



Residential U-drain Installation Guide



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Before Your Start

Before you begin your project, it is recommended to have the following tools on hand to aid in the installation of your Norstar Industries Residential U-drain System;

- 9/16" Wrench and Socket
- Cordless Drill (optional)
- Sledge Hammer (to drive rebar)
- Level (transit or laser is optional)
- Duct Tape

Safety and Installation Tips

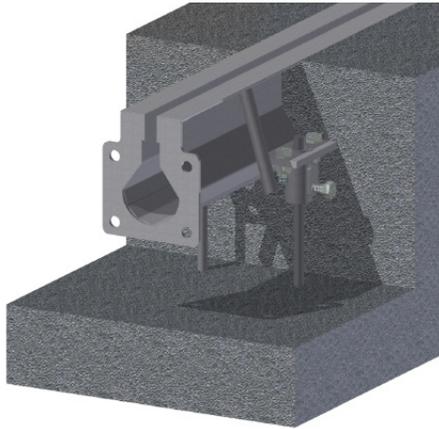
- Make sure the trench excavation allows for proper thickness and reinforcement specified by designer or engineer.
- Use a pencil vibrator to ensure that there are no air pockets around the drain assemblies.
- Lay out all U-drain sections prior to installation.
- Make all PVC pipe connections and sump pit installations, prior to connecting U-drain channels.
- Begin the installation at the outlet or discharge end and work backwards.
- After the concrete has set, remove all the Tape from the drain slot and use the Paddle to remove all debris from the U-Drain channel and Sump Pit.



IMPORTANT! *Before starting, check building codes and local government ordinances for water drainage.*

U-drain Installation

1. Excavate a trench allowing room underneath and on both sides of the U-drain. There should be a minimum of 6" of concrete surrounding the U-drain.



2. It is recommended to pre-pour a concrete pad underneath the sump pit to it can be properly secured. If no pad is poured, peg the sump pit down before the U-Drain is connected.
3. Bolt all remaining sections of U-drain together. At the end of the last section, seal the drain with a Residential U-drain End Cap.



4. Fasten the E-Z Mount Brackets at each U-drain bracket interval, using the hardware supplied. Pound appropriate lengths of rebar into your base material with the rebar running through the conduit portion of the E-Z Mount Bracket. Make sure that the tops of all sections are level. When the correct levels are achieved, tighten the set bolts on the E-Z Mount Brackets to secure the U-Drain.



5. Once the U-drain is secured to the E-Z Mount Brackets and the appropriate floor height is found, tie rebar from the floor grid into the rebar on the U-drain assembly, for structural support. Cover the slot opening with duct tape.



6. Once the concrete slab is firm, remove the tape from the slot and clean out the U-drain and sump pit using the Paddle.



Project ... **U-drain** ...

RECOMMENDED SLAB
INSTALLATION
DETAIL

* NOTE #1
EPOXY REBAR OPTIONAL
(RECOMMENDED)

