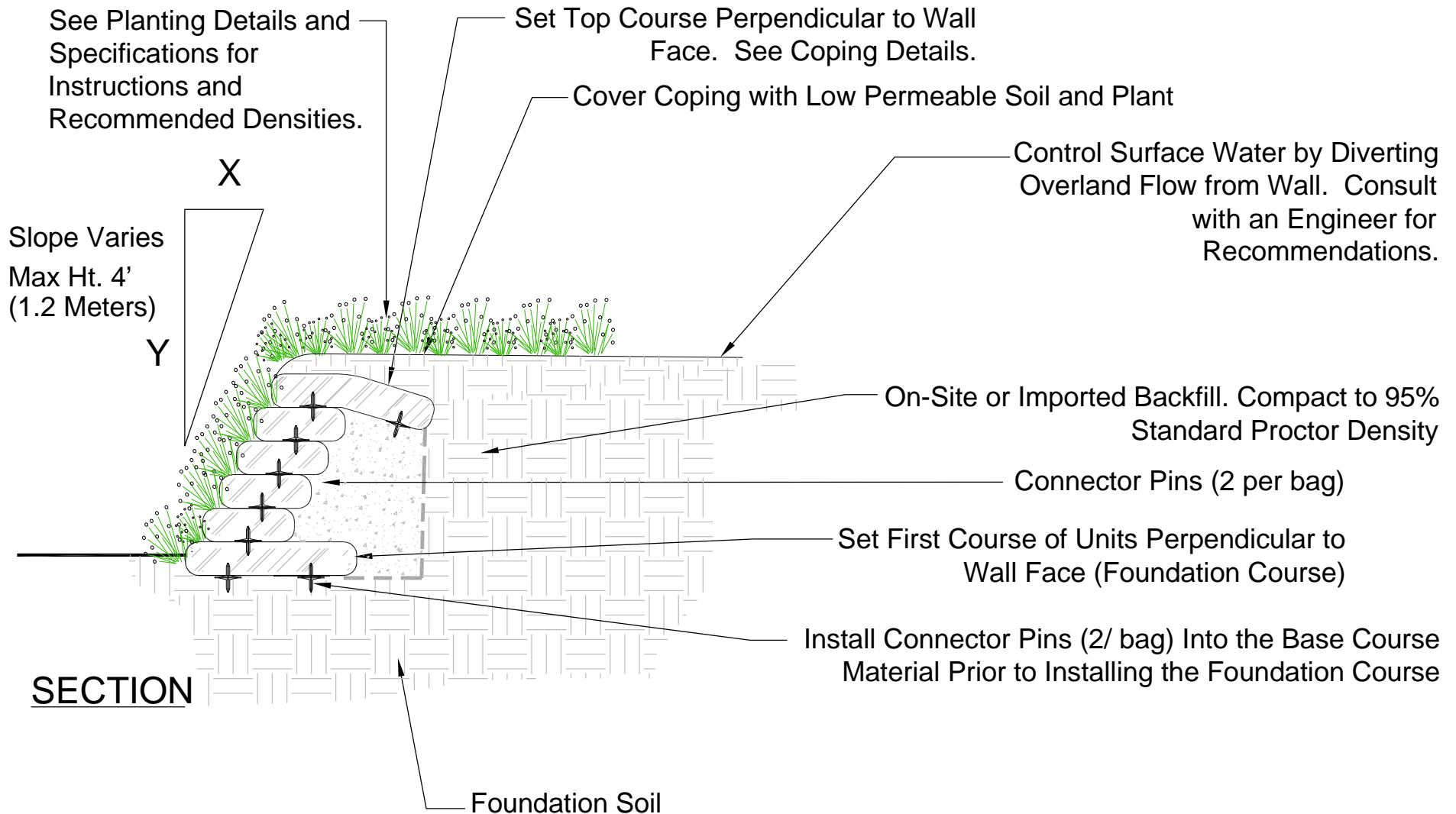
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NOTE:

- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions



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TITLE
STANDARD SLOPE
DETAIL 1 OF 2

DATE
MARCH 2021

SCALE
1/2" = 1' - 0"

SHEET
SHEET S6-21

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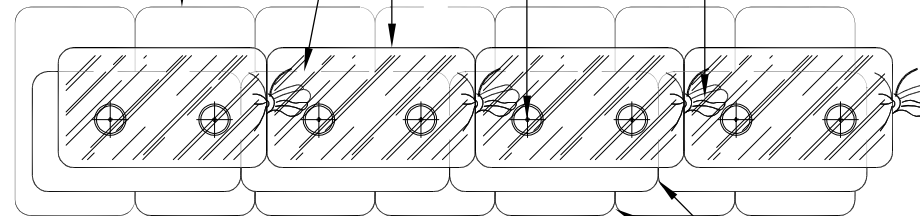
REVISIONS

Set Additional Courses Parallel to the Slope with Seam Facing Outward.

