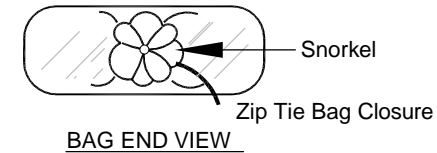
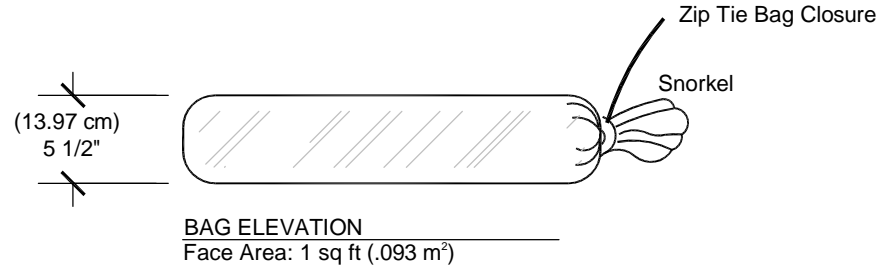


**NOTE:**

- 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 5 cm.
- 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: .0354 m<sup>3</sup>/unit (1.25 cu ft)
- Face Area (Slope Application): .093 m<sup>2</sup> (1 sq ft)
- Face Area (Mattress Application): .25 m<sup>2</sup>/unit (2.7 sq ft)

**ENVIROLOK BAG-FILL SPECIFICATION:**

- Bag-Fill Volume: .0354 m<sup>3</sup>/unit (1.25 cf)
- Bag-Fill Content: 80% Granular Sand / 20% Topsoil.
- Clear Gravel (19 mm) 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"

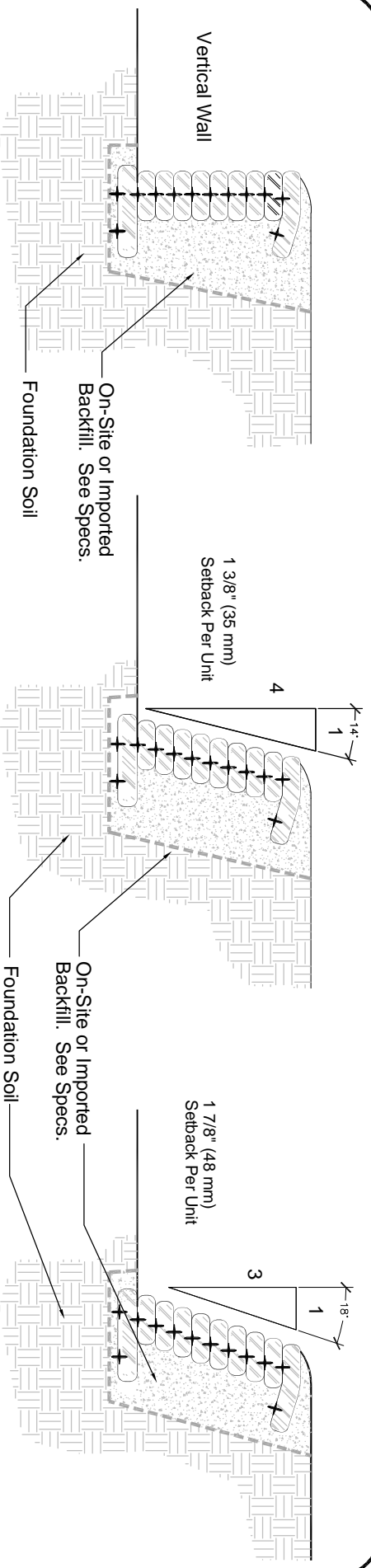
SHEET  
SHEET S1-21



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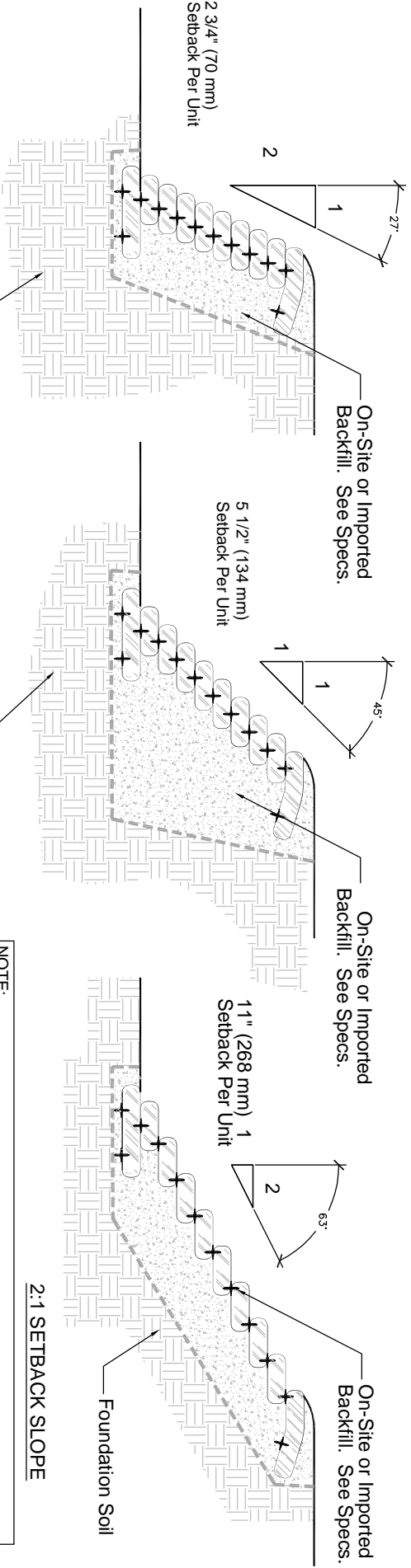
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**0:1 SETBACK SLOPE**

