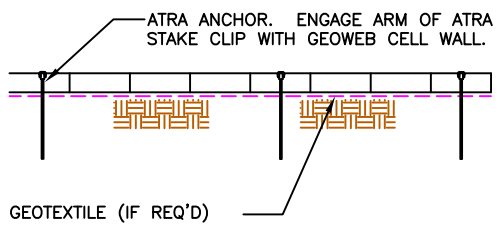
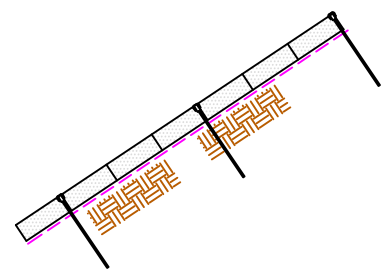


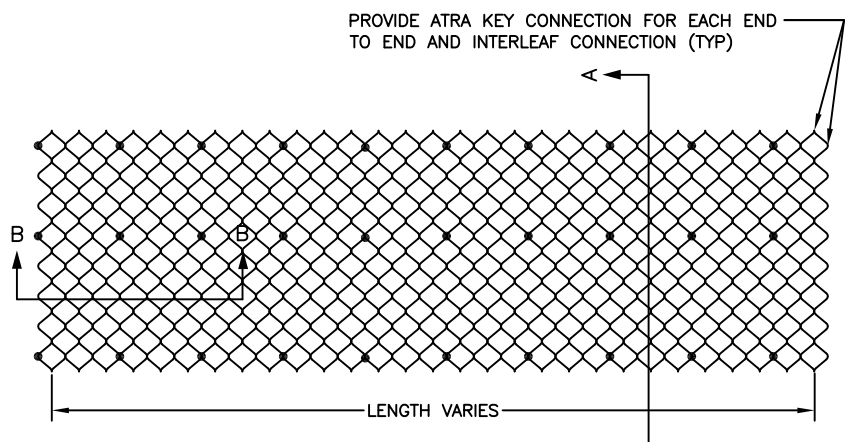
TYPICAL ATRA ANCHOR SYSTEM



SECTION A - A



SECTION B - B



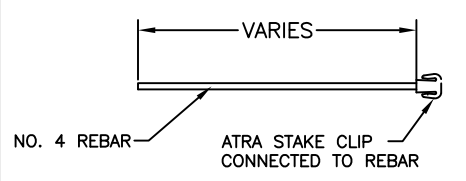
PLAN VIEW

- 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 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 DRIVING 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 STAKE CLIP IS LOCATED ABOVE GEOWEB CELL WALL.
  3. ENGAGE ARM OF ATRA STAKE CLIP TO CELL WALL AND DRIVE UNTIL TIGHT.

ATRA ANCHOR DETAIL



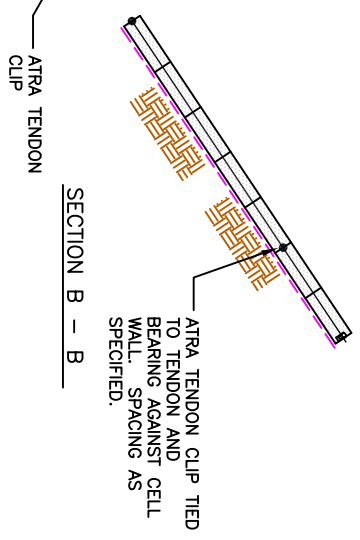
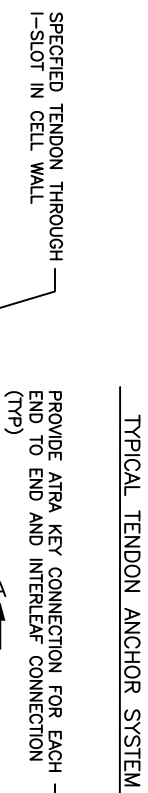
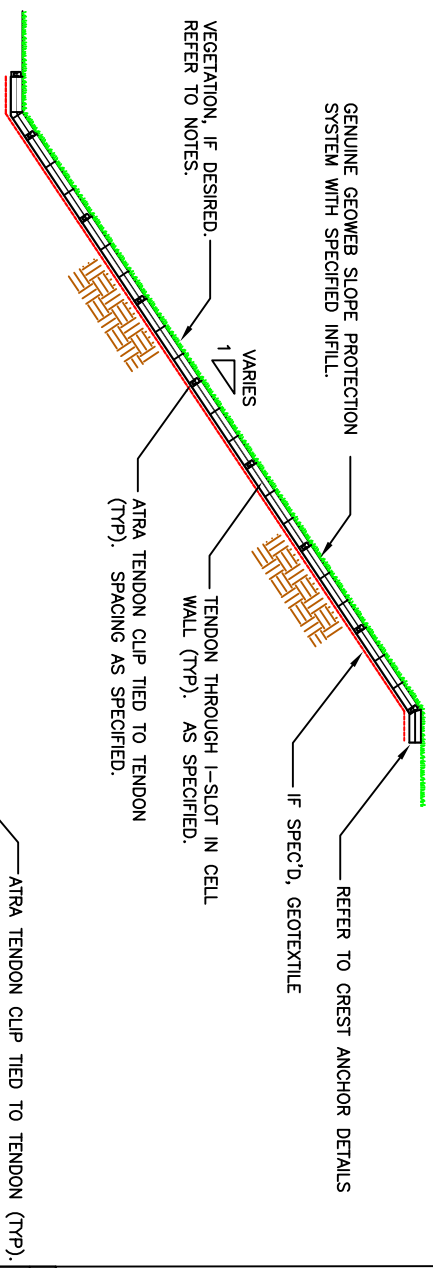
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GENUINE GEOWEB®  
SLOPE WITH ATRA ANCHORS

