



APPENDIX TO SECTION 3

City-wide Comprehensive Traffic Management Plan

- Sample PNF/PIF Forms for Various Demonstration Locations (Completed)
- Order of Magnitude Opinion of Cost for Various Demonstration Intersections
- Master List of Projects Currently “In Process” with the City of Norwalk.

West Rocks Road / France Street / Park Street between Route 7 and East Wall Street

GENERAL PROJECT INFORMATION	
Date:	3/14/2012
Type of Project:	Multimodal corridor improvements
Project Advocate:	City of Norwalk
Project Limits:	West Rocks Road / France Street / Park Street between Route 7 and East Wall Street
Functional Classification:	Minor Arterial
Jurisdiction:	City of Norwalk
Needs/Issues/Project Description:	This corridor is primarily residential and civic (schools and churches) in nature, and serves as a major commuter route to and through Norwalk. It is directly accessible from both I-95 and the Merritt parkway. Pedestrian, bicycle, and transit demand is apparent but is underserved. Vehicular speeds are too high relative to the surrounding land use context.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to identify the need for potential projects.

GOAL 1: SAFETY	
Criterion 1.1: Crash Ratio*	
Ratio	# Points
<0.50	0
0.50 - 0.75	2
0.75 - 1.00	5
>1.00	7
Criterion 1.2: Fatal Crashes*	
# of Fatal Crashes	# Points
0	0
1 or more	7
Criterion 1.3: SLOSS List*	
On SLOSS List?	# Points
No	0
Yes	7
Criterion 1.4: Ped/Bike Crashes*	
# of Ped/Bike Crashes	# Points
0	0
1 or more	7
Criterion 1.5: Vehicular Speeds	
85th % Speeds	# Points
< Posted Speed	0
≤ Posted + 5 mph	2
≤ Posted + 10 mph	5
> Posted + 10 mph	7
Goal 1 Score	
14	

* Pursuant to Title 23 United States Code Section 409, this data is not admissible and not discoverable in any federal or state court proceeding, and cannot be considered for any other purpose in any action for damages arising from an occurrence at a location

GOAL 2: PED/BIKE	
Criterion 2.1 Ped Facilities**	
Condition	# Points
Good	0
Fair	1
Poor	2
None	3
Criterion 2.2 Ped Volumes**	
Volumes	# Points
None	0
Low/Light	1
Moderate	2
High/Heavy	3
Criterion 2.3 Bike Facilities**	
Facility	# Points
Bike Lane	0
Sharrow	1
Shoulder	2
None	3
Criterion 2.4 Bike Volumes**	
Volumes	# Points
None	0
Few	1
Some	2
Many	3
Criterion 2.5: Ped/Bike Corridor**	
Corridor	# Points
No	0
Yes	3
Criterion 2.6 Transit Access	
Access	# Points
No	0
Yes	3
Criterion 2.7 Activity Center Access	
Access	# Points
No	0
Yes	3
Goal 2 Score	
13	

** Source: Norwalk Pedestrian and Bikeway Transportation Plan

GOAL 3: VEHICLES	
Criterion 3.1: Traffic Volume	
Volume per Lane	# Points
See Instruction Sheet	0
	2
	3
	5
Criterion 3.2: Heavy Truck Volume	
HV% or Volume	# Points
<2% or <20 hvpd	0
2% - 5%	2
5% - 10%	3
10% or >500 hvpd	5
Criterion 3.3: Operations	
Level of Service	# Points
LOS A/B/C	0
LOS D	2
LOS E	3
LOS F	5
Criterion 3.4: Pavement Condition	
Condition	# Points
Rating 1	0
Rating 2	2
Rating 3	3
Rating 4	5
Criterion 3.5 Commercial Area Access***	
Access	# Points
No	0
Yes	5
Criterion 3.6 Transit Corridor	
Corridor	# Points
No	0
Yes	5
Goal 3 Score	
14	

*** Sources: Urban Renewal/Redevelopment Plan Map & Priority Development Site

GOAL 4: SUPPORT	
Criterion 4.1 Public Support	
Support Level	# Points
None	0
Low	2
Moderate	5
High	7
Criterion 4.2: Funding Sources	
Funding	# Points
None	0
Partial	4
Full	7
Goal 4 Score	
7	

PROJECT NEED WORKSHEET TOTAL SCORE
48

West Rocks Road / France Street / Park Street between Route 7 and East Wall Street

GENERAL PROJECT INFORMATION	
Date:	3/14/2012
Type of Project:	Multimodal corridor improvements
Project Limits:	West Rocks Road / France Street / Park Street between Route 7 and East Wall Street
Functional Classification:	Minor Arterial
Jurisdiction:	City of Norwalk
Project Description:	Improvements seek to fill in sidewalk gaps, improve pedestrian crossing opportunities, enhance transit stops, and provide continuous bike lanes along the entire corridor.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to initiate and prioritize potential projects.

PROJECT ADDRESSES IDENTIFIED NEEDS/ISSUES FROM PROJECT NEED WORKSHEET								
Goal 1: Safety		Goal 2: Ped/Bike		Goal 3: Vehicles		Goal 4: Support		
<i>Improves Safety</i>		<i>Improves Ped Mobility/Connectivity</i>		<i>Improves Vehicular Operations</i>		<i>Support by Public</i>		
No	0	No	0	No	0	No	0	
Yes	6	Partially	3	Partially	3	Partially	3	
<i>Reduces Vehicular Speeds</i>		Fully		Fully	6	Fully	6	
No	0	<i>Improves Bike Mobility/Connectivity</i>		<i>Improves Pavement Condition Rating</i>		<i>Funding Sources Identified</i>		
Yes	6	No	0	No	0	None	0	
		Partially	3	Yes	6	Partial	3	
		Fully	6			Full	6	
							PROJECT ADDRESSES NEEDS/ISSUES SCORE:	30

PROJECT READINESS								
<i>Project Need Worksheet Completed</i>		<i>Project Plans Complete to Date</i>		<i>Outreach to Date</i>				
No	0	None	0	No Outreach	0			
Yes	6	Conceptual Plans	2	1 Group	2			
		25% Design Plans	4	2 Groups	4			
		75% Design Plans	6	3 Groups	6			
		100% Design Plans	8					
							PROJECT READINESS SCORE:	14

PROJECT DETAILS								
<i>Conceptual Project Cost Estimate</i>		<i>ROW Impacts</i>		<i>Impacts to Environmental Resources</i>		<i>Air Quality Benefits</i>		
> \$1,000k	0	Structure Impact	0	Major Impact	0	No	0	
\$750 - \$1,000k	1	Major Land Impact	2	Minor Impact	3	Yes	5	
\$500 - \$750k	3	Minor Land Impact	3	No Impact	5	<i>Environmental Justice</i>		
\$250 - \$500k	4	No Impact	5	<i>Impacts to Cultural/Historical Resources</i>		Negative Impact	0	
\$100 - \$250k	6			Yes	0	No Impact	3	
< \$100k	7			No	5	Positive Impact	5	
							PROJECT DETAILS SCORE:	23

**PROJECT INITIATION AND
 PRIORITIZATION TOTAL SCORE**

67

Washington St / Fairfield Ave, I-95 to Water Street

GENERAL PROJECT INFORMATION	
Date:	3/14/2012
Type of Project:	Bicycle facility addition, streetscaping, beautification
Project Advocate:	City of Norwalk
Project Limits:	Washington St / Fairfield Ave, I-95 to Water Street
Functional Classification:	Minor Arterial
Jurisdiction:	City of Norwalk
Needs/Issues/Project Description:	This corridor directly connects downtown Norwalk with commuter rail, I-95, and E. Norwalk. It has both residential components (Fairfield Ave) and mixed commercial activities. The street needs better balance between pedestrian, bicycle, and automobile modes, as well as gateway features to better define its sense of place.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to identify the need for potential projects.

GOAL 1: SAFETY	
Criterion 1.1: Crash Ratio*	
Ratio	# Points
<0.50	0
0.50 - 0.75	2
0.75 - 1.00	5
>1.00	7
Criterion 1.2: Fatal Crashes*	
# of Fatal Crashes	# Points
0	0
1 or more	7
Criterion 1.3: SLOSS List*	
On SLOSS List?	# Points
No	0
Yes	7
Criterion 1.4: Ped/Bike Crashes*	
# of Ped/Bike Crashes	# Points
0	0
1 or more	7
Criterion 1.5: Vehicular Speeds	
85th % Speeds	# Points
< Posted Speed	0
≤ Posted + 5 mph	2
≤ Posted + 10 mph	5
> Posted + 10 mph	7
Goal 1 Score	
2	

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GOAL 2: PED/BIKE	
Criterion 2.1 Ped Facilities**	
Condition	# Points
Good	0
Fair	1
Poor	2
None	3
Criterion 2.2 Ped Volumes**	
Volumes	# Points
None	0
Low/Light	1
Moderate	2
High/Heavy	3
Criterion 2.3 Bike Facilities**	
Facility	# Points
Bike Lane	0
Sharrow	1
Shoulder	2
None	3
Criterion 2.4 Bike Volumes**	
Volumes	# Points
None	0
Few	1
Some	2
Many	3
Criterion 2.5: Ped/Bike Corridor**	
Corridor	# Points
No	0
Yes	3
Criterion 2.6 Transit Access	
Access	# Points
No	0
Yes	3
Criterion 2.7 Activity Center Access	
Access	# Points
No	0
Yes	3
Goal 2 Score	
18	

** Source: Norwalk Pedestrian and Bikeway Transportation Plan

GOAL 3: VEHICLES	
Criterion 3.1: Traffic Volume	
Volume per Lane	# Points
See Instruction Sheet	0
	2
	3
	5
Criterion 3.2: Heavy Truck Volume	
HV% or Volume	# Points
<2% or <20 hvpd	0
2% - 5%	2
5% - 10%	3
10% or >500 hvpd	5
Criterion 3.3: Operations	
Level of Service	# Points
LOS A/B/C	0
LOS D	2
LOS E	3
LOS F	5
Criterion 3.4: Pavement Condition	
Condition	# Points
Rating 1	0
Rating 2	2
Rating 3	3
Rating 4	5
Criterion 3.5 Commercial Area Access***	
Access	# Points
No	0
Yes	5
Criterion 3.6 Transit Corridor	
Corridor	# Points
No	0
Yes	5
Goal 3 Score	
19	

*** Sources: Urban Renewal/Redevelopment Plan Map & Priority Development Site

GOAL 4: SUPPORT	
Criterion 4.1 Public Support	
Support Level	# Points
None	0
Low	2
Moderate	5
High	7
Criterion 4.2: Funding Sources	
Funding	# Points
None	0
Partial	4
Full	7
Goal 4 Score	
5	

PROJECT NEED WORKSHEET TOTAL SCORE
44

Washington St / Fairfield Ave, I-95 to Water Street

GENERAL PROJECT INFORMATION	
Date:	3/14/2012
Type of Project:	Bicycle facility addition, streetscaping, beautification
Project Limits:	Washington St / Fairfield Ave, I-95 to Water Street
Functional Classification:	Minor Arterial
Jurisdiction:	City of Norwalk
Project Description:	Improvements include a two-way cycle track on Fairfield Ave, plaza redesign, installation of public areas, and pedestrian-oriented streetscaping.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to initiate and prioritize potential projects.

