

HOUSE MODEL

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Architecture

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IDEA

The house we currently live in has been under construction and renovation for the last 10 years. As a result, it was necessary at some point to create a computer graphic representation of our property and house + garage to simplify the design process, as well as give future owners / renovators of our house an idea of what to expect. A full spec of working drawings of the house is the end goal.

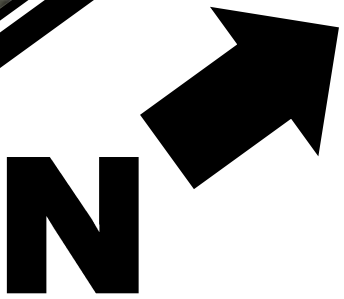
HOW TO

The best option to begin this project is Revit Architecture, an AutoCAD-based program for quickly modeling and massing site drawings for real construction use. As I also enjoy an attractive finished product, I will export the finished drawing from Revit to 3D Studio Max, another Autodesk product used for realistic 3D rendering and animation.

BASE REVIT DRAWING

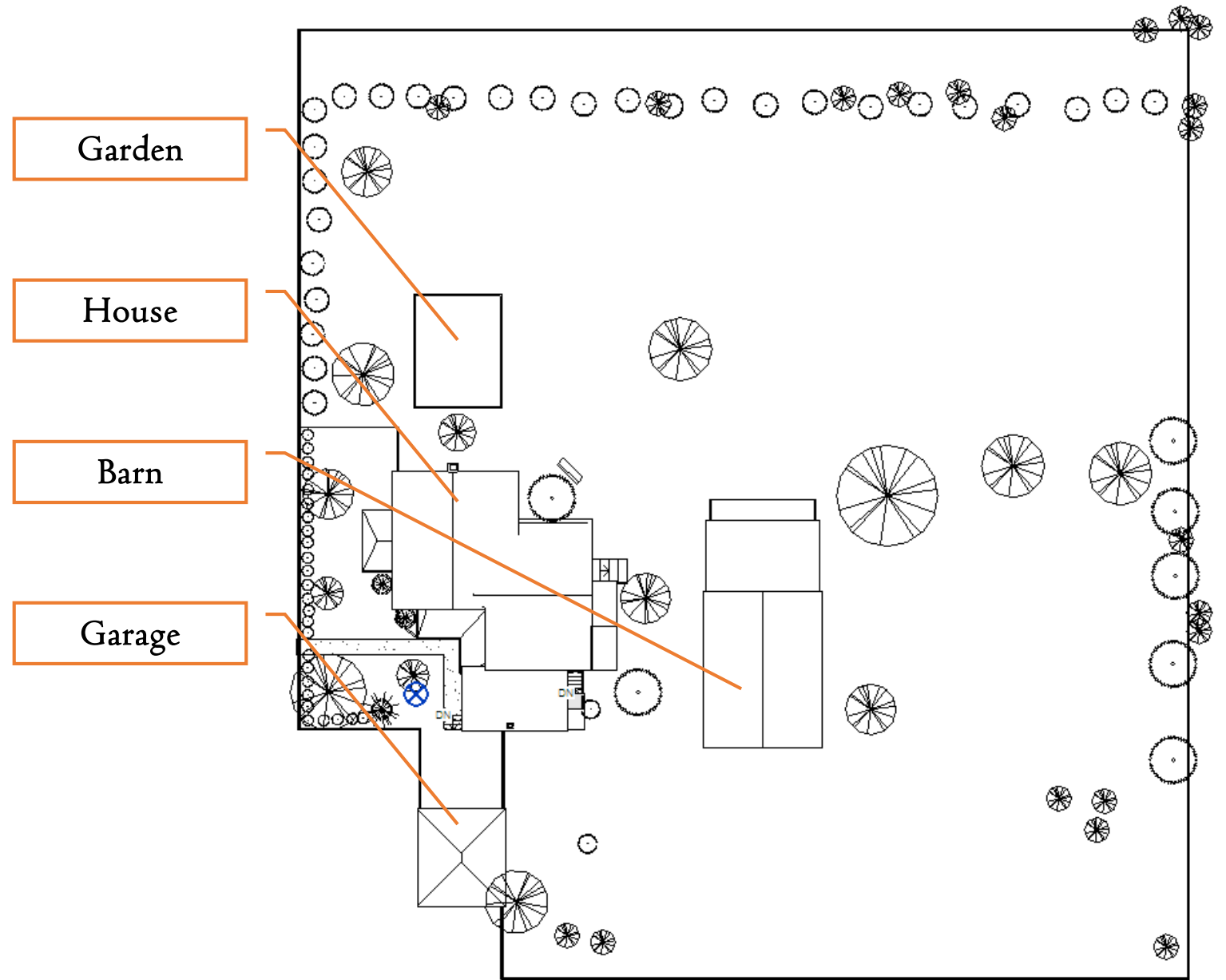
I went around the perimeter of our yard and house to get the exact dimensions of every major wall and window. With enough measurements I was able to estimate the relative proportions of the house enough to begin an accurate and clear drawing. Google maps also proved useful.

