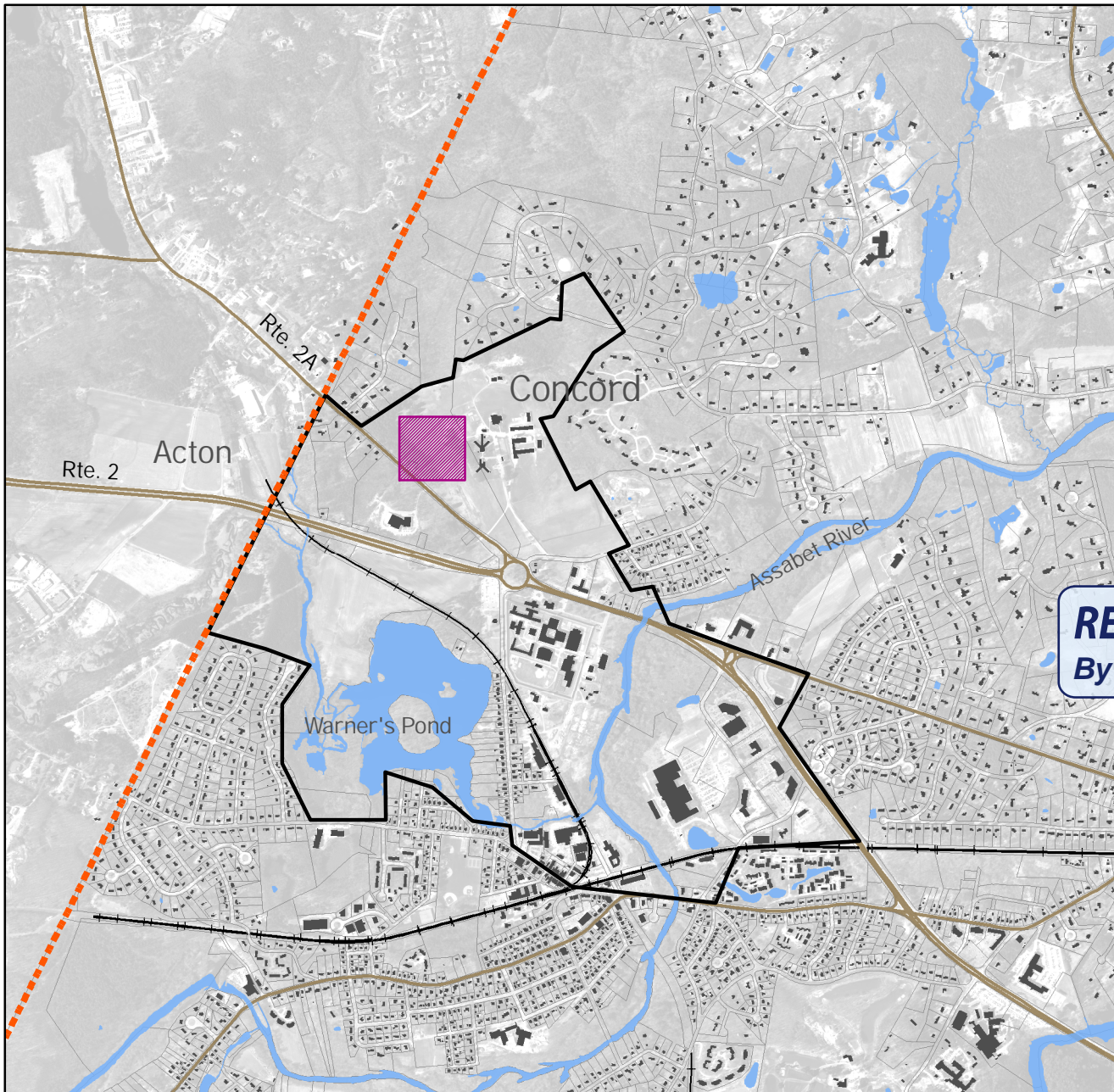


SITE CONTEXT, CONCORD, MA



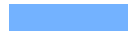

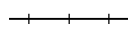



This context map shows the boundary of our studio site in West Concord, Massachusetts. My detail area is located within the state-owned property of Department of Correction, just the north of Rte. 2A near the Acton/Concord town boundary. The studio site is surrounded by high density residential neighborhoods. The northern part of the studio site seems to have lower density neighborhoods. The studio site has Warner's Pond and Assabet River running through. No river or stream is found immediately adjacent to my detail area.



