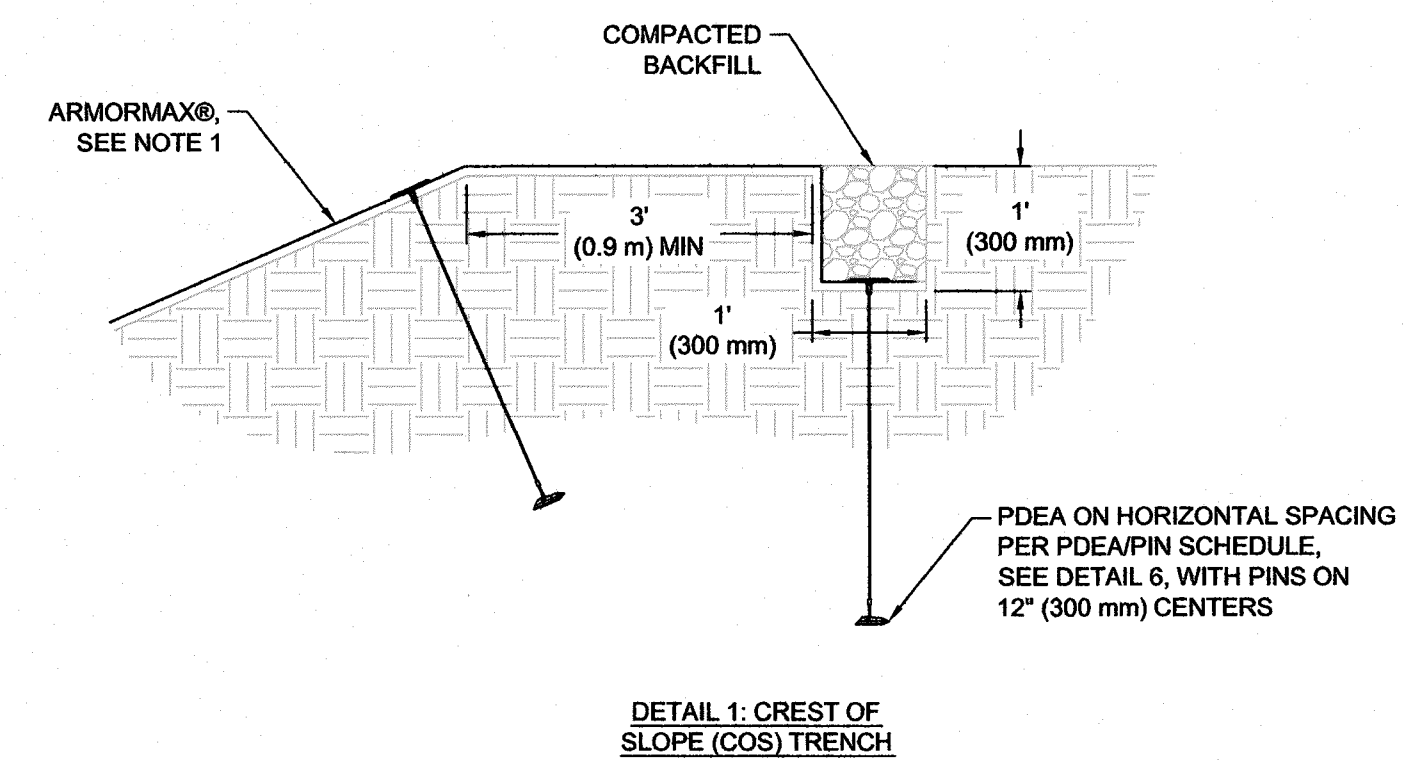
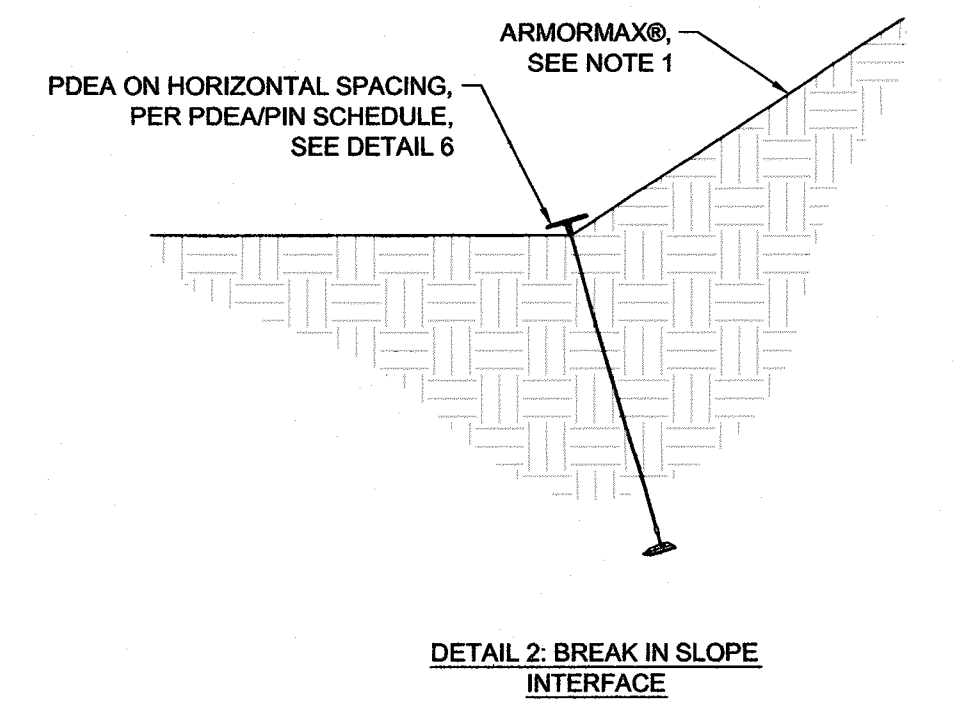