PROJECT ADDRESSES IDENTIFIED NEEDS/ISSUES FROM PROJECT NEED WORKSHEET							
Goal 1: Safety		Goal 2: Ped/Bike		Goal 3: Vehicles		Goal 4: Support	
<i>Improves Safety</i>		<i>Improves Ped Mobility/Connectivity</i>		<i>Improves Vehicular Operations</i>		<i>Support by Public</i>	
No	0	No	0	No	0	No	0
Yes	6	Partially	3	Partially	3	Partially	3
<i>Reduces Vehicular Speeds</i>		Fully		Fully		Fully	
No	0	6		6		6	
Yes	6	<i>Improves Bike Mobility/Connectivity</i>		<i>Improves Pavement Condition Rating</i>		<i>Funding Sources Identified</i>	
		No		No		None	
		Partially		Yes		Partial	
		Fully		6		Full	
		6				0	
		3				3	
		6				6	
						PROJECT ADDRESSES NEEDS/ISSUES SCORE:	
						27	

PROJECT READINESS							
<i>Project Need Worksheet Completed</i>		<i>Project Plans Complete to Date</i>		<i>Outreach to Date</i>			
No	0	None	0	No Outreach	0		
Yes	6	Conceptual Plans	2	1 Group	2		
		25% Design Plans	4	2 Groups	4		
		75% Design Plans	6	3 Groups	6		
		100% Design Plans	8				
						PROJECT READINESS SCORE:	
						14	

PROJECT DETAILS							
<i>Conceptual Project Cost Estimate</i>		<i>ROW Impacts</i>		<i>Impacts to Environmental Resources</i>		<i>Air Quality Benefits</i>	
> \$1,000k	0	Structure Impact	0	Major Impact	0	No	0
\$750 - \$1,000k	1	Major Land Impact	2	Minor Impact	3	Yes	5
\$500 - \$750k	3	Minor Land Impact	3	No Impact	5	<i>Environmental Justice</i>	
\$250 - \$500k	4	No Impact	5	<i>Impacts to Cultural/Historical Resources</i>		Negative Impact	0
\$100 - \$250k	6			Yes	0	No Impact	3
< \$100k	7			No	5	Positive Impact	5
						PROJECT DETAILS SCORE:	
						0	

**PROJECT INITIATION AND
 PRIORITIZATION TOTAL SCORE**

41

West Avenue at Belden Avenue / Mott Avenue

GENERAL PROJECT INFORMATION	
Date:	3/19/2012
Type of Project:	Complete Streets-Oriented Intersection and Vicinity Enhancement
Project Advocate:	City of Norwalk
Project Limits:	Intersection of West Avenue at Belden Ave / Mott Ave
Functional Classification:	West Ave/Belden Ave/Wall St - Major Arterial; Mott Ave - Collector
Jurisdiction:	City of Norwalk
Needs/Issues/Project Description:	Intersection located in the middle of a civic node and redevelopment potential is strong. Geometric design favors automobiles and detracts from the pedestrian environment. Streets have excess vehicular capacity and should be right-sized to better support all modes: increased walkability, parking access, safety.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to identify the need for potential projects.

GOAL 1: SAFETY	
Criterion 1.1: Crash Ratio*	
Ratio	# Points
<0.50	0
0.50 - 0.75	2
0.75 - 1.00	5
>1.00	7
Criterion 1.2: Fatal Crashes*	
# of Fatal Crashes	# Points
0	0
1 or more	7
Criterion 1.3: SLOSS List*	
On SLOSS List?	# Points
No	0
Yes	7
Criterion 1.4: Ped/Bike Crashes*	
# of Ped/Bike Crashes	# Points
0	0
1 or more	7
Criterion 1.5: Vehicular Speeds	
85th % Speeds	# Points
< Posted Speed	0
≤ Posted + 5 mph	2
≤ Posted + 10 mph	5
> Posted + 10 mph	7
Goal 1 Score	
14	

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GOAL 2: PED/BIKE	
Criterion 2.1 Ped Facilities**	
Condition	# Points
Good	0
Fair	1
Poor	2
None	3
Criterion 2.2 Ped Volumes**	
Volumes	# Points
None	0
Low/Light	1
Moderate	2
High/Heavy	3
Criterion 2.3 Bike Facilities**	
Facility	# Points
Bike Lane	0
Sharrow	1
Shoulder	2
None	3
Criterion 2.4 Bike Volumes**	
Volumes	# Points
None	0
Few	1
Some	2
Many	3
Criterion 2.5: Ped/Bike Corridor**	
Corridor	# Points
No	0
Yes	3
Criterion 2.6 Transit Access	
Access	# Points
No	0
Yes	3
Criterion 2.7 Activity Center Access	
Access	# Points
No	0
Yes	3
Goal 2 Score	
16	

** Source: Norwalk Pedestrian and Bikeway Transportation Plan

GOAL 3: VEHICLES	
Criterion 3.1: Traffic Volume	
Volume per Lane	# Points
See Instruction Sheet	0
	2
	3
	5
Criterion 3.2: Heavy Truck Volume	
HV% or Volume	# Points
<2% or <20 hvpd	0
2% - 5%	2
5% - 10%	3
10% or >500 hvpd	5
Criterion 3.3: Operations	
Level of Service	# Points
LOS A/B/C	0
LOS D	2
LOS E	3
LOS F	5
Criterion 3.4: Pavement Condition	
Condition	# Points
Rating 1	0
Rating 2	2
Rating 3	3
Rating 4	5
Criterion 3.5 Commercial Area Access***	
Access	# Points
No	0
Yes	5
Criterion 3.6 Transit Corridor	
Corridor	# Points
No	0
Yes	5
Goal 3 Score	
20	

*** Sources: Urban Renewal/Redevelopment Plan Map & Priority Development Site

GOAL 4: SUPPORT	
Criterion 4.1 Public Support	
Support Level	# Points
None	0
Low	2
Moderate	5
High	7
Criterion 4.2: Funding Sources	
Funding	# Points
None	0
Partial	4
Full	7
Goal 4 Score	
5	

PROJECT NEED WORKSHEET TOTAL SCORE
55

West Avenue at Belden Avenue / Mott Avenue

GENERAL PROJECT INFORMATION	
Date:	3/19/2012
Type of Project:	Complete Streets-Oriented Intersection and Vicinity Enhancement
Project Limits:	Intersection of West Avenue at Belden Ave / Mott Ave
Functional Classification:	West Ave/Belden Ave/Wall St - Major Arterial; Mott Ave - Collector
Jurisdiction:	City of Norwalk
Project Description:	Remove high speed slip lanes, reconfigure turn lanes at intersection, perform 4-->3 road diet with spot medians and streetscaping. Bolster wayfinding abilities via design, materials, and signage. (Note: Long-term street network modifications have not been included in this assessment.)

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to initiate and prioritize potential projects.

PROJECT ADDRESSES IDENTIFIED NEEDS/ISSUES FROM PROJECT NEED WORKSHEET								
Goal 1: Safety		Goal 2: Ped/Bike		Goal 3: Vehicles		Goal 4: Support		
<i>Improves Safety</i>		<i>Improves Ped Mobility/Connectivity</i>		<i>Improves Vehicular Operations</i>		<i>Support by Public</i>		
No	0	No	0	No	0	No	0	
Yes	6	Partially	3	Partially	3	Partially	3	
<i>Reduces Vehicular Speeds</i>		Fully		Fully	6	Fully	6	
No	0	<i>Improves Bike Mobility/Connectivity</i>		<i>Improves Pavement Condition Rating</i>		<i>Funding Sources Identified</i>		
Yes	6	No	0	No	0	None	0	
		Partially	3	Yes	6	Partial	3	
		Fully	6			Full	6	
							PROJECT ADDRESSES NEEDS/ISSUES SCORE:	27

PROJECT READINESS								
<i>Project Need Worksheet Completed</i>		<i>Project Plans Complete to Date</i>		<i>Outreach to Date</i>				
No	0	None	0	No Outreach	0			
Yes	6	Conceptual Plans	2	1 Group	2			
		25% Design Plans	4	2 Groups	4			
		75% Design Plans	6	3 Groups	6			
		100% Design Plans	8					
							PROJECT READINESS SCORE:	14

PROJECT DETAILS								
<i>Conceptual Project Cost Estimate</i>		<i>ROW Impacts</i>		<i>Impacts to Environmental Resources</i>		<i>Air Quality Benefits</i>		
> \$1,000k	0	Structure Impact	0	Major Impact	0	No	0	
\$750 - \$1,000k	1	Major Land Impact	2	Minor Impact	3	Yes	5	
\$500 - \$750k	3	Minor Land Impact	3	No Impact	5	<i>Environmental Justice</i>		
\$250 - \$500k	4	No Impact	5	<i>Impacts to Cultural/Historical Resources</i>		Negative Impact	0	
\$100 - \$250k	6			Yes	0	No Impact	3	
< \$100k	7			No	5	Positive Impact	5	
							PROJECT DETAILS SCORE:	21

**PROJECT INITIATION AND
 PRIORITIZATION TOTAL SCORE**

62

Flax Hill Road at Taylor Avenue & Flax Hill Road at Lowe Street

GENERAL PROJECT INFORMATION	
Date:	3/19/2012
Type of Project:	Multimodal operational improvements at pair of T-Intersections
Project Advocate:	City of Norwalk
Project Limits:	Intersections of Flax Hill Road at Taylor Ave & Flax Hill Road at Lowe Street
Functional Classification:	Flax Hill Rd - Minor Arterial; Taylor Ave/Lowe St - Collector
Jurisdiction:	City of Norwalk
Needs/Issues/Project Description:	These intersections are located on a residential local street that parallels I-95 and US-1 to the south, and is also proximate to a commuter rail station and large park. Heavy through-vehicle traffic degrades the residential environment.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to identify the need for potential projects.

