COMPLETE STREETS
SPOTLIGHT
City of New Britain:
Bicycle Network Improvements
Speakers:
Mark Moriarty, P.E.—Director of Public Works
Carl J. Gandza—Engineering Project Manager
March 31, 2022  10:00am—11:00 am
New Britain’s Bicycle Network - From 0 to 50 (miles)

<table>
<thead>
<tr>
<th>Infrastructure Type (paved)</th>
<th>Total Length (miles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bike Lanes</td>
<td>18.19</td>
</tr>
<tr>
<td>Buffered Bike Lanes</td>
<td>1.90</td>
</tr>
<tr>
<td>Marked Shared Lanes (Sharrows)</td>
<td>18.42</td>
</tr>
<tr>
<td>Paved Multi-Use Trails</td>
<td>5.50</td>
</tr>
<tr>
<td>Bike Boulevards</td>
<td>0.41</td>
</tr>
<tr>
<td>Wide Paved Shoulders</td>
<td>8.41</td>
</tr>
</tbody>
</table>
| **TOTAL**                        | **52.83 miles**      

New Britain’s 10 Year Bike Ride
So it’s 2012....
New Britain's Bicycle Network - From 0 to 50 (miles)
Complete Streets are streets designed and operated to enable safe use and support mobility for all users. Those include people of all ages and abilities, regardless of whether they are travelling as drivers, pedestrians, bicyclists, or public transportation riders.

Transit-oriented development, or TOD, includes a mix of commercial, residential, office and entertainment centered around or located near a transit station. Dense, walkable, mixed-use development near transit attracts people and adds to vibrant, connected communities.

Bike lanes enable bicyclists to ride at their preferred speed without interference from prevailing traffic conditions and facilitate predictable behavior and movements between bicyclists and motorists.

New Britain's Bicycle Network - From 0 to 50 (miles)
With Complete Streets came our initial discussions about downtown Bike Lanes.

The question came up where are these downtown bike lanes going to connect to???
And there was another factor ...

In economically disadvantaged communities there are real needs to safely accommodate bicycling as a safe and inexpensive transportation alternative.
And there probably is one more factor ...
In 2012 we did a second masterplan focused on city-wide bicycle connectivity.
New Britain's Bicycle Network - From 0 to 50 (miles)

Our Goal Was:

1. Connectivity City-wide
2. North, South, East, West, and Central Options
3. Connections to the Downtown, Schools, and City Parks
Local cyclist and cycling advocates developed most of the routes.

Routes were based on then current conditions.

Initial planning proved incredibly valuable.

2013 Plan for City-wide Bicycle Connectivity.
Began City’s partnership with local Bicycling Advocates and Led to the formation of Bike New Britain
### City of New Britain Complete Streets - Total Investment March 2021

<table>
<thead>
<tr>
<th>Project</th>
<th>Grant</th>
<th>City</th>
<th>Project Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Downtown Complete Streets Phases 1-8</td>
<td>$20,130,400</td>
<td>$4,699,100</td>
<td>Varies, Phases 1-5 Complete</td>
</tr>
<tr>
<td>Broad Street - Phase 2 Improvements</td>
<td>$3,730,696</td>
<td></td>
<td>Complete</td>
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<tr>
<td>Stanley Loop Trail Phase 1</td>
<td>$248,000</td>
<td>$91,100</td>
<td>Complete</td>
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<tr>
<td>CT DEEP Rec. Trails Grant &amp; LoCIP</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Community Connectivity Bike/Ped Improvements</td>
<td>$377,000</td>
<td></td>
<td>Bid Phase - 2021 Construction</td>
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<tr>
<td>CMAQ Traffic Signal System</td>
<td>$3,000,000</td>
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<td>In Construction</td>
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<tr>
<td>Stanley Loop Trail Phase 2 - TA Set Aside Grant</td>
<td>$2,610,000</td>
<td>$261,000</td>
<td>In design - 2021 Construction</td>
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<tr>
<td>Beeline Trail - Phases 1 - 3</td>
<td>$3,180,000</td>
<td></td>
<td>In Design</td>
</tr>
<tr>
<td>TA Set Aside Grant &amp; CT DEEP Rec. Trails Grant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Downtown Paving and Crosswalks</td>
<td>$1,250,000</td>
<td></td>
<td>Complete up to Current Phases</td>
</tr>
<tr>
<td>John Downey Drive Improvements</td>
<td>$3,000,000</td>
<td></td>
<td>Funded, Est. 2023 Construction</td>
</tr>
<tr>
<td>City-wide Bicycle Infrastructure</td>
<td></td>
<td>$150,000</td>
<td>Installed w/ on-going maintenance</td>
</tr>
<tr>
<td>Totals:</td>
<td>$32,545,400</td>
<td>$8,781,896</td>
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</tbody>
</table>

