



**Safe Routes to School
Infrastructure Program
John Glenn Middle School
Bedford, MA**

25% Design Public Hearing

February 11, 2016



PLAN | PERMIT | DESIGN | CONSTRUCT



SRTS John Glenn Middle School



- 100% Funding: P-P-D-C
- Town Acquires Right-of-Way
 - Uniform Relocation Act
- Program Goals
 - Improve Safety & Mobility
 - Encourage Children to Walk & Bike

SRTS John Glenn Middle School Planning Assessment

John Glenn Middle School Bedford, Massachusetts

Safe Routes to School Infrastructure Program



Massachusetts Department of Transportation (MassDOT)
Office of Transportation Planning



Preliminary Assessment

April 3 2015

MassDOT
Massachusetts Department of Transportation



| KEY | PROPOSED IMPROVEMENT | FEASIBILITY | SAFETY/ MOBILITY BENEFIT | COST |
|--|---|-------------|-----------------------------|----------|
| | Proposed SRTS Infrastructure Project | | | |
| SRTS | Reconstruct Sidewalks and Install Traffic Signal with Pedestrian Countdown Indicators at Great Road and Middle Way Construct Sidewalk Connection Between High School and Middle School | High | High | Moderate |
| Recommendations to be Pursued by the City or through Other Funding Sources | | | | |
| 1 | Construct Sidewalk on Railroad Avenue from the Reformatory Branch Rail to South Road (Currently in Design) | High | High | High |
| 2 | Improvements to Great Road Crossing at Bacon Road and Hillside Avenue | High | High | Low |
| 3 | Construct Sidewalk on Bacon Road / Crescent Avenue / Hartford Street | Moderate | Moderate | High |
| 4 | Construct Sidewalk and Install Lighting on School Way | Moderate | Moderate | High |
| 5 | Implement Drainage and Grading Improvements at Great Road and Loomis Street | Moderate | Moderate | Moderate |

MassDOT Figure 4: Location of Recommended Improvements
Massachusetts Safe Routes to School Infrastructure Team Page 24 of 34

SRTS John Glenn Middle School Planning Assessment

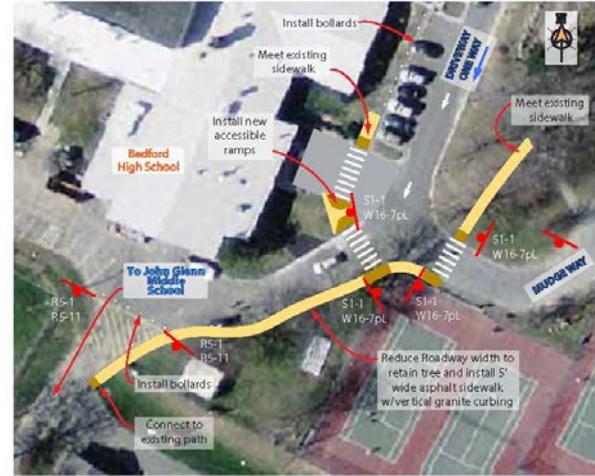


RECOMMENDED SCOPE OF WORK AND CONCEPTUAL COST ESTIMATE:

| | |
|--|---------------------|
| 5' WIDE CONCRETE & ASPHALT SIDEWALK & GRANITE CURB (INCLUDING RAMPS) | = \$ 111,000 |
| PAVEMENT MILL AND OVERLAY | = \$ 32,500 |
| SIGNS & STRIPING | = \$ 8,000 |
| LANDSCAPING | = \$ 6,500 |
| TRAFFIC CONTROL/FIELD OFFICE | = \$ 77,500 |
| DRAINAGE MODIFICATIONS | = \$ 27,000 |
| UTILITY POLE RELOCATION | = \$ 30,000 |
| TRAFFIC SIGNAL | = \$ 150,000 |
| +/- 25% CONTINGENCY & CONSTRUCTION ENGINEERING | = \$ 110,500 |
| TOTAL | = \$ 553,000 |



Figure 5 : Reconstruct Sidewalks and Install Traffic Signal with Pedestrian Countdown Indicators at Great Road and Mudge Way