**1:4 SETBACK SLOPE**

**1:3 SETBACK SLOPE**



**1:2 SETBACK SLOPE**

**1:1 SETBACK SLOPE**

**2:1 SETBACK SLOPE**

- 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 GN1-2-1 and Project Specifications for Additional Details & Installation Instructions
  - Min. of 10 cm (4") Bag Overlap Required for Proper Spike Connection
  - See Sheets SD3-21 & 4-21 for Slopes < 2H:1V

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**TITLE**

**STANDARD SETBACKS  
FOR SLOPE APPLICATIONS**

DATE	SCALE
MARCH 2021	1/4" = 1' - 0"
SHEET	
SHEET S2.21	

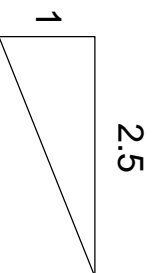


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- NOTE:**
- See Sheet GN1-21 and Project Specifications for Additional Details & Installation Instructions

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 10 cm (4") OVERLAP REQUIRED FOR PROPER SPIKE CONNECTION.

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

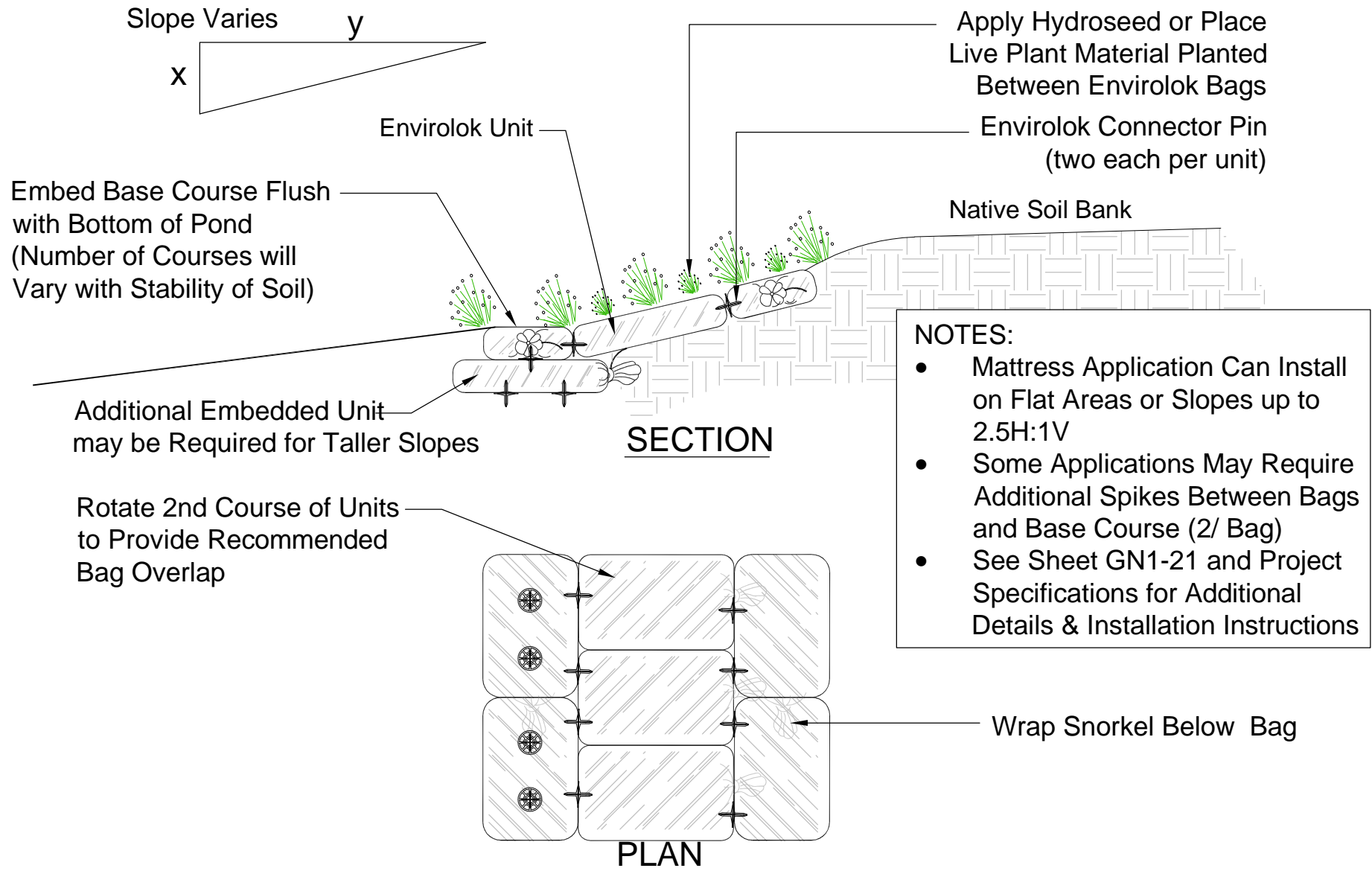
DATE	SCALE
MARCH 2021	1/2" = 1' - 0"
SHEET	
SHEET S3-21	

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TITLE  
**MATTRESS APPLICATION  
DETAIL**

DATE

SCALE  
1/2" = 1' - 0"

