

Downspout Disconnection Training Presentation



Presented by
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Introduction



- Why do you need to disconnect the downspouts from the sewer system?
- How to disconnect downspouts that are connected to the sewer system.
- This training will enable you to disconnect your downspout saving significant labor cost.
- Most homeowners can complete a simple disconnection in less than 15 minutes.
- What is eligible for reimbursement.

Why Do You Need to Disconnect Your Downspout?



- Redirecting roof rain water will result in about 12% reduction of water being handled by the sewer system. Thereby reducing flooding.
- It will reduce the amount of polluted rain water that enters our local waterways..
- Roof rain water should be conveyed and kept on the property that it is generated from.
- The Village ordinance requires it.
- It's just the right thing to do!

Training Outline



- Lesson 1: Downspout Disconnection
- Lesson 2: Connecting Elbows and Extension
- Lesson 3: Capping or Plugging Drain Tiles



Lesson 1: Objectives



At the end of this lesson you will be able to:

- Determine how much landscape you need for draining your downspouts.
- Measure existing items for purchasing required materials.
- Determine the correct extension and elbow to purchase.
- Cut downspout.
- Disconnect downspout and prep for elbow.

Landscaped Area Needed for Draining Gutters



- Make sure you have enough landscaped area for rain to soak safely into the ground.
- The ground area must be at least 10% of the roof area that drains to the disconnected downspout.
- For example, to drain 300 square feet of rooftop, there should be at least 30 square feet of landscape.
- Roof Sizing Landscaped area factor area size.
- $300 \text{ sq. ft.} \times 10\% = 30 \text{ sq. ft. (or } 5' \times 6')$

Safety Considerations

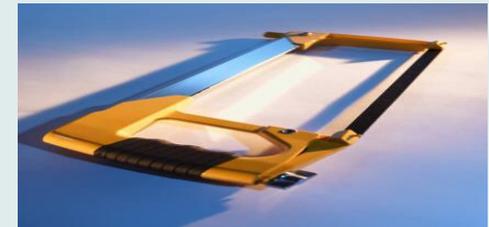


- **Extend** with an extension piece that will discharge and convey water away from structures.
- **Property lines:** Keep the end of your downspout extension at least 5 feet from your neighbors' property line and 10 feet from the public sidewalk. You may need more room if your yard slopes toward your neighbor or the sidewalk.
- **Other Hazards:** Do not place extensions across driveways, entry doors, steps or other areas that may be subject to tripping.

Lesson 1: Downspout Disconnection



- Tools needed. Drill or Screwdriver, Crimpers or Needle-nose Pliers Hack saw, Trowel and Measuring tape.
- Measure downspout to purchase correct size extension and elbow.
- Use pencil to mark the position you are going to cut downspout.



Lesson 1: Continued



- Use hacksaw to cut the downspout. Make sure to grip while cutting so that it does not fall away from wall.
- Do not cut completely through so that downspout does not fall into drain tile.
- Use crimpers or needle-nose pliers to crimp 4 corners of the end of the downspout so that it fits into elbow properly.
- Questions?

Lesson 2: Objectives



At the end of this lesson you will be able to:

- Attach elbow to downspout.
- Attach extension to elbow.
- Secure all connections.

Lesson 2: Connecting elbows and extensions.



- Insert downspout into elbow.
- Use hand drill or screw driver to secure elbow with 2 sheet metal screws.
- Insert elbow into extension piece.
- Secure extension with 2 sheet metal screws.



Lesson 2: Wrap-up



- Make sure all attachments fit securely inside each connection so that no water drips from any connection points.
- Secure all connections with sheet metals screws that are no more than $\frac{3}{4}$ " inches long .
- Place splash pads beneath the end of extension pieces where possible.
- Make sure extensions are directed onto your property and not toward your neighbors.

Lesson 3: Objectives



At the end of this lesson you will be able to:

- Determine the type of material drain tile is made of.
- Apply the proper solution for capping or plugging the drain tile.

Lesson 3: Capping and plugging drain hole.



- Measure drain tile for proper sizing for cap purchase.
- Attach and secure cap.
- If old style clay drain tile fill with cement or specially made plug.



Lesson 3: Wrap-up



- Attempt to match drain cap with color of downspout and extension.
- Secure drain cap with PVC cement.
- Clay drain hole should be filled with cement.



- Questions?

Other Disconnection Options



● Rain Barrels

- 1) Will be provided for free including delivery.
- 2) All Village homeowners are eligible for up to 4 free rain barrels.
- 3) Rain barrels must be maintained.
- 4) Water may be used to water lawn and plants.



● Rain Gardens

- 1) Qualifies for reimbursement up to \$400.
- 2) Minimum size is 6' by 8' or 48 square feet and 6" deep.
- 3) Must be maintained by homeowner a minimum of 10 years.
- 4) Consult with Nursery to determine which plants are best.



● Bio-Swales

Village will consider this option. Similar to rain garden more involved and can be costly. Must be maintained by homeowner for minimum of 10 years.



● Redirect Gutters

Can be costly. Consult with contractor experienced with installing gutters other aluminum products.



Summary of Training



- Measure the downspout and sewer drain tile before purchasing materials.
- Secure and overlap all connections.
- Materials can be purchased at Home Depot, Menards, Lowes or Ace Hardware.
- YouTube Downspout Disconnection Videos & Rain Barrel installation Videos.



What Qualifies for Reimbursement?



- Materials needed to complete this project that qualify for reimbursement include the following: extensions, elbows, caps, plugs, splash pads, screws, cement mix and adhesive.
- Disconnections that are completed where the qualified material cost is \$100 or less will receive full reimbursement and no Program Permit will be required.
- Projects over \$100 require a Program Permit.
- Rain gardens are eligible for reimbursement up to \$400. Bio-swales and other disconnections methods will be considered.
- All reimbursements require sewer disconnection. This includes free rain barrels.
- Reimbursement funds are limited. When the funds are exhausted you will be responsible for the entire cost of your disconnection.
- Tools are not eligible for reimbursement. (Loaner Tool Kits are available at Village Hall.)

Assessment



- Are tools eligible for reimbursement?
- What materials are needed for this project?
- What are the 2 primary sewer drain tile styles?

Evaluation



1. Do you understand why this is necessary?
2. Was this presentation helpful?
3. After viewing this presentation and video are you comfortable with completing this project?

Questions or Assistance



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Downspout Disconnection Program

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