Housatonic Valley Council of Elected Officials Update: Danbury Branch Improvement Program & Electrification





Connecticut Department of Transportation



Study Purpose, Goals And Objectives – Phase I

Study Purpose

- Evaluate A Range Of Infrastructure And Service Improvements
- Determine Potential To Enhance The Branch's Attraction
- Alternative To Driving Route 7
- Alternative To Commuting On The Harlem Line

Goals And Objectives

- Reduce Travel Time And Provide More Frequent Service
- Explore Feasibility Of Passenger Service, Danbury To New Milford
- Help Reduce Congestion On Route 7
- Improve The Danbury Branch As An Alternative To The Harlem Line In New York State For Connecticut Rail Commuters





Public Involvement

- Study Information Available on Website:
 - http://www.danburybranchstudy.com
- Public Scoping
- Study Advisory Committee
- Meetings with Regional Planning Agencies, Federal and State Regulatory Agencies, Towns, and Stakeholders
- Public Information Meetings
- Public Hearing





Danbury Branch Study Status

Phase I – Completed May 2006 Report

- Data Collection
- •Evaluation Of Preliminary Alternatives
- •Identify "Candidate" Alternatives
- •Alternatives Summary Evaluation Report
- •Final Report Phase I

Phase II – Notice To Proceed November 2007



"Candidate" Alternatives From Phase I

- Alternative A -No Build
- Alternative B TSM
- Alternative C Build Improvements
- Alternative D Extension of Service
- Alternative E Partial Electrification



Alternative A - No Build

- Maintain existing service between South Norwalk and Danbury
- Assumption is CTC System is in place
- Georgetown Station will be developed

- Operational None
- Environmental No New Impacts
- Fleet Existing Fleet Retained
- Travel Demand Ridership Will Continue to Grow Due to Regional Growth, 1133 Yr. 2000 growing to 1592 in Yr. 2020 (AM Peak Inbound Boardings)
- Time Savings None
- Financial No Capital Costs Associated With This Alternative





Alternative B – Transportation System Management (TSM)

- Defined as Everything That Can Be Done Without New Construction or New Vehicle Procurement
- Some service improvements possible, including skip stop, express service or new outbound service



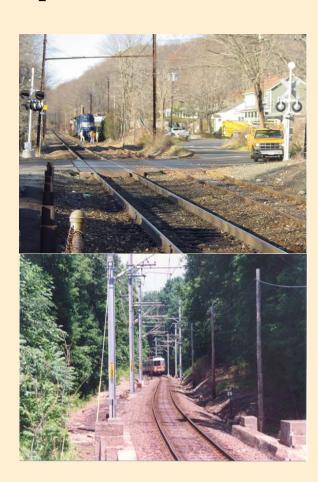
- Operational Possible Crew Changes If Service Frequency Changes
- Environmental No New Impacts
- Fleet Existing Fleet Retained
- Travel Demand To Be Determined in Phase II
- Time Savings To Be Determined in Phase II
- Financial No Capital Costs Associated With This Alternative. Possible Increase in Operating Costs



Alternative C – South Norwalk to Danbury Improvements

- Minor Alignment Changes
- Addition/Upgrade of Passing Sidings
- Installation of New Electrification System Between South Norwalk and Danbury
- Use Electric Multiple Units (EMU's)

- Operational Crew Changes With Increased Service Frequency; Bi-directional Service and AM/PM Peak Changes Possible; Track Speed Increased in Limited Areas
- Environmental Impacts at Sidings, Substations, and Overhead Catenary Wire
- Fleet Yes, New Emus If Electrified, New Equipment Needed to Increase Service
- Travel Demand Increases With Improved Travel Time; 12-minute savings shows approx. 80 additional AM Peak Inbound Boardings
- •Time Savings Yes, up to 12 Minutes
- Financial \$6.5 Million Track; \$9-\$31 Million for Passing Sidings; \$75 Million to Electrify; \$90 Million for Equipment





Alternative D – Danbury to New Milford Extension and Improvements

- Extend Passenger Service From Danbury to New Milford
- •New Stations at Danbury North, Brookfield and New Milford
- Improved Track Alignment to Allow Maximum Speed of 50 Mph



- Operational New Service; Crew Requirements; Track Speed Increases
- Environmental Possible Impacts at New Stations
- Fleet Additional Equipment Could Be Required; Equipment Conforms to Existing Fleet
- Travel Demand Initial Estimates Show 800 New Riders by 2020 (AM Peak Inbound Boardings)
- Time Savings Trip Time From New Milford to Danbury Would Be Approx. 38 Minutes With Alignment Changes vs. 48 Minutes On Existing Track
- Financial \$11.5 \$17.5 Million for New Stations; \$18.7 Million for Alignment Improvements; \$11 Million Per New Train Set. Total \$41 \$47 Million



