



MAKING THE LIRR CROSSINGS SAFER

ENGINEERING PROPOSAL PRESENTATION

MTA | DEQUAINIS ENGINEERING | PROJECT 99X





LONG ISLAND RAILROAD A SHORT INTRO



The LIRR is a railroad with a long and rich history. It has been an integral part of New York. . In 2016 alone, it averaged **354,800 passengers for weekday** ridership. Since its inception in **1834**, the LIRR has been one of the busiest railroads in the whole continent. [1]



For a railroad that has commuted New Yorkers since the 18th century, one wouldn't imagine there would be these **many problems**. LIRR has encountered **problems and accidents** since its maiden voyage. These accidents could have been avoided if the LIRR was kept up to date with the new technology and other safety measures. [1]



THE DEADLY WESTBURY INCIDENT

Two LIRR trains traveling in opposite directions slammed into a truck. That had apparently driven around the crossing gates on School Street in Westbury. The lives of those three people and the damage worth thousands of dollars could have been saved; if proper measures were taken!

THREE PEOPLE KILLED!

Three people, all of them inside the vehicle, were killed [2]



OUR FIRM DEQUAINIS
ENGINEERING WILL PROVIDE...

ECONOMICAL & ADEPT
SOLUTIONS

WITH OUR:

- WELL ACCOMPLISHED STAFF
- YEARS OF EXPERIENCE
- EXPERIENCE FROM SUCCESSFUL
PROJECTS WITH MTA IN THE PAST

dequainis

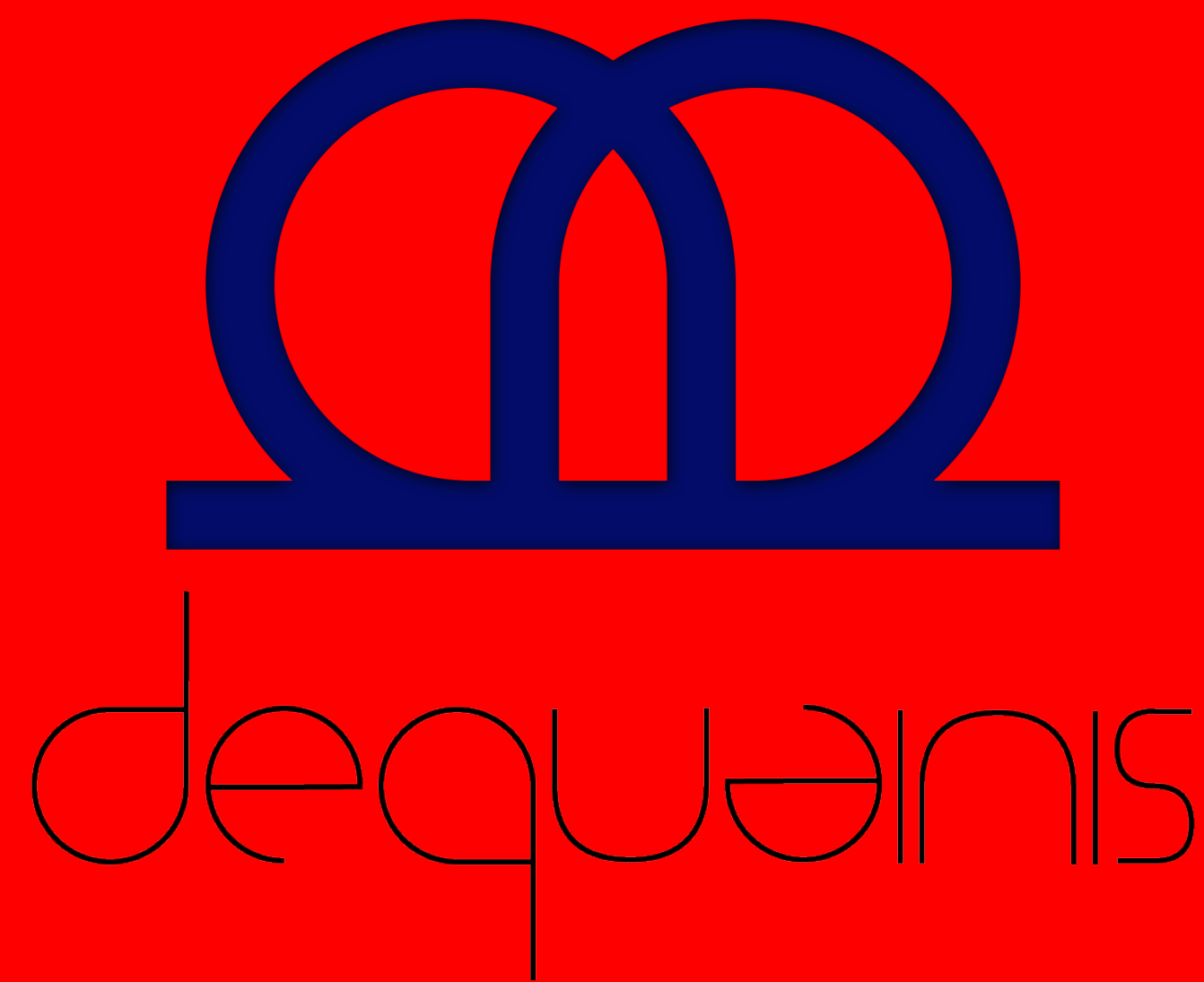


THE TWO SOLUTIONS

1: Build and replace the LIRR level crossings to bridges/overpass and tunnels/underpasses, where the traffic flow is greater.

2: Add high-tech radar sensors from Germany to detect obstacles on the crossings. Plus, we would increase the size of barriers, so it covers both lanes. Barriers will block the pass while the train is crossing, and the sensors will prevent the vehicles/obstacles from crossing while the train is coming.





REFERENCES

- [1] “Long Island Railroad - General Information,” MTA LIRR - General Information. [Online]. Available: <http://web.mta.info/lirr/about/GeneralInformation/>.
- [2] Barron, P. Mcgeehan, and E. G. Fitzsimmons, “L.I.R.R. Accident: How a Hazardous Rail Crossing Became a Deadly Crash Site,” The New York Times, 27-Feb-2019. [Online]. Available: <https://www.nytimes.com/2019/02/27/nyregion/lirr-westbury-accident.html>.
- [3] A Modern LI. (2019). New Hyde Park Road Grade Crossing Elimination - A Modern LI. [online] Available at: <https://www.amodernli.com/project/new-hyde-park-road-grade-crossing-elimination/>. (FIGURES)