Envirolok Connector Pin
(two per bag)

Foundation Course may be Set Perpendicular to Slope with Snorkel Facing Inward

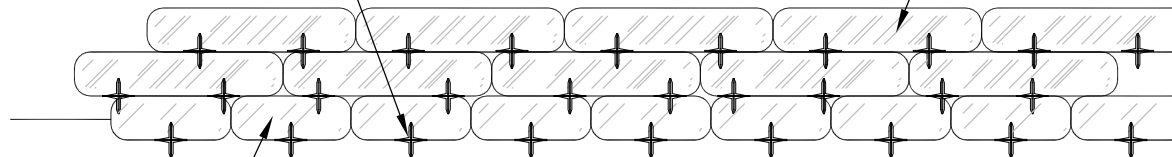
Set Bags with Snorkel Facing Out To Allow 'Snorkel' to be Tucked Below Adjoining Unit



PLAN VIEW

Install Connector Pins in Base Setting Course Prior to Setting Foundation Course (two per bag)

Stagger Bag Units Between Consecutive Rows



ELEVATION

Foundation Course to be Embedded a Minimum of 3" (7.5 cm), or as Specified by Project Designer or Engineer.

NOTE:

- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions

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TITLE
STANDARD SLOPE
DETAIL 2 OF 2

DATE
MARCH 2021

SCALE
1/2" = 1' - 0"

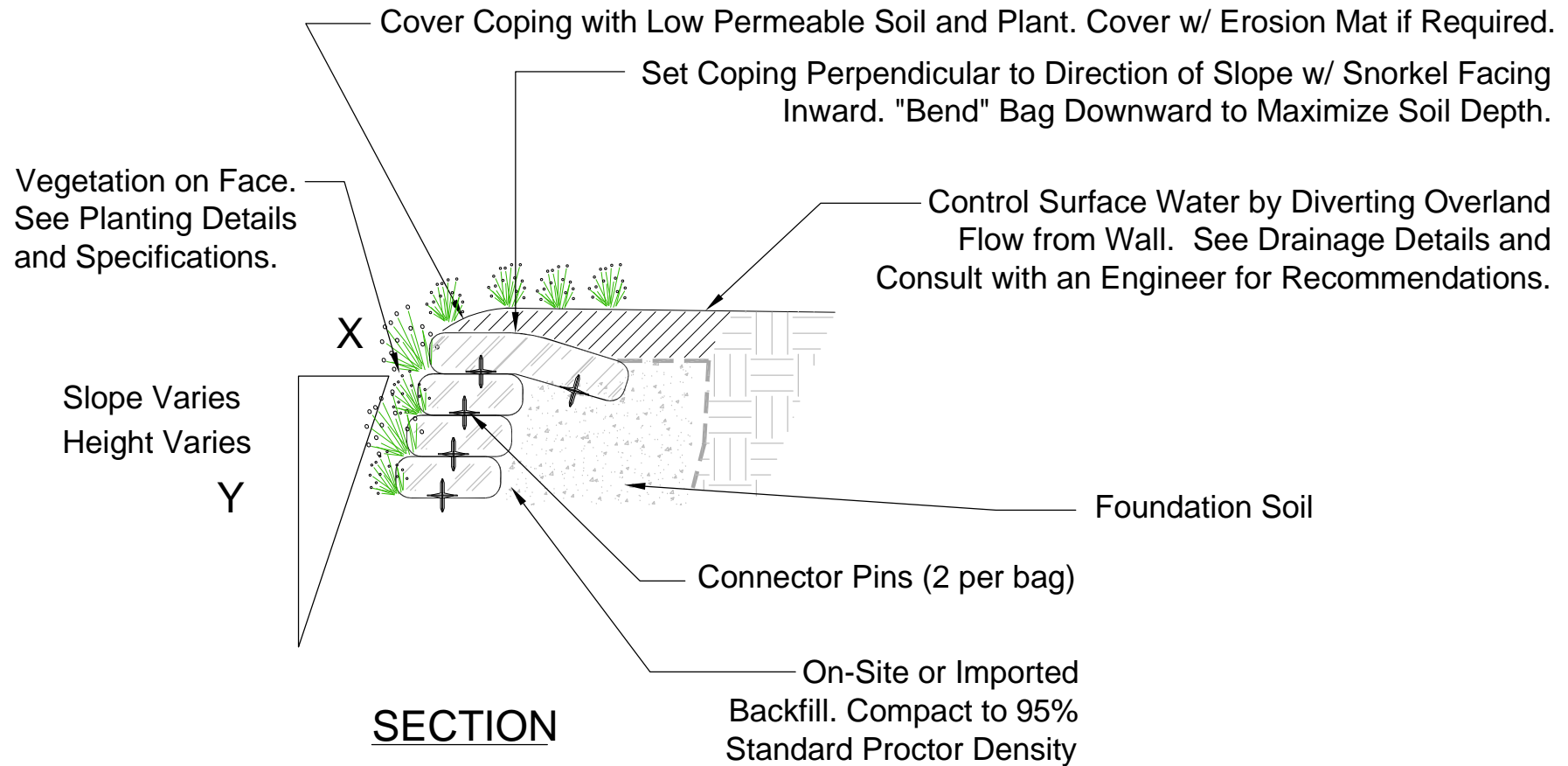
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NOTE:

- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions

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TITLE

**COPING COURSE
DETAIL 1 OF 2**

DATE

MARCH 2021

SCALE

1/2" = 1' - 0"

SHEET

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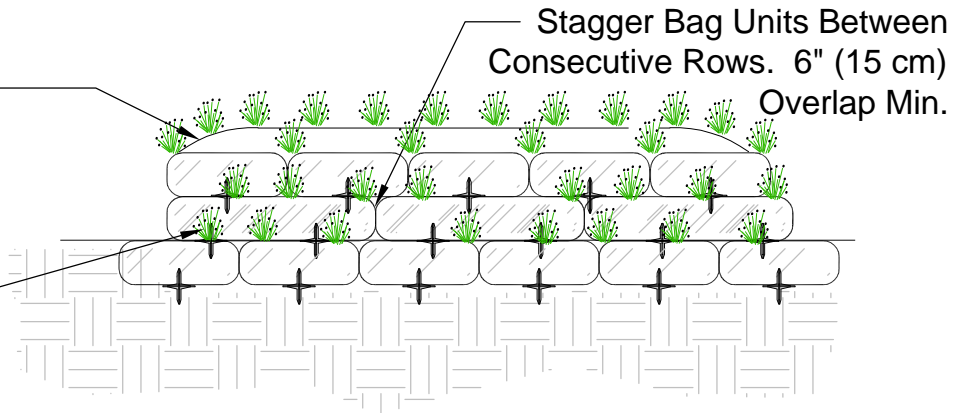
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REVISIONS

Cover Coping with Low Permeable Soil & Plants.
Do Not Rupture Bags

Vegetation on Face.
See Planting Details and Specifications.



ELEVATION

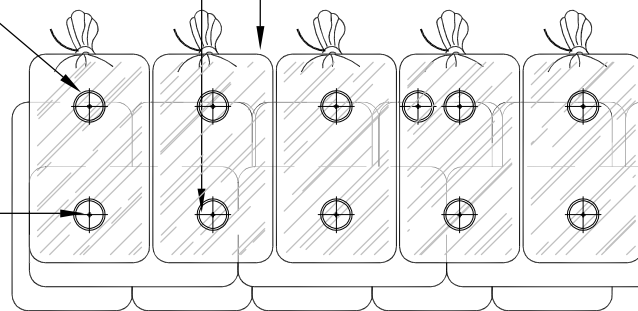
NOTE:

- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions

Set Inward Connector Pin in Compacted Backfill for Coping Bags

Center Connector Pin in Surface Contact Area of Bag Below for Coping Bags

Envirolok Connector Pin (two per bag)
Set Coping (Top Course) Perpendicular to Direction of Slope (Snorkel Facing Inward)



PLAN VIEW

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TITLE COPING COURSE DETAIL 2 OF 2

DATE
MARCH 2021

SCALE
1/2" = 1' - 0"