GOOGLE MAPS

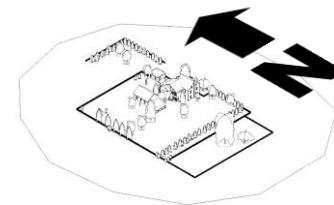


SITE DRAWING

This is the first completed drawing. Looking down, you can see approximately where every building and tree is located.



ELEVATIONS



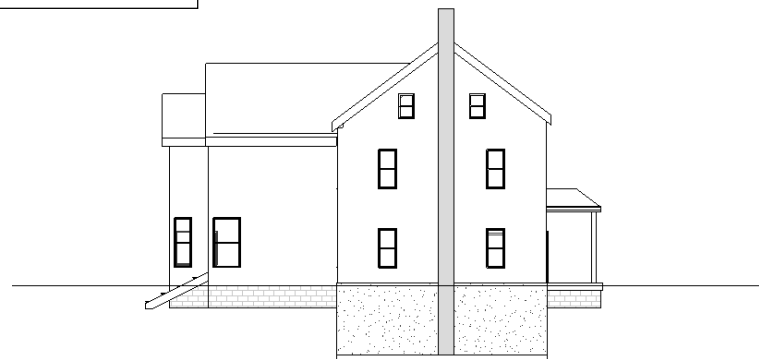
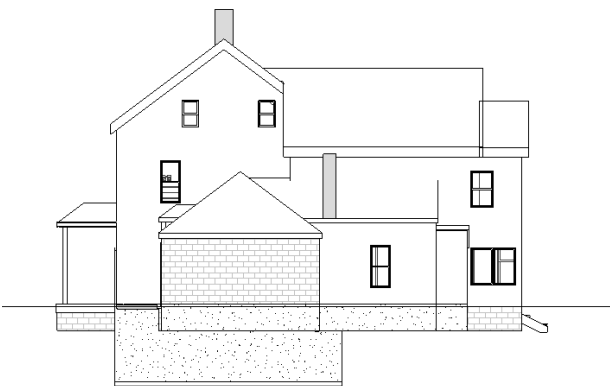
West

