

APPENDIX**OFFICE OF THE SELECTMEN****EATON, NEW HAMPSHIRE 03832****SPECIFICATIONS FOR ROADS**

The Subdivision Regulations of the Town of Eaton, Section 4.16.g, state in part ... "All streets shall be ... installed in conformance with the standards and specifications adopted by the Board of Selectmen."

Pursuant to that directive, the Board of Selectmen hereby specify that all roads must meet the following requirements before being accepted by the Town.

1.? Rights of Way.? A road or street right of way shall be at least 50 feet in width and ownership of the land comprising it shall have been passed to the Town by deed, without cost to the Town.? Streets and roads shall be coordinated with existing and other planned streets and roads.

???? **A.? Variations.?** When conditions peculiar to a particular intended road so dictate, the Selectmen may, at their discretion, authorize a variation in width specifications.? With the approval of the Highway Commissioner and the Board of Selectmen, the Planning Board may likewise permit variations in details of construction specified herein.

???? **B.? Street Names.?** Streets which join or are in alignment with streets of abutting or neighboring properties shall bear the same name.? Names of new streets shall not duplicate, nor bear phonetic resemblance to the names of existing streets within the Town of Eaton.? Street names shall be subject to approval of the Selectmen.? Metal street signs of a type approved by the Selectmen shall be erected by the developer.

2.? Roadway.? The width of the roadway shall be not less than 18 feet.? Shoulders shall be at least 2 feet wide.? The minimum centerline radius of a curve shall be 230 feet.

???? **A.? Dead Ends.?** In the event the Planning Board approves a dead end road, it shall terminate only in a circular type of cul-de-sac.? Permanent dead end roads shall be provided with a circular turnaround at the closed end of a right of way with a minimum radius of 50 feet.? Temporary turnarounds on temporary dead end roads may be smaller in diameter at the discretion of the Planning Board.

???????? (1).? **Grades on Turnarounds.?** The grade on the turnaround and on 30 feet of its approach straightaway shall be no greater than 2%.

???????? (2).? **Length.?** The maximum length of dead ends streets shall be determined by the Planning Board.

???????? (3).? **Isolation.?** A permanent dead end street shall be isolated by not being brought to the property boundary, but shall be placed so that the lots using it are contiguous with the property line of the subdivision.

???? **3.? Road Surface.?** Centerlines of all roads shall be raised 0.5% above each side of the road.? Road surfaces at both sides of the road shall be on the same plane unless banking of the road is required.

???? **4.? Intersections.?** Roads shall be laid out to intersect as nearly as possible at right angles, and no angle of intersection of less than 60 degrees shall be permitted.? The grade within 100 feet of the intersection shall not exceed 1%.

???? **5.? Drainage.?** A drainage ditch at least 16 inches in depth at its midpoint below the road centerline grade shall be constructed in each road right of way on each side of the roadway unless the road is provided with curbs

and gutters or unless topography and/or soil conditions make such ditches impractical or unnecessary. A sufficient number of culverts not less than 18 inches in diameter shall be installed to prevent water from running across the road on the surface or to prevent formation of runoff ponds. Storm drainage shall be carried to existing watercourses, or connect to existing water courses, or connect to existing storm drains. Culverts shall be sufficiently rip-rapped or cemented to prevent washouts. The beds of rerouted streams shall be dug deep enough to keep water within the banks at all times.

6. Harmony with Topography. Street pattern design shall give due consideration to contours and natural features of the land, where practical. Aesthetic values shall be considered rather than rigid straight-line, city block layout of streets and roads.

7. Roadway Construction. All roadways shall be constructed in accordance with following specifications:

A. Construction Supervision. Construction of the roadway, drainage facilities, sidewalks, curbs, and all other elements of the road must be done under the supervision of an with the approval of the Selectmen.

B. Grade. Minimum grade shall be 1%. Maximum grade shall be 12%. Grades of all roadways shall conform in general to the terrain.

