Jamestown Traffic Calming

Background

– AECOM hired through Boulder County contract to look at traffic calming options

– Recurring concern from town residents on the speed of traffic through town

– Jamestown Recovery Plan specifically mentions traffic calming should be implemented
Jamestown Traffic Calming
Background

– Flood damaged pavement to be replaced by Boulder County James Canyon permanent repairs (FEMA)
  *Tentative summer 2017*

– Non-FEMA Pavement Reconstruction Project (CDBG-DR) will repair other CR-94 pavement in town
  *Tentative summer 2017*

– Traffic calming features to be installed as part of the Non-FEMA pavement project

– Concrete dip at Merc will be rebuilt as part of Non-FEMA pavement project; it is needed for stormwater drainage
Jamestown Known Traffic Issues

- EB traffic speeding down hill
- Speed bump
- Pedestrian crossing activity
- Traffic too fast thru town center
- Not stopping at STOP sign
Traffic Calming Options

– Gateway Monument

– “Your Speed” Radar Sign
Traffic Calming Options

– Flashing Beacons on Regulatory Signs
– Additional Speed Limit Signs
Traffic Calming Options

– Intersection Channelization
– Roadside Parking Prohibitions
– Larger Street Name Signs
Traffic Calming Options

– Pedestrian Actuated Crossing Sign
Traffic Calming Options

- Speed Humps
  - 12-14 ft length, longer than speed bumps with gentler slope so less noise compared to bumps, but don’t reduce speed as much
Traffic Calming Options

– Rumble Strips
– Narrowing Lanes With Edge Striping
Traffic Calming Options
West End Potential Locations

- Edge Line Lane Narrowing (Thru Town)
- Your Speed Radar Sign
- Rumble Strips
- Gateway Monument
- Stop Sign Beacon
- Speed Limit Beacon
- Speed Hump
- Main St
- Ward St
Traffic Calming Options
Town Center Potential Locations

- Pedestrian Actuated Crossing Signs
- Speed Hump
- Intersection Channelizing
- Edge Line Lane Narrowing (Thru Town)
- Stop Sign Beacon
- Speed Limit Beacon

Locations:
- Mill St
- Main St
Traffic Calming Options
East End Potential Locations

- Rumble Strips
- Your Speed Radar Sign
- Gateway Monument
- Edge Line Lane Narrowing (Thru Town)
- Mill St
Traffic Calming Rankings

– Options were ranked on effectiveness, relative cost, right-of-way needs, maintenance needs

– Higher scoring options
  • Narrowing lanes with edge striping
  • “Your speed” radar signs
  • Flashing beacons on stop signs / speed limit signs
  • Larger street name signs
  • Speed humps
  • Pedestrian actuated crossing sign
Traffic Calming Options
Issues to Consider

– “Light pollution”

– Speed hump / rumble strip noise

– Battery replacement maintenance for solar systems

– Pedestrian actuated crossing
  • Relatively high cost option for relatively low volume crossing
  • No sidewalks to connect to

– Right-of-Way needs for gateway monuments or crossing
Traffic Calming Recommendations

– Street name signs have already been installed

– Implement during paving project:
  • Narrow lanes with edge striping
  • “Your speed” radar signs
  • Stop sign flashing beacons, speed limit flashing beacons

– Other options based on community input
  • Speed humps
Next Steps

– Community feedback on the options
– Estimate construction costs for preferred alternatives
– Confirm budget with funding agency (CDBG-DR)
– Town Board approval
– Design and plan development (AECOM)
– Construction (tentative summer 2017)
Traffic Calming Option Descriptions

**Speed hump** – rounded mounds usually from 10 -18 feet long, and 3 inches high. Due to the shorter height, gentler slope and increased length, speed humps have less of a noise impact than speed bumps, but speed reduction is also lessened. Less impact on emergency vehicles and snow plows than our current speed bumps. Speed humps with a length of 10 – 12 feet reduce average speeds to 15 - 20 MPH.

- **Pros**: very effective at reducing speeds, inexpensive, less negative impact on drivers, neighbors, emergency vehicles and snow plows than speed bumps.
- **Cons**: noise pollution, slight impact on emergency vehicles and snow plows

**Rumble strips** – roughened areas of pavement that cause noise and vibration. Encourage drivers to slow down to minimize the noise and vibration.

- **Pros**: mildly effective, inexpensive.
- **Cons**: noise pollution.

**Gateway monuments** – placed near entrance to town, draw drivers’ attention to fact that they are leaving a higher speed road and entering a town.

- **Pros**: mildly effective, visually attractive, quiet
- **Cons**: can be expensive (depending on design)

**Narrowing with striping** – painting the lane striping to decrease road lane width appearance to 11 feet. Visually gives drivers sense of narrower road and need for lower speed.

- **Pros**: very inexpensive, no noise or light pollution, mildly effective at reducing speeds.
- **Cons**: none

**“Your Speed” radar signs** – measure driver’s speed and call driver’s attention to that speed. May display messages related to driver’s speed.
• Pros: very effective, quiet.
• Cons: expensive to install, solar batteries need replacing approximately every ten years

**Beacons or edge-lit stop/speed limit signs** - Lit signs intended to draw driver’s attention to regulatory signs.

• Pros: very mildly effective, inexpensive
• Cons: light pollution

**Pedestrian-actuated crosswalk** - crosswalk with lights that are activated by pedestrians.

• Pros: increase safety of pedestrians
• Cons: extremely expensive, light pollution, few users compared to cost
Thank you