WASHINGTON STREET CORRIDOR IMPROVEMENTS

Washington Street from Hainesville Road to Lake Street
Reconstruction
Add-Lanes
Railroad Grade Separation

Multi-Modal | Multi-Discipline | Multi-Year

Presented by: Jarrod Cebulski, PE, Patrick Engineering
Lake County Division of Transportation

- 300 miles of Roads
- 62 miles of Bikeways
- $20 mil Annual Operating Budget
- 5-Year $592 mil Capital Plan

Mission Statement:
To provide a safe, efficient and innovative transportation system to enhance mobility, economic development and quality of life in Lake County.
WASHINGTON STREET CORRIDOR IMPROVEMENTS

Challenge Bond Program: $171M

Enacted in 2008, these new sales tax revenues made possible:

- IL Route 21 | $28M | Complete 2013
- Fairfield Rd/IL Route 176 | $22M | Complete 2015
- Rollins Rd Gateway | $68M | Complete 2016
- Washington St Thoroughfare | $53M | Complete 2017
An important transportation corridor in central Lake County
18+ projects over the course of 1991-2017
WASHINGTON STREET CORRIDOR IMPROVEMENTS

PRELIMINARY ENGINEERING

Old Washington Street

- 16,000 vehicles per day (vpd)
- 18,000 vpd by 2030
- 214 crashes in a 4-year period

Washington Street Prior to the Improvement

At-Grade CNRR Crossing
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CANADIAN NATIONAL RAILROAD ISSUES
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PROJECT NEEDS

- Improve Safety
- Reduce Congestion
WASHINGTON STREET CORRIDOR IMPROVEMENTS

STAKEHOLDER COORDINATION

Context Sensitive Solutions (CSS)

Community Advisory Group (CAG)
- Meeting #1: November 18, 2009
- Meeting #2: April 7, 2010
- Meeting #3: May 12, 2011

Public Involvement
- Public Meeting #1: February 18, 2009
- Public Meeting #2: August 12, 2010
- Public Hearing: June 7, 2011

Washington Street CAG Meeting #2
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EXISTING TYPICAL CROSS SECTION
WASHINGTON STREET
HAINESVILLE ROAD TO LAKE STREET
WASHINGTON STREET CORRIDOR IMPROVEMENTS

PROPOSED TYPICAL CROSS SECTION
WASHINGTON STREET
HAINESVILLE ROAD TO LAKE STREET

- Varieties: 0' to 15'
- Prop. R.O.W.: 6'
- Exis. R.O.W.: 2'
- Prop. Curb: 11'
- Prop. Sidewalk: 11'
- Prop. Swale: 11'
- Prop. Pavement: 11'
- Prop. Bike Path: 2'
- Exist. R.O.W.: 4.5' to 10'
WASHINGTON STREET CORRIDOR IMPROVEMENTS

Preliminary (30%) Plan & Profile Sheet
Washington Street Corridor Improvements

Preliminary Design Approval = 1/13/12
WASHINGTON STREET CORRIDOR IMPROVEMENTS

- Began in Early 2012
- Processed as Two Separate Contracts
- West Contract – County and Local Agency Funding Only
- East Contract – Federal CMAQ, State GCPF, WCL RR, Grayslake, LCPW, CLCJAWA

Final Design
WASHINGTON STREET CORRIDOR IMPROVEMENTS

BRIDGE STRUCTURE

• Single span 101’-9”
• Skewed 31°
• Ballast deck
• 104” steel through plate girders w/protection beams
• Walkways both sides (aesthetic railing added by Grayslake during construction)
• Cast-in-place substructure
• Supported on steel H-piles
• Substructure built to accommodate a second track
• Retaining wall on the south side only
WASHINGTON STREET
CORRIDOR IMPROVEMENTS

RAILROAD GRADE SEPARATION

Meetings and Coordination with:
- CN RR
- Metra
- ICC

ICC Timeline:
- Petition – 4/4/14
- Interim Order – 7/30/14
- C&M Agreement – 12/4/14
- Final ICC Order - 5/1/15

Final Costs:
- ICC GCPF - $4,261,549
- CNRR - $1,555,705 (5%)
WASHINGTON STREET CORRIDOR IMPROVEMENTS

MAINTENANCE OF TRAFFIC

Maintenance of Traffic During Construction – Railroad Shoofly/Roadway Runaround
WASHINGTON STREET
CORRIDOR IMPROVEMENTS

AESTHETICS
WASHINGTON STREET CORRIDOR IMPROVEMENTS

Contractor Bids

Washington Grade Sep
Low Bid = $21,128,918
Bid Open = 11/21/14

Washington Central
Low Bid = $12,474,026
Bid Open = 5/19/15

Combined Construction Cost
$33,602,944
Maintenance of Rail and Roadway Traffic During Construction
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Temporary Roadway Runaround

Temporary Railroad Shoofly

Temporary Metra Platform
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Non-Motorized Facilities

Mid-Block Pedestrian Crossing
WASHINGTON STREET
• An important transportation corridor in central Lake County
• 18+ projects
• 1991-2017
WASHINGTON STREET CORRIDOR IMPROVEMENTS

Lake County Transportation Updates

Washington Street Thoroughfare Project Opening Event, Sept. 29
Completed Project:

Winner – 2018 ACEC Engineering Excellence Merit Award

Winner – 2018 APWA Lake Branch Transportation $25M-$75M

Winner – 2018 APWA Chicago Metro Chapter Transportation $25M-$75M
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Design website: www.washingtonthorouhfareproject.com
Construction website: www.washingtonstreetunderpass.com
https://www.youtube.com/watch?v=7koY36T_JlI