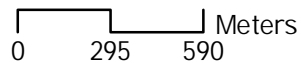
REVIEWED

By Paul Cote at 4:19 pm, Oct 19, 2007



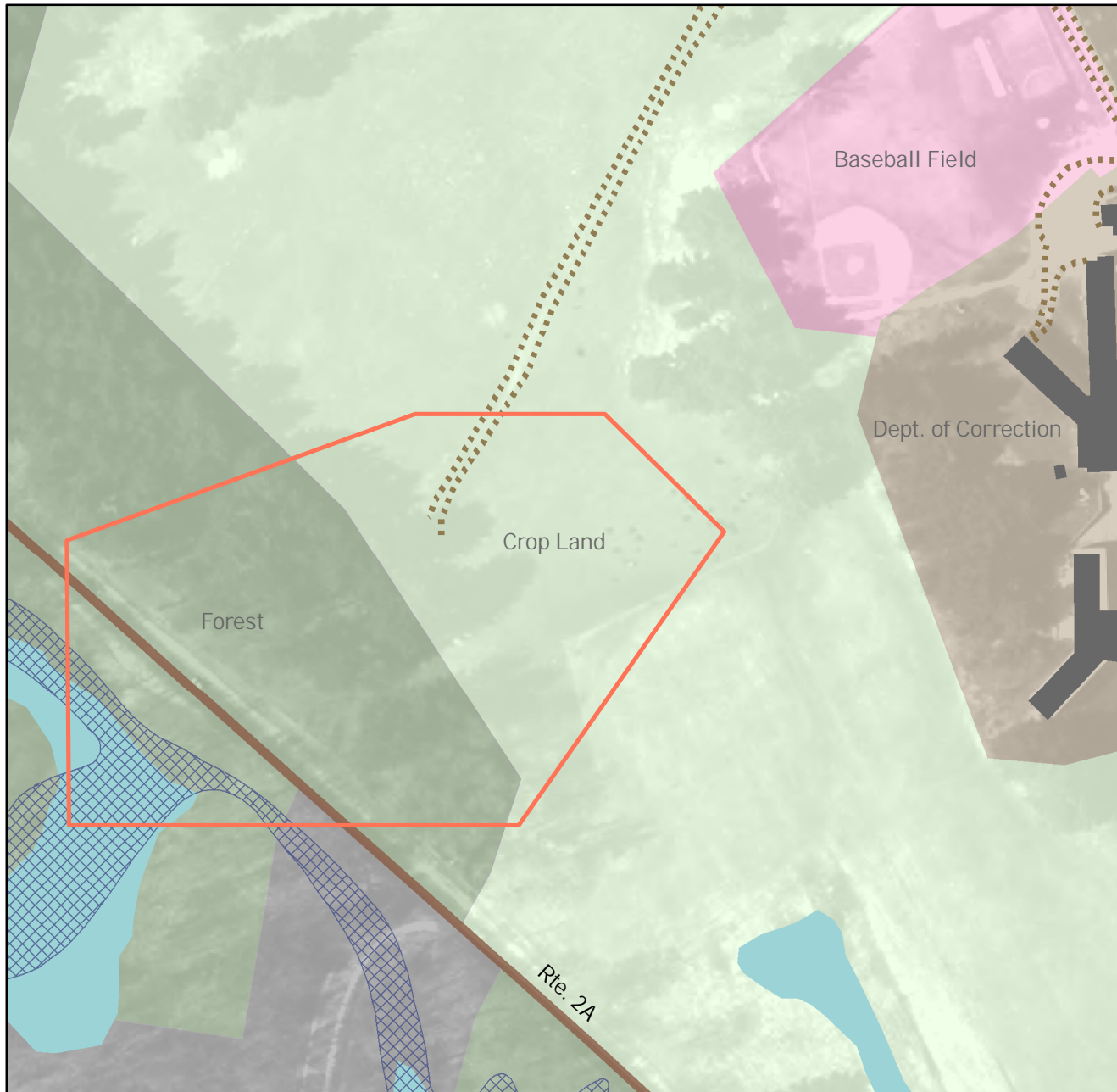
-  Acton/Concord Boundary
-  Studio Site Boundary
-  River, Pond
-  Parcel
-  Railroad
-  Major Road
-  Buildings
-  Detail Area