RECOMMENDED SCOPE OF WORK AND CONCEPTUAL COST ESTIMATE:

| | |
|---|---------------------|
| 5' WIDE ASPHALT SIDEWALK & GRANITE CURB (INCLUDING RAMPS) | = \$ 101,000 |
| SIGNS & STRIPING | = \$ 8,500 |
| LANDSCAPING | = \$ 4,500 |
| DRAINAGE IMPROVEMENTS | = \$ 12,000 |
| TREE REMOVAL | = \$ 3,000 |
| BOLLARDS | = \$ 11,500 |
| +/- 25% CONTINGENCY & CONSTRUCTION ENGINEERING | = \$ 35,000 |
| TOTAL | = \$ 175,500 |

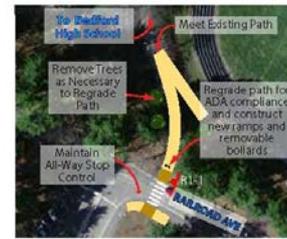
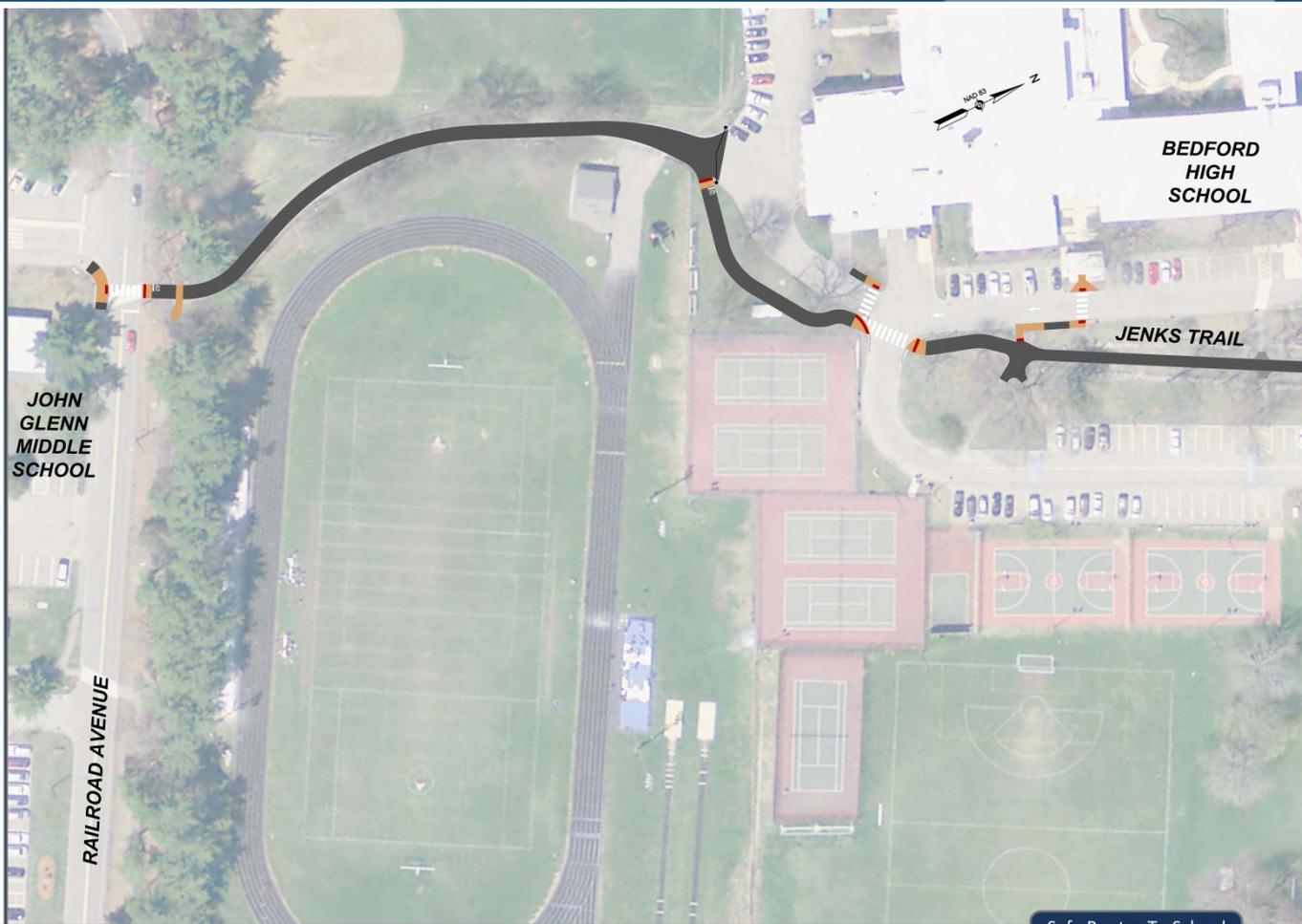


