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 GFRP (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

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

NOTE: THE GEOWEB SYSTEM DESCRIBED HERE IS A GENUINE GEOWEB® SLOPE PROTECTION SYSTEM WITH SPECIFIED INFILL. VEGETATION, IF DESIRED, REFER TO NOTES.

TYPICAL ATRA ANCHOR SYSTEM

PROVIDE ATRA KEY CONNECTION FOR EACH END TO END AND INTERLEAF CONNECTION (TYP)

LENGTH VARIES

PLAN VIEW
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

PRESTO® PRODUCTS CO.
670 NORTH PERSONS STREET
APPLETON, WI 54914
920-730-1392
WWW.PRESTOGEO.COM

GENUINE GEOWEB® SLOPE WITH ATRA GFRP ANCHORS

PRESTO® GEOWEB® AND ATRA® ARE REGISTERED TRADemarks OF PRESTO PRODUCTS.

DATE NOVEMBER 2019 FILE NAME 001172.DWG
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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, HYDROSEED, 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

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

GENUINE GEOWEB® SLOPE WITH ATRA SPEED STAKES

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

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NOTES:
1. THE TYPE AND QUANTITY OF TENDO ns, 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 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.

TENDON DATA

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<th>TENDON TYPE</th>
<th>WIDTH, IN OHM</th>
<th>BREAK STRENGTH, LB IN CMH</th>
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<td>TP-67</td>
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WEAVING POLYPROPYLENE

| TFR-55      | 25 (6)        | 1250 (5.56)               |

KEVLAR

| TK-170      | 0.75 (19)     | 4000 (17.0)               |

PLAN VIEW

- SPECIFIED TENDON THROUGH I-SLOT IN CELL WALL
- PROVIDE ATRA KEY CONNECTION FOR EACH END TO END AND INTERLEAF CONNECTION (TYP)
- ATRA TENDON CLIP ENGAGED WITH GEOWEB CELL WALL AND TENDON

SECTION A - A

- GEOTEXTILE (IF REQUIRED)
- ATRA TENDON CLIP ENGAGED WITH GEOWEB CELL WALL AND TENDON

TYPICAL TENDON AND STAKE ANCHOR SYSTEM

- SPECIFIED TENDON THROUGH I-SLOT IN CELL WALL
- PROVIDE ATRA KEY CONNECTION FOR EACH END TO END AND INTERLEAF CONNECTION (TYP)
- ATRA TENDON CLIP ENGAGED WITH GEOWEB CELL WALL AND TENDON

SECTION B - B

- GEOTEXTILE (IF REQUIRED)
- ATRA TENDON CLIP ENGAGED WITH GEOWEB CELL WALL AND TENDON

STAKE ANCHORAGE (SPACING AS SPECIFIED)

STAKE ANCHORAGE

GEOWEB CLIP

PRESO PRODUCTS CO. INC.
670 NORTH PERKINS STREET
APPLETON, WI 54914
920-735-1328
WWW.PREOSTO.COM

GENUINE GEOWEB SLOPE PROTECTION
SYSTEM WITH SPECIFIED INFILL.

VEGETATION (IF DESIRED)
SEE NOTE 4

STAKE ANCHORAGE (ATRA ANCHOR, ATRA CFRP ANCHOR, OR ATRA SPEED STAKE)

REFERENCES:
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DATE: NOVEMBER 2019
FILE NAME: OWSLF_DWG
SCALE: NTS
SHEET: 1
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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 CRESC 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.