SHEET
SHEET S9-21

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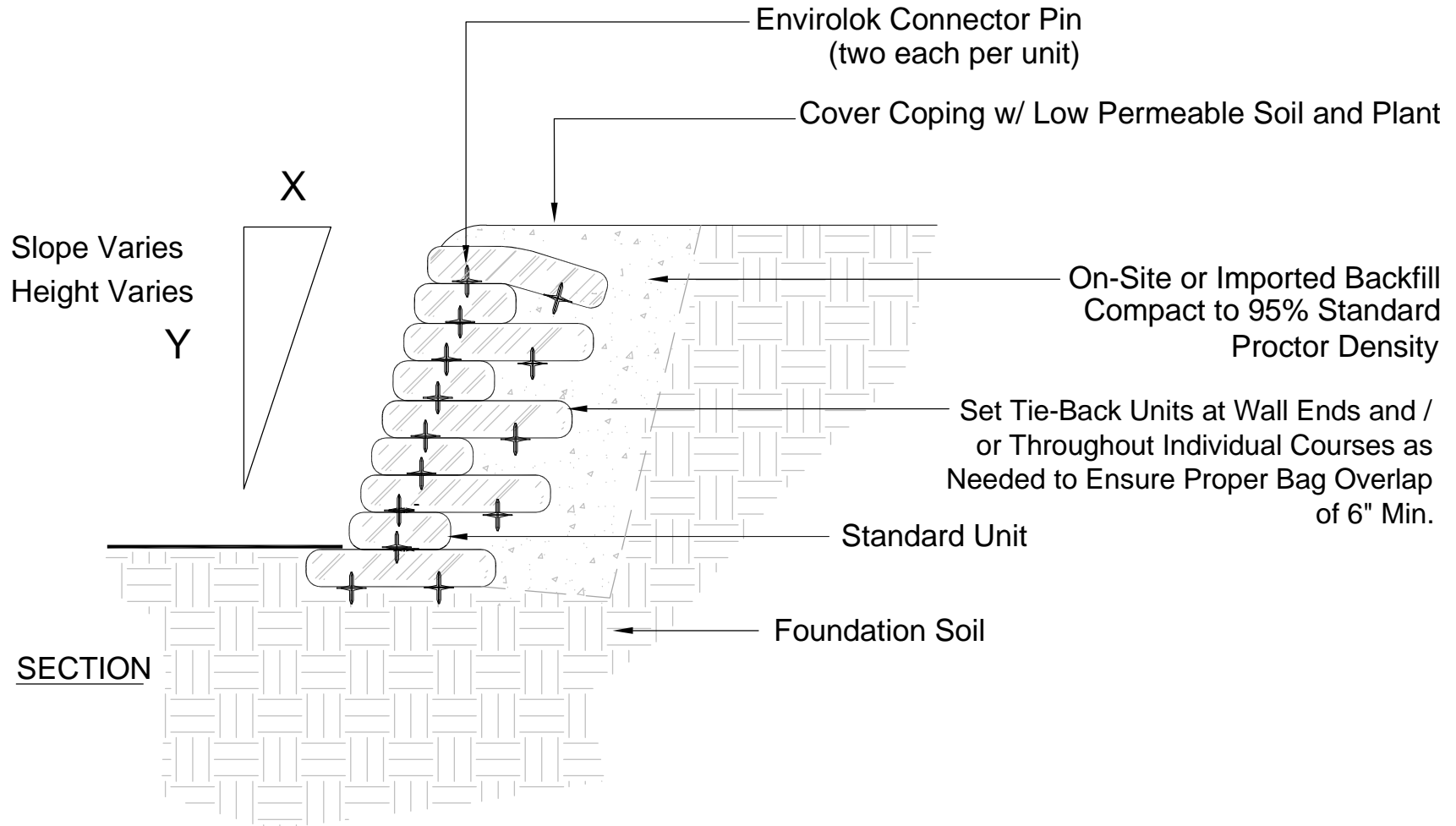
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NOTE:

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TITLE
TIE-BACK UNIT
DETAIL 1 OF 2

DATE
MARCH 2021

SCALE
1/2" = 1' - 0"