East

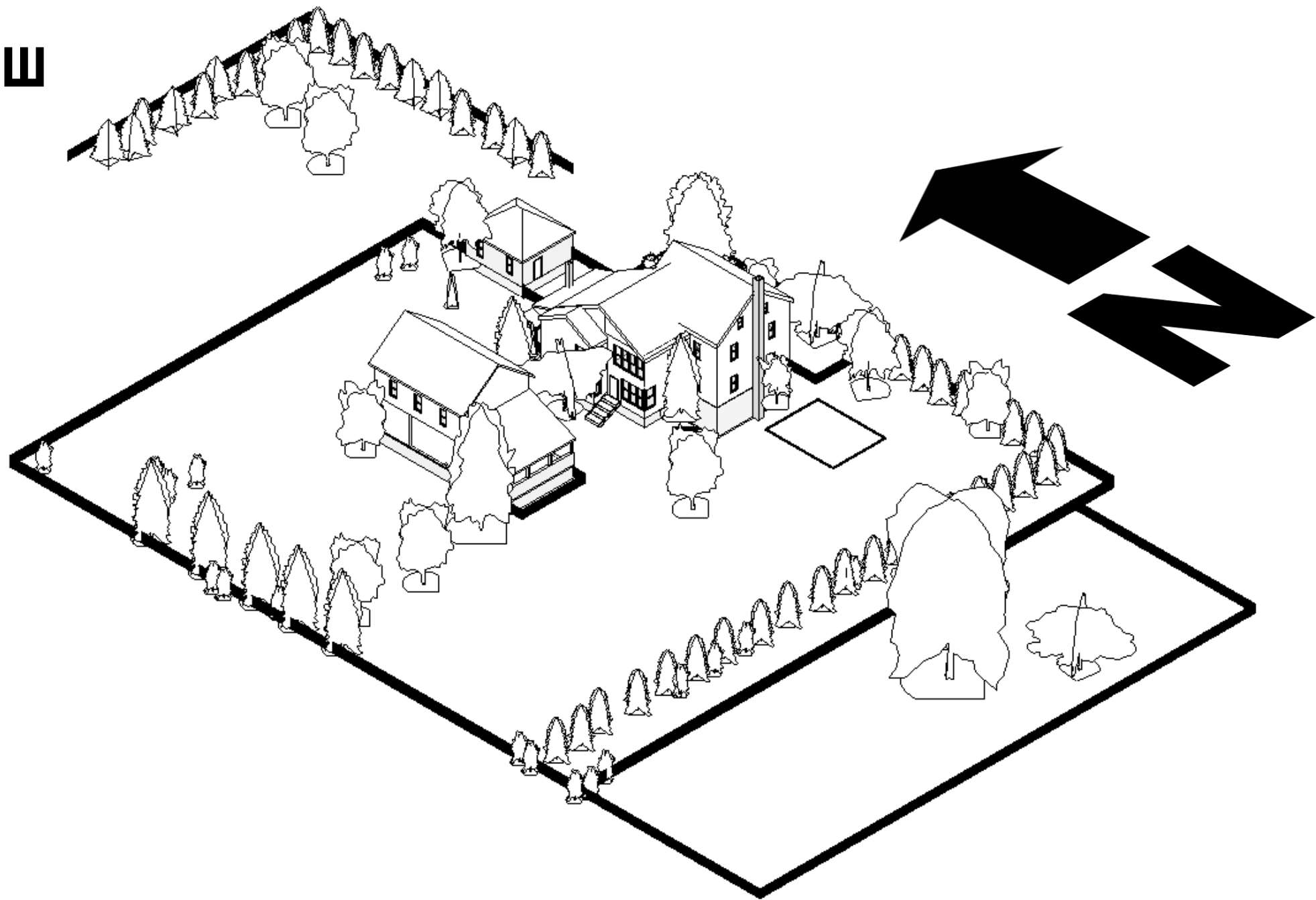


North

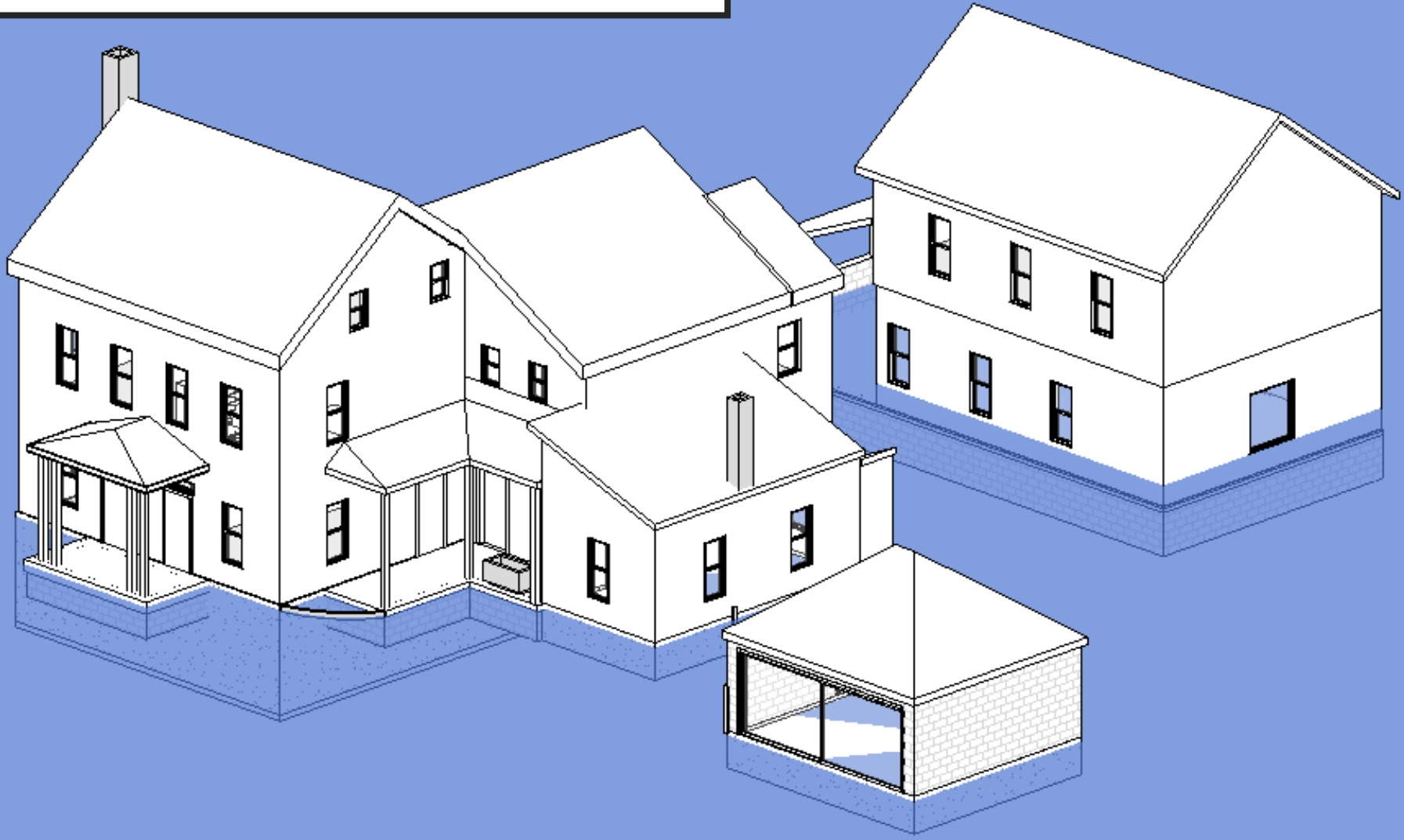