Alternative E – Transportation Strategy Board (TSB) Partial Electrification with feeder rail/bus service

- Requested by TSB
- Partial Electrification From South Norwalk to Vicinity of Route 15/merritt Parkway
- Feeder Bus/rail Service North to Danbury



- Operational Impacts to Be Determined in Phase II
- Environmental Impacts Possible at New Substations; Catenary Visual Impact
- Fleet To Be Determined in Phase II
- Travel Demand To Be Determined in Phase II
- Time Savings Travel Time Savings of Approximately 4 Minutes If Electrified Between Wilton and South Norwalk
- Financial Capital Costs to Be Determined in Phase II; Electrification Estimated at \$3 Million Per Mile



HVCEO Topics of Interest

- •Evaluation of Transit Oriented Development Opportunities in Danbury Branch Corridor
- •Identifying station and parking needs possible expansion plans
- •Transportation Alternatives Development and Evaluation
- •Potential Social Impacts at rail station terminus in New Milford



Evaluate Transit Oriented Development (TOD) Opportunities in Danbury Branch Corridor

- •\$20 million in State Tax Obligation (STO) bonds for both FY08 and FY09 for state TOD grant program
- •Consistent with State Plan of Conservation and Development
- •Consistent with Local Municipalities Plan of Conservation and Development
- •Conduct TOD evaluation in two stages



Stage I – Identify TOD Opportunities and Constraints

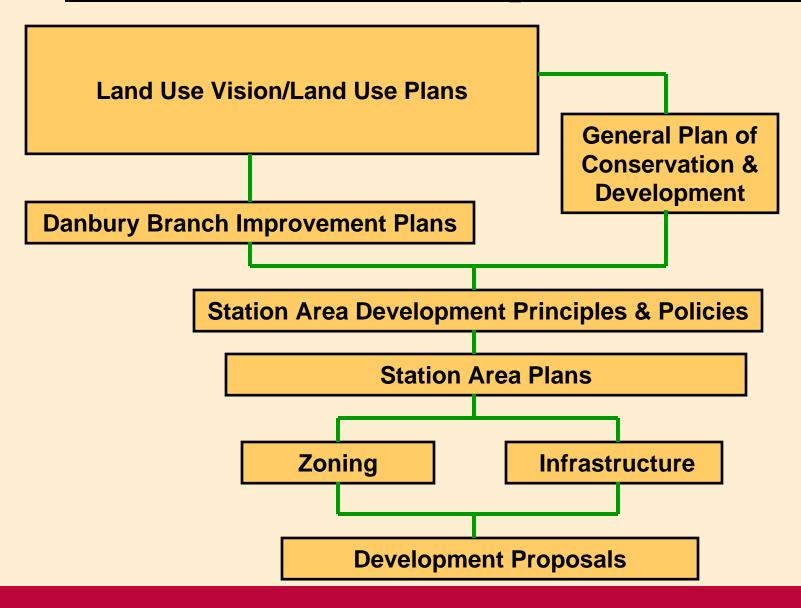
Opportunities

- Proximity to existing rail line and roadway network
- Compatibility with existing and future land use
- Potential ridership
- •Demographics, market potential, multimodal access

Constraints

- •Noise, Wetlands, Watercourses, Hazardous Material Sites, Cost
- •Institutional Barriers and Potential Social Impacts

Transit Oriented Development Framework





Stage I – TOD Report will:

- Identify range of TOD opportunities at stations within the corridor
- Document community policies and plans related to TOD
- Document status of station area planning efforts by local communities
- Document existing zoning and infrastructure
- Sketch plan of proposed growth options



Stage II – Develop TOD Action Items List

- Action Item List will include description of proposed action, timeframe, responsible parties
- Identify Resources Supporting TOD
- Work jointly with local jurisdictions
- Work May Include: Station area planning, preliminary and advanced site planning, zoning and land use changes necessary, financial or regulatory incentive tools, identification of private sector partners