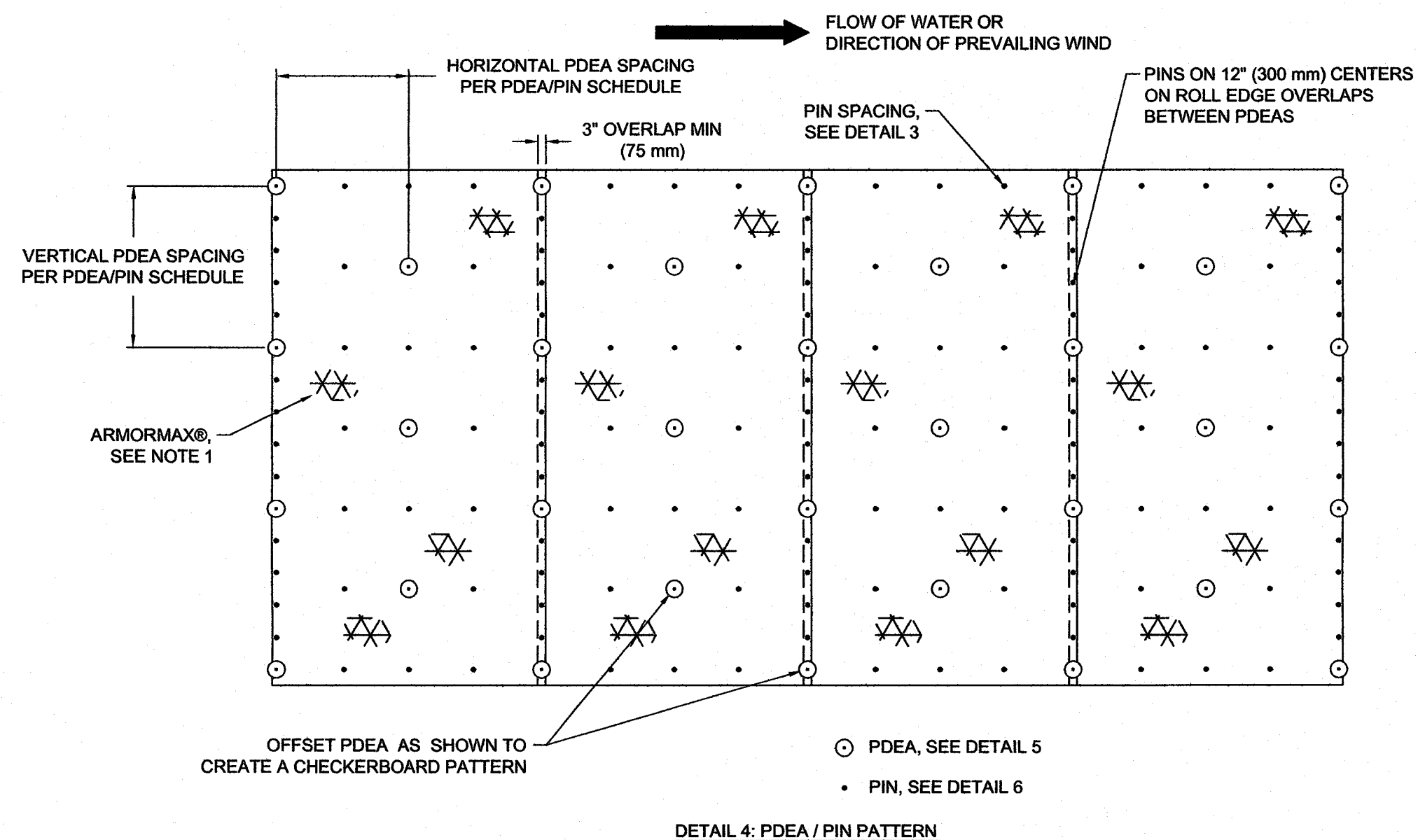
ELEVATION 1: PERPENDICULAR INSTALLATION OF ARMORMAX® ARVS IN A CHANNEL



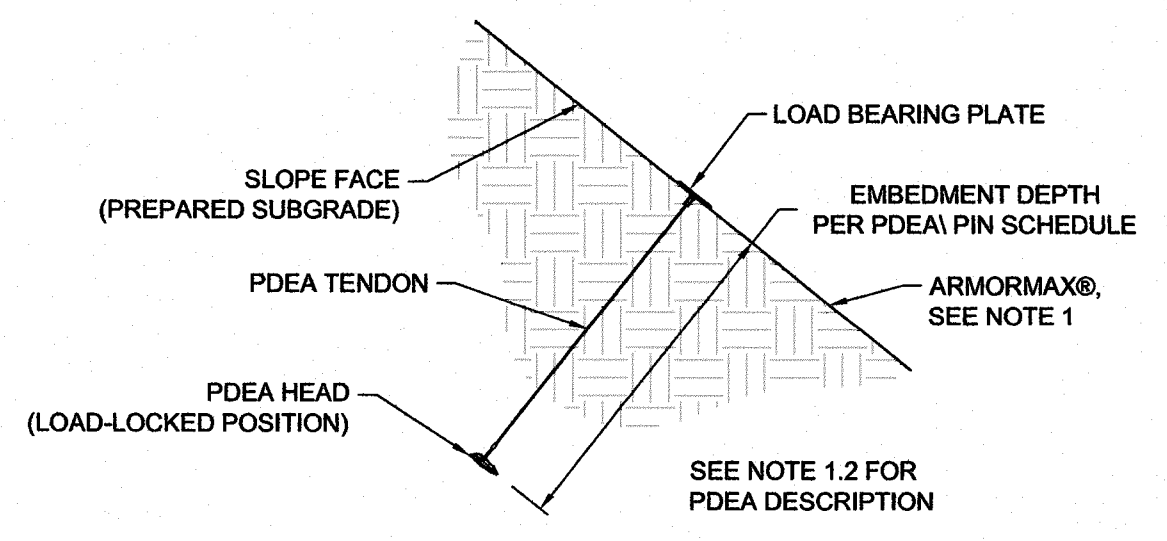