South



3D VIEW



3D VIEW
SHOWING SEA LEVEL

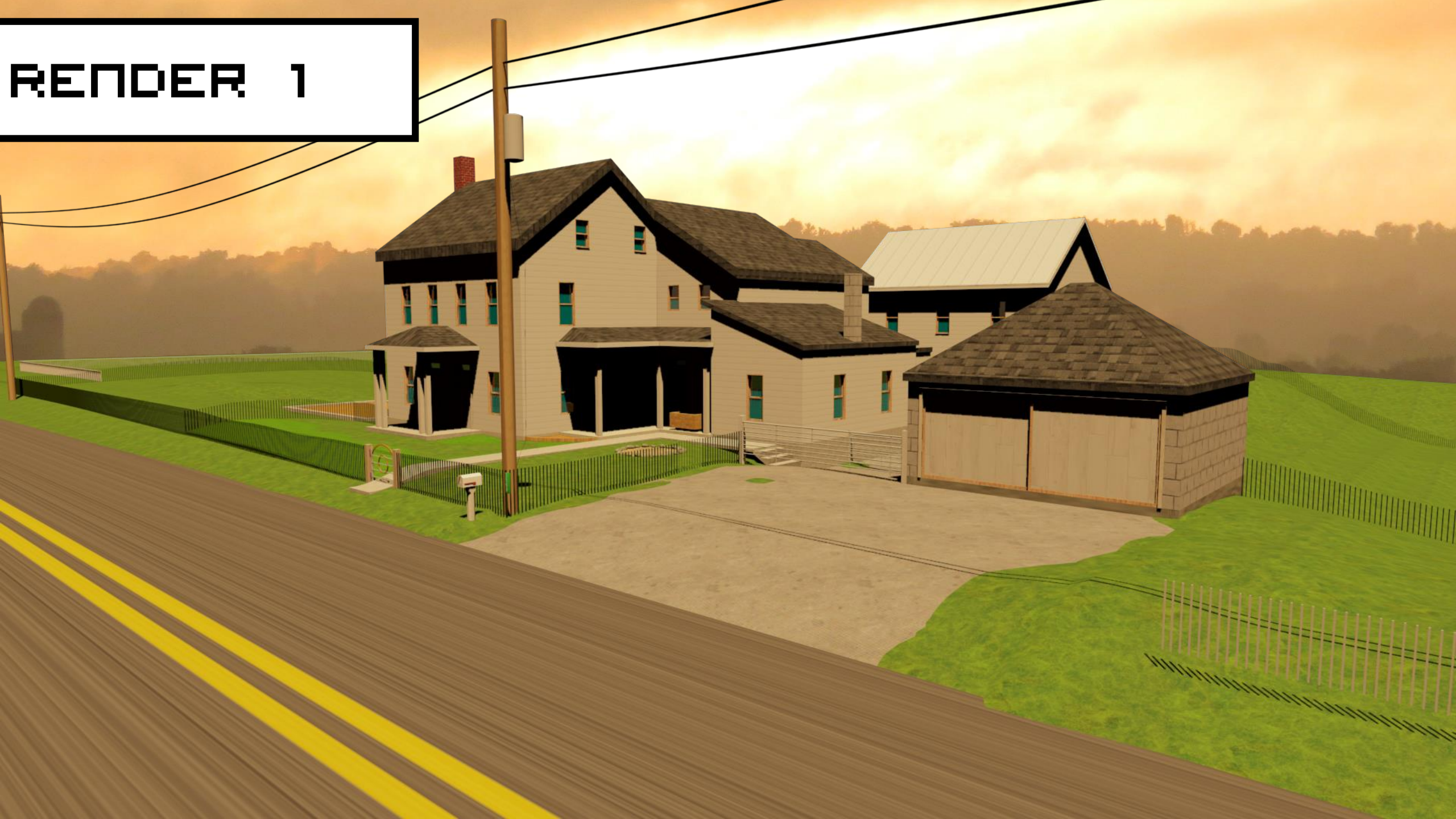


START 3D RENDERS