Figure 6 : Construct Sidewalk Connection Between High School and Middle School

SRTS John Glenn Middle School Proposed Improvements

Design Components

- 10' multi-use trail
- Tree Preservation
- ADA Compliance
- Pavement Markings
- Signage



40 Elm Street
Lawrence, MA 01840
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TheGlennMiddleSchool.com

Not to Scale
February 11, 2016

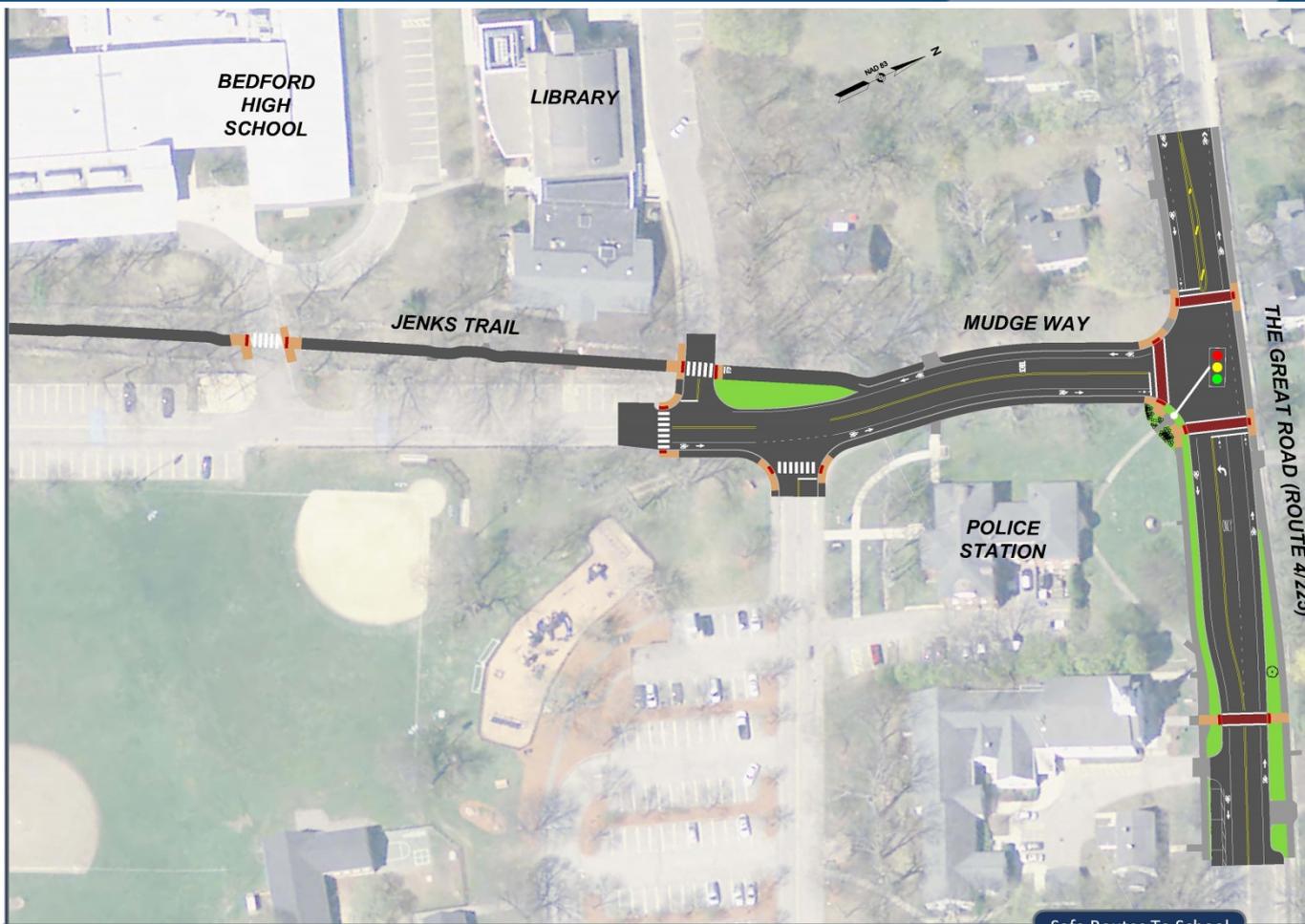
| Legend | |
|---------------------------------|---------------------------|
| ■ Asphalt Sidewalk/Path/Roadway | ■ Stamped Brick Crosswalk |
| ■ Concrete Sidewalk/Driveway | ■ New Traffic Signal |
| ■ ADA Wheelchair Ramp | |
| ■ Grass/Landscaped Area | |