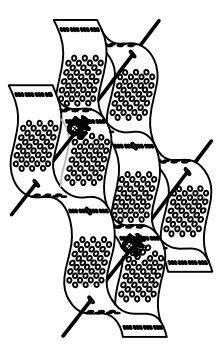
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| DATE                     | JUNE 2013 | FILE NAME | GWSL1F.DWG |
| SCALE                    | NTS       | SHEET     | 1          |
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- NOTES:
1. THE TYPE AND QUANTITY OF TENDONS AND ATRA TENDON CLIPS SHALL BE AS SPECIFIED.
  2. THE GEOWEB 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 TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
  4. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET OR 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 |                |                          |
|-------------|----------------|--------------------------|
| TENDON TYPE | WIDTH, IN(KMM) | BREAK STRENGTH, LBF (KN) |
| POLYESTER   |                |                          |
| TP-31       | 0.50 (13)      | 700 (311)                |
| TP-67       | 0.75 (19)      | 1506 (670)               |
| TP-93       | 0.75 (19)      | 2090 (930)               |
| KEVLAR      |                |                          |
| TK-89       | 0.375 (10)     | 2000 (890)               |
| TK-133      | 0.625 (16)     | 3000 (1334)              |
| TK-189      | 0.75 (19)      | 4000 (178)               |