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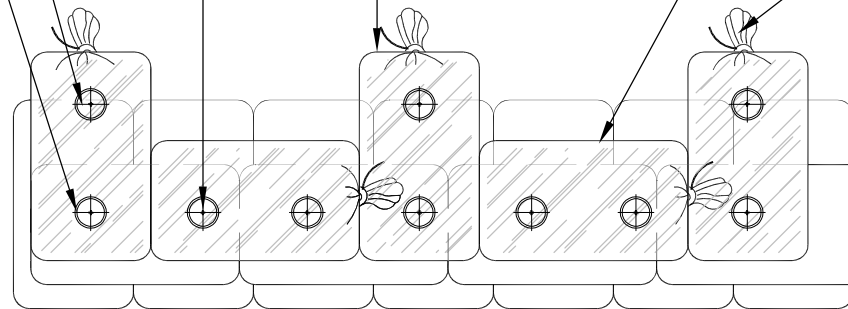
Set Inward Connector Pin
in Compacted Backfill for
Tie-Back Bags

Center Connector Pin in
Surface Contact Area of
Bag Below for Tie-Back
Bags

Envirolok Connector Pin
(two per bag)

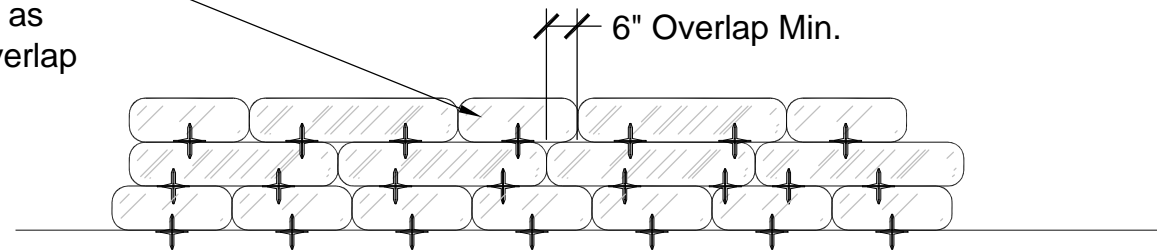
Tie-Back Unit
Standard Unit

Set Tie-Back Back Bags w/
Snorkel Facing Inward



PLAN VIEW

Set Tie-Back Units at Wall Ends and /
or Throughout Individual Courses as
Needed to Ensure Proper Bag Overlap
of 6" Min.



ELEVATION

NOTE:

- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions

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TITLE TIE-BACK UNIT DETAIL 2 OF 2

DATE
MARCH 2021

SCALE
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SHEET
SHEET S11-21

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REVISIONS

Control Surface Water by Diverting
Overland Flow from Wall.
Consult with an Engineer for
Recommendations.

Backfill or Retained Soil

Curve Proposed Wall into
Existing Bank 3-4' Min.

Foundation Course of
Envirolok Units

Existing Edge of Slope or
Wall. Restore and Vegetate
Disturbed Areas or Areas as
Required in Plan Set

Face of Slope

Plan View

NOTE:

- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions

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TITLE STANDARD WALL END DETAIL

DATE
MARCH 2021

SCALE
1/2" = 1' - 0"

