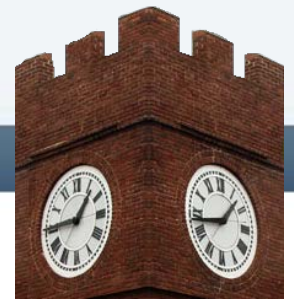




Engineering Department Overview

Presented by Thomas J. Sheridan, P.E., P.S. - City Engineer

Presented to City Council
Tuesday, August 13, 2013

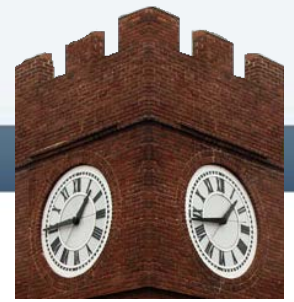


Engineering

- **Strategic Planning:**

- 1. **Department specific long-range planning:**

- The Engineering Department utilizes engineering studies, reports, public concerns, investigation and inspection data when evaluating long-range planning of the roadway improvements, traffic signals, intersection improvements, and utility upgrades within the City.
 - Storm watershed studies (Incl. Mudbrook and Tinkers Creek).
 - Traffic Accident data (Hudson PD, AMATS, & State of Ohio).
 - Traffic Congestion data from AMATS on regional primary/secondary roads within Hudson.
 - Sanitary sewer modeling, actual metered data, sewer televising logs, & surcharging reports.
 - Water line breaks and multiple disruptions to fire and domestic water service. Improve water quality, and water age within the water system.



Engineering

2. Strategic Plan Goals - Engineering Dept.:

Goal 1.4.1 - Assess & evaluate alternative traffic control methodologies within Hudson.

- Roundabouts, improvements in pedestrian signals & traffic cameras.

Goal 1.4.2 - Adopt a plan for alternative transportation connectivity.

- Addition of Bike lanes on primary/secondary road improvements, collaborating with the Parks Dept. on their proposed trails and incorporating sidewalk extensions within the City annual budget.
- The 2013 Connection plan collaboration with CD, PW, Parks, Finance and Administration goals. (In Sept. 2013, a revised connection map, cost per segment & priorities of trails and sidewalks will be presented to City Council.)

Goal 1.4.3 - Conduct a city-wide traffic impact study.

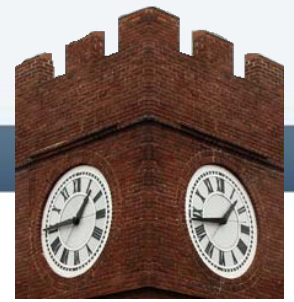
- With recent improvements to SR 8 and the addition of the Seasons Road interchange, the Engineering Department is planning to perform an impact study to determine where we may need to plan future improvements and this study will provide new data that will direct us on improvements to the network system.

Goal 1.4.4 - Reassess & evaluate the S. Oviatt St. connector.

- Assess this project in conjunction with the city wide impact study as stated above. Review benefit cost ratio of the project and alternatives to this project.

Goal 3.1.2. - Determine Hudson's direction for utilities.

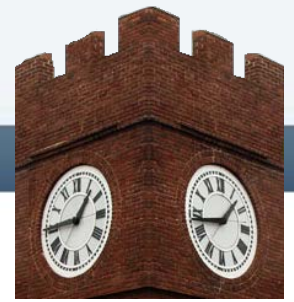
- The Engineering Dept. will continue to evaluate the long term goals and improvements of the sanitary, storm and water systems annually with administration. (A Recent evaluation included the CVI Feasibility study for the sanitary sewer system.)



Engineering

- **Budget Information**

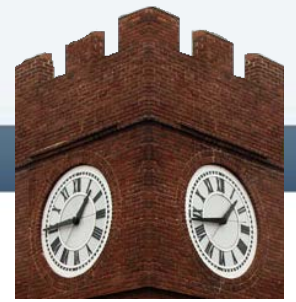
- The budget discussions for the Capital Infrastructure Programs and the Engineering Operating Budget starts annually in July, it is presented to the administration in August, and subsequently submitted to City Council in October for review and approval by December.
- The Capital Programs and the Engineering Departments revenue originates from the General fund.
- Budget impacts would have a long term affect on the Five (5) year budget for the Capital Programs and improvements would most likely become short-term repairs (i.e. road patching, utility point repairs, etc.)vs. long-term replacement (i.e. resurfacing the entire road, improving the entire utility line, etc.).
- Cost pressures would come from a reduction in the City income tax revenue.



Engineering

- **Budget Information (cont.)**

- Department-specific unfunded projects or initiatives:
 - Hines Hill Grade Separation. (Construction and Design \$6.7 M)
 - Oviatt Street Connector. (Construction and Design \$5.5 M)
 - Sidewalk extensions and trail priority plan connection plan.
- If funding were reduced, the City administration would need to rely on a private consultant to perform the daily engineering tasks and the management of improvement projects, apply for State and Federal grants, and perform the construction management/inspection of the improvement projects.



Questions?



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