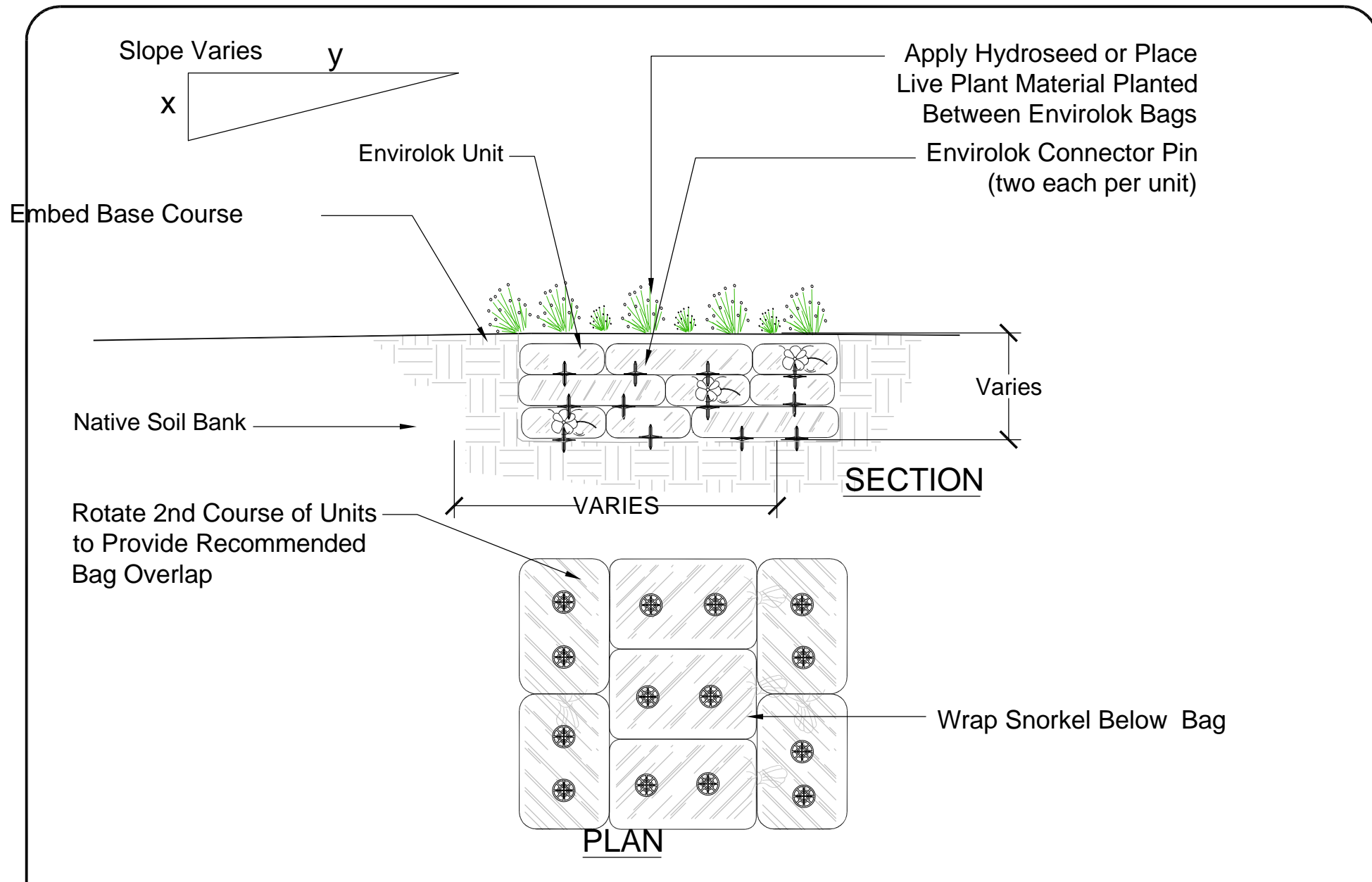
SHEET  
SHEET S4-21

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TITLE  
**MATTRESS STACKING  
DETAIL**

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

SHEET  
SHEET S4B-21

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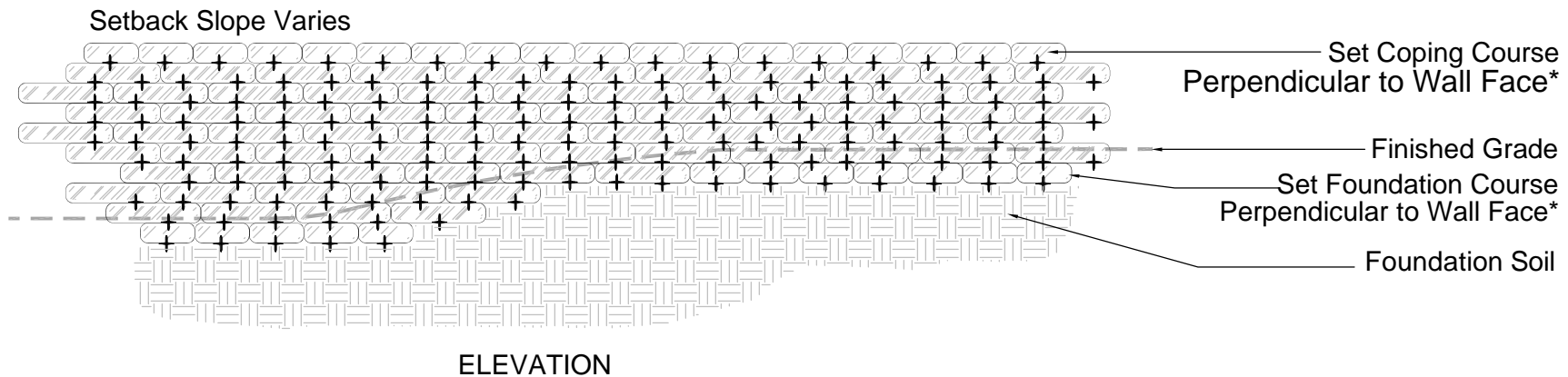
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**NOTE:**

- 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 1 m in Exposed Height.\*
- See Sheet GN1-20 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