C. Clearing. The entire area of each road shall be cleared of all stumps, brush, roots, boulders and like material. All dead or dying trees shall be removed from the 50-foot right of way at the time of clearing.

D. Subgrade Preparation. All loam and other yielding materials shall be removed from the roadway and replaced with suitable fill material. All boulders and ledge shall be removed to a uniform cross sectional depth of not less than 12 inches below the subgrade and replaced with sand or gravel.

E. Gravel Base. All roads shall be constructed with a minimum of 12 inches of gravel per New Hampshire Standard Specifications, 1974, Section 304.

F. Gravel Surface. The finish course of areas with a grade of 9% or less shall consist of at least 4 inches of graded and compacted fine gravel, or better, material, free from clay, loam, or organic material. The roadway width shall be a minimum of 22 feet (18 feet travel surface and 2 foot shoulders).

G. Hard Surface. The finish course of areas with a grade of 10% to 12% shall be hard surfaced with at least 3 inches of asphalt, concrete, or equivalent material, unless the Selectmen determine that a waiver of this provision is warranted. Hard-surfaced roads with grades of less than 10% shall be built to the same specifications as above.

H. Cuts and Fills. Banks shall be cut back from ditches at a ratio of 1.5:1, i.e., one and a half feet back from the top of the bank for every foot down, except in the case of ledge banks when the ratio will be 1:2, i.e., one foot back from the top for every two feet down. Filled areas shall be banked at a ratio of 1.5:1, i.e., one and a half feet out from the bottom for every foot down.

I. Bridges. On stream crossings of 10 feet or more span, the structure shall be designed to H15-520 loading (AASHO specifications). The minimum roadway width shall be 24 feet.

J. Sidewalks. Sidewalks of two inch thick asphalt, on a four inch gravel base, not less than 4 feet in width and no closer than 18 feet to the street center line, shall be constructed on one or both sides of the street when in the opinion of the Selectmen such sidewalks are necessary.

K. Sediment and Erosion Control. The Selectmen shall receive for

??????? **K.? Sediment and Erosion Control.**? The Selectmen shall receive for their approval, a plan to control soil erosion and prevent sedimentation which provides proper provision for water disposal and protection of soil surfaces during and after construction.? The following standards shall be observed:

????????? (1)? Stripping of vegetation, regrading, or other development shall be done in such a way?as to minimize on-site and off-site soil erosion.

????????? (2)? Whenever practical, natural vegetation shall be retained, protected and supplemented.

????????? (3)? The disturbed area shall be kept to a minimum, and the duration of exposure shall be less than a maximum of six months.

????????? (4)? Temporary seedings and/or mulching shall be used to protect exposed critical areas during construction.

????????? (5)? Increased runoff caused by changed soil and surface conditions shall be accommodated during and after construction.

????????? (6)? Road builders shall make a reasonable effort to trap sediment in runoff water until the disturbed area is stabilized by the use of sediment basins or other acceptable methods.

????????? (7)? "Standard State Conservation Mix" grass seed shall be?applied to exposed cuts, fills,?and ditches at the rate of 35 pounds per acre fo permanent erosion control.

????????? **L.? Guardrails.**? Filled areas and bridges shall be protected by guardrails installed in conformity with American Association of State Highway and Transportation Officials Geometric Design Guides for Local Roads.

????????? **M.? Utilities.**? Utility poles should be kept close to the right of way line, in no case closer than the ditch line and always well back of a curb.? Water and sewer mains should be constructed outside the surface area and preferably outside the ditch line.

????? **8.? Diagrams.**? The typical cross sections appended to these specifications are a part of the specifications.

????? **9.? Supercission.**? These specifications supersede and replace any specifications adopted by the Selectmen prior to this date.

These road specifications were adopted June 28th, 1988 and signed by the Selectmen, Richard H. Young, Francis S. Gospodarek, and Eugene G. Kleinmeier.