Projection: MASS State Plane Mainland Zone
 Sources: Massachusetts GIS
 Concord MASS GIS
 MA Office of Transportation Planning Roads
 MA Dept. of Environmental Protection

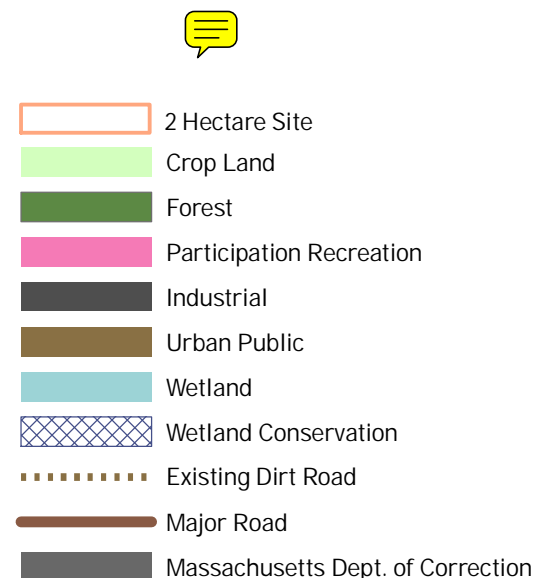
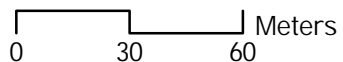


2-HECTARE SITE CONTEXT

The two-hectare site is located on the south-west side of the Massachusetts's Department of Correction building cluster (Medium security level). The north side of Rte. 2A is a forest and a crop land owned by the Dept. of Correction, and the south side of Rte. 2A is a forest and an industrial zone with two wetlands on either side. The wetland conservation area connects the two wetlands, possibly providing a corridor for wildlife. It is important to note that in my two-hectare site, ecologically sensitive features, e.g. wetland, are immediately adjacent to a major highway and an industrial area. What is now zoned as an industrial land, however, has been a forest before 1999. It is very likely that this land was developed recently for industrial use, and therefore the zoning has changed.