**NB Complete Streets Total Investment** $41,327,296

*Most of Today’s Focus*
New Britain’s Bicycle Network – From 0 to 50 (miles)

On Road Bicycle Network
New Britain's Bicycle Network - From 0 to 50 (miles)

How New Britain Started...
New Britain's Bicycle Network - From 0 to 50 (miles)

2014

- Initial Bicycle Network Built
- Focus was “Getting Started”
- Easy Stuff
- Lots of Segments
2016

- Start Second Wave of Projects
- Focus on closing Gaps
- CTfastrak Open – Start Connecting
New Britain's Bicycle Network - From 0 to 50 (miles)

2018
- Continue Second Wave of Projects
- Focus on Connecting All Schools & Parks
2021

- Focus on Upgrading Facilities
New Britain's Bicycle Network - From 0 to 50 (miles)

First Projects – Shared Roads (Sharrows)
New Britain's Bicycle Network - From 0 to 50 (miles)

First Projects – Shared Roads

Underutilized Parking Lane
New Britain's Bicycle Network - From 0 to 50 (miles)

First Projects – Bike Lanes

Myrtle Street
New Britain's Bicycle Network - From 0 to 50 (miles)

First Projects – Bike Lanes

Black Rock Avenue
First Projects – Bike Lanes
First Projects – Bike Lanes
Eddy Glover Boulevard
First Projects – Bike Lanes

Eddy Glover Boulevard

Buffered Bike Lane in this case improved the pedestrian connection to Stanley Quarter Park
New Britain's Bicycle Network - From 0 to 50 (miles)

First Projects – Bike Lanes
New Britain's Bicycle Network - From 0 to 50 (miles)

Second Wave Projects: John Downey Drive

4 lanes → 3 lanes with bike lanes

Focus on **Traffic Calming** using bike lanes as part of the road diet and lane reduction
New Britain's Bicycle Network - From 0 to 50 (miles)

Traffic Calming – Alexander Road Bike Lanes

Existing Conditions

Proposed Improvements

Alexander Road Before and After showing narrowed lanes and bicycle accommodation
New Britain's Bicycle Network - From 0 to 50 (miles)

Second Wave Projects: Columbus Blvd.

4 lanes → 2 lanes with buffered bike lanes
New Britain's Bicycle Network - From 0 to 50 (miles)

Second Wave Projects: Pond Street

Existing One-Way Street with parking on wrong side → Contra Flow Bike Lane

[Diagram of Pond Street showing proposed typical cross-section (looking northbound)]
New Britain's Bicycle Network - From 0 to 50 (miles)

Recent Projects – Ella Grasso Blvd.