GOAL 1: SAFETY	
Criterion 1.1: Crash Ratio*	
Ratio	# Points
<0.50	0
0.50 - 0.75	2
0.75 - 1.00	5
>1.00	7
Criterion 1.2: Fatal Crashes*	
# of Fatal Crashes	# Points
0	0
1 or more	7
Criterion 1.3: SLOSS List*	
On SLOSS List?	# Points
No	0
Yes	7
Criterion 1.4: Ped/Bike Crashes*	
# of Ped/Bike Crashes	# Points
0	0
1 or more	7
Criterion 1.5: Vehicular Speeds	
85th % Speeds	# Points
< Posted Speed	0
≤ Posted + 5 mph	2
≤ Posted + 10 mph	5
> Posted + 10 mph	7
Goal 1 Score	
5	

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GOAL 2: PED/BIKE	
Criterion 2.1 Ped Facilities**	
Condition	# Points
Good	0
Fair	1
Poor	2
None	3
Criterion 2.2 Ped Volumes**	
Volumes	# Points
None	0
Low/Light	1
Moderate	2
High/Heavy	3
Criterion 2.3 Bike Facilities**	
Facility	# Points
Bike Lane	0
Sharrow	1
Shoulder	2
None	3
Criterion 2.4 Bike Volumes**	
Volumes	# Points
None	0
Few	1
Some	2
Many	3
Criterion 2.5: Ped/Bike Corridor**	
Corridor	# Points
No	0
Yes	3
Criterion 2.6 Transit Access	
Access	# Points
No	0
Yes	3
Criterion 2.7 Activity Center Access	
Access	# Points
No	0
Yes	3
Goal 2 Score	
15	

** Source: Norwalk Pedestrian and Bikeway Transportation Plan

GOAL 3: VEHICLES	
Criterion 3.1: Traffic Volume	
Volume per Lane	# Points
See Instruction Sheet	0
	2
	3
	5
Criterion 3.2: Heavy Truck Volume	
HV% or Volume	# Points
<2% or <20 hvpd	0
2% - 5%	2
5% - 10%	3
10% or >500 hvpd	5
Criterion 3.3: Operations	
Level of Service	# Points
LOS A/B/C	0
LOS D	2
LOS E	3
LOS F	5
Criterion 3.4: Pavement Condition	
Condition	# Points
Rating 1	0
Rating 2	2
Rating 3	3
Rating 4	5
Criterion 3.5 Commercial Area Access***	
Access	# Points
No	0
Yes	5
Criterion 3.6 Transit Corridor	
Corridor	# Points
No	0
Yes	5
Goal 3 Score	
15	

*** Sources: Urban Renewal/Redevelopment Plan Map & Priority Development Site

GOAL 4: SUPPORT	
Criterion 4.1 Public Support	
Support Level	# Points
None	0
Low	2
Moderate	5
High	7
Criterion 4.2: Funding Sources	
Funding	# Points
None	0
Partial	4
Full	7
Goal 4 Score	
5	

PROJECT NEED WORKSHEET TOTAL SCORE	
40	

Flax Hill Road at Taylor Avenue & Flax Hill Road at Lowe Street

GENERAL PROJECT INFORMATION	
Date:	3/19/2012
Type of Project:	Multimodal operational improvements at pair of T-Intersections
Project Limits:	Intersections of Flax Hill Road at Taylor Ave & Flax Hill Road at Lowe Street
Functional Classification:	Flax Hill Rd - Minor Arterial; Taylor Ave/Lowe St - Collector
Jurisdiction:	City of Norwalk
Project Description:	Excess pavement would be reclaimed to slow through vehicles, install bicycle facilities, and enhance pedestrian crossing opportunities. The Lowe Street intersection is proposed to be re-oriented (to 90 degrees) and a traffic signal or roundabout would be installed at Taylor Ave. Crosswalks and bicycle facilities (lanes, shoulders, or sharrow markings) would be installed to improve access to local destinations.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to initiate and prioritize potential projects.

PROJECT ADDRESSES IDENTIFIED NEEDS/ISSUES FROM PROJECT NEED WORKSHEET								
Goal 1: Safety		Goal 2: Ped/Bike		Goal 3: Vehicles		Goal 4: Support		
<i>Improves Safety</i>		<i>Improves Ped Mobility/Connectivity</i>		<i>Improves Vehicular Operations</i>		<i>Support by Public</i>		
No	0	No	0	No	0	No	0	
Yes	6	Partially	3	Partially	3	Partially	3	
<i>Reduces Vehicular Speeds</i>		Fully		6	Fully		6	
No	0	<i>Improves Bike Mobility/Connectivity</i>		<i>Improves Pavement Condition Rating</i>		<i>Funding Sources Identified</i>		
Yes	6	No	0	No	0	None	0	
		Partially	3	Yes	6	Partial	3	
		Fully	6			Full	6	
							PROJECT ADDRESSES NEEDS/ISSUES SCORE:	33

PROJECT READINESS								
<i>Project Need Worksheet Completed</i>		<i>Project Plans Complete to Date</i>		<i>Outreach to Date</i>				
No	0	None	0	No Outreach	0			
Yes	6	Conceptual Plans	2	1 Group	2			
		25% Design Plans	4	2 Groups	4			
		75% Design Plans	6	3 Groups	6			
		100% Design Plans	8					
							PROJECT READINESS SCORE:	14

PROJECT DETAILS								
<i>Conceptual Project Cost Estimate</i>		<i>ROW Impacts</i>		<i>Impacts to Environmental Resources</i>		<i>Air Quality Benefits</i>		
> \$1,000k	0	Structure Impact	0	Major Impact	0	No	0	
\$750 - \$1,000k	1	Major Land Impact	2	Minor Impact	3	Yes	5	
\$500 - \$750k	3	Minor Land Impact	3	No Impact	5	<i>Environmental Justice</i>		
\$250 - \$500k	4	No Impact	5	<i>Impacts to Cultural/Historical Resources</i>		Negative Impact	0	
\$100 - \$250k	6			Yes	0	No Impact	3	
< \$100k	7			No	5	Positive Impact	5	
							PROJECT DETAILS SCORE:	23

**PROJECT INITIATION AND
 PRIORITIZATION TOTAL SCORE**

70

Flax Hill Road at Rowayton Avenue & Flax Hill Road at Richards Avenue

GENERAL PROJECT INFORMATION	
Date:	3/19/2012
Type of Project:	Multimodal Intersection Improvement
Project Advocate:	City of Norwalk
Project Limits:	Intersections of Flax Hill Road at Rowayton Avenue & Flax Hill Road at Richards Avenue
Functional Classification:	Flax Hill Rd/Rowayton Ave/Richards Ave - Minor Arterial
Jurisdiction:	City of Norwalk
Needs/Issues/Project Description:	This pair of intersections is located on a residential local street that parallels I-95 and US-1 to the south. Richards Avenue provides access to the retail corridor along Route 1 located approximately 1/2 mile to the north. A significant amount of vehicular through traffic competes with local bicycle and pedestrian traffic. Current intersection geometry (skew triangles) encourages speeding and angles leads to driver confusion.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to identify the need for potential projects.

GOAL 1: SAFETY	
Criterion 1.1: Crash Ratio*	
Ratio	# Points
<0.50	0
0.50 - 0.75	2
0.75 - 1.00	5
>1.00	7
Criterion 1.2: Fatal Crashes*	
# of Fatal Crashes	# Points
0	0
1 or more	7
Criterion 1.3: SLOSS List*	
On SLOSS List?	# Points
No	0
Yes	7
Criterion 1.4: Ped/Bike Crashes*	
# of Ped/Bike Crashes	# Points
0	0
1 or more	7
Criterion 1.5: Vehicular Speeds	
85th % Speeds	# Points
< Posted Speed	0
≤ Posted + 5 mph	2
≤ Posted + 10 mph	5
> Posted + 10 mph	7
Goal 1 Score	
5	

** Pursuant to Title 23 United States Code Section 409, this data is not admissible and not discoverable in any federal or state court proceeding, and cannot be considered for any other purpose in any action for damages arising from an occurrence at a location

GOAL 2: PED/BIKE	
Criterion 2.1 Ped Facilities**	
Condition	# Points
Good	0
Fair	1
Poor	2
None	3
Criterion 2.2 Ped Volumes**	
Volumes	# Points
None	0
Low/Light	1
Moderate	2
High/Heavy	3
Criterion 2.3 Bike Facilities**	
Facility	# Points
Bike Lane	0
Sharrow	1
Shoulder	2
None	3
Criterion 2.4 Bike Volumes**	
Volumes	# Points
None	0
Few	1
Some	2
Many	3
Criterion 2.5: Ped/Bike Corridor**	
Corridor	# Points
No	0
Yes	3
Criterion 2.6 Transit Access	
Access	# Points
No	0
Yes	3
Criterion 2.7 Activity Center Access	
Access	# Points
No	0
Yes	3
Goal 2 Score	
10	

** Source: Norwalk Pedestrian and Bikeway Transportation Plan

GOAL 3: VEHICLES	
Criterion 3.1: Traffic Volume	
Volume per Lane	# Points
See Instruction Sheet	0
	2
	3
	5
Criterion 3.2: Heavy Truck Volume	
HV% or Volume	# Points
<2% or <20 hvpd	0
2% - 5%	2
5% - 10%	3
10% or >500 hvpd	5
Criterion 3.3: Operations	
Level of Service	# Points
LOS A/B/C	0
LOS D	2
LOS E	3
LOS F	5
Criterion 3.4: Pavement Condition	
Condition	# Points
Rating 1	0
Rating 2	2
Rating 3	3
Rating 4	5
Criterion 3.5 Commercial Area Access***	
Access	# Points
No	0
Yes	5
Criterion 3.6 Transit Corridor	
Corridor	# Points
No	0
Yes	5
Goal 3 Score	
19	