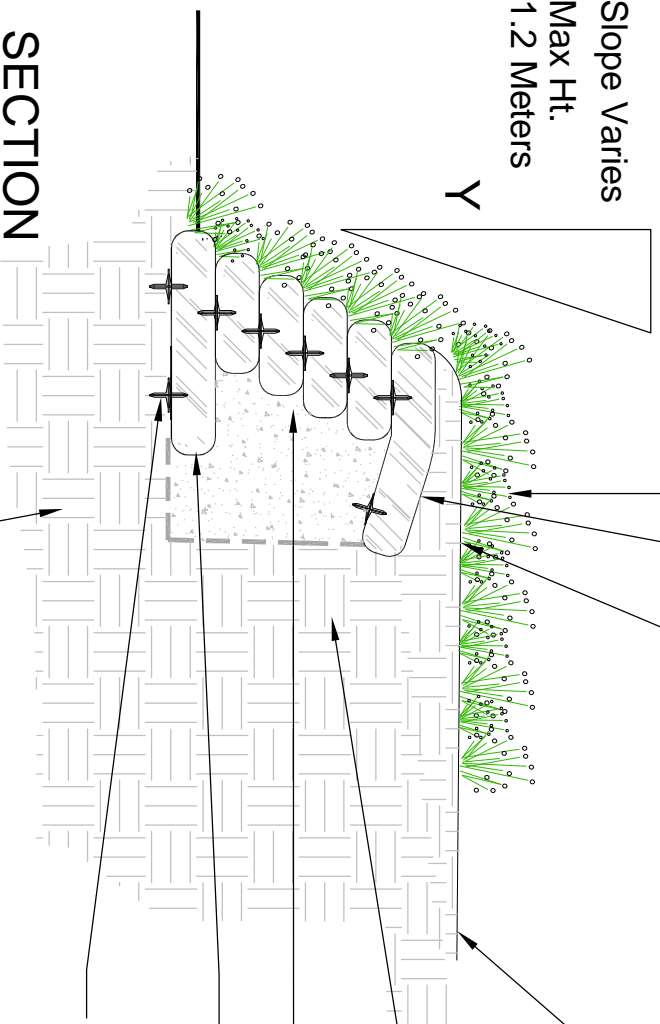
See Planting Details and Specifications for Instructions and Recommended Densities.

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

Cover Coping with Low Permeable Soil and Plant

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

Slope Varies  
Max Ht.  
1.2 Meters



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

Connector Pins (2 per bag)

Set First Course of Units Perpendicular to Wall Face (Foundation Course)

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

Foundation Soil

**SECTION**

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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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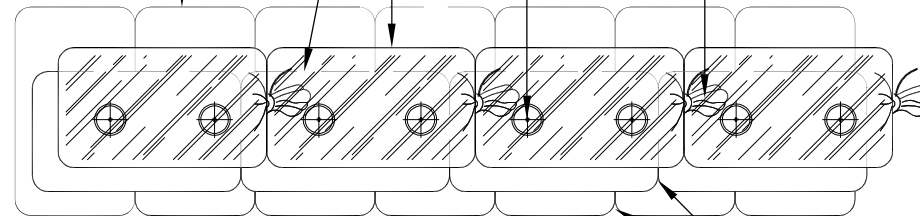


Set Additional Courses Parallel to the Slope with Seam Facing Outward.

Envirolok Connector Pin  
(two per bag)

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

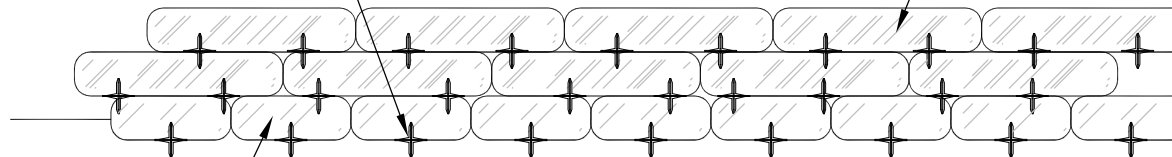
Set Bags with Snorkel Facing Out To Allow 'Snorkel' to be Tucked Below Adjoining Unit