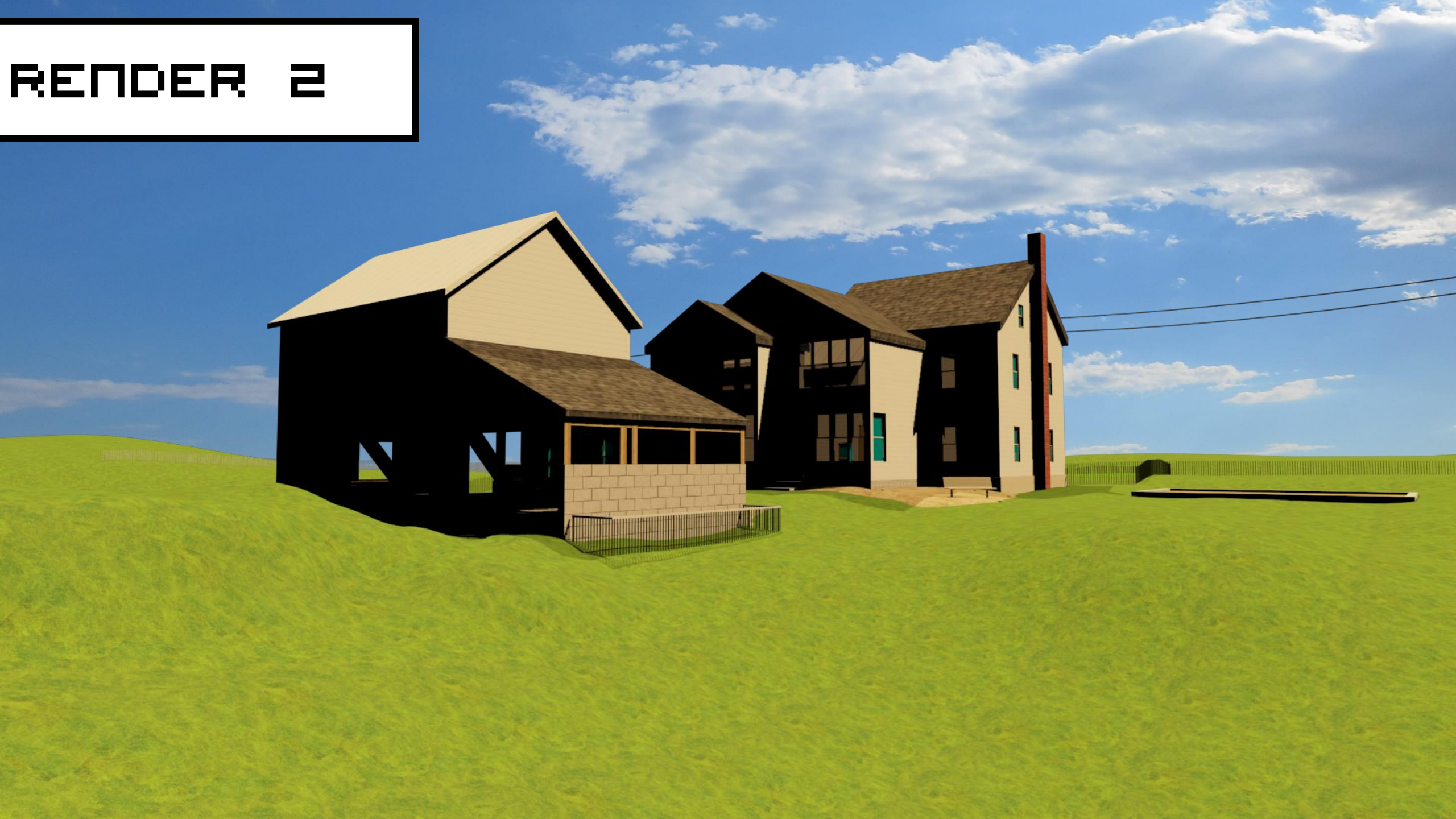
Once I completed the full architectural model, I exported the Revit project to a .fbx file, which I then imported into 3DS to add extra details.