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SRTS John Glenn Middle School Proposed Improvements



Design Components

- 10' multi-use trail
- Tree Preservation
- ADA Compliance
- Pavement Markings
- Signage

Great Road Master Plan

- Mudge Way Signal
- Complete Streets



65 Great Road | 381 Open Boulevard
Lawrence, MA 01840 | 978.681.1100
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TEC@TECMA.COM

Not to Scale
February 11, 2016

| Legend | |
|---------------------------------|---------------------------|
| ■ Asphalt Sidewalk/Path/Roadway | ■ Stamped Brick Crosswalk |
| ■ Concrete Sidewalk/Driveway | ■ New Traffic Signal |
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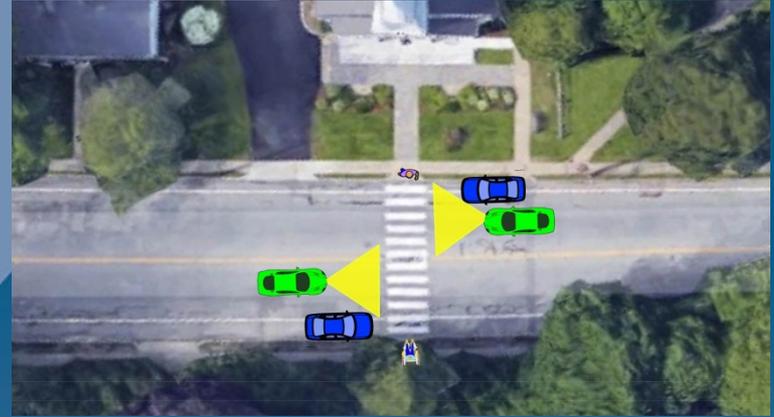
SRTS John Glenn Middle School Great Road Master Plan

Mudge Way Signal

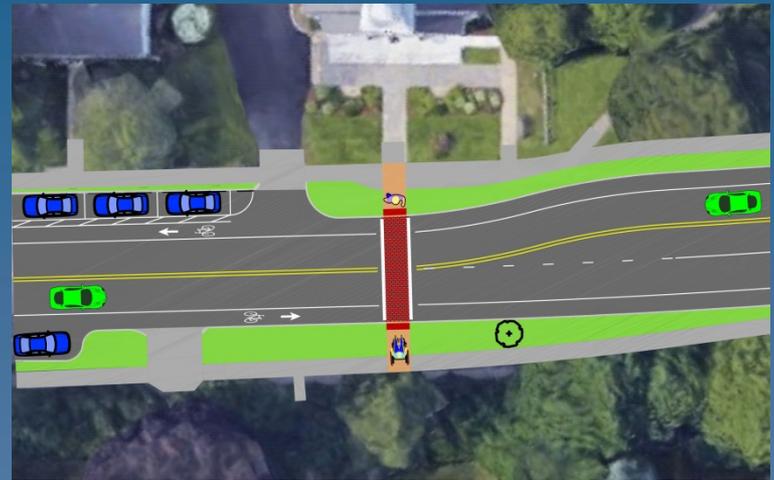
Complete Streets



Before



After



SRTS John Glenn Middle School Project Schedule

Next Steps

- 25/75% Design Submittal: Complete
- Design Public Hearing: Today
- 100% Design Submittal: March 1, 2016
- Town Meeting: March 2016
- PS&E Final Design Submittal: June 2016
- Town to Acquire Easements: August 2016
- Advertise for Construction: September 2016
- Begin Construction: Spring / Summer 2017

Current Construction Cost = \$1.0M

SRTS John Glenn Middle School

***COMMUNITY
FEEDBACK***

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