**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"

SHEET  
SHEET S7-21

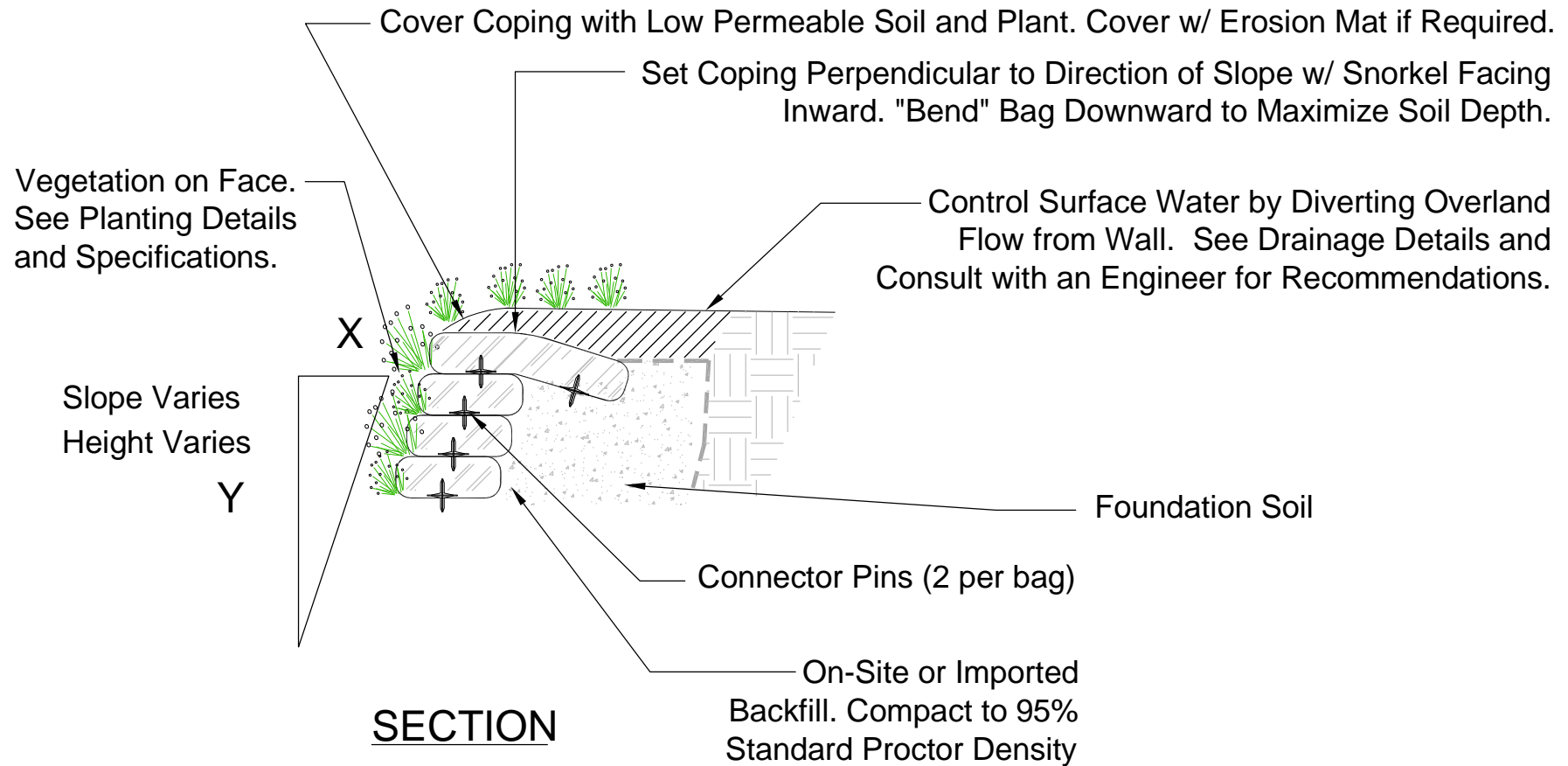
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**NOTE:**

- 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  
SHEET S8-21

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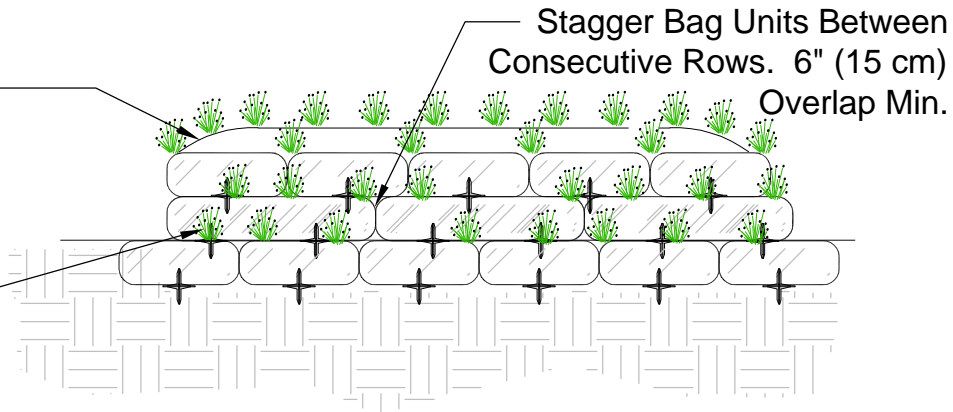
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**REVISIONS**

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

Vegetation on Face. See Planting Details and Specifications.



## ELEVATION

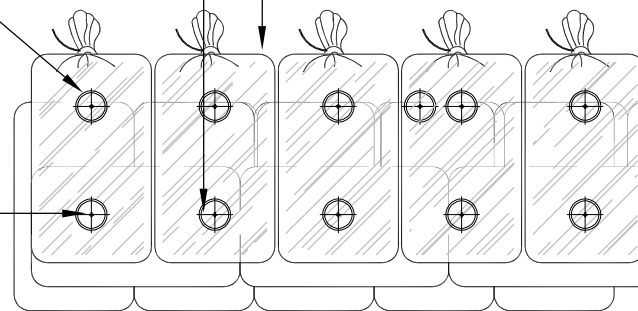
### NOTE:

- 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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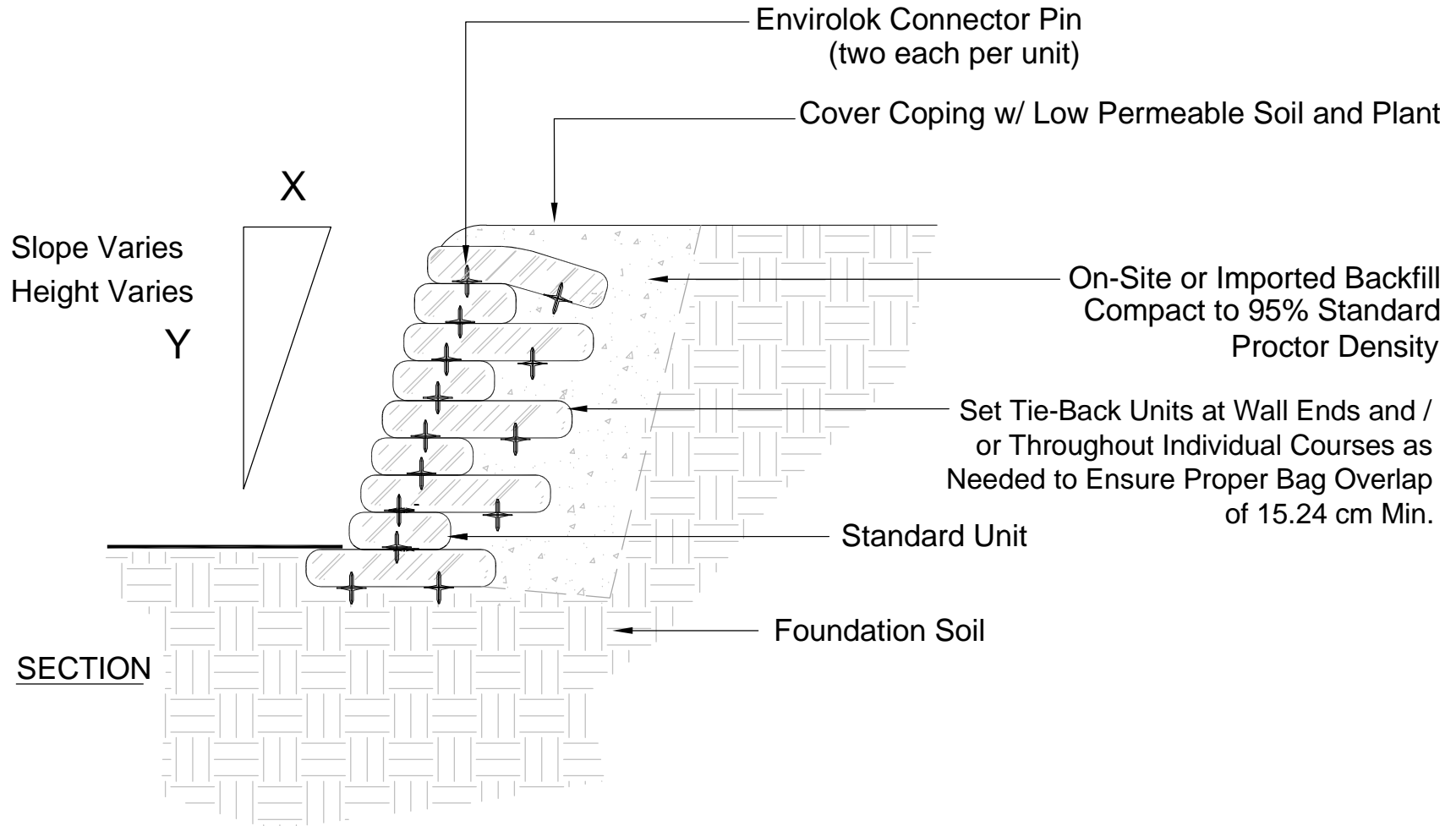
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**NOTE:**

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



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**TITLE**  
**TIE-BACK UNIT**  
**DETAIL 1 OF 2**

**DATE**  
MARCH 2021

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

**SHEET**  
SHEET S10-21

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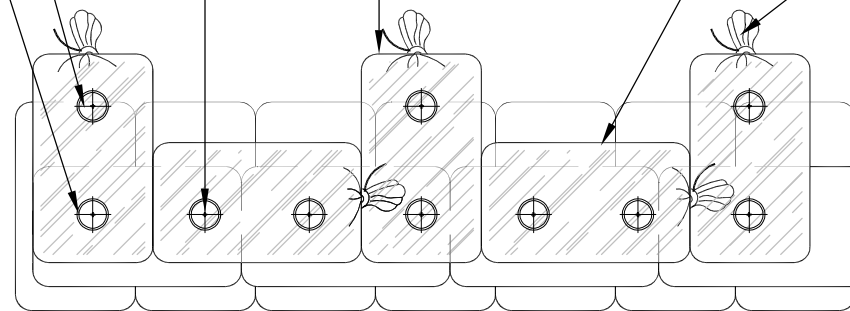
Set Inward Connector Pin  
in Compacted Backfill for  
Tie-Back Bags

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

Envirolok Connector Pin  
(two per bag)

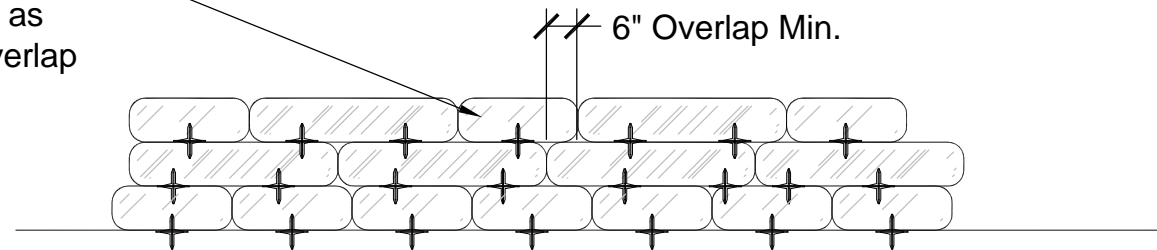
Tie-Back Unit  
Standard Unit

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  
1/2" = 1' - 0"