DETAIL 1: CREST OF SLOPE (COS) TRENCH



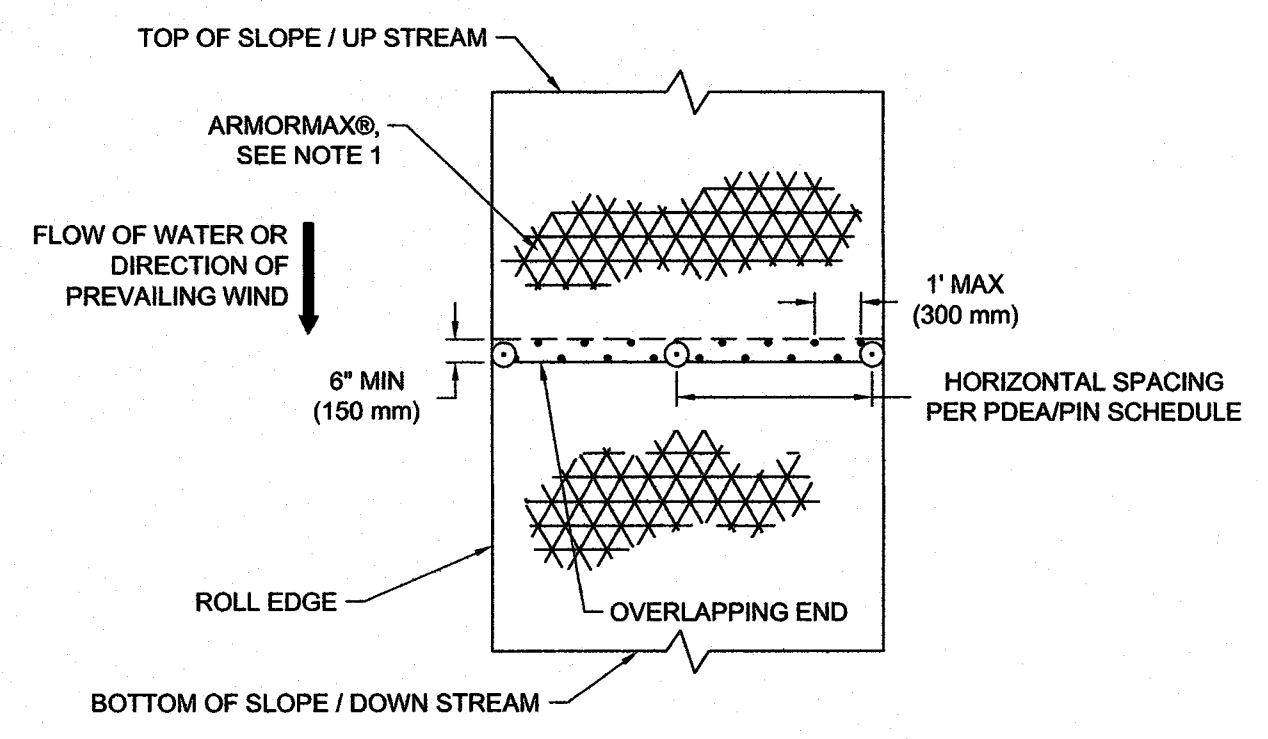
DETAIL 2: BREAK IN SLOPE INTERFACE



