

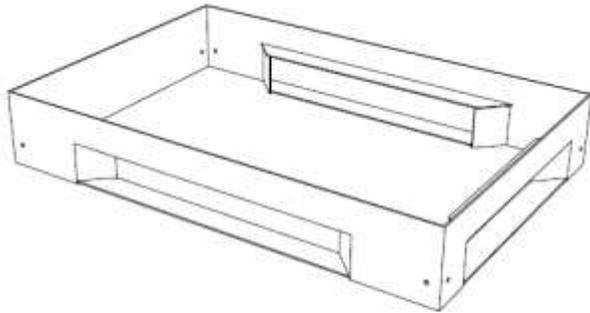
StormScape™

Assembly and Maintenance

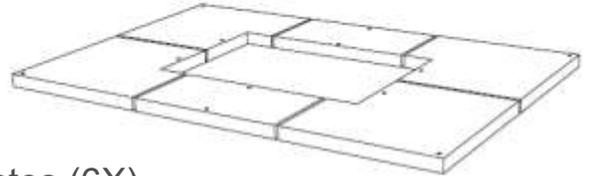


Materials Supplied By Hydro International

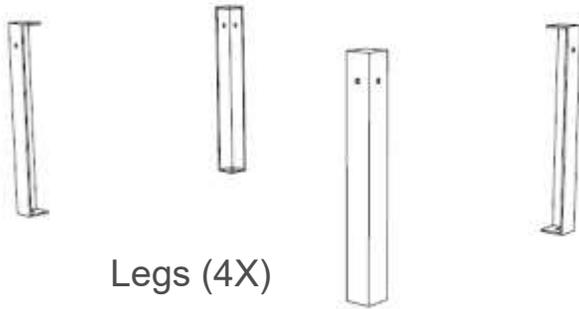
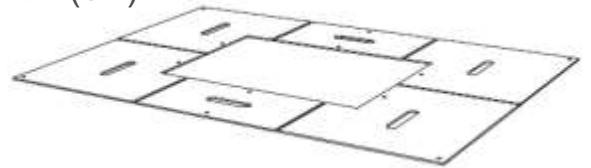
Frame



Tiles and bolts (6X)

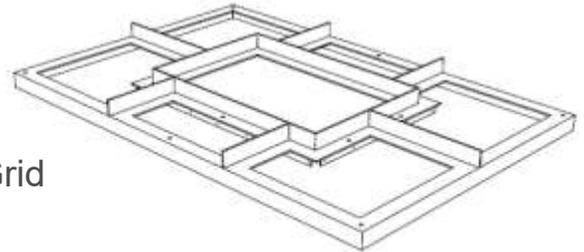


Plates (6X)

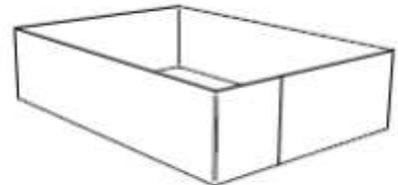


Legs (4X)

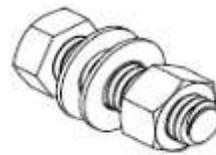
Grid



Perforated
Baffle



- 1/2-inch Leg-to-Frame Bolt Set (4X)



- Filter Media (2 Tons)

Materials Supplied By Contractor

- Perforated underdrain pipe as shown in General Arrangement Drawing
- Concrete post supports (i.e. precast block or Sonotube)
- Anchors to attach to post supports (i.e. wedge anchors or cast-in anchors)
- Shrub or small tree to meet local climate conditions

Handling and Storage

Hydro International's **StormScape** components are manufactured utilizing highly durable architectural grade components; however, improper handling can result in damage. Failure to comply with handling, storage, and assembly instructions voids all warranties.

1. Upon delivery of the **StormScape** components, inspect immediately for defects or shipping damage. If any discrepancies or missing components are identified, notify Hydro International prior to unloading to initiate corrective action.
2. At all times, avoid unnecessary and extreme impacts to the internal components. At no time shall anyone step, stand, or otherwise place an unnecessary load, on the components.
3. The **StormScape** shall be, as far as practical, assembled and installed as soon after delivery as possible.

Required Tools and Equipment

- Measuring Tape
- Socket Wrench and Set
- Box Wrench and Set
- Hex Key Set
- Wood Blocking
- Hammer Drill with 1/2 in. Masonry Bit
- Production Detail Drawings

Types of Installation

There are two options of installation available — **Underdrain** and **Stand-Alone**

In the **Underdrain** arrangement, the system is installed directly in a rough excavation with no enclosing box or line, but with an underdrain comprised of a perforated discharge pipe embedded in coarse stone. The discharge pipe is installed with an unperforated riser that acts as both a bypass and as an inspection port. Using this configuration, the Underdrain must meet the regulatory requirements for separation from the seasonal high water table.

If the surrounding soil testing confirms that the soil meets all regulatory requirements for infiltration (i.e., soil hydraulic conductivity, seasonal high water table, and groundwater mounding), the open structure of the system allows for installation as a **Stand-Alone** MTD that encourages stormwater infiltration and runoff volume reduction by maximizing contact with native soils. This arrangement does not have an underdrain installed.