*** Sources: Urban Renewal/Redevelopment Plan Map & Priority Development Site

GOAL 4: SUPPORT	
Criterion 4.1 Public Support	
Support Level	# Points
None	0
Low	2
Moderate	5
High	7
Criterion 4.2: Funding Sources	
Funding	# Points
None	0
Partial	4
Full	7
Goal 4 Score	
7	

PROJECT NEED WORKSHEET TOTAL SCORE
41

Flax Hill Road at Rowayton Avenue & Flax Hill Road at Richards Avenue

GENERAL PROJECT INFORMATION	
Date:	3/19/2012
Type of Project:	Multimodal Intersection Improvement
Project Limits:	Intersections of Flax Hill Road at Rowayton Avenue & Flax Hill Road at Richards Avenue
Functional Classification:	Flax Hill Rd/Rowayton Ave/Richards Ave - Minor Arterial
Jurisdiction:	City of Norwalk
Project Description:	To reduce traffic speeds, a combination of intersection realignments or replacement with roundabouts is proposed. Crosswalks and bicycle accommodations would be installed. Possible bicycle facility types include shared lanes (with sharrow markings) or dedicated bike lanes. The latter would require street widening along Flax Hill Road in this area.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to initiate and prioritize potential projects.

PROJECT ADDRESSES IDENTIFIED NEEDS/ISSUES FROM PROJECT NEED WORKSHEET							
Goal 1: Safety		Goal 2: Ped/Bike		Goal 3: Vehicles		Goal 4: Support	
<i>Improves Safety</i>		<i>Improves Ped Mobility/Connectivity</i>		<i>Improves Vehicular Operations</i>		<i>Support by Public</i>	
No	0	No	0	No	0	No	0
Yes	6	Partially	3	Partially	3	Partially	3
<i>Reduces Vehicular Speeds</i>		Fully		Fully		Fully	
No	0	6		6		6	
Yes	6	<i>Improves Bike Mobility/Connectivity</i>		<i>Improves Pavement Condition Rating</i>		<i>Funding Sources Identified</i>	
		No		No		None	
		Partially		Yes		Partial	
		Fully		6		Full	
		6				0	
		3				3	
		6				6	
PROJECT ADDRESSES NEEDS/ISSUES SCORE:							33

PROJECT READINESS					
<i>Project Need Worksheet Completed</i>		<i>Project Plans Complete to Date</i>		<i>Outreach to Date</i>	
No	0	None	0	No Outreach	0
Yes	6	Conceptual Plans	2	1 Group	2
		25% Design Plans	4	2 Groups	4
		75% Design Plans	6	3 Groups	6
		100% Design Plans	8		
PROJECT READINESS SCORE:					14

PROJECT DETAILS							
<i>Conceptual Project Cost Estimate</i>		<i>ROW Impacts</i>		<i>Impacts to Environmental Resources</i>		<i>Air Quality Benefits</i>	
> \$1,000k	0	Structure Impact	0	Major Impact	0	No	0
\$750 - \$1,000k	1	Major Land Impact	2	Minor Impact	3	Yes	5
\$500 - \$750k	3	Minor Land Impact	3	No Impact	5	<i>Environmental Justice</i>	
\$250 - \$500k	4	No Impact	5	<i>Impacts to Cultural/Historical Resources</i>		Negative Impact	0
\$100 - \$250k	6			Yes	0	No Impact	3
< \$100k	7			No	5	Positive Impact	5
PROJECT DETAILS SCORE:							23

**PROJECT INITIATION AND
 PRIORITIZATION TOTAL SCORE**

70

Norwalk Citywide Traffic Management Plan (TMP)
Project Need Form (PNF)



Newtown Avenue (Route 53) at Dry Hill Road and Murray Street

GENERAL PROJECT INFORMATION	
Date:	3/19/2012
Type of Project:	Complete Streets-Oriented Intersection and Vicinity Enhancement
Project Advocate:	City of Norwalk
Project Limits:	Intersection of Newtown Avenue (Route 53) at Dry Hill Road and Murray Street
Functional Classification:	Route 53 - State Route; Dry Hill Road/Murray Street - Collector
Jurisdiction:	Route 53 - CT DOT; Dry Hill Road/Murray Street - City of Norwalk
Needs/Issues/Project Description:	Dry Hill Road and Murray Street intersect Newtown Avenue in an atypical "Y" configuration with excess pavement, adding complexity for drivers and pedestrians. The surrounding area is predominantly single family residential. Objectives for intersection improvement are to enhance multimodal safety while maintaining character and scale with the surrounding area.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to identify the need for potential projects.

GOAL 1: SAFETY	
Criterion 1.1: Crash Ratio*	
Ratio	# Points
<0.50	0
0.50 - 0.75	2
0.75 - 1.00	5
>1.00	7
Criterion 1.2: Fatal Crashes*	
# of Fatal Crashes	# Points
0	0
1 or more	7
Criterion 1.3: SLOSS List*	
On SLOSS List?	# Points
No	0
Yes	7
Criterion 1.4: Ped/Bike Crashes*	
# of Ped/Bike Crashes	# Points
0	0
1 or more	7
Criterion 1.5: Vehicular Speeds	
85th % Speeds	# Points
< Posted Speed	0
≤ Posted + 5 mph	2
≤ Posted + 10 mph	5
> Posted + 10 mph	7
Goal 1 Score	
9	
<small>* Pursuant to Title 23 United States Code Section 409, this data is not admissible and not discoverable in any federal or state court proceeding, and cannot be considered for any other purpose in any action for damages arising from an occurrence at a location</small>	

GOAL 2: PED/BIKE	
Criterion 2.1 Ped Facilities**	
Condition	# Points
Good	0
Fair	1
Poor	2
None	3
Criterion 2.2 Ped Volumes**	
Volumes	# Points
None	0
Low/Light	1
Moderate	2
High/Heavy	3
Criterion 2.3 Bike Facilities**	
Facility	# Points
Bike Lane	0
Sharrow	1
Shoulder	2
None	3
Criterion 2.4 Bike Volumes**	
Volumes	# Points
None	0
Few	1
Some	2
Many	3
Criterion 2.5: Ped/Bike Corridor**	
Corridor	# Points
No	0
Yes	3
Criterion 2.6 Transit Access	
Access	# Points
No	0
Yes	3
Criterion 2.7 Activity Center Access	
Access	# Points
No	0
Yes	3
Goal 2 Score	
10	
<small>** Source: Norwalk Pedestrian and Bikeway Transportation Plan</small>	

GOAL 3: VEHICLES	
Criterion 3.1: Traffic Volume	
Volume per Lane	# Points
See Instruction Sheet	0
	2
	3
	5
Criterion 3.2: Heavy Truck Volume	
HV% or Volume	# Points
<2% or <20 hvpd	0
2% - 5%	2
5% - 10%	3
10% or >500 hvpd	5
Criterion 3.3: Operations	
Level of Service	# Points
LOS A/B/C	0
LOS D	2
LOS E	3
LOS F	5
Criterion 3.4: Pavement Condition	
Condition	# Points
Rating 1	0
Rating 2	2
Rating 3	3
Rating 4	5
Criterion 3.5 Commercial Area Access***	
Access	# Points
No	0
Yes	5
Criterion 3.6 Transit Corridor	
Corridor	# Points
No	0
Yes	5
Goal 3 Score	
12	
<small>*** Sources: Urban Renewal/Redevelopment Plan Map & Priority Development Site</small>	

GOAL 4: SUPPORT	
Criterion 4.1 Public Support	
Support Level	# Points
None	0
Low	2
Moderate	5
High	7
Criterion 4.2: Funding Sources	
Funding	# Points
None	0
Partial	4
Full	7
Goal 4 Score	
2	

PROJECT NEED WORKSHEET TOTAL SCORE
33

Newtown Avenue (Route 53) at Dry Hill Road and Murray Street

GENERAL PROJECT INFORMATION	
Date:	3/19/2012
Type of Project:	Complete Streets-Oriented Intersection and Vicinity Enhancement
Project Limits:	Intersection of Newtown Avenue (Route 53) at Dry Hill Road and Murray Street
Functional Classification:	Route 53 - State Route; Dry Hill Road/Murray Street - Collector
Jurisdiction:	Route 53 - CT DOT; Dry Hill Road/Murray Street - City of Norwalk
Project Description:	There are two options: 1) creating a "square" to separate inbound and outbound traffic (similar function to a roundabout), or 2) teeing Dry Hill Rd into Murray Street east of the Route 53 intersection. An additional turn lane would be required on Route 53 in Option #2.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to initiate and prioritize potential projects.