SHEET  
SHEET S11-21

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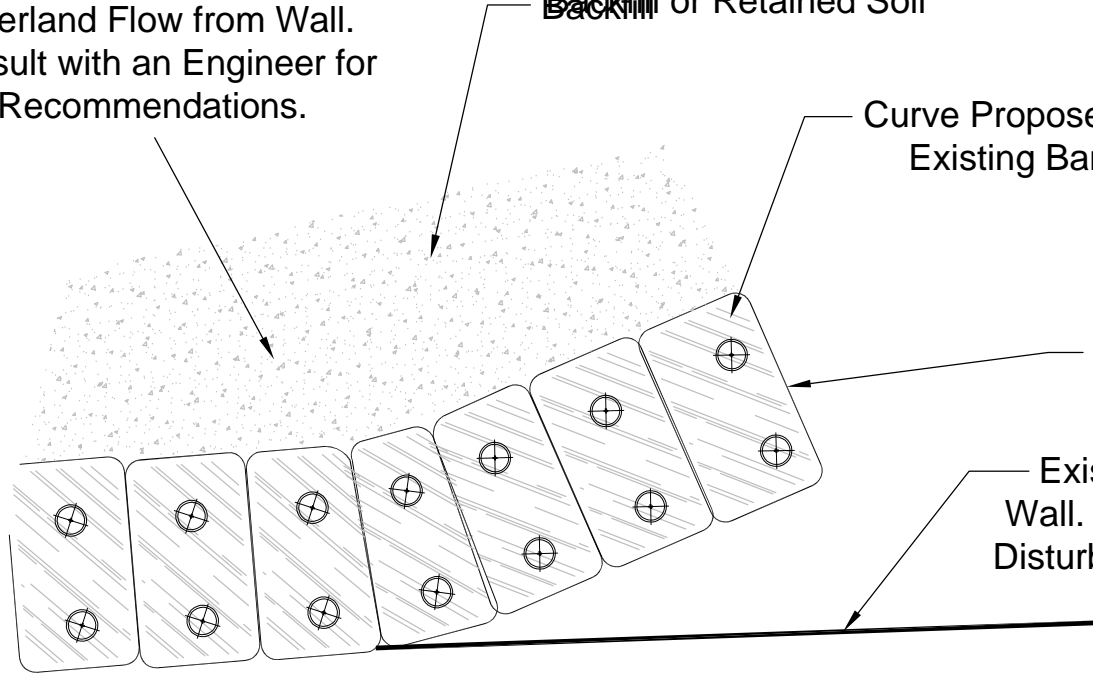
Control Surface Water by Diverting  
Overland Flow from Wall.  
Consult with an Engineer for  
Recommendations.

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

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TITLE  
**STANDARD WALL END  
DETAIL**

DATE  
MARCH 2021

SCALE  
1/2" = 1' - 0"

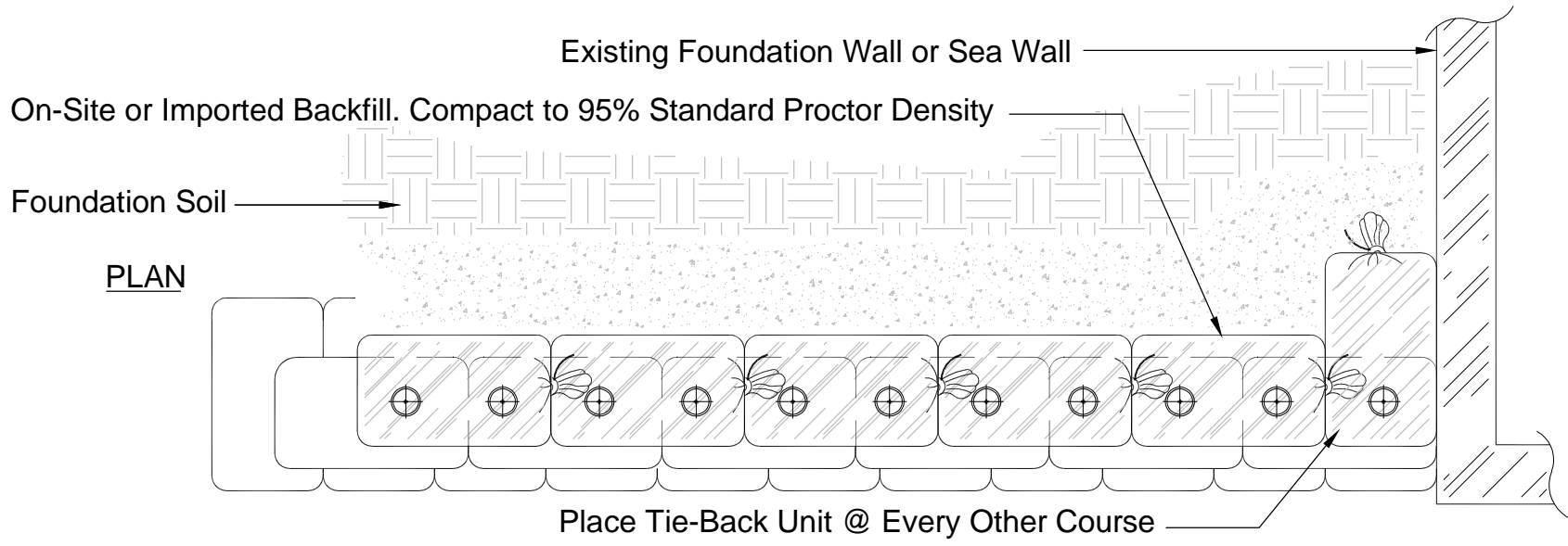
SHEET  
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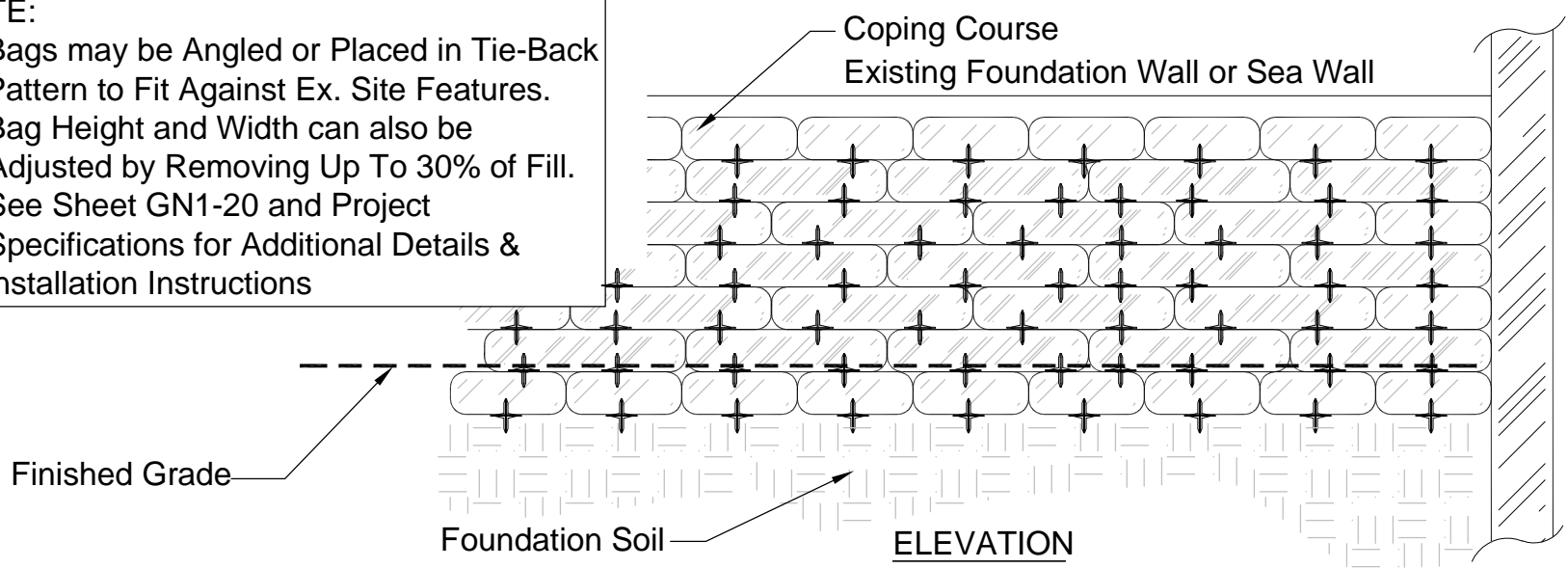
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REVISIONS