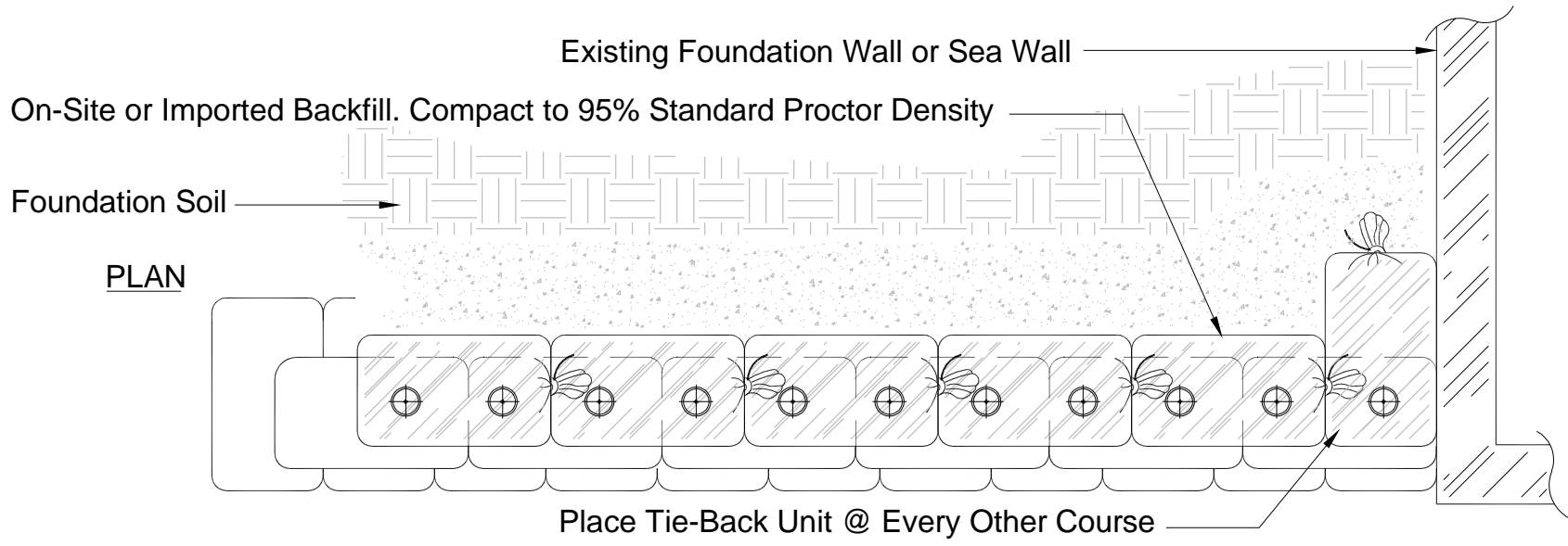
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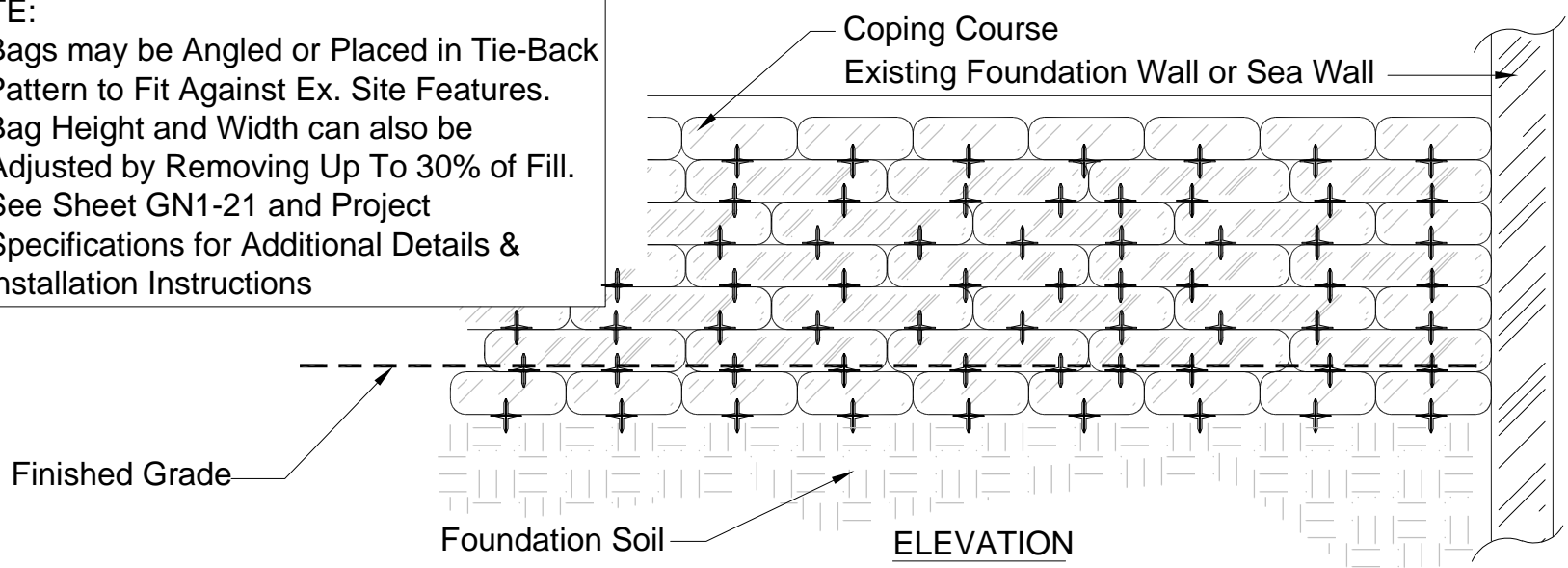
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REVISIONS