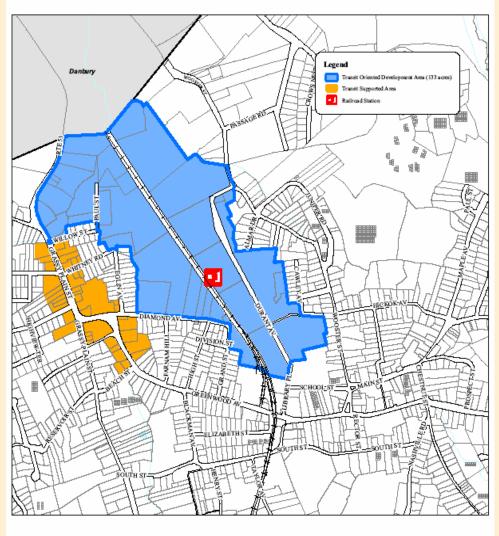


TOD Areas of Interest to HVCEO

- Bethel Station Supported by 2007 Bethel Plan of Conservation and Development
- •New Georgetown Station ongoing TOD construction 2005 National Award for Smart Growth Achievement
- •Branchville (Ridgefield) Station 2002 Branchville Village Plan multimodal transportation center with TOD at or near station
- •Existing Danbury Station High potential TOD due to Kennedy Place potential development and Western Conn. State University – walking distance to station
- •Brookfield Station potential Village Center mixed-use development
- **Downtown New Milford Station regional center designation by HVCEO**



Proposed Transit Oriented Development







Georgetown







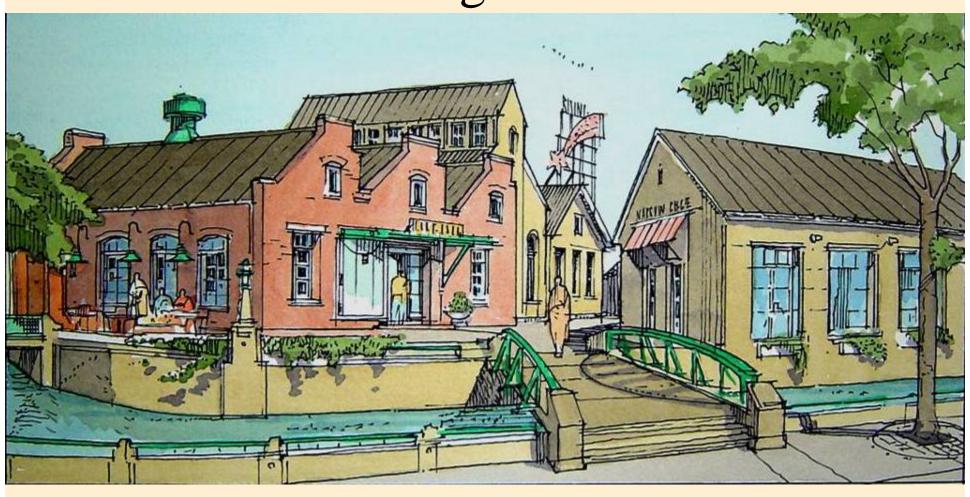


GEORGETOWN SPECIAL TAXING DISTRICT INTERMODAL TRANSPORTATION HUB AND YMCA GEORGETOWN CONNECTICUT

LiRo Architects + Engineers P.C.

111 Broodway, Suite 301
New Tork, New York 1988
212.563.020 (P) 112.563.1441 (F)

Georgetown



Commuter Rail and TOD

- Service frequency different than typical Light Rail or Streetcar systems but competitive with auto travel times
- Connecting Transit and Walkability Still Important
- Balance Parking Needs with Development Opportunities
- Platforms and Infrastructure Differ
- Financing TOD for Commuter Rail more challenging



Parking Expansion Plans

- Bethel Station West Side platform addition and parking expansion
- Branchville Neighborhood Area proposed two deck garage to supplement commuter parking at station
- Georgetown station platform and parking



Potential Social Impacts of New Commuter Rail Service

- Mayor Murphy's Concern at New Milford (terminus)
- Case Studies and Supporting Research
- Involve communities, ConnDOT and Metro-North
- Safety and Security in Planning Process



Transportation Alternatives Development and Evaluation

- Refine and Confirm Purpose and Need Statement
- Evaluate Resource Impacts
- Validate with train performance model and simulations
- Update Travel Demand Forecasts
- Perform Existing and Potential Passenger Surveys (On-Board and Mail-Out)
- Perform Cost/Benefit Analysis and Economic Development Impacts

Prepare Draft and Final Environmental Impact Statements (DEIS)

- Definition of Alternatives
- Perform Alternatives Screening and Evaluation Process
- Select Preferred Alternative(s)



Next Steps - Phase II

- Meetings with Advisory Committee, Local Officials
- Public Scoping Meeting mid 2008
- Complete Alternatives Analysis Process
- Prepare Draft and Final Environmental Impact Statement (EIS)
- Develop Implementation Plan and Identify Funding Needs
- Approximately 3 years

