

Town of Mason, New Hampshire

Town Culverts

May, 2011, culvert survey by Robert K. Anderson
for his Eagle Scout project with Scout Troup 264

LEGEND:

- Transport**
 - Red lines: State Highways
 - Black lines:
 - solid: Town roads, maintained
 - : Town roads, not maintained (Class VI)
 -: Private roads or trails
 - .-.-: Mason RR Trail
- Hydrological**
 - Blue line: stream
 - Blue area: pond
 - Green area: wetland
- Boundaries:**
 - Red dashed: Town/State line per USGS topos
 - Red dotted: State line per MA boundary data
- Circles with cross-hairs:** GPSed locations of town line monuments
- Green dashed line:** straight lines between above GPSed monuments
- Contours**
 - Heavy: 100' contours, labelled
 - Light: 10' contours
- Structures**
 - building footprints
- Power line easements**
- GPS location of culvert and culvert name code**

NOTES:

NH Town boundaries, roads, streams, wetlands, etc., are from GRANIT shape files (www.GRANIT.unh.edu) which are largely based on the USGS 7.5' topographic map data. Massachusetts boundaries, roads and streams are from MassGIS (www.mass.gov/service-details/massgis-data-layers) shape files.

Parcel boundaries and building footprints are from the Nashua Regional Planning Commission (NRPC) <http://www.nashuarpc.org/>

The available USGS contours only provide 20' contours in Mason's NW quadrant so new contours were calculated to provide uniform 10' intervals throughout Mason. New contours were calculated based on the 2018 National Elevation Dataset (NED) 1/3 arc-second (~10 meters) horizontal resolution Digital Elevation Model (DEM) "USGS_NED_13_n43w072_ArcGrid.zip", dated Mar 28, 2018, downloaded via <https://viewer.nationalmap.gov/basic/>. The calculated contours were then cross-checked against contour data from "ELEV_Boston_W_MA_1X1_Shape.zip", dated Feb 11, 2018 from <https://viewer.nationalmap.gov/basic/> and found to match very well.

Granite "monuments" along Mason's town lines were visited and located via GPS using a Garmin eTrex20 in averaging mode; accuracy is probably ±15 feet. These locations have been plotted on the map and suggest some differences between the USGS topo locations and GPS readings, in some cases greater than 200 feet.

The GPS locations were connected with straight dashed green lines - it is important to remember that the actual boundaries are often not straight as they can follow ancient walls or boundaries. The green lines are only used as visual guides!

In some cases it was possible to compare landmarks visible in the orthophoto images with the GPS data and the USGS topos; in those cases the GPS readings were closer to monuments than the topo lines.



Prepared for the Mason Conservation Commission by Garth Fletcher
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