PROJECT ADDRESSES IDENTIFIED NEEDS/ISSUES FROM PROJECT NEED WORKSHEET								
Goal 1: Safety		Goal 2: Ped/Bike		Goal 3: Vehicles		Goal 4: Support		
<i>Improves Safety</i>		<i>Improves Ped Mobility/Connectivity</i>		<i>Improves Vehicular Operations</i>		<i>Support by Public</i>		
No	0	No	0	No	0	No	0	
Yes	6	Partially	3	Partially	3	Partially	3	
<i>Reduces Vehicular Speeds</i>		Fully		Fully		Fully		
No	0	6		6		6		
Yes	6	<i>Improves Bike Mobility/Connectivity</i>		<i>Improves Pavement Condition Rating</i>		<i>Funding Sources Identified</i>		
		No		No		None		
		Partially		Yes		Partial		
		Fully		6		Full		
		6				0		
		3				3		
		6				6		
PROJECT ADDRESSES NEEDS/ISSUES SCORE:								21

PROJECT READINESS								
<i>Project Need Worksheet Completed</i>		<i>Project Plans Complete to Date</i>		<i>Outreach to Date</i>				
No	0	None	0	No Outreach	0			
Yes	6	Conceptual Plans	2	1 Group	2			
		25% Design Plans	4	2 Groups	4			
		75% Design Plans	6	3 Groups	6			
		100% Design Plans	8					
PROJECT READINESS SCORE:								14

PROJECT DETAILS								
<i>Conceptual Project Cost Estimate</i>		<i>ROW Impacts</i>		<i>Impacts to Environmental Resources</i>		<i>Air Quality Benefits</i>		
> \$1,000k	0	Structure Impact	0	Major Impact	0	No	0	
\$750 - \$1,000k	1	Major Land Impact	2	Minor Impact	3	Yes	5	
\$500 - \$750k	3	Minor Land Impact	3	No Impact	5	<i>Environmental Justice</i>		
\$250 - \$500k	4	No Impact	5	<i>Impacts to Cultural/Historical Resources</i>		Negative Impact	0	
\$100 - \$250k	6			Yes	0	No Impact	3	
< \$100k	7			No	5	Positive Impact	5	
PROJECT DETAILS SCORE:								13

**PROJECT INITIATION AND
 PRIORITIZATION TOTAL SCORE**

48

New Canaan Avenue (Route 123) at Bartlett Avenue/Ells Street

GENERAL PROJECT INFORMATION	
Date:	3/19/2012
Type of Project:	Multimodal Intersection Improvement
Project Advocate:	City of Norwalk
Project Limits:	Intersection of New Canaan Avenue (Route 123) at Bartlett Avenue/Ells Street
Functional Classification:	Route 123 - State Route; Bartlett Ave - Collector; Ells Street - Local
Jurisdiction:	Route 123 - CT DOT; Bartlett Ave/Ells Street - City of Norwalk
Needs/Issues/Project Description:	New Canaan Avenue, Bartlett Avenue, and Ells Street intersect at an awkward five-legged, signalized intersection. The configuration inhibits safe pedestrian and automobile movement. There are no bicycle facilities at this intersection.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to identify the need for potential projects.

GOAL 1: SAFETY	
Criterion 1.1: Crash Ratio*	
Ratio	# Points
<0.50	0
0.50 - 0.75	2
0.75 - 1.00	5
>1.00	7
Criterion 1.2: Fatal Crashes*	
# of Fatal Crashes	# Points
0	0
1 or more	7
Criterion 1.3: SLOSS List*	
On SLOSS List?	# Points
No	0
Yes	7
Criterion 1.4: Ped/Bike Crashes*	
# of Ped/Bike Crashes	# Points
0	0
1 or more	7
Criterion 1.5: Vehicular Speeds	
85th % Speeds	# Points
< Posted Speed	0
≤ Posted + 5 mph	2
≤ Posted + 10 mph	5
> Posted + 10 mph	7
Goal 1 Score	
10	

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GOAL 2: PED/BIKE	
Criterion 2.1 Ped Facilities**	
Condition	# Points
Good	0
Fair	1
Poor	2
None	3
Criterion 2.2 Ped Volumes**	
Volumes	# Points
None	0
Low/Light	1
Moderate	2
High/Heavy	3
Criterion 2.3 Bike Facilities**	
Facility	# Points
Bike Lane	0
Sharrow	1
Shoulder	2
None	3
Criterion 2.4 Bike Volumes**	
Volumes	# Points
None	0
Few	1
Some	2
Many	3
Criterion 2.5: Ped/Bike Corridor**	
Corridor	# Points
No	0
Yes	3
Criterion 2.6 Transit Access	
Access	# Points
No	0
Yes	3
Criterion 2.7 Activity Center Access	
Access	# Points
No	0
Yes	3
Goal 2 Score	
11	

** Source: Norwalk Pedestrian and Bikeway Transportation Plan

GOAL 3: VEHICLES	
Criterion 3.1: Traffic Volume	
Volume per Lane	# Points
See Instruction Sheet	0
	2
	3
	5
Criterion 3.2: Heavy Truck Volume	
HV% or Volume	# Points
<2% or <20 hvpd	0
2% - 5%	2
5% - 10%	3
10% or >500 hvpd	5
Criterion 3.3: Operations	
Level of Service	# Points
LOS A/B/C	0
LOS D	2
LOS E	3
LOS F	5
Criterion 3.4: Pavement Condition	
Condition	# Points
Rating 1	0
Rating 2	2
Rating 3	3
Rating 4	5
Criterion 3.5 Commercial Area Access***	
Access	# Points
No	0
Yes	5
Criterion 3.6 Transit Corridor	
Corridor	# Points
No	0
Yes	5
Goal 3 Score	
25	

*** Sources: Urban Renewal/Redevelopment Plan Map & Priority Development Site

GOAL 4: SUPPORT	
Criterion 4.1 Public Support	
Support Level	# Points
None	0
Low	2
Moderate	5
High	7
Criterion 4.2: Funding Sources	
Funding	# Points
None	0
Partial	4
Full	7
Goal 4 Score	
5	

PROJECT NEED WORKSHEET TOTAL SCORE
51

New Canaan Avenue (Route 123) at Bartlett Avenue/Ells Street

GENERAL PROJECT INFORMATION	
Date:	3/19/2012
Type of Project:	Multimodal Intersection Improvement
Project Limits:	Intersection of New Canaan Avenue (Route 123) at Bartlett Avenue/Ells Street
Functional Classification:	Route 123 - State Route; Bartlett Ave - Collector; Ells Street - Local
Jurisdiction:	Route 123 - CT DOT; Bartlett Ave/Ells Street - City of Norwalk
Project Description:	Improvements realign each leg of Bartlett Avenue and Ells Street to intersect New Canaan Avenue at traditional 90-degree angles. The offset between Ells Street and the southern leg of Bartlett Avenue is increased to provide better vehicular operations. Pedestrian safety is improved through better geometry and additional crosswalks. Bicycle facilities are proposed.

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to initiate and prioritize potential projects.

PROJECT ADDRESSES IDENTIFIED NEEDS/ISSUES FROM PROJECT NEED WORKSHEET							
Goal 1: Safety		Goal 2: Ped/Bike		Goal 3: Vehicles		Goal 4: Support	
<i>Improves Safety</i>		<i>Improves Ped Mobility/Connectivity</i>		<i>Improves Vehicular Operations</i>		<i>Support by Public</i>	
No	0	No	0	No	0	No	0
Yes	6	Partially	3	Partially	3	Partially	3
<i>Reduces Vehicular Speeds</i>		Fully		Fully		Fully	
No	0	6		6		6	
Yes	6	<i>Improves Bike Mobility/Connectivity</i>		<i>Improves Pavement Condition Rating</i>		<i>Funding Sources Identified</i>	
		No		No		None	
		Partially		Yes		Partial	
		Fully		6		Full	
		6				0	
		3				3	
		6				6	
PROJECT ADDRESSES NEEDS/ISSUES SCORE:							33

PROJECT READINESS							
<i>Project Need Worksheet Completed</i>		<i>Project Plans Complete to Date</i>		<i>Outreach to Date</i>			
No	0	None	0	No Outreach	0		
Yes	6	Conceptual Plans	2	1 Group	2		
		25% Design Plans	4	2 Groups	4		
		75% Design Plans	6	3 Groups	6		
		100% Design Plans	8				
PROJECT READINESS SCORE:							14

PROJECT DETAILS							
<i>Conceptual Project Cost Estimate</i>		<i>ROW Impacts</i>		<i>Impacts to Environmental Resources</i>		<i>Air Quality Benefits</i>	
> \$1,000k	0	Structure Impact	0	Major Impact	0	No	0
\$750 - \$1,000k	1	Major Land Impact	2	Minor Impact	3	Yes	5
\$500 - \$750k	3	Minor Land Impact	3	No Impact	5	<i>Environmental Justice</i>	
\$250 - \$500k	4	No Impact	5	<i>Impacts to Cultural/Historical Resources</i>		Negative Impact	0
\$100 - \$250k	6			Yes	0	No Impact	3
< \$100k	7			No	5	Positive Impact	5
PROJECT DETAILS SCORE:							23

**PROJECT INITIATION AND
 PRIORITIZATION TOTAL SCORE**

70

Project Location

GENERAL PROJECT INFORMATION	
Date:	
Type of Project:	
Project Advocate:	
Project Limits:	
Functional Classification:	
Jurisdiction:	
Needs/Issues/Project Description:	

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to identify the need for potential projects.

GOAL 1: SAFETY	
Criterion 1.1: Crash Ratio*	
Ratio	# Points
<0.50	0
0.50 - 0.75	2
0.75 - 1.00	5
>1.00	7
Criterion 1.2: Fatal Crashes*	
# of Fatal Crashes	# Points
0	0
1 or more	7
Criterion 1.3: SLOSS List*	
On SLOSS List?	# Points
No	0
Yes	7
Criterion 1.4: Ped/Bike Crashes*	
# of Ped/Bike Crashes	# Points
0	0
1 or more	7
Criterion 1.5: Vehicular Speeds	
85th % Speeds	# Points
< Posted Speed	0
≤ Posted + 5 mph	2
≤ Posted + 10 mph	5
> Posted + 10 mph	7
Goal 1 Score	
35	
<small>*Pursuant to Title 23 United States Code Section 409, this data is not admissible and not discoverable in any federal or state court proceeding, and cannot be considered for any other purpose in any action for damages arising from an occurrence at a location</small>	

GOAL 2: PED/BIKE	
Criterion 2.1 Ped Facilities**	
Condition	# Points
Good	0
Fair	1
Poor	2
None	3
Criterion 2.2 Ped Volumes**	
Volumes	# Points
None	0
Low/Light	1
Moderate	2
High/Heavy	3
Criterion 2.3 Bike Facilities**	
Facility	# Points
Bike Lane	0
Sharrow	1
Shoulder	2
None	3
Criterion 2.4 Bike Volumes**	
Volumes	# Points
None	0
Few	1
Some	2
Many	3
Criterion 2.5: Ped/Bike Corridor**	
Corridor	# Points
No	0
Yes	3
Criterion 2.6 Transit Access	
Access	# Points
No	0
Yes	3
Criterion 2.7 Activity Center Access	
Access	# Points
No	0
Yes	3
Goal 2 Score	
21	
<small>** Source: Norwalk Pedestrian and Bikeway Transportation Plan</small>	