- 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 GN1-20 and Project Specifications for Additional Details & Installation Instructions



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



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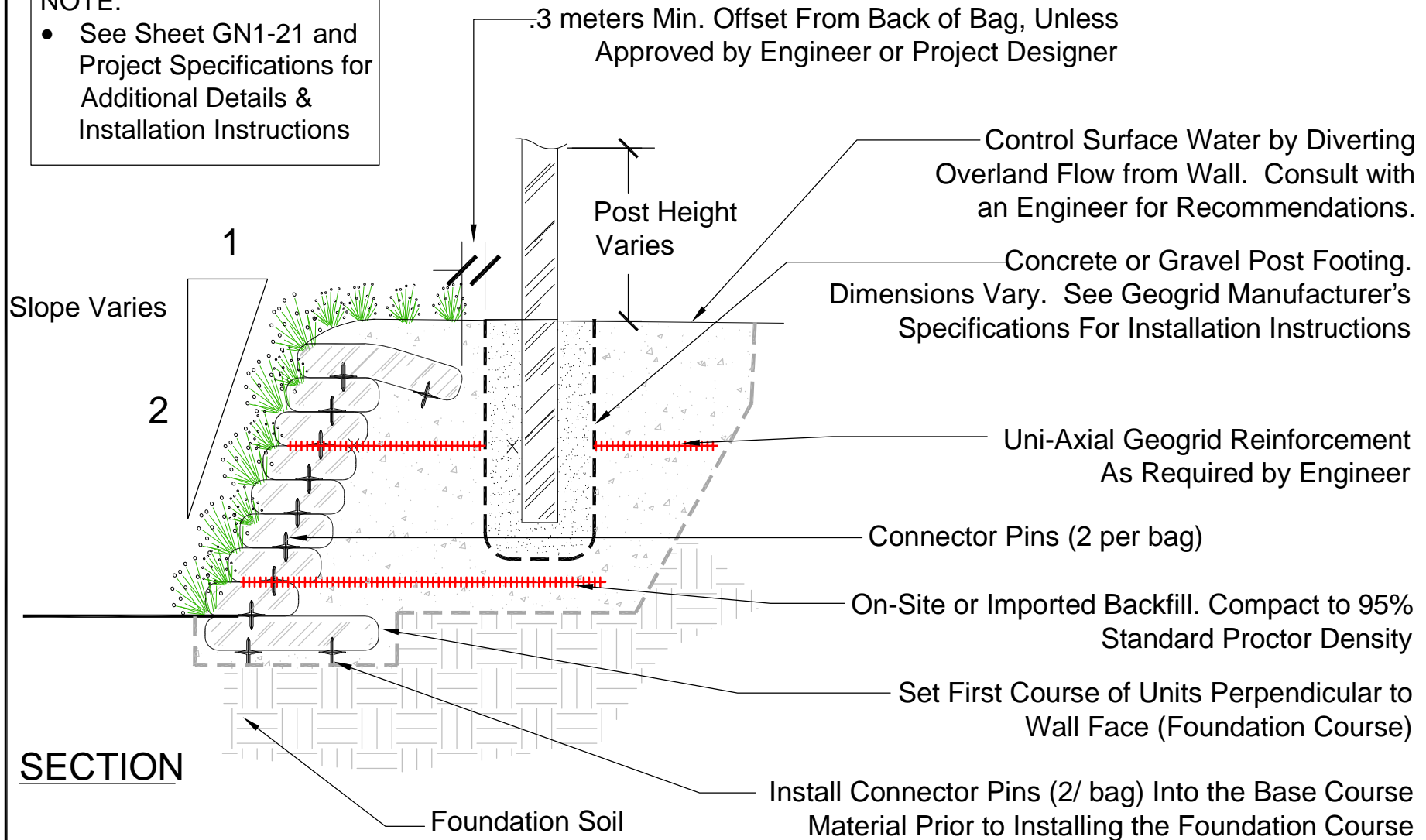
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**NOTE:**

- 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"

**SHEET**  
SHEET S14-21

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