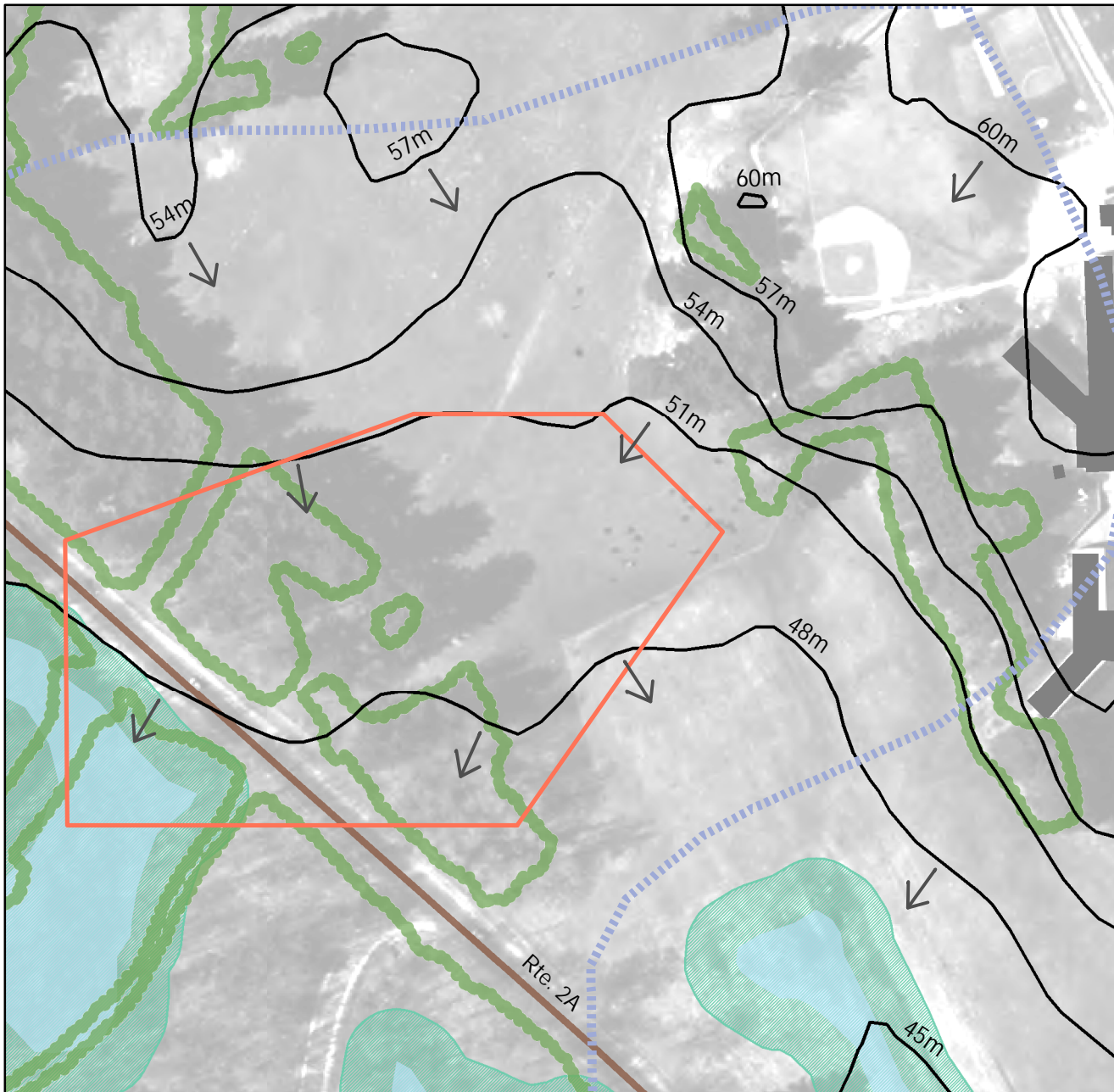






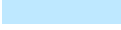



Projection: MASS State Plane Mainland Zone
 Sources: Massachusetts GIS
 Concord MASS GIS
 MA Dept. of Environmental Protection



TERRAIN AND WATERFLOW

In this map, terrain descends generally towards south and south-west direction. Due to the slope change, the waterflow coming down from the north-west north-east corners slows down within the two-hectare site, and slows down even more as the water leaves the site towards the south. Unfortunately, there are three wetlands adjacent to Rte. 2--it is very possible that the water that ends up in one of the three wetlands are contaminated, especially after crossing the Rte. 2. Two wetlands on the left are wooded swamp deciduous wetlands and the one on the right is a shallow marsh meadow. The two-hectare site falls within a larger sub-basin area. This sub-basin does not contribute to a public surface water supply.



-  2 Hectare Site
-  Sub-basin Boundary
-  Contour (3m)
-  Tree Mass
-  Wetland
-  Title 5 Buffer Zone
-  Major Road
-  Massachusetts Dept. of Correction

