NOTES:
1. ATRA ANCHORS SHALL CONSIST OF NO. 4 REBAR WITH AN ATRA STAKE CLIP INSERTED INTO THE END OF THE REBAR. LENGTH OF THE ATRA ANCHORS SHALL BE AS SPECIFIED.
2. PRE-ASSEMBLED ATRA GRIP (POLYMER) ARE AVAILABLE FROM PRESTO GEOSYSTEMS.
3. THE GEOWEB SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
4. THE GEOWEB SECTIONS SHALL BE ANCHORED TO RESIST SLIDING DUE TO GRAVITY AND HYDRAULIC FORCES.
5. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
6. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
7. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.

STAKE ANCHOR INSTALLATION

STEPS:
1. POSITION THE ATRA ANCHOR NEXT TO THE UP-SLOPE CELL WALL.
2. DRIVE ATRA ANCHOR INTO THE GROUND UNTIL ARM OF ATRA ANCHOR IS LOCATED ABOVE GEOWEB CELL WALL.
3. ENGAGE ARM OF ATRA ANCHOR TO CELL WALL AND DRIVE UNTIL TIGHT.

ATRA ANCHOR DETAIL

NO. 4 REBAR
ATRA STAKE CLIP CONNECTED TO REBAR

PRESO PRODUCTS CO.
670 NORTH PERKINS STREET
APPALOOSA, WI. 54812
920-739-1338
WWW.PRESTOGE.com

GEOSYSTEMS

GENUINE GEOWEB®
SLOPE WITH ATRA ANCHORS

PRESTO, GEOWEB, AND ATRA ARE REGISTERED TRADEMARKS® OF PRESTO PRODUCTS.

DATE: NOVEMBER 2019
FILE NAME: OWLY11.EWE

SCALE: NTS
SHEET: 1
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NOTES:
1. ATRA GFRP ANCHORS SHALL CONSIST OF MOLDED GFRP (POLYMER) WITH AN ATRA STAKE CLIP INSERTED INTO THE END OF THE REBAR.
2. ATRA GFRP ANCHORS ARE PRE-ASSEMBLED.
3. LENGTH OF THE ATRA GFRP ANCHORS SHALL BE AS SPECIFIED.
4. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
5. THE GEOWEB SECTIONS SHALL BE ANCHORED TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
6. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET, HYDROSEED, OR A TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
7. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
8. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.

ATRA GFRP ANCHOR INSTALLATION
STEPS:
1. POSITION THE ATRA GFRP ANCHOR NEXT TO THE UP-SLOPE CELL WALL.
2. DRIVE ATRA GFRP ANCHOR INTO THE GROUND UNTIL ARM OF ATRA GFRP ANCHOR IS LOCATED ABOVE GEOWEB CELL WALL.
3. ENGAGE ARM OF ATRA GFRP ANCHOR TO CELL WALL AND DRIVE UNTIL TIGHT.

ATRA GFRP ANCHOR DETAIL

SECTION A - A

SECTION B - B

PRESTO® PRODUCTS CO.
670 NORTH PERKINS STREET
APPLETON, WI 54914
920-739-1328
WWW.PRESTOGEO.COM

GENUINE GEOWEB® SLOPE WITH ATRA GFRP ANCHORS
PRESTO® GEOWEB® AND ATRA® ARE REGISTERED TRADEMARKS OF PRESTO GEOSYSTEMS.

DATE: NOVEMBER 2019
FILE NAME: GMSL2.DWG
SCALE: NTS
SHEET: 1
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NOTES:
1. ATRA SPEED STAKES SHALL CONSIST OF SINGLE PIECE MOLDED HDPE POLYMER WITH THREE SETS OF BARBS.
2. LENGTH OF THE ATRA SPEED STAKES SHALL BE AS SPECIFIED.
3. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
4. THE GEOWEB SECTIONS SHALL BE ANCHORED TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
5. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET, HYDROSED, OR A TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
6. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
7. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.

ATRA SPEED STAKE INSTALLATION

STEPS:
1. POSITION THE ATRA SPEED STAKE NEXT TO THE UP-SLOPE CELL WALL.
2. DRIVE ATRA SPEED STAKE INTO THE GROUND UNTIL ARM OF ATRA SPEED STAKE IS LOCATED ABOVE GEOWEB CELL WALL.
3. ENGAGE ARM OF ATRA SPEED STAKE TO CELL WALL AND DRIVE UNTIL TIGHT.

ATRA SPEED STAKE DETAIL

SECTION A - A

Typical ATRA Speed Stake System

Provide ATRA key connection for each end to end and interleaf connection (Typ)

LENGTH VARIES

Genuine Geoweb® Slope Protection System with Specified Infill

Vegetation (if desired). See Note 5

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1. The type and quantity of tendons and ATRA tendon clips shall be as specified.
2. The geoweb cells shall be filled with the specified material (topsoil, stone, or concrete) and shall be suitable to withstand the applicable hydraulic conditions.
3. The geoweb sections shall be anchored at the crest to resist sliding due to driving and hydraulic forces.
4. If vegetation is desired, provide an erosion control blanket, hydrosed, or a turf reinforcement mat if there is a potential for erosion prior to establishing vegetation.
5. The geoweb panels shall be connected with ATRA keys at each interleaf and end to end connection.
6. Refer to the general detail drawings for anchor details.
**NOTES:**

1. THE TYPE AND QUANTITY OF TENDONS, ATRA TENDON CLIPS AND STAKE ANCHORS SHALL BE AS SPECIFIED.
2. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
3. THE GEOWEB SECTIONS SHALL BE ANCHORED AT THE CREST TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
4. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET, HYDROSEED, OR A TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHMENT VEGETATION.
5. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
6. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.

**TENDON DATA**

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<thead>
<tr>
<th>TENDON TYPE</th>
<th>WIDTH, IN (MM)</th>
<th>BREAK STRENGTH, LBF (KN)</th>
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<tbody>
<tr>
<td>TP-67</td>
<td>0.75 (19)</td>
<td>1505 (6.70)</td>
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<tr>
<td>TP-93</td>
<td>0.75 (19)</td>
<td>2590 (11.60)</td>
</tr>
<tr>
<td>TP-225</td>
<td>1.25 (32)</td>
<td>5100 (22.7)</td>
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<tr>
<td>WOVEN POLYPROPYLENE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TP-35</td>
<td>0.25 (6)</td>
<td>1250 (5.56)</td>
</tr>
<tr>
<td>KEVLAR</td>
<td>0.75 (19)</td>
<td>4000 (17.8)</td>
</tr>
</tbody>
</table>

**PRESTO® PRODUCTS CO.**
670 NORTH PERKINS STREET
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920-739-1628
WWW.PRESTOCO.COM

**Genuine Geoweb® Slope with Tendon and Stake Anchorage**

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**Date:** November 2019

**File Name:** OWSLUF.DWG

PRESTO GEOSYSTEMS

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SCALE 1"=10' SHEET 1
Notes:
1. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
2. IF FULL SURFACE VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET, HYDROSEED, OR A TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
3. THE GEOWEB SECTIONS SHALL BE ANCHORED AT THE CREST TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
4. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
5. CUT THE GEOWEB PANELS TO FIT CLOSELY TO THE ROOT BALL. CONNECT THE CUT PANELS TO THE ADJACENT PANELS WITH ATRA KEYS.
6. LIMIT THE DROP OF THE INFILL TO PREVENT PANEL DISTORTION.