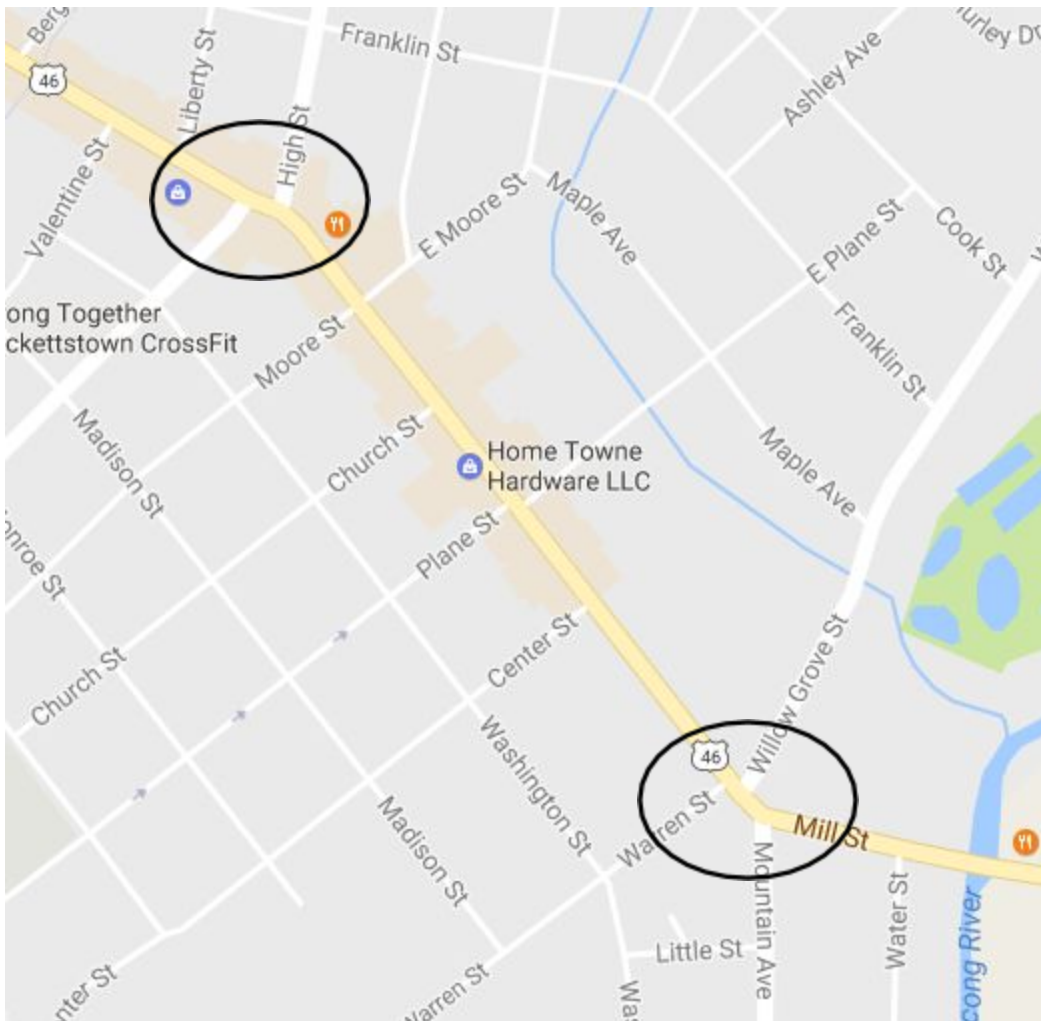


Hackettstown PTA Science Fair - 2018 Middle School S.T.E.A.M. Challenge

“Route 46 Headache”

Any resident of Hackettstown, or of surrounding towns, who travels by car on Rte. 46 (Main St.) during business hours usually encounters a bottleneck of automobile traffic. The traffic usually occurs on Main St. between Willow Grove St. and High/Grand St. The traffic build-up on Rte. 46 causes residual traffic backups on several side streets that are trying to crossover Rte.46. The side streets with intense back-ups are usually Willow Grove St. /Mountain Ave, High St. , and Grand St. The problem stems from these 2 awkward intersections circled below:



Objective: Propose a new traffic design for these 2 intersections that would

- Allow for traffic to flow more easily through the center of town on Rte. 46
- Allow for heavy traffic on Willow Grove St., Mountain Ave., High St., and Grand Ave. to cross over Rte. 46 without disrupting the flow through the center of town on Rte. 46

Proposal: To be done on a flat surface, like poster board, no larger than 3'X5'

- A drawn map or 3-D design highlighting the changes you would make to ease the traffic
- A written analysis including any current data highlighting the current problem, how your solution aims to solve the problem, and how your solution will minimally impact businesses/residents.