RENDER 1



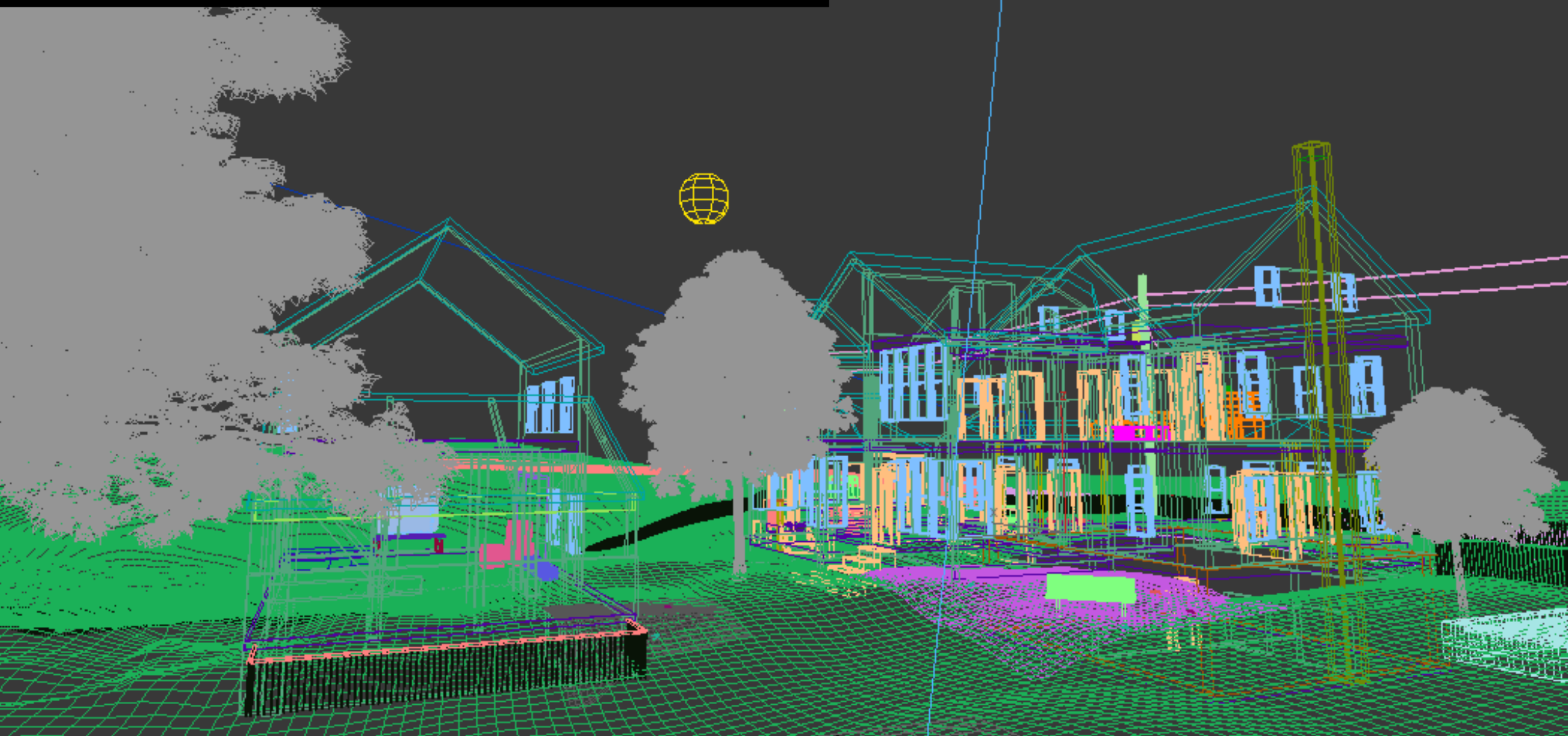
RENDER 2



RENDER 3



RENDER 4 WIREFRAME



RENDER 4



CONCLUSION AND FUTURE PROGRESS

The finished renders were a success. I was able to completely model both my house and barn, as well as sculpt the physical landscape on our property. The biggest challenge was lining up the walls and roof of our new addition with the slightly askew old house.

Future progress on this ongoing project will include the addition of all plumbing and electrical components in our house to create a %100 fully working drawing. Finding exact models for all of the specimen trees in our yard is also a must. I aim to have this complete before the end of this summer.