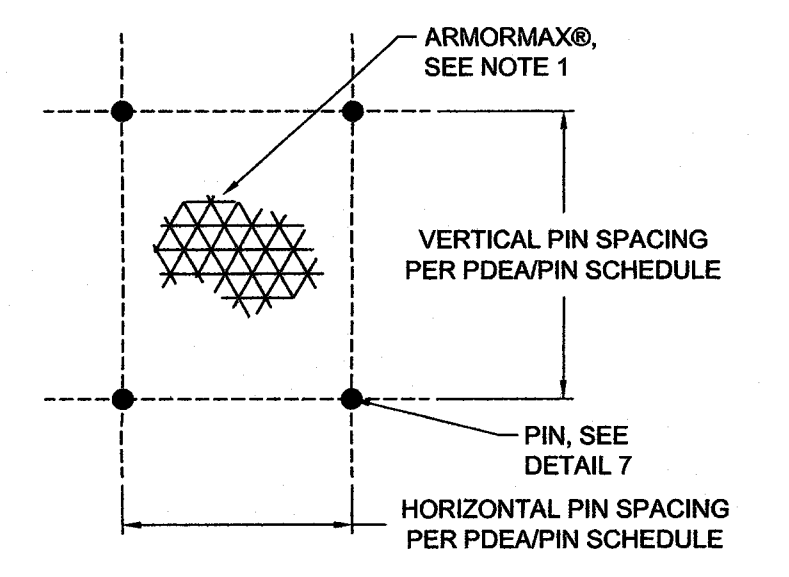
DETAIL 4: PDEA / PIN PATTERN



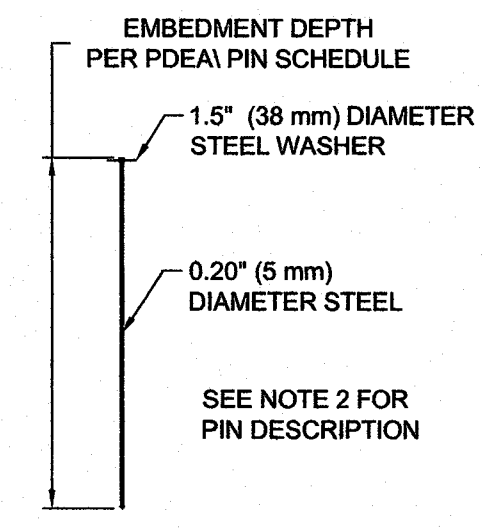
DETAIL 5: PERCUSSION DRIVEN EARTH ANCHOR (PDEA)