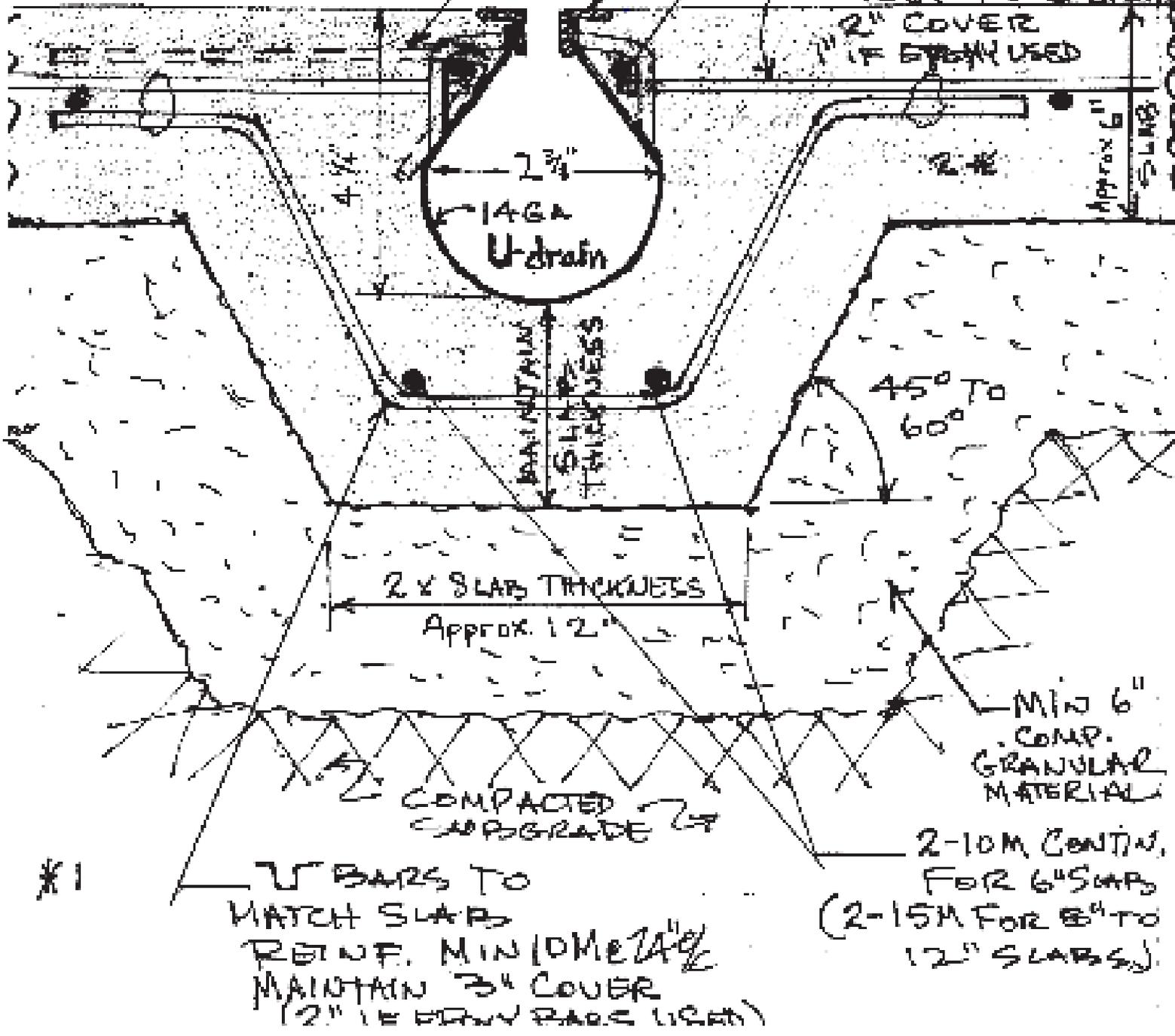
* NOTE #2
- CONCRETE MIN
25 MPa C 18 DAYS

MAINTAIN FLUSH
(USE AS SCREEN)

CONTINUOUS
10M BAR EA. SIDE

*1 12" →
OPTIONAL 10M DOWELS
LAP WITH SLAB REINF

*1 → SLAB REINFORCING
TIGHT TO U-drain
2" COVER
IF EPOXY USED



MAINTAIN
SLAB
THICKNESS

45° TO
60°

2x SLAB THICKNESS
APPROX. 12"

MIN 6"
COMP.
GRANULAR
MATERIAL

COMPACTED
SUBGRADE

2-10M CONTIN.
FOR 6" SLABS
(2-15M FOR 8" TO
12" SLABS)

*1
U BARS TO
MATCH SLAB
REINF. MIN 10M EA. SIDE
MAINTAIN 3" COVER
(2" IF EPOXY REBAR USED)



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