

## Report on the Synchronization of Traffic Signals in the City of Buffalo

- I. What's been done?
  - A. Signal controllers were updated and wireless communication was installed between traffic signals and City Hall traffic control room with a fiber-optic connection to NITTEC operations center, thereby connecting signals to IQ Central software. Timing can be adjusted and coordinated remotely. Done as part of energy saving project where traffic signals were converted from incandescent to LED. 2008 APWA project of the year.
    1. Niagara Street
    2. South Park Avenue
    3. William Street
  - B. NYSDOT owned and maintained corridors with time based coordination in effect.
    1. Elm Street
    2. Oak Street
    3. Tupper Street
    4. Goodell Street
  - C. Additional corridors in whole or partially have been tied into the IQ Central system or are in the process of being added to the system as part of nearly completed or ongoing projects.
    1. Genesee Street
    2. Bailey Avenue
    3. Main Street (from Humboldt to City Line)
    4. Delaware Avenue (from Mohawk to Delavan) – by City
    5. Delaware Avenue (from Nottingham to Kenmore) – by NYSDOT
    6. Michigan Avenue (from South Park to William)
  - D. NYSDOT is implementing time based coordination at our request.
    1. Broadway
- II. What are the next steps?
  - A. City signal project in design phase includes a tie into IQ Central
    1. South Elmwood (from Chippewa to Church)
  - B. City pursuing federal grant funding to coordinate the remaining snow emergency/evacuation routes in the City.
    1. Clinton Street
    2. Main Street (from Tupper to Humboldt)
    3. Seneca Street
    4. Elmwood Avenue (from Chippewa to City Line)
  - C. Traffic signal study was recently begun which is hopefully a precursor to a signal replacement project which would include a coordination element.
    1. Delavan Avenue
  - D. Coordination of all of the above would provide flexibility to begin coordinating secondary arterials.