GOAL 3: VEHICLES	
Criterion 3.1: Traffic Volume	
Volume per Lane	# Points
See Instruction Sheet	0
	2
	3
	5
Criterion 3.2: Heavy Truck Volume	
HV% or Volume	# Points
<2% or <20 hvpd	0
2% - 5%	2
5% - 10%	3
10% or >500 hvpd	5
Criterion 3.3: Operations	
Level of Service	# Points
LOS A/B/C	0
LOS D	2
LOS E	3
LOS F	5
Criterion 3.4: Pavement Condition	
Condition	# Points
Rating 1	0
Rating 2	2
Rating 3	3
Rating 4	5
Criterion 3.5 Commercial Area Access***	
Access	# Points
No	0
Yes	5
Criterion 3.6 Transit Corridor	
Corridor	# Points
No	0
Yes	5
Goal 3 Score	
30	
<small>*** Sources: Urban Renewal/Redevelopment Plan Map & Priority Development Site</small>	

GOAL 4: SUPPORT	
Criterion 4.1 Public Support	
Support Level	# Points
None	0
Low	2
Moderate	5
High	7
Criterion 4.2: Funding Sources	
Funding	# Points
None	0
Partial	4
Full	7
Goal 4 Score	
14	

PROJECT NEED WORKSHEET TOTAL SCORE	
100	

Project Location

GENERAL PROJECT INFORMATION	
Date:	
Type of Project:	
Project Limits:	
Functional Classification:	
Jurisdiction:	
Project Description:	

This worksheet will be completed by the Proponent and reviewed by City of Norwalk staff in accordance with the City's TMP to initiate and prioritize potential projects.

PROJECT ADDRESSES IDENTIFIED NEEDS/ISSUES FROM PROJECT NEED WORKSHEET							
Goal 1: Safety		Goal 2: Ped/Bike		Goal 3: Vehicles		Goal 4: Support	
<i>Improves Safety</i>		<i>Improves Ped Mobility/Connectivity</i>		<i>Improves Vehicular Operations</i>		<i>Support by Public</i>	
No	0	No	0	No	0	No	0
Yes	6	Partially	3	Partially	3	Partially	3
<i>Reduces Vehicular Speeds</i>		Fully		Fully		Fully	
No	0	6		6		6	
Yes	6	<i>Improves Bike Mobility/Connectivity</i>		<i>Improves Pavement Condition Rating</i>		<i>Funding Sources Identified</i>	
		No		No		None	
		Partially		Yes		Partial	
		Fully		6		Full	
		6				0	
		3				3	
		6				6	
						PROJECT ADDRESSES NEEDS/ISSUES SCORE:	
						48	

PROJECT READINESS							
<i>Project Need Worksheet Completed</i>		<i>Project Plans Complete to Date</i>		<i>Outreach to Date</i>			
No	0	None	0	No Outreach	0		
Yes	6	Conceptual Plans	2	1 Group	2		
		25% Design Plans	4	2 Groups	4		
		75% Design Plans	6	3 Groups	6		
		100% Design Plans	8				
						PROJECT READINESS SCORE:	
						20	

PROJECT DETAILS							
<i>Conceptual Project Cost Estimate</i>		<i>ROW Impacts</i>		<i>Impacts to Environmental Resources</i>		<i>Air Quality Benefits</i>	
> \$1,000k	0	Structure Impact	0	Major Impact	0	No	0
\$750 - \$1,000k	1	Major Land Impact	2	Minor Impact	3	Yes	5
\$500 - \$750k	3	Minor Land Impact	3	No Impact	5	<i>Environmental Justice</i>	
\$250 - \$500k	4	No Impact	5	<i>Impacts to Cultural/Historical Resources</i>		Negative Impact	0
\$100 - \$250k	6			Yes	0	No Impact	3
< \$100k	7			No	5	Positive Impact	5
						PROJECT DETAILS SCORE:	
						32	

**PROJECT INITIATION AND
 PRIORITIZATION TOTAL SCORE**

100



MEMORANDUM

TO: Robert Nagi P.E.
FROM: Ted J DeSantos P.E. P.T.O.E.
DATE: December 9, 2011
RE: Norwalk Traffic Management Plan Cost Estimates

This memo is meant to introduce the cost estimates for the 7 demonstration corridors/intersections for the Norwalk TMP project. We would like to make you aware of the following assumptions used during the estimating process:

- Estimates utilized the standard CTDOT cost estimating approach and pricing including inflation markups and estimates for contingencies
- Estimates were performed to the limits of the concept design plan only. Bicycle corridor and/or additional geometric improvements outside the limits of the concept plans have not been included in these estimates.
- Residential concepts included basic streetscape elements such as sidewalks, bicycle facilities and greenspace, while urban locations received more robust streetscape improvements including street furniture, lighting, pavers, plazas, artwork and plantings.
- Minor grading improvements are included within the items as per standard CTDOT cost estimating approach.
- Full depth reconstruction was assumed in locations with proposed grade changes or locations with poor pavement conditions.
- Drainage modifications and improvements were included within the limits of the concept plans based on a cursory review of the existing and proposed grading.
- Cost estimates for the West Rocks Road/France Street/Park Street Corridor has been performed on a cost per linear foot basis, as a concept plan and detailed complete streets improvements have not been completely developed.



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ORDER OF MAGNITUDE OPINION OF COST

PROJECT: Norwalk Traffic Management Plan	DATE PREPARED: 12/9/11	
LOCATION: Norwalk, CT	BASIS: ConnDOT 2011	
DESCRIPTION: Flax Hill Road at Rowayton Avenue and Richards Avenue Option #1	ESTIMATOR: CDY	CHECKED BY: MSR
PROJECT NO.: 20100265.A10		

Fuss & O'Neill has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s) methods of determining prices, or over competitive bidding or market conditions, Fuss & O'Neill's opinion of probable Total Project Costs and Construction Cost are made on the basis of Fuss & O'Neill's experience and qualifications and represent Fuss & O'Neill's best judgment as an experienced and qualified professional engineer, familiar with the construction industry; but Fuss & O'Neill cannot and does not guarantee that proposals, bids or actual Total Project or Construction Costs will not vary from opinions of probable cost prepared by Fuss & O'Neill. If prior to the bidding or negotiating Phase the Owner wishes greater assurance as to Total Project or Construction Costs, the Owner shall employ an independent cost estimator.

Item	Est. Quant.	Unit	Unit Price	Total
ROADWAY ITEMS				
Earth Excavation	3070	c.y.	\$25.00	\$76,750
Trench Excavation 0-4' Deep	75	c.y.	\$15.00	\$1,125
Trench Excavation 0-10' Deep	130	c.y.	\$25.00	\$3,250
Subbase	340	c.y.	\$45.00	\$15,300
Sedimentation Control System	1800	l.f.	\$4.00	\$7,200
Processed Aggregate Base	230	c.y.	\$45.00	\$10,350
Milling of Bituminous Concrete Pavement	885	s.y.	\$7.50	\$6,638
H.M.A.	1040	ton	\$100.00	\$104,000
Bedding Material	30	c.y.	\$50.00	\$1,500
15" R.C.P.	400	l.f.	\$55.00	\$22,000
Simple Catch Basin	6	ea.	\$3,000.00	\$18,000
Structure Resetting (Storm and Sanitary)	10	ea.	\$1,000.00	\$10,000
Bituminous Concrete Lip Curbing	1450	l.f.	\$7.00	\$10,150
Granite Curbing	640	l.f.	\$45.00	\$28,800
Concrete Sidewalk	7050	s.f.	\$12.50	\$88,125
Pavers (Sidewalk/Crosswalk)	4450	s.f.	\$22.00	\$97,900
Bituminous Concrete Driveway - Residential	85	s.y.	\$36.00	\$3,060
Furnishing and Placing Topsoil	2875	s.y.	\$6.50	\$18,688
Turf Establishment	2875	s.y.	\$2.50	\$7,188
Landscaping - Trees	10	ea.	\$750.00	\$7,500
Landscaping - Shrubs/Bushes	50	ea.	\$60.00	\$3,000
Roadway Lighting - Ornamental Roadway	900	l.f.	\$130.00	\$117,000
TRAFFIC ITEMS				
Trafficmen - Town (City) Police Officer	640	hr.	\$75.00	\$48,000
Trafficmen - Uniformed Flagger	640	hr.	\$55.00	\$35,200
Contract Items			SUBTOTAL	\$740,700
Clearing and Grubbing Roadway		2.0%		\$14,800
M & P of Traffic		4.0%		\$29,600
Mobilization		7.5%		\$55,600
Construction Staking		1.0%		\$7,400
Minor Items		25.0%		\$185,200
Inflation Factor	10	5.0%		\$650,000
			CONSTRUCTION TOTALS	\$1,680,000
ENGINEERING		8.0%		\$134,000
CONTINGENCIES		10.0%		\$168,000
INCIDENTALS		25.0%		\$420,000
UTILITIES		2.0%		\$34,000
RIGHTS OF WAY				\$0
			TOTAL ESTIMATED COST	\$2,436,000



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ORDER OF MAGNITUDE OPINION OF COST

PROJECT: Norwalk Traffic Management Plan	DATE PREPARED: 12/9/11	
LOCATION: Norwalk, CT	BASIS: ConnDOT 2011	
DESCRIPTION: Flax Hill Road at Rowayton Avenue and Richards Avenue Option #2	ESTIMATOR: CDY	CHECKED BY: MSR
	PROJECT NO.: 20100265.A10	

