



# ***CHANNEL DRAIN INSTALLATION GUIDE***

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## **STEP 1**

### **GETTING THE PROPER TOOLS**

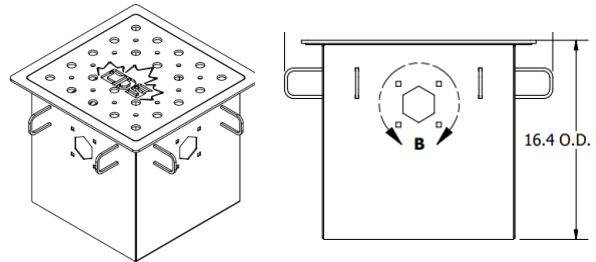
Although it isn't required to have all the tools listed below, using the proper tools will make the installation of your CDS Drain System be quick and easy:

- 9/16 Socket & ratchet wrench
- String line
- Level
- Lazer Level
- Tape Measure
- Sledge Hammer
- 10mm Rebar (2-3' in length)
- Stucco Tape
- Plate Compactor
- Quick lifter (Irwin or Dewalt)

## **STEP 2**

### **INSTALLING DRAIN PIT**

Measure out the drain location, set up the laser level, and figure out the desired drain height. Once this is completed compact the gravel 16¼" below the desired drain height. Set the Drain Pit on the compacted gravel. Confirm Drain Pit is at the desired drain height with laser level. Once it is in the proper position backfill the Drain Pit with 6" of gravel. Compact around to secure drain.



### **STEP 3**

#### **INSTALLING CHANNEL DRAIN**

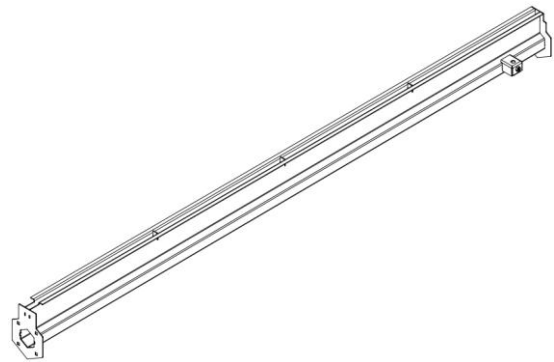
Excavate area where the Channel Drain is going to be installed. The gravel should be compacted 13.5" below the desired drain height. This will allow 6" of concrete to surround the Channel Drain. Unless a thicker concrete depth is specified by designer or engineer.

Grab the AB Channel Drain, 4-carriage bolts, and 4- 9/16" nuts. Have someone hold up one end while the Channel Drain is being fastened to the Drain Pit. Don't fully tighten bolts at this stage. Level and straighten Channel Drain at this point.

Grab the 10mm rebar (2-3' in length), and the sledge hammer. Pound the rebar into the ground through the Channel Drain Fastener Brackets. All Channel Drains are internally sloped so they can be installed level. Once they are at the desired height tighten the 9/16" bolts.

Grab the BC Channel Drain, 4- 9/16" bolts, and 4- 9/16" nuts. Bolt together the next section of Channel Drain and repeat the previous step. Set up a string line to ensure you are keeping the Channel Drains straight.

Repeat until you are at your desired length. At this point you are able to tighten the bolts that are in the Drain Pit.



#### **STEP 4**

##### **REINFORCING**

Install the 10mm Pre-Bent Trench Bars under the Channel Drain. They can be installed at the same spacing as your rebar grid. We recommend 12-16" spacing for the Trench Bars.



#### **STEP 4**

##### **CONCRETING**

Now that the Drain System and rebar is installed it is time to protect your investment. Tape off your Drain System with Stucco Tape. This will help ensure you don't end up with concrete in the Drain System.

When placing concrete around the Channel Drain you must use a pencil vibrator to ensure full consolidation. Pour 2-3" up from the bottom of the Channel Drain, allow concrete to set before pouring the remaining thickness. This will help ensure the Channel Drain stays straight.



#### **STEP 5**

##### **CLEAN UP**

Pull stucco tape off and now you have completed the installation. Thank you for choosing Canadian Drain Systems!





NOTES: UNLESS OTHER SPECIFIED  
1. ALL DIMENSIONS ARE IN INCHES.  
2. CHANNEL DRAIN IS MADE FROM 12 GALVINIZED STEEL.  
3. CHANNEL DRAIN IS TO BE FULLY ENCASED ON ALL SIDES WITH A MINIMUM OF 6" OF CONCRETE FOR HEAVY LOAD CLASS APPLICATIONS.  
4. SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE AND REINFORCING TO MEET LOCAL CODES