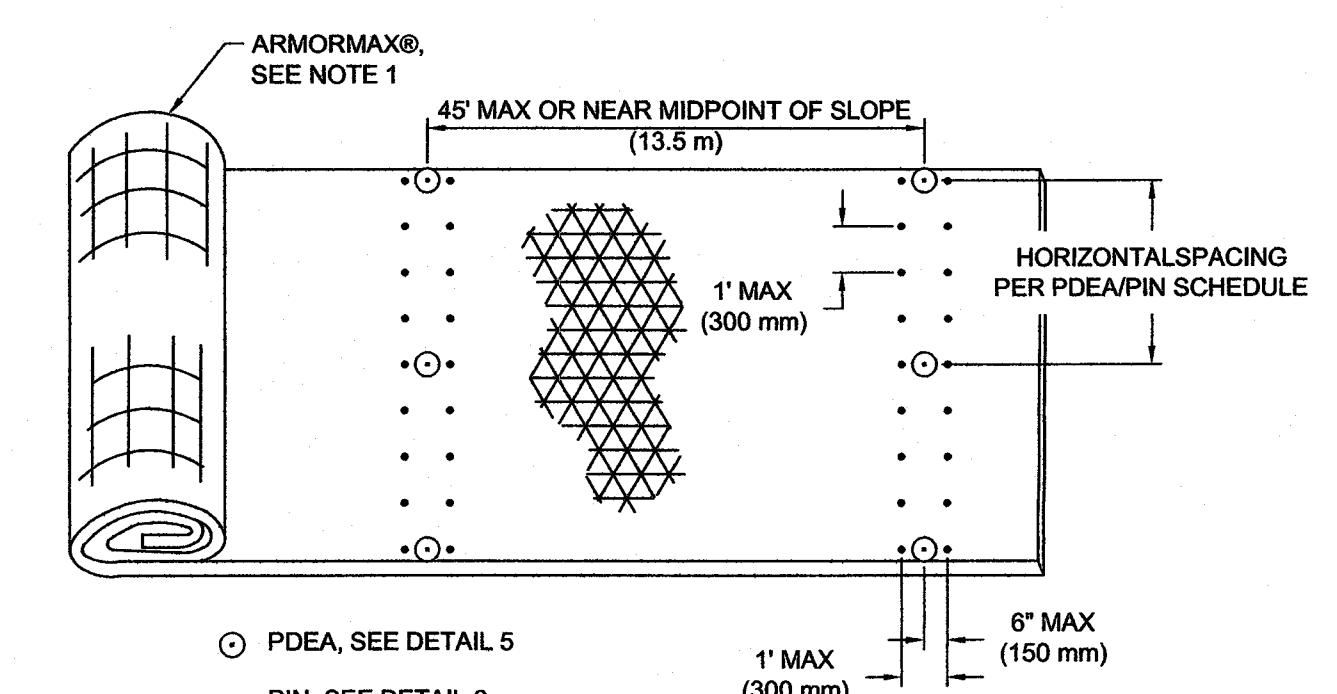
DETAIL 7: OVERLAP AT ROLL END DETAIL



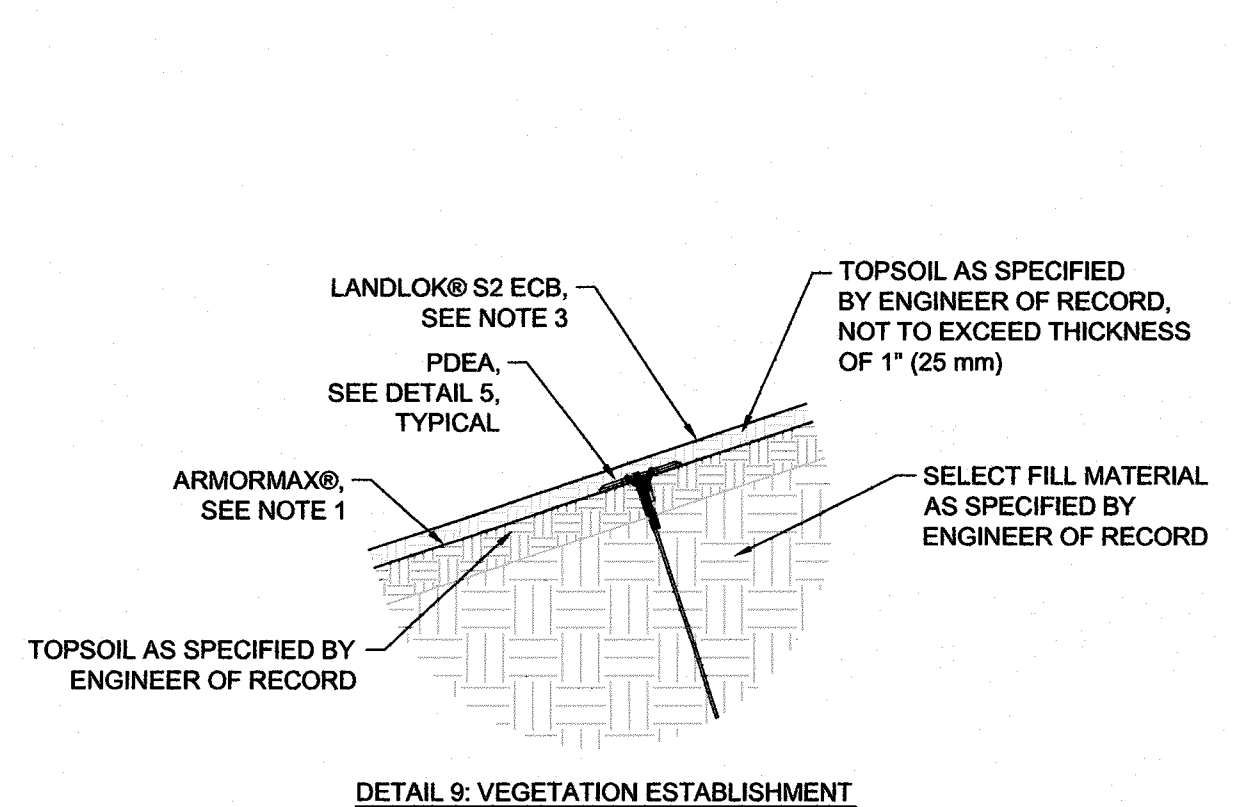
DETAIL 3: PIN PATTERN