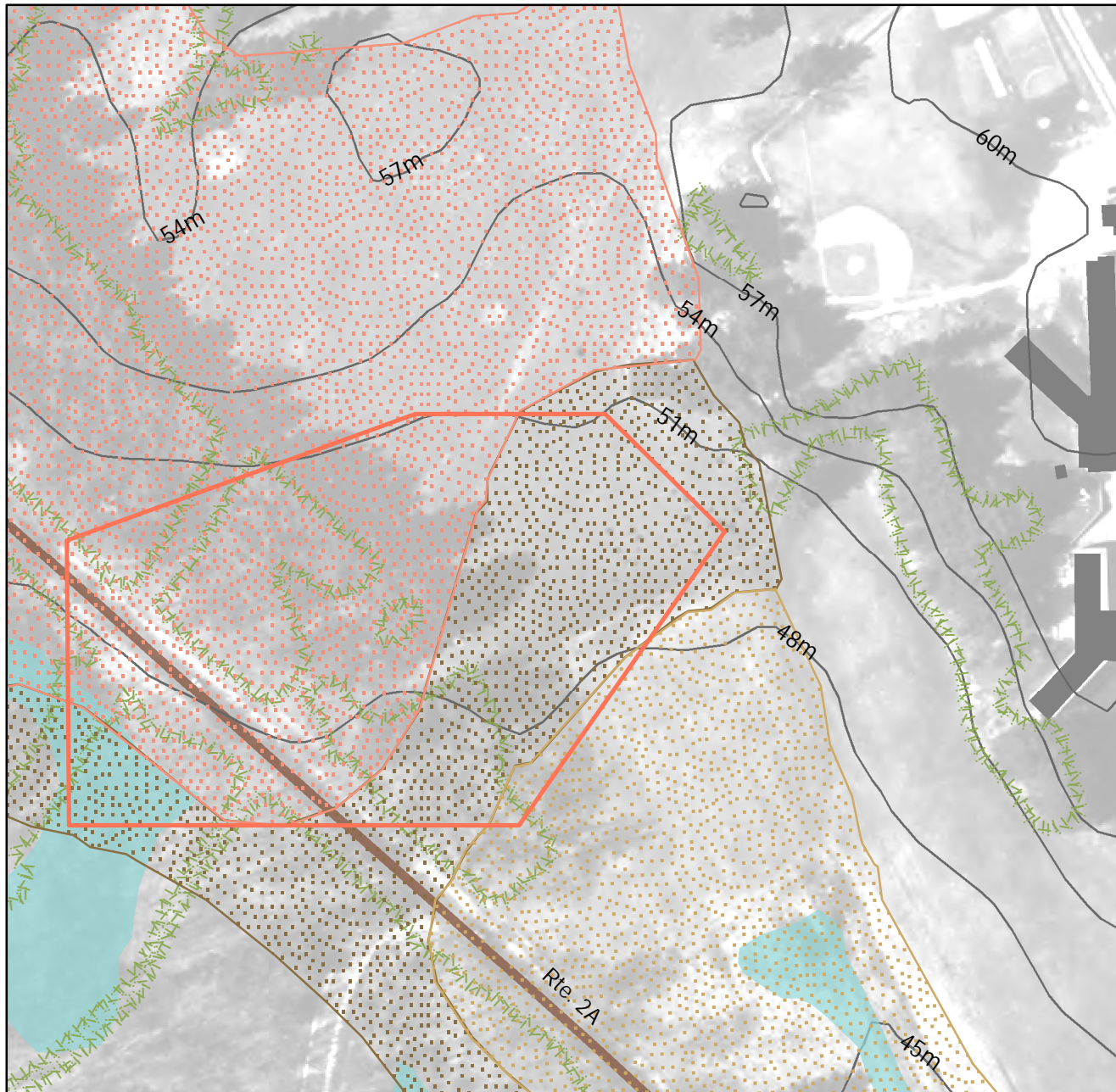


Projection: MASS State Plane Mainland Zone
 Sources: Massachusetts GIS
 Concord MASS GIS
 MA Dept. of Environmental Protection









0 30 60 Meters

SOIL AND VEGETATION

The two-hectare site has three soil types: Deerfield Loamy Sand, Wareham Loamy Sand, and Hinckley Loamy Sand. Most of the two-hectare is comprised of Deerfield Loamy Sand and it is where most tree masses and Route 2 are located. The wetland area indicates to have Wareham Loamy Sand. As the slope gets more flattened, the soil changes to Hinckley Loamy Sand. All three soil types are found between 48m and 51m elevation. According to the U.S. National Cooperative Soil Survey, the Deerfield series consists of very deep, moderately well drained soils. The Wareham series consists of very deep, poorly and somewhat poorly drained sandy soils formed in outwash. Here, runoff is negligible or very low. The Hinckley series consists of very deep, excessively drained soils. In Massachusetts, Hinckley soils are used for truck crops (<http://soils.usda.gov>).



