



## Hydraway 2000 Installation Instructions for SYNTHETIC Turf Fields

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### New Synthetic Fields

#### **For a successful installation of the Hydraway Drainage System, please review the following:**

- ◆ Most new fields are done in two phases.
  1. Base construction.
  2. Turf installation.
- ◆ The base construction contractor is typically responsible for installation of the drainage system.
  1. After the field has been graded to the desired slope, the subgrade will be compacted.
  2. A geosynthetic liner is placed over the entire field (either an impervious liner or a geotextile fabric (woven or non-woven) is selected, or as directed by the design engineer/architect). The liner helps to stabilize the subgrade and provide a barrier between the soil and the rock backfill.
- ◆ Hydraway is installed horizontally (flat) in an interlaced pattern. Typically, a herringbone pattern with 15 to 20 ft center to center spacing is used. Occasionally, longer or shorter distances are suggested. For Synthetic Field applications, Hydraway having a minimum width of 12 inches is recommended.
- ◆ **IMPORTANT:** There is a “TOP and BOTTOM” to Hydraway Drainage System. The “Grid” is the top and the “Points” go down.
  1. Hydraway is placed “points down” so the grid is at the top, this helps to protect the drain during the initial placement and compaction of the rock backfill.
- ◆ The drain lines are positioned beginning at the top of the slope and oriented at an angle of 45 degrees relative to the long dimensions/edges of the field. Ideally, the drains are oriented perpendicular to the direction of the flow. A 45 degree angle provides an opportunity for water flowing in different directions to intercept the Hydraway as it flows toward the edges of the field.
- ◆ Collector lines are installed along the edge of the field and are typically constructed using HDPE perforated pipe sized for the field to accommodate the drainage.
- ◆ Hydraway is connected to the perforated collector pipe using a “gravity” connection. The use of Hydraway fabric end caps is not necessary since the system is already protected by the underlying liner. The Hydraway lines are installed over the collector pipes.
- ◆ **IMPORTANT:** Until the clean crushed rock backfill is placed on the field, ALL wheeled traffic should be kept OFF the drain lines. Once a minimum of 2 inches of rock is placed, then TRACKED equipment can drive across the Hydraway lines. Tracked equipment will NOT damage the Hydraway lines as long as a minimum of 2 inches of rock is placed over them.
- ◆ After 6 to 9 inches of rock is placed and compacted wheeled equipment can be driven on the field.