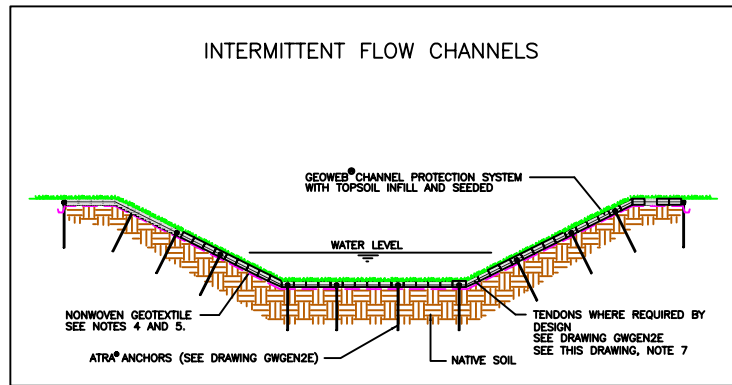
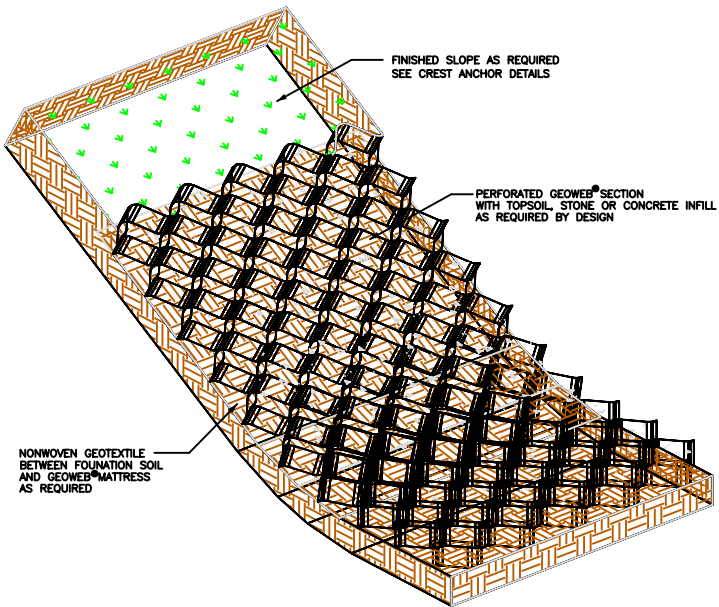


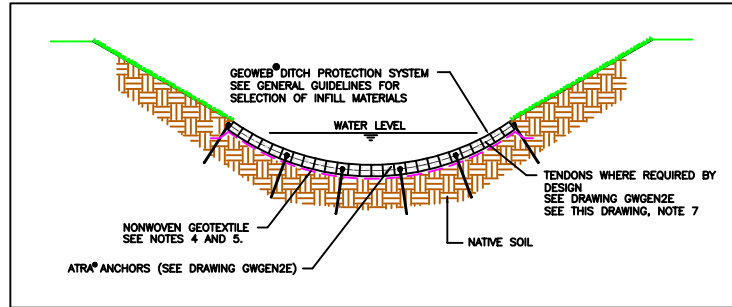
CONCRETE FILLED CHANNEL PROTECTION SYSTEM



SOIL FILLED (GRASS) CHANNEL PROTECTION SYSTEM



PARTIAL ISOMETRIC CHANNEL SYSTEM



DITCH PROTECTION SYSTEM

**GENERAL GUIDELINES FOR SELECTION OF INFILL MATERIALS:**

**SOIL INFILL WITH GRASS COVER:**

PEAK FLOW VELOCITY LESS THAN 6 m/s (20 fps) AND DURATION OF PEAK FLOW LESS THAN 24 HOURS.  
PEAK FLOW VELOCITY LESS THAN 4.5 m/s (15 fps) AND DURATION OF PEAK FLOW LESS THAN 48 HOURS.  
CHANNEL SIDE SLOPES ABOVE HIGH WATER LEVEL.

