

**Resolution 2005-64**  
**Covering of Drainage Ditches**

**Whereas**, the Board of Trustees of the Township of Concord is responsible for the maintenance of Township roads and the provision of drainage within the Township right-of-ways that carry storm water to natural waterways; and,

**Whereas**, the Board of Trustees has determined that it is in the best interest of the Township and individual property owners with frontage on Township roadways (specifically excluding property owners with frontage on county or state highways) to permit the enclosure of their ditches providing they meet the guidelines set forth in the *Ditch Covering Checklist*, attached to this Resolution, and have had their enclosures constructed according to the specifications of a licensed professional civil engineer, and, whenever possible, agreement is made where homeowners associations exist, to utilize the same licensed engineer for the sake of consistency in design within a subdivision; and,

**Whereas**, all costs for engineering, construction, repair and replacement of materials related to the enclosures to include, but not limited to, culverts, pipes, gravel, soils and landscaping, shall be borne by the individual homeowner; however, service for the sake of maintaining water flow may be performed by the Concord Township Service Department; and,

**Whereas**, the engineering shall be reviewed and approved by Concord Township Service Department and the Lake County Engineer and subsequent construction shall be inspected and approved by the Concord Township Service Department and failure to comply with these offices may result in such consequences as removal of coverings and reimbursement to Concord Township for damage and other expenses.

**Now, therefore**, be it resolved that the Board of Trustees of Concord Township approve individual property owners on Township roadways to cover their drainage ditches providing the above stipulations of this Resolution and guidelines of the *Ditch Covering Checklist* are followed. This Resolution rescinds Resolution 2003-16; specifically, the element of that Resolution requiring unanimous approval of all subdivision residents.

Adopted this 7<sup>th</sup> day of December, 2005

Vote:    \_\_\_ Ayes

          \_\_\_ Nays

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Bob Patterson, Chairman

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Caroline N. Luhta, Vice-Chairman

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Diana J. Lombardo, Trustee

**CLERK'S CERTIFICATE**

I, Peggy A. Cusick, duly elected Fiscal Officer of Concord Township, Lake County, State of Ohio, do hereby certify that the foregoing is a true and accurate copy of a resolution adopted by the Concord Township Board of Trustees on December 7, 2005.

**WITNESS MY HAND** this seventh day of December, 2005, in Concord Township, Lake County, Ohio.

\_\_\_\_\_  
Peggy A. Cusick, Fiscal Officer

## Checklist for Ditch Enclosures

1. This Checklist is to be used as a directive in the engineering and construction/installation of drainage ditch enclosures
2. This Checklist applies only to drainage ditches fronting Concord Township roadways. All other roadways require the permission of the specific jurisdiction.
3. The ditch enclosure shall be designed by an Ohio licensed professional civil engineer.
4. Whenever possible, within a subdivision, the homeowners' association should select a single engineer to be utilized within the subdivision for the sake of consistency in engineering design.
5. The engineer's plans shall be submitted to the Concord Township Service Department for review. The Township may also require these plans be reviewed by the Lake County Engineer's Office and the Stormwater Management Department.
6. After review and acceptance of the engineered plans, a road opening permit will be granted by the Concord Township Service Department. A road opening permit must be obtained from the Service Department. In addition the permit holder/property owner shall secure a construction bond for the total sum of the project, or at least \$1,000.00.
7. The permit holder, or their agent, will install the enclosure in accordance with the engineered plans.
8. Inspection by the Concord Township Service Department shall be required prior to the backfilling/covering of the enclosure.
9. Design features should include:
  - Drainage pipes designed and sized in consideration of normal water flow and water flow from a 5 year storm – the current subdivision standard set by the County. The minimum size of any drainage pipe shall be 12 inches in diameter.
  - Pipe materials must be PVC, HDPE, or concrete.
  - Engineering studies will be provided for 10, 25,100 year storms.
  - Consideration of impact to upstream and downstream flow.
  - Consideration shall be given to the proper stabilization of the drainage ditch, enclosure feature (pipe) and adjoining roadway. (Premium backfill may be required).
  - Intake basins must be installed to accommodate property and roadway drainage.
  - Intake basins should be of a beehive-type.
  - Intake basins must be able to be removed to permit internal pipe service.
  - Proper surface swales above the drainage feature must be established and maintained to promote proper draining. It is recommended that they be 12 inches below the edge of the roadway pavement.
  - Grass must be promoted around and above the drainage feature to reduce sediment runoff and erosion. If a subdivision wishes to utilize a material other than grass, it must be approved by the Township and Stormwater Management.
  - All material and construction methods shall follow ODOT standards.
10. All ditch enclosures shall receive a final inspection by the Concord Township Service Department, before final acceptance. Upon inspection the "as built drawings" shall be provided to the Township for their records.
11. All ditch enclosures and their features remain the responsibility of the property owner to include future repairs and replacements of pipes.
12. If the above conditions are met, the Concord Service Department will perform pipe clearing maintenance as required.