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Item	Est. Quant.	Unit	Unit Price	Total
ROADWAY ITEMS				
Earth Excavation	225	c.y.	\$50.00	\$11,250
Trench Excavation 0-4' Deep	35	c.y.	\$15.00	\$525
Trench Excavation 0-10' Deep	60	c.y.	\$25.00	\$1,500
Sedimentation Control System	1200	l.f.	\$4.00	\$4,800
Milling of Bituminous Concrete Pavement	1290	s.y.	\$7.50	\$9,675
H.M.A.	160	ton	\$110.00	\$17,600
Bedding Material	6	c.y.	\$50.00	\$300
15" R.C.P.	75	l.f.	\$55.00	\$4,125
Simple Catch Basin	2	ea.	\$3,000.00	\$6,000
Structure Resetting (Storm and Sanitary)	5	ea.	\$1,000.00	\$5,000
Bituminous Concrete Lip Curbing	675	l.f.	\$7.00	\$4,725
Concrete Sidewalk	3300	s.f.	\$12.50	\$41,250
Pavers (Sidewalk/Crosswalk)	880	s.f.	\$22.00	\$19,360
Furnishing and Placing Topsoil	1000	s.y.	\$6.50	\$6,500
Turf Establishment	1000	s.y.	\$2.50	\$2,500
Landscaping - Trees	10	ea.	\$750.00	\$7,500
Landscaping - Shrubs/Bushes	20	ea.	\$60.00	\$1,200
Roadway Lighting - Ornamental Roadway	100	l.f.	\$130.00	\$13,000
TRAFFIC ITEMS				
Trafficmen - Town (City) Police Officer	320	hr.	\$75.00	\$24,000
Trafficmen - Uniformed Flagger	320	hr.	\$55.00	\$17,600
Contract Items			SUBTOTAL	\$198,400
Clearing and Grubbing Roadway		2.0%		\$4,000
M & P of Traffic		4.0%		\$7,900
Mobilization		7.5%		\$14,900
Construction Staking		1.0%		\$2,000
Minor Items		25.0%		\$49,600
Inflation Factor	10	5.0%		\$174,000
			CONSTRUCTION TOTALS	\$450,000
ENGINEERING		8.0%		\$36,000
CONTINGENCIES		10.0%		\$45,000
INCIDENTALS		30.0%		\$135,000
UTILITIES		2.0%		\$9,000
RIGHTS OF WAY				\$0
TOTAL ESTIMATED COST				\$675,000



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ORDER OF MAGNITUDE OPINION OF COST

PROJECT: Norwalk Traffic Management Plan	DATE PREPARED: 12/9/11	
LOCATION: Norwalk, CT	BASIS: ConnDOT 2011	
DESCRIPTION: Route 123 at Bartlett Avenue and Ells Street	ESTIMATOR: CDY	CHECKED BY: MSR
	PROJECT NO.: 20100265.A10	

Fuss & O'Neill has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s)' methods of determining prices, or over competitive bidding or market conditions, Fuss & O'Neill's opinion of probable Total Project Costs and Construction Cost are made on the basis of Fuss & O'Neill's experience and qualifications and represent Fuss & O'Neill's best judgment as an experienced and qualified professional engineer, familiar with the construction industry; but Fuss & O'Neill cannot and does not guarantee that proposals, bids or actual Total Project or Construction Costs will not vary from opinions of probable cost prepared by Fuss & O'Neill. If prior to the bidding or negotiating Phase the Owner wishes greater assurance as to Total Project or Construction Costs, the Owner shall employ an independent cost estimator.

Item	Est. Quant.	Unit	Unit Price	Total
ROADWAY ITEMS				
Earth Excavation	950	c.y.	\$30.00	\$28,500
Trench Excavation 0-4' Deep	10	c.y.	\$15.00	\$150
Trench Excavation 0-10' Deep	60	c.y.	\$25.00	\$1,500
Subbase	135	c.y.	\$45.00	\$6,075
Sedimentation Control System	2000	l.f.	\$4.00	\$8,000
Processed Aggregate Base	100	c.y.	\$45.00	\$4,500
Milling of Bituminous Concrete Pavement	2850	s.y.	\$7.50	\$21,375
H.M.A.	710	ton	\$110.00	\$78,100
Bedding Material	2	c.y.	\$50.00	\$100
15" R.C.P.	20	l.f.	\$55.00	\$1,100
Simple Catch Basin	2	ea.	\$3,000.00	\$6,000
Structure Resetting (Storm and Sanitary)	10	ea.	\$1,000.00	\$10,000
Concrete Curbing	500	l.f.	\$35.00	\$17,500
Concrete Sidewalk	2250	s.f.	\$12.50	\$28,125
Pavers (Sidewalk/Crosswalk)	400	s.f.	\$22.00	\$8,800
Decorative Pavement (Stamped Concrete)	2400	s.f.	\$20.00	\$48,000
Street Furniture - Benches	2	ea.	\$1,750.00	\$3,500
Street Furniture - Trash Receptacles	2	ea.	\$1,750.00	\$3,500
Street Furniture - Bicycle Racks	2	ea.	\$1,500.00	\$3,000
Bituminous Concrete Driveway - Commercial	120	s.y.	\$40.00	\$4,800
Furnishing and Placing Topsoil	275	s.y.	\$12.00	\$3,300
Turf Establishment	275	s.y.	\$3.50	\$963
Landscaping - Trees	5	ea.	\$750.00	\$3,750
Landscaping - Shrubs/Bushes	10	ea.	\$60.00	\$600
Landscaping - Planters	6	ea.	\$1,000.00	\$6,000
Decorative Fence	920	l.f.	\$100.00	\$92,000
TRAFFIC ITEMS				
Trafficmen - Town (City) Police Officer	320	hr.	\$75.00	\$24,000
Trafficmen - Uniformed Flagger	160	hr.	\$55.00	\$8,800
Minor Signal Modifications	1	ea.	\$30,000.00	\$30,000
Contract Items			SUBTOTAL	\$452,000
Clearing and Grubbing Roadway		2.0%		\$9,000
M & P of Traffic		4.0%		\$18,100
Mobilization		7.5%		\$33,900
Construction Staking		1.0%		\$4,500
Minor Items		25.0%		\$113,000
Inflation Factor	10	5.0%		\$397,000

Item	Est. Quant.	Unit	Unit Price	Total
			CONSTRUCTION TOTALS	\$1,030,000
ENGINEERING		8.0%		\$82,000
CONTINGENCIES		10.0%		\$103,000
INCIDENTALS		25.0%		\$258,000
UTILITIES		2.0%		\$21,000
RIGHTS OF WAY				\$0
			TOTAL ESTIMATED COST	\$1,494,000



ORDER OF MAGNITUDE OPINION OF COST

PROJECT: Norwalk Traffic Management Plan	DATE PREPARED: 12/9/11	
LOCATION: Norwalk, CT	BASIS: ConnDOT 2011	
DESCRIPTION: Route 53 at Dry Hill Road and Murray Street Option #1	ESTIMATOR: CDY	CHECKED BY: MSR
	PROJECT NO.: 20100265.A10	

Fuss & O'Neill has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s)' methods of determining prices, or over competitive bidding or market conditions, Fuss & O'Neill's opinion of probable Total Project Costs and Construction Cost are made on the basis of Fuss & O'Neill's experience and qualifications and represent Fuss & O'Neill's best judgment as an experienced and qualified professional engineer, familiar with the construction industry; but Fuss & O'Neill cannot and does not guarantee that proposals, bids or actual Total Project or Construction Costs will not vary from opinions of probable cost prepared by Fuss & O'Neill. If prior to the bidding or negotiating Phase the Owner wishes greater assurance as to Total Project or Construction Costs, the Owner shall employ an independent cost estimator.

Item	Est. Quant.	Unit	Unit Price	Total
ROADWAY ITEMS				
Earth Excavation	1625	c.y.	\$30.00	\$48,750
Trench Excavation 0-4' Deep	5	c.y.	\$15.00	\$75
Trench Excavation 0-10' Deep	45	c.y.	\$25.00	\$1,125
Subbase	325	c.y.	\$45.00	\$14,625
Sedimentation Control System	1550	l.f.	\$4.00	\$6,200
Processed Aggregate Base	225	c.y.	\$45.00	\$10,125
H.M.A.	900	ton	\$110.00	\$99,000
Bedding Material	2	c.y.	\$50.00	\$100
15" R.C.P.	20	l.f.	\$55.00	\$1,100
Simple Catch Basin	2	ea.	\$3,000.00	\$6,000
Structure Resetting (Storm and Sanitary)	4	ea.	\$1,000.00	\$4,000
Concrete Curbing	750	l.f.	\$35.00	\$26,250
Granite Curbing	250	l.f.	\$45.00	\$11,250
Concrete Sidewalk	3300	s.f.	\$12.50	\$41,250
Pavers (Sidewalk/Crosswalk)	1200	s.f.	\$22.00	\$26,400
Street Furniture - Benches	2	ea.	\$1,750.00	\$3,500
Street Furniture - Trash Receptacles	2	ea.	\$1,750.00	\$3,500
Street Furniture - Bicycle Racks	1	ea.	\$1,500.00	\$1,500
Furnishing and Placing Topsoil	1225	s.y.	\$6.50	\$7,963
Turf Establishment	1225	s.y.	\$2.50	\$3,063
Landscaping - Trees	10	ea.	\$750.00	\$7,500
Landscaping - Shrubs/Bushes	25	ea.	\$60.00	\$1,500
Landscaping - Artwork	1	l.s.	\$20,000.00	\$20,000
Roadway Lighting - Ornamental Pedestrian	300	l.f.	\$190.00	\$57,000
TRAFFIC ITEMS				
Trafficmen - Town (City) Police Officer	480	hr.	\$75.00	\$36,000
Trafficmen - Uniformed Flagger	480	hr.	\$55.00	\$26,400
Contract Items			SUBTOTAL	\$464,200
Clearing and Grubbing Roadway		2.0%		\$9,300
M & P of Traffic		4.0%		\$18,600
Mobilization		7.5%		\$34,800
Construction Staking		1.0%		\$4,600
Minor Items		25.0%		\$116,100
Inflation Factor	10	5.0%		\$407,000
			CONSTRUCTION TOTALS	\$1,050,000
ENGINEERING		8.0%		\$84,000
CONTINGENCIES		10.0%		\$105,000
INCIDENTALS		25.0%		\$263,000
UTILITIES		2.0%		\$21,000
RIGHTS OF WAY				\$0
			TOTAL ESTIMATED COST	\$1,523,000



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ORDER OF MAGNITUDE OPINION OF COST

PROJECT: Norwalk Traffic Management Plan	DATE PREPARED: 12/9/11	
LOCATION: Norwalk, CT	BASIS: ConnDOT 2011	
DESCRIPTION: Route 53 at Dry Hill Road and Murray Street Option #2	ESTIMATOR: CDY	CHECKED BY: MSR
PROJECT NO.: 20100265.A10		