**SOIL INFILL WITH GRASS COVER AND APPROVED TURF REINFORCEMENT MAT:**

PEAK FLOW VELOCITY UP TO 10.0 m/s (33 fps).

**STONE INFILL:**

PEAK FLOW VELOCITY LESS THAN 1.0 m/s (3.3 fps) - GRADED STONE  
PEAK FLOW VELOCITY LESS THAN 2.0 m/s (6.6 fps) - 38 mm (1 1/2") MEDIAN STONE SIZE  
PEAK FLOW VELOCITY LESS THAN 3.0 m/s (10 fps) - 125 mm (5") MEDIAN STONE SIZE (GW40 GEOWEB SECTIONS)  
PEAK FLOW VELOCITY GREATER THAN 3.5 m/s (11.5 fps) - STONE INFILL NOT RECOMMENDED

**CONCRETE INFILL:**

PEAK FLOW VELOCITY GREATER THAN 1.8 m/s (6 fps) AND LESS THAN 8 m/s (26 fps) - 75 mm (3") GEOWEB SECTIONS  
PEAK FLOW VELOCITY GREATER THAN 8 m/s (26 fps)-MAXIMUM UNDETERMINED - 100 mm (4") GEOWEB SECTIONS

NOTE: ANCHOR REQUIREMENTS ARE A FUNCTION OF THE DEPTH OF PEAK FLOW, BEDSLOPE GRADIENT AND SELF-WEIGHT OF THE LINING SYSTEM AND SHOULD BE DESIGNED BASED ON PROJECT SPECIFIC INFORMATION.

**NOTES:**

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
2. GEOWEB SECTIONS SHALL BE FILLED WITH A SPECIFIED INFILL MATERIAL (SOIL, STONE, CONCRETE) WHICH IS SUITABLE FOR THE HYDRAULIC CONDITIONS (TO BE SPECIFIED BY THE DESIGNER). STONE INFILL IS NOT RECOMMENDED BELOW THE WATER LEVEL OF OPEN CHANNELS OR DITCHES EXCEPT AS NOTED BELOW.
3. GEOWEB SECTIONS SHALL BE ANCHORED, AS NECESSARY, TO RESIST SLIDING DUE TO GRAVITATIONAL FORCES AND/OR CHANNEL FLOW. ANCHOR MATERIALS INCLUDE STAKE ANCHORS AND/OR POLYMER TENDONS (TO BE SPECIFIED BY DESIGNER WHEN PLACED ON SLOPES STEEPER THAN 3H:1V OR IF PLACED BELOW WATER LEVEL.
4. PROVIDE GEOTEXTILE MATERIAL IN ACCORDANCE WITH TASK FORCE 25 GUIDELINES OR LOCAL STANDARDS.
5. INSTALL GEOTEXTILE MATERIAL ALONG ALL INTERFACE AREAS WITH GROUND CONTACT. THE ENDS OF GEOTEXTILE STRIPS SHALL BE BURIED IN TRENCHES AT THE CREST OF SLOPES OR TERMINATION POINT OF GEOWEB MATTRESS ON SLOPES.
6. REFER TO DRAWINGS GWGEN1F, GWGEN2F, GWGEN3F, GWSL1F, GWSL2F AND GWSL3F, GWSL4F, GWSL5F AND GWSL6F FOR ADDITIONAL INFORMATION AND DETAILS
7. TENDON MATERIAL MAY BE POLYPROPYLENE, POLYESTER, OR ARAMID (KEVLAR) AS REQUIRED BY DESIGN.



PRESTO GEOSYSTEMS®

THE GEOWEB®  
CHANNEL PROTECTION SYSTEM

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

DATE	APRIL, 2008	FILE NAME	GWCH1F.DWG
SCALE	NTS	SHEET	1