- NOTE:**
- Bags may be Angled or Placed in Tie-Back Pattern to Fit Against Ex. Site Features.
 - Bag Height and Width can also be Adjusted by Removing Up To 30% of Fill.
 - See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions



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TITLE WALL ABUTMENT DETAIL	
DATE MARCH 2021	SCALE 1/2" = 1' - 0"
SHEET SHEET S13-21	

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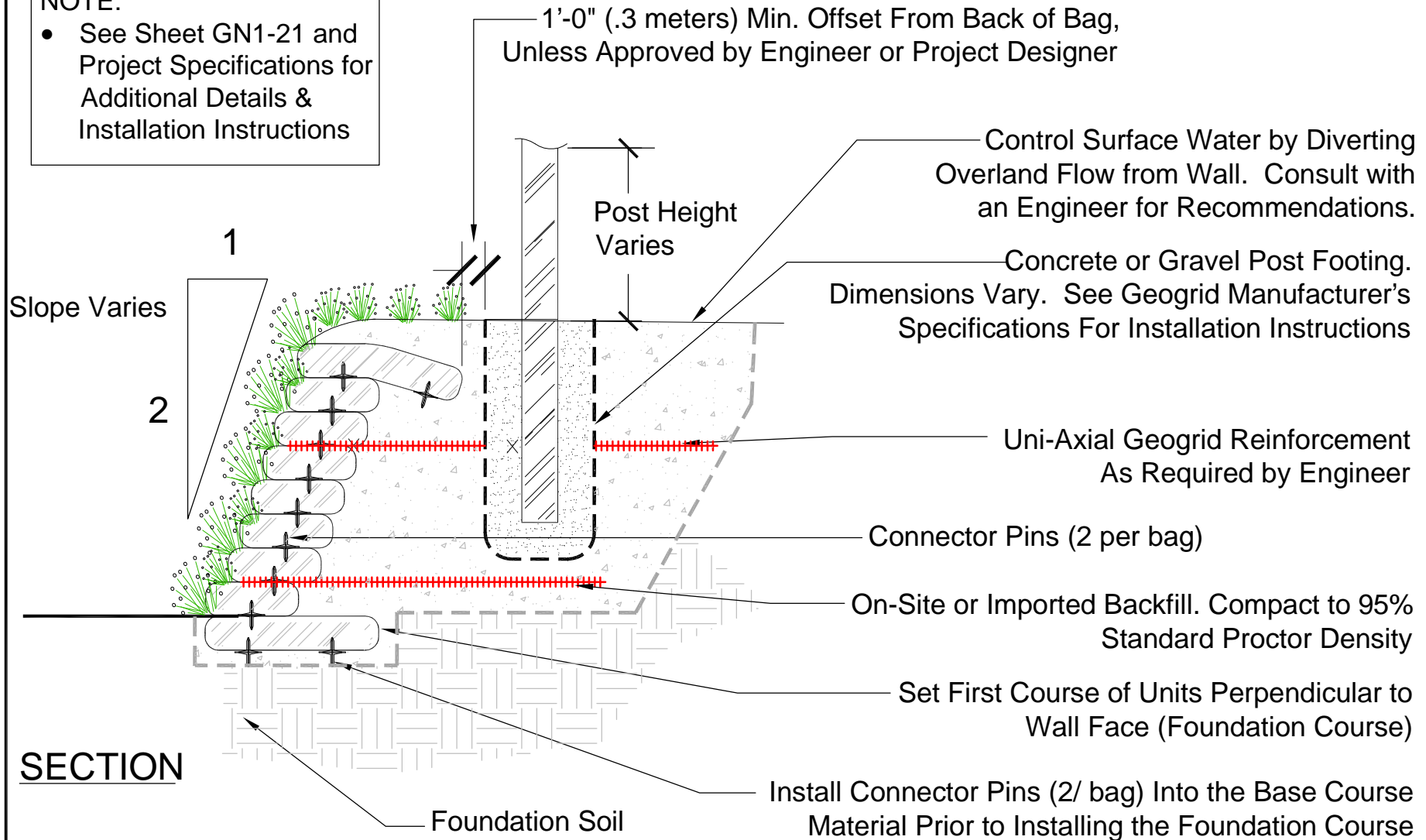
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NOTE:

- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions



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TITLE
**FENCE POST / RAILING
INSTALLATION DETAIL**

DATE
MARCH 2021

SCALE
1/2" = 1' - 0"

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