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**GENUINE GEOWEB®**

**SLOPE - TENDON ANCHORAGE**

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

DATE: JUNE 2013

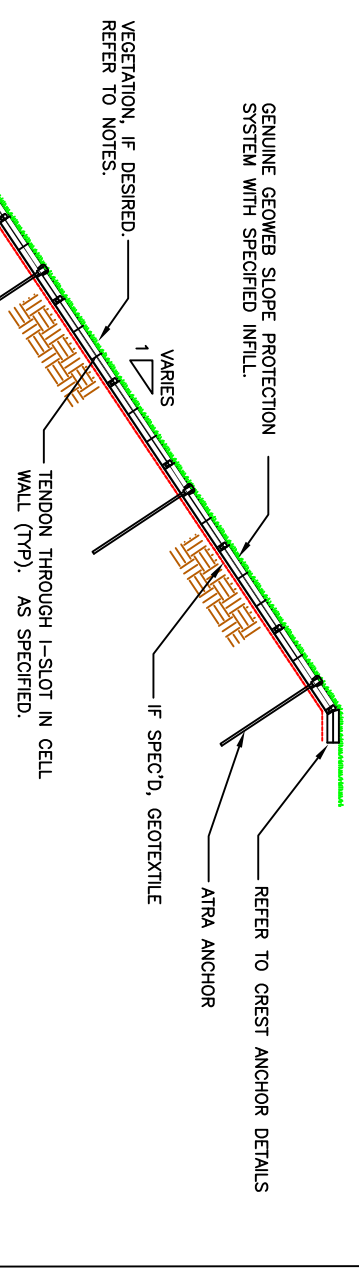
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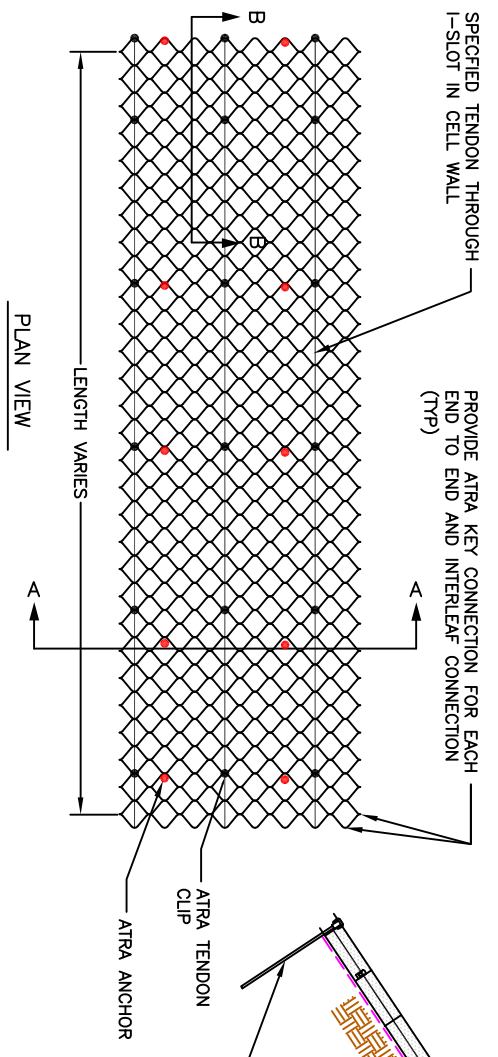
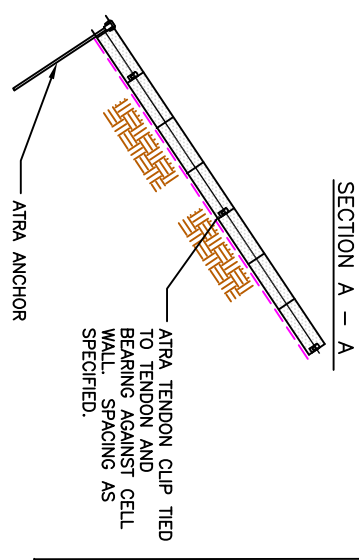
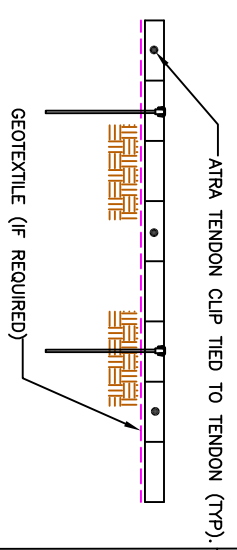
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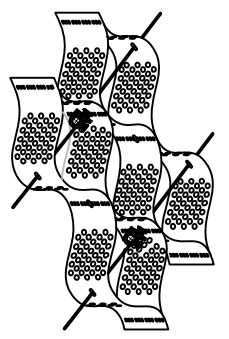


TYPICAL TENDON ANCHOR SYSTEM



- NOTES:
1. THE TYPE AND QUANTITY OF TENDONS AND ATRA ANCHORS SHALL BE AS SPECIFIED.
  2. THE GEOWEB 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 TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
  4. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR WASH-OUT 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 |               |                          |
|-------------|---------------|--------------------------|
| TENDON TYPE | WIDTH, IN(MM) | BREAK STRENGTH, LBF (KN) |
| POLYESTER   |               |                          |
| TP-31       | 0.50 (13)     | 700 (3.11)               |
| TP-67       | 0.75 (19)     | 1506 (6.70)              |
| TP-93       | 0.75 (19)     | 2090 (9.30)              |
| KEVLAR      |               |                          |
| TK-89       | 0.375 (10)    | 2000 (8.90)              |
| TK-133      | 0.625 (16)    | 3000 (13.34)             |
| TK-189      | 0.75 (19)     | 4000 (17.8)              |



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SLOPE - TENDON/ATRA ANCHORAGE

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