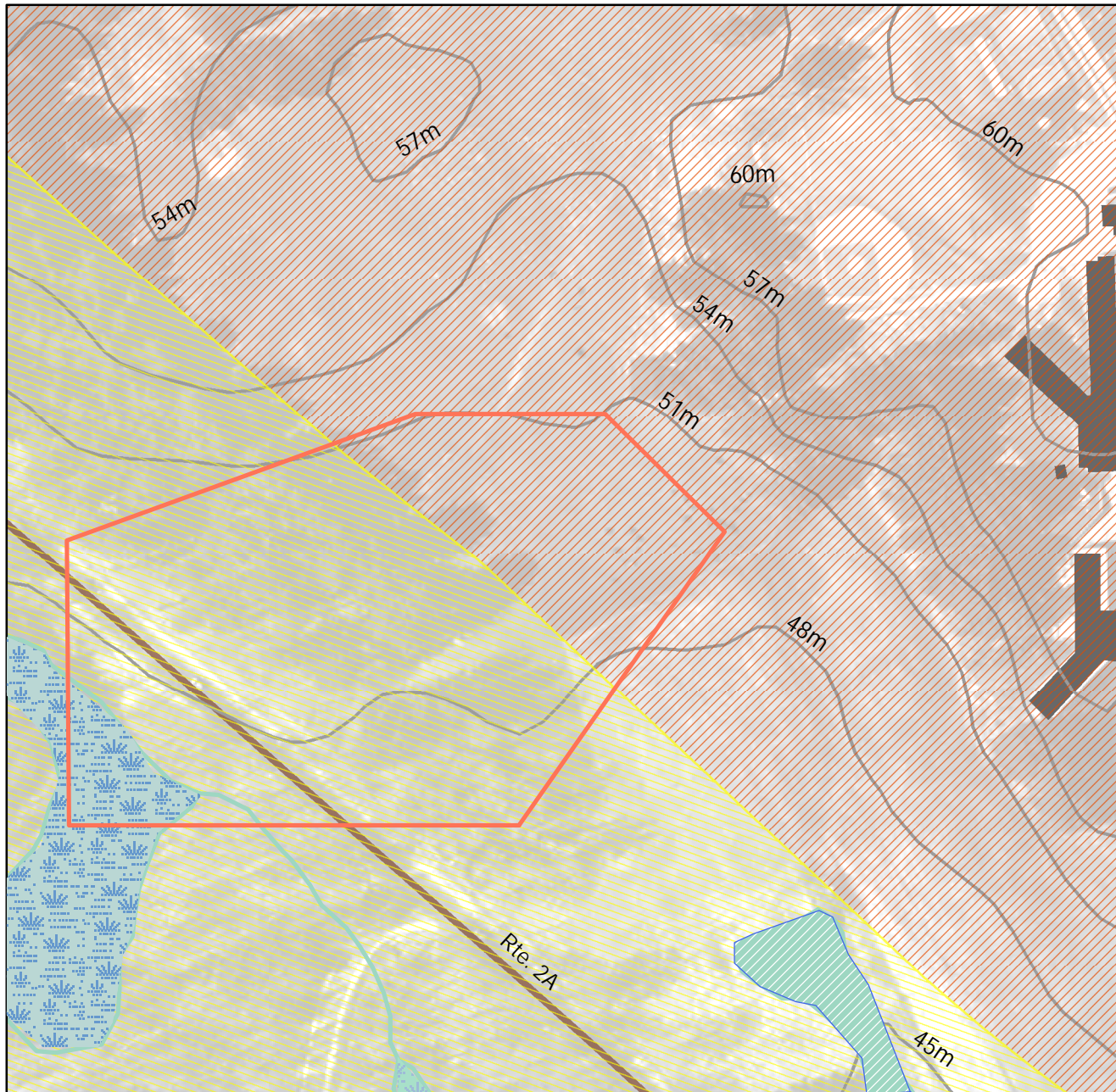
Projection: MASS State Plane Mainland Zone
Sources: Massachusetts GIS
Concord MASS GIS








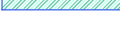
-  2 Hectare Site
-  Deerfield Loamy Sand (0-3% Slopes)
-  Wareham Loamy Sand (3-8% Slopes)
-  Hinckley Loamy Sand (8-15% Slopes)
-  Tree Mass
-  Wetland
-  Major Road
-  Building

0 30 60 Meters

PRIMARY LAND USE

The 2 hectare site is generally considered for single-family residential uses, although MASS GIS indicates that this assignment was a subjective procedure and should be verified with an examination of bylaw tables of permitted uses. Approximately 1/3 of the 2 hectare is for single family residential, greater than or equal to 80,000 sq. ft. and the 2/3 is for the same use but between 40,000 and 79,999 sq. ft.



-  2 Hectare Site
-  Single Family Residential, $\geq 80,000$ sq. ft.
-  Single Family Residential, 40,000 - 79,999 sq. ft.
-  Hydrological Connection
-  Major Road
-  Massachusetts Dept. of Correction
-  Forest Swamp
-  Shallow Marsh Meadow

Projection: MASS State Plane Mainland Zone
 Sources: Massachusetts GIS
 Concord MASS GIS
 MA Dept. of Environmental Protection

0 30 60 Meters