4 lanes → 2 lanes with buffered bike lanes

Ella Grasso Boulevard, adjacent to CCSU campus, recently was restriped to remove a travel lane in each direction and include buffered bicycle lanes.
Recent Projects – Intersection Treatments

Dedicated Cyclist Space – Approach To & Through Intersection
Recent Projects – Intersection Treatments

- Buffered Bike Lane
- Transition to Turn
- Pocket
Recent Projects – Intersection Treatments

Rectangular Rapid Flashing Beacon (RRFB)

RRFB at CTfastrak Multi-use Trail on East Street
New Britain's Bicycle Network - From 0 to 50 (miles)

Recent Projects – Intersection Treatments
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Recent Projects – Intersection Treatments
Multi-use Trail & Focus on Separated Facilities
New Britain's Bicycle Network - From 0 to 50 (miles)

Multi-Use Trails – Focus Area
Multi-Use Trails – Focus Area

- Safer separated facilities
- Accommodates less confident riders
- Provides both passive recreation and transportation uses
- Help City achieve other health related goals
- Improves connection to natural environment for urban residents
New Britain's Bicycle Network - From 0 to 50 (miles)

Multi-Use Trail Network
Stanley Loop Trail Overview

Identified in 2013 Bike Connectivity Plan

Phase I:
- Complete loop in AW Stanley Park
- Funded by DEEP Rec. Trails Grant & LOCIP

Phase II:
- 2022 Construction Project
- Connects CCSU to Stanley Quarter Park and AW Stanley Park (Phase 1 trail)
- Funded by Transportation Alternatives (TA) Set-aside Grant (~$2.2M)
Future Projects – Beeline Trail

- Part of CRCOG’s 2019 Gap Closure Study
- Identifies an alignment to connect the FCHT in Plainville with the CTfastrak Multi-use Trail in downtown NB
- Two NB Phases funded for construction & 1\textsuperscript{st} scheduled for 2022
- 3\textsuperscript{rd} Phase Funded for Design
New Britain's Bicycle Network - From 0 to 50 (miles)

Ella Grasso Boulevard by CCSU Campus

**Existing Conditions**

**Proposed Improvements**

**Proposed Improvements:**
- Physically separated, multi-use trail to improve safety and connectivity for vulnerable non-motorized users like pedestrians and bicyclists
- Improved access to the CCSU campus, CTfastrak, Stanley Quarter Park, AW Stanley Park and the West Farms Mall employment area
- Street trees for shade and aesthetics
Future Projects – John Downey Drive
New Britain’s Bicycle Network – From 0 to 50 (miles)

The 5 E’s of Bicycle Friendly Communities
New Britain’s Bicycle Network – From 0 to 50 (miles)

New Britain’s efforts to become a truly bicycle-friendly city will be guided by the League of American Bicyclists 5E’s:

**Equity, Diversity & Inclusion (EDI):** Creating safe and convenient places to ride and park for everyone.

**Engineering:** Giving people of all ages and abilities the skills and confidence to ride.

**Education:** Creating a strong bike culture that welcomes and celebrates bicycling.

**Encouragement:** Planning for bicycling as a safe and viable transportation option.

Partnership, Education and Encouragement:
New Britain will further our collaboration with Bike New Britain, Bike-Walk Connecticut, New Britain Roots, and others and build upon established community events such as Discover Bike New Britain and our Annual Bike Rodeo.

Due to its accomplishments, New Britain has achieved the Bronze status rating from The League of American Bicyclists as well as recommendations to achieve the next level of Silver status.
New Britain’s Bicycle Network – From 0 to 50 (miles)

Nearly Everyone Walks
Not Everyone Bikes
New Britain's Bicycle Network - From 0 to 50 (miles)

Bike New Britain
New Britain’s Bicycle Network – From 0 to 50 (miles)

Bike Voucher & Earn a Bike Program

PARTNERS

- Bike NB
- CT Department of Public Health
- City Health Department
- NBPW
- NB Community Services Department
New Britain's Bicycle Network - From 0 to 50 (miles)

Education

Rules of the Road:
Bee Bike Friendly New Britain

Join Bike New Britain for an interactive program to learn the rules of the road for both cyclists and drivers. The program will be followed by an optional bike ride, weather permitting. Bring your bike or one can be provided by New Britain Bike Share. Registration is recommended, especially if you will need a bike from the Bike Share program.