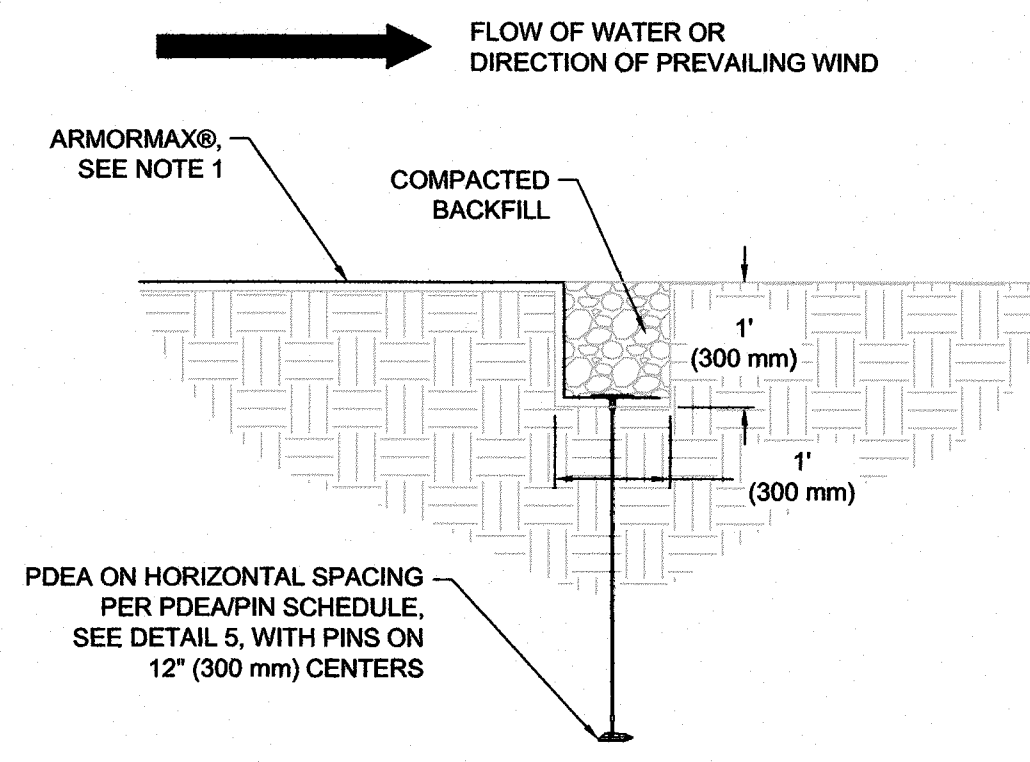
DETAIL 6: PIN



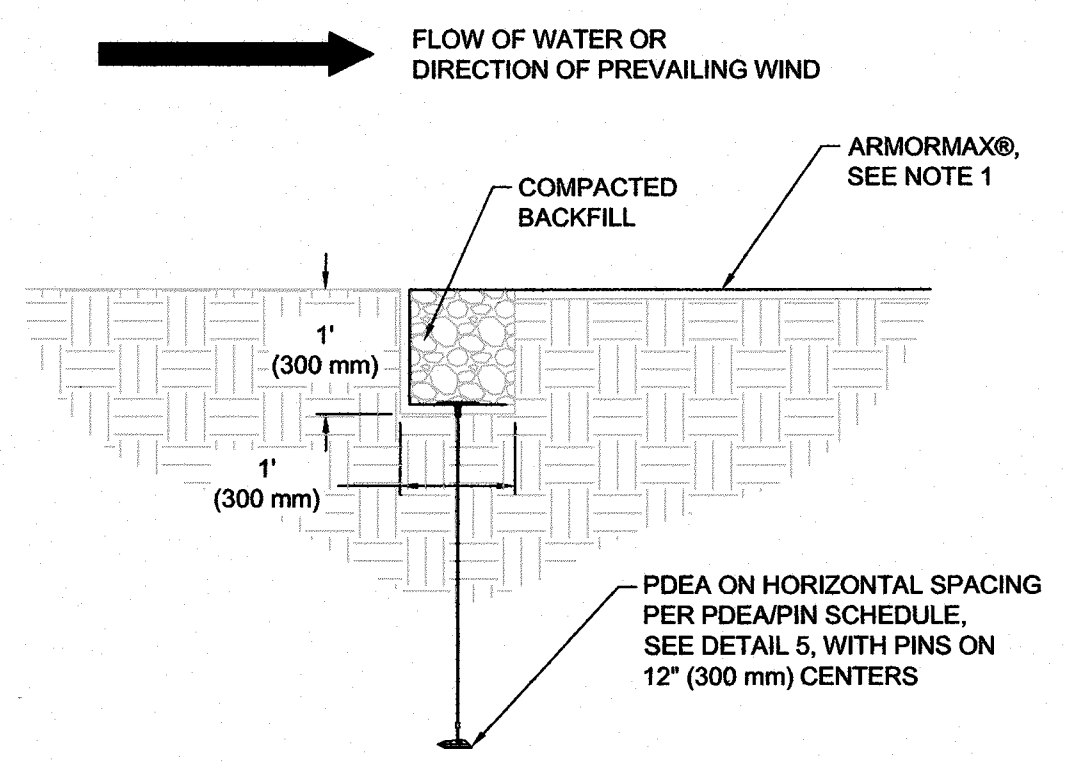
DETAIL 8: SIMULATED CHECK SLOT DETAIL



DETAIL 9: VEGETATION ESTABLISHMENT



DETAIL 10: INITIAL CHANNEL (IC) TRENCH (DOWNSTREAM)



DETAIL 11: TERMINAL CHANNEL (TC) TRENCH (UPSTREAM)