The following set of photographs show the installation steps for a Stand-Alone arrangement. The additional steps required to install the discharge piping required in an **Underdrain** arrangement are shown on Page 6 of this document.

Assembly



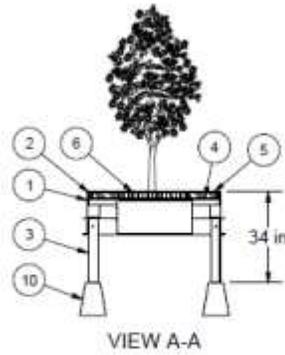
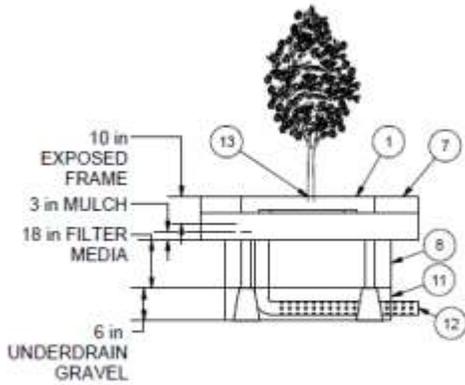
- Excavate a rectangular hole 4 x 6 feet by 3 feet deep.

Assembly

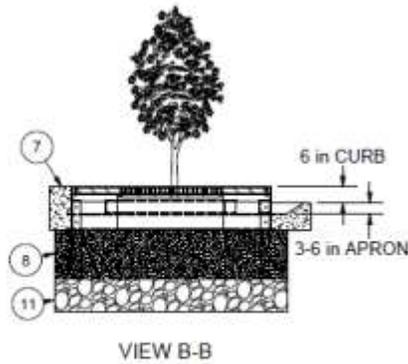
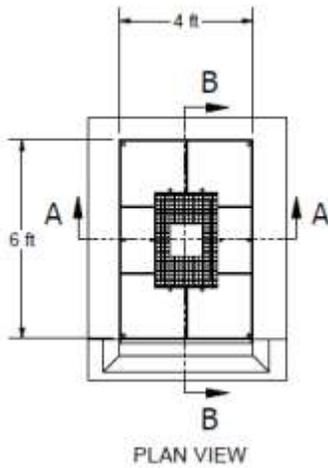


- Install **Post Supports** on gravel base.
- Bolt **Legs** to **Feet** with provided anchor bolts.

Underdrain Assembly



Parts List		
ITEM	PART NUMBER	QTY
1	FRAME	1
2	GRID	1
3	LEG	4
4	ACCESS PLATE	6
5	SURFACE TILES	6
6	GRATING	1
7	SIDEWALK (BY OTHERS)	1
8	MEDIA	2 CY
9	BAFFLE	1
10	CONCRETE FOOTING	4
11	GRAVEL FOR FOOTINGS (BY OTHERS)	1
12	OPTIONAL UNDERDRAIN/BYPASS (BY OTHERS)	1
13	TREE (BY OTHERS)	1



- For **UNDERDRAIN** installation refer to diagram above:
 - Embed perforated pipe assembly (Item 12) roughly centered within underdrain gravel (Item 11) bed with perforated pipe positioned towards receiving drainage network.
 - Perforated pipe assembly, underdrain gravel or material specifications for these components can be provided by Hydro upon request.
 - Connect pipe to drainage pipe network per site drainage plans.

Assembly



- Bolt **Frame** to **Legs** with provided bolts.

Assembly



- Place **Grid** in **Frame** and square the frame to fit.
- Install perforated pipe and riser as shown in General Arrangement drawing (not shown).
- Backfill gravel to within two feet of grade (not shown).

Assembly



- Backfill the excavation to grade with provided media and rake level.

Assembly



- Install **Baffle** to **Grid** (not shown).
- Install **Plates** and **Tiles** with supplied bolts.
- Plant tree root ball in supplied media.
- Top media with shredded bark mulch.
- Install **Grating** around tree trunk.

Assembly



- Smoothly grout apron to direct runoff to throat of unit.

Maintenance



- The StormScape collects trash and leaves in the perimeter of the unit
- To maintain the system, the tiles can be removed for easy access.

Maintenance



- View of throat of the StormScape clogged with leaves and debris

Maintenance



- Remove **Grating** from around the tree trunk.

Maintenance



- Remove security bolts from the **Tiles** with hex wrench

Maintenance



- Remove **Tiles** from surface of StormScape

Maintenance



- View of the **Tile** being removed from the StormScape

Maintenance



- Remove **Plate** from StormScape

Maintenance



- View of leaves and debris within StormScape

Maintenance



- View of StormScape with all **Tiles** removed

Maintenance



- Remove leaves, trash and debris by hand or with a small rake.
- Remove and replace mulch layer.
- Remove and replace top layer of media if necessary.
- Replace plates, tiles and security screws.