Thursday
June 23
6:30 pm
Community Room

New Britain Public Library
20 High Street
New Britain, CT 06051
860-224-3155, ext. 125

T2 Connecticut Transportation Institute
Experience the NEW
New Britain's Bicycle Network - From 0 to 50 (miles)

Education – Traffic Skills 101
New Britain's Bicycle Network - From 0 to 50 (miles)

Annual Bike Rodeo
New Britain's Bicycle Network - From 0 to 50 (miles)

Bike To Work Day

Friday, May 17
BIKE TO WORK DAY 2019
Meet Up at the Bike New Britain Community Bike Shop, 39 Bank St. 7:30 to 8:30 AM

City of New Britain
Free Breakfast Reception Central Park, across from City Hall
Friday May 20, 2016
BIKE TO WORK DAY
New Britain's Bicycle Network - From 0 to 50 (miles)

Hardware City Bike Tour & Discover CT Bicycle Tour

Hardware City Bike Tour
Sunday, Sept. 27th
races start at 9:30 am — followed by “Sunday Brunch at the Museum”

Discover Connecticut BICYCLE TOURS 2015

Hardware City Bike Tour
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races start at 9:30 am — followed by “Sunday Brunch at the Museum”

Discover New Britain’s many miles of bicycle facilities and why New Britain was ranked number three on Bike Walk Connecticut’s 2014 Town-by-Town Scorecard and received “Bike Friendly Community” status by the League of American Bicyclists. Routes will showcase many of New Britain’s landmarks including historic neighborhoods, parks and other scenic locations.

50, 25 & 50 mile rides
Starting / Ending Point: Walnut Hill Park @ The New Britain Museum of American Art
595 Advanced Registration
$30 PWCT / NHAVA members
45% Day of Event
All include Brunch

Funding Benefits:
Bike Walk Connecticut,
New Britain Police Athletic League (PALS),
and New Britain’s Bike Share Programs

Sponsors:
Visit bikewalkct.org for more information and registration

Leadership Sponsors:
Connecticut Health Foundation
CT Department of Transportation

Sponsors:
Connecticut Bicycle Coalition
CT Department of Transportation

Supporters:
Connecticut Bike Network
Connecticut Department of Environmental Protection
Connecticut Department of Transportation

Partners:
Connecticut Bike Network
Connecticut Department of Transportation

Connecticut Health Foundation
CT Department of Transportation
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New Britain's Bicycle Network - From 0 to 50 (miles)

Current Projects – Bike Route Loops

Two Scenic Bike Loops throughout the City starting and ending in Walnut Hill Park
New Britain’s Bicycle Network – From 0 to 50 (miles)

Looking Ahead
New Britain's Bicycle Network - From 0 to 50 (miles)
New Britain's Bicycle Network - From 0 to 50 (miles)

Actions

Looking forward the goals for improving the bicyclists’ environment are:

- Complete identified projects – This includes completing important bike connectivity projects in process such as the Stanley Loop Trail and Bee line Trails.
- Improve intersection safety - Focus will be on making the existing bike network safer at intersections (ex. Bicycle lanes painted green through Main Street intersections).
- Define target users – Target users, their comfort level, and needs for riding our bicycle network need to be better understood to increase use.
- Increase Connectivity – This will involve analyzing areas where we can close gaps or improve connections in the network in our networks. This could involve adding new bicycle lanes or off-road trails to make important connections. Opportunities are identified during the annual paving and striping program.
- Improve existing bicycle facilities – Existing facilities can be improved by upgrading to a safer more preferred facility, like converting an on-road bicycle lane to a buffered or physically separated bicycle lane. It could also involve adding better route signage, bicycle parking, or widening shoulders where possible.
- Establish a maintenance plan – Existing and planned facilities need a specific programmed maintenance plan for activities such as sweeping, restriping, or repainting markings.
- Seek Silver Status from the League of American Bicyclists – In the 2019 review, New Britain achieved a Bronze status. We will continue to review the recommendations and seek Silver status.
QUESTIONS?