ARMORMAX® ARVS IN A CHANNEL FOR EROSION CONTROL GENERAL INSTALLATION GUIDELINES

- GENERAL NOTES**
- The Armormax® Anchor Reinforced Vegetation System (ARVS) is an engineered solution used for permanent erosion protection or surficial slope stability in vegetated and unvegetated applications. It is composed of two components: Pyramat® High Performance Turf Reinforcement Mat (HPTRM) and Percussion Driven Earth Anchors (PDEAs). Armormax is available in green or tan to provide for an aesthetically pleasing solution with proven performance.
    - Pyramat HPTRM is a three-dimensional, lofty, woven polypropylene geotextile that is available in green or tan which is specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix is composed of polypropylene monofilament yarns featuring X3® technology woven into a uniform configuration of resilient pyramid-like projections. The material exhibits very high interlock and reinforcement capacity with both soil and root systems, demonstrates superior UV resistance, and enhances seedling emergence.
    - The Type B1 PDEA model is used for permanent erosion protection applications and has a working load of up to 800 lbs. The Type B1 PDEA consists of a die cast aluminum anchor head, zinc-aluminum coated carbon steel cable, a die cast zinc load-locking mechanism with a ceramic roller, and two aluminum ferrules. The bullet nose design of the anchor head allows the PDEA to penetrate HPTRM resulting in minimal installation damage. The Type B1 PDEA is also designed with a recessed cavity so the top of the cable can be cut below the surface being protected.
  - The 12", 18", and 24" Securing Pins are composed of a wire, mushroomed at the top. A washer is then placed on the wire and the wire is crimped or swaged about 3-1/2" below the top so the washer will not slide off. The end of the wire is cut at a 45 degree angle for easy penetration of the soil. These Pins with washers conform to industry standards for erosion control pins with washers.
  - Landlok® S2 Erosion Control Blankets consist of 100% wheat straw mechanically bound and covered on both sides by netting. The straw is homogeneously blended and evenly distributed throughout the blanket. The netting is photodegradable polypropylene with mesh openings of approximately 3/8 in. by 3/8 in. (11 mm by 11 mm). The blanket is sewn on approximately 2 in. (51 mm) centers with photodegradable polypropylene thread. This product is NTPEP approved for AASHTO standards.

- BEFORE INSTALLATION BEGINS**
- Coordinate with a Propex Representative: A pre-construction meeting is suggested with the construction team and a representative from Propex. This meeting should be scheduled by the contractor with at least a two week notice.
  - Gather the Tools Needed: Tools that you will need to install Armormax include a pair of industrial shears to cut Pyramat, tape measure, percussion hammer (sized appropriately for the PDEAs), ground rod driver compatible with the percussion hammer, drive steel compatible with the PDEA, setting tool to set and load-lock the PDEA, and wire cutters to cut the cable tendon of the PDEA. If PDEAs will be load tested during construction, additional testing equipment may be necessary. Consult the "Anchor Load Test Manual" from Propex for further guidance. Available for purchase from Propex are drive steel, setting tools, and wire cutters.
  - Determine how to Establish Vegetation: The method of vegetation establishment should be determined prior to the start of installation. Different vegetation establishment methods require different orders of installation. Refer to Establish Vegetation for further guidance.
  - Please consult the Propex Website for the most up to date installation guidelines.

PDEA/PIN SCHEDULE		
SECURING DEVICE	TYPE B1 PDEA	PIN
HORIZONTAL PDEA SPACING	4' (1.20 m)	2' (0.60 m)
VERTICAL PDEA SPACING	5' (1.50 m)	2.5' (0.75 m)
EMBEDMENT DEPTH	3' (0.90 m)	PER MANUFACTURES DESIGN

**EROSION CONTROL INSTALLATION DETAILS**

Please note that the information presented herein is general information only. It is for conceptual use only and not intended to be used for construction. While every effort has been made to ensure its accuracy, this information should not be used for a specific application without independent professional examination and verification of its suitability, applicability, and accuracy. This engineering drawing is protected by the Copyright Act, 17 U.S.C. §101 et seq. and may be used ONLY with the express written permission of Propex in connection with Propex products. Any copying, distributing, and/or creation of a derivative work without permission of Propex is prohibited and is subject of actual damages, statutory damages and attorney's fees under the Copyright Act.

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ANCHOR REINFORCED VEGETATED SYSTEM (ARVS)  
ARMORMAX® INSTALLATION DETAILS FOR CHANNELS

Date: 01/30/2015 Drawn By: D.LOIZEAUX Scale: NTS

\*ALL DIMENSIONS ARE TO BE VERIFIED BY ENGINEER OF RECORD

**Propex™ Geotextile Systems**

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