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Item	Est. Quant.	Unit	Unit Price	Total
ROADWAY ITEMS				
Earth Excavation	1050	c.y.	\$30.00	\$31,500
Trench Excavation 0-4' Deep	5	c.y.	\$15.00	\$75
Trench Excavation 0-10' Deep	45	c.y.	\$25.00	\$1,125
Subbase	220	c.y.	\$45.00	\$9,900
Sedimentation Control System	1550	l.f.	\$4.00	\$6,200
Processed Aggregate Base	150	c.y.	\$45.00	\$6,750
H.M.A.	600	ton	\$110.00	\$66,000
Bedding Material	2	c.y.	\$50.00	\$100
15" R.C.P.	20	l.f.	\$55.00	\$1,100
Simple Catch Basin	2	ea.	\$3,000.00	\$6,000
Structure Resetting (Storm and Sanitary)	4	ea.	\$1,000.00	\$4,000
Concrete Curbing	600	l.f.	\$35.00	\$21,000
Concrete Sidewalk	1775	s.f.	\$12.50	\$22,188
Pavers (Sidewalk/Crosswalk)	920	s.f.	\$22.00	\$20,240
Street Furniture - Benches	1	ea.	\$1,750.00	\$1,750
Street Furniture - Trash Receptacles	1	ea.	\$1,750.00	\$1,750
Furnishing and Placing Topsoil	250	s.y.	\$12.00	\$3,000
Turf Establishment	250	s.y.	\$3.50	\$875
Landscaping - Trees	10	ea.	\$750.00	\$7,500
Landscaping - Shrubs/Bushes	20	ea.	\$60.00	\$1,200
Landscaping - Artwork	1	l.s.	\$20,000.00	\$20,000
ENVIRONMENTAL COMPLIANCE ITEMS				
Water Pollution Control	1	est.		\$0
TRAFFIC ITEMS				
Trafficmen - Town (City) Police Officer	320	hr.	\$75.00	\$24,000
Trafficmen - Uniformed Flagger	320	hr.	\$55.00	\$17,600
Contract Items			SUBTOTAL	\$273,900
Clearing and Grubbing Roadway		2.0%		\$5,500
M & P of Traffic		4.0%		\$11,000
Mobilization		7.5%		\$20,500
Construction Staking		1.0%		\$2,700
Minor Items		25.0%		\$68,500
Inflation Factor	10	5.0%		\$240,000
			CONSTRUCTION TOTALS	\$620,000
ENGINEERING		8.0%		\$50,000
CONTINGENCIES		10.0%		\$62,000
INCIDENTALS		30.0%		\$186,000
UTILITIES		3.5%		\$22,000
RIGHTS OF WAY				\$0
TOTAL ESTIMATED COST				\$940,000



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ORDER OF MAGNITUDE OPINION OF COST

PROJECT: Norwalk Traffic Management Plan	DATE PREPARED: 12/9/11	
LOCATION: Norwalk, CT	BASIS: ConnDOT 2011	
DESCRIPTION: Taylor Avenue at Flax Hill Road Option #1	ESTIMATOR: CDY	CHECKED BY: MSR
PROJECT NO.: 20100265.A10		

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Item	Est. Quant.	Unit	Unit Price	Total
ROADWAY ITEMS				
Earth Excavation	175	c.y.	\$50.00	\$8,750
Trench Excavation 0-4' Deep	25	c.y.	\$15.00	\$375
Trench Excavation 0-10' Deep	150	c.y.	\$25.00	\$3,750
Subbase	50	c.y.	\$75.00	\$3,750
Sedimentation Control System	3000	l.f.	\$4.00	\$12,000
Processed Aggregate Base	40	c.y.	\$60.00	\$2,400
Milling of Bituminous Concrete Pavement	2650	s.y.	\$7.50	\$19,875
H.M.A.	465	ton	\$110.00	\$51,150
Bedding Material	5	c.y.	\$50.00	\$250
15" R.C.P.	50	l.f.	\$55.00	\$2,750
Simple Catch Basin	5	ea.	\$3,000.00	\$15,000
Structure Resetting (Storm and Sanitary)	10	ea.	\$1,000.00	\$10,000
Concrete Curbing	1200	l.f.	\$35.00	\$42,000
Concrete Sidewalk	7500	s.f.	\$12.50	\$93,750
Pavers (Sidewalk/Crosswalk)	1680	s.f.	\$22.00	\$36,960
Bituminous Concrete Driveway - Residential	250	s.y.	\$36.00	\$9,000
Furnishing and Placing Topsoil	1925	s.y.	\$6.50	\$12,513
Turf Establishment	1925	s.y.	\$2.50	\$4,813
Landscaping - Trees	30	ea.	\$750.00	\$22,500
Landscaping - Shrubs/Bushes	25	ea.	\$60.00	\$1,500
TRAFFIC ITEMS				
Trafficmen - Town (City) Police Officer	480	hr.	\$75.00	\$36,000
Trafficmen - Uniformed Flagger	480	hr.	\$55.00	\$26,400
New Signal - Town	1	ea.	\$225,000.00	\$225,000
Utility Relocations for Signal	1	ea.	\$7,000.00	\$7,000
Contract Items			SUBTOTAL	\$647,500
Clearing and Grubbing Roadway		2.0%		\$13,000
M & P of Traffic		4.0%		\$25,900
Mobilization		7.5%		\$48,600
Construction Staking		1.0%		\$6,500
Minor Items		25.0%		\$161,900
Inflation Factor	10	5.0%		\$568,000
			CONSTRUCTION TOTALS	\$1,470,000
ENGINEERING		8.0%		\$118,000
CONTINGENCIES		10.0%		\$147,000
INCIDENTALS		25.0%		\$368,000
UTILITIES		3.0%		\$44,000
RIGHTS OF WAY				\$0
			TOTAL ESTIMATED COST	\$2,147,000



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ORDER OF MAGNITUDE OPINION OF COST

PROJECT: Norwalk Traffic Management Plan	DATE PREPARED: 12/9/11	
LOCATION: Norwalk, CT	BASIS: ConnDOT 2011	
DESCRIPTION: Taylor Avenue at Flax Hill Road Option #2	ESTIMATOR: CDY	CHECKED BY: MSR
PROJECT NO.: 20100265.A10		

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Item	Est. Quant.	Unit	Unit Price	Total
ROADWAY ITEMS				
Earth Excavation	1175	c.y.	\$30.00	\$35,250
Trench Excavation 0-4' Deep	25	c.y.	\$15.00	\$375
Trench Excavation 0-10' Deep	175	c.y.	\$25.00	\$4,375
Subbase	300	c.y.	\$45.00	\$13,500
Sedimentation Control System	3000	l.f.	\$4.00	\$12,000
Processed Aggregate Base	200	c.y.	\$45.00	\$9,000
Milling of Bituminous Concrete Pavement	1125	s.y.	\$7.50	\$8,438
H.M.A.	990	ton	\$110.00	\$108,900
Bedding Material	5	c.y.	\$50.00	\$250
15" R.C.P.	50	l.f.	\$55.00	\$2,750
Simple Catch Basin	6	ea.	\$3,000.00	\$18,000
Structure Resetting (Storm and Sanitary)	10	ea.	\$1,000.00	\$10,000
Concrete Curbing	1350	l.f.	\$35.00	\$47,250
Concrete Sidewalk	7500	s.f.	\$12.50	\$93,750
Pavers (Sidewalk/Crosswalk)	2755	s.f.	\$22.00	\$60,610
Bituminous Concrete Driveway - Residential	250	s.y.	\$36.00	\$9,000
Furnishing and Placing Topsoil	1925	s.y.	\$6.50	\$12,513
Turf Establishment	1925	s.y.	\$2.50	\$4,813
Landscaping - Trees	30	ea.	\$750.00	\$22,500
Landscaping - Shrubs/Bushes	25	ea.	\$60.00	\$1,500
TRAFFIC ITEMS				
Trafficmen - Town (City) Police Officer	640	hr.	\$75.00	\$48,000
Trafficmen - Uniformed Flagger	640	hr.	\$55.00	\$35,200
Contract Items			SUBTOTAL	\$558,000
Clearing and Grubbing Roadway		2.0%		\$11,200
M & P of Traffic		4.0%		\$22,300
Mobilization		7.5%		\$41,900
Construction Staking		1.0%		\$5,600
Minor Items		25.0%		\$139,500
Inflation Factor	10	5.0%		\$490,000
			CONSTRUCTION TOTALS	\$1,270,000
ENGINEERING		8.0%		\$102,000
CONTINGENCIES		10.0%		\$127,000
INCIDENTALS		25.0%		\$318,000
UTILITIES		5.0%		\$64,000
RIGHTS OF WAY				\$0
			TOTAL ESTIMATED COST	\$1,881,000



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ORDER OF MAGNITUDE OPINION OF COST

PROJECT: Norwalk Traffic Management Plan	DATE PREPARED: 12/9/11	
LOCATION: Norwalk, CT	BASIS: ConnDOT 2011	
DESCRIPTION: Washington Street at North Main Street and Madison Street	ESTIMATOR: CDY	CHECKED BY: MSR
	PROJECT NO.: 20100265.A10	

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Item	Est. Quant.	Unit	Unit Price	Total
ROADWAY ITEMS				
Earth Excavation	1700	c.y.	\$30.00	\$51,000
Sedimentation Control System	2400	l.f.	\$4.00	\$9,600
Milling of Bituminous Concrete Pavement	4900	s.y.	\$7.50	\$36,750
H.M.A.	570	ton	\$110.00	\$62,700
Structure Resetting (Storm and Sanitary)	20	ea.	\$1,000.00	\$20,000
Concrete Curbing	325	l.f.	\$35.00	\$11,375
Concrete Sidewalk	3850	s.f.	\$12.50	\$48,125
Pavers (Sidewalk/Crosswalk)	37000	s.f.	\$22.00	\$814,000
Street Furniture - Benches	21	ea.	\$1,750.00	\$36,750
Street Furniture - Trash Receptacles	6	ea.	\$1,750.00	\$10,500
Street Furniture - Bicycle Racks	3	ea.	\$1,500.00	\$4,500
Street Furniture - Bollards	20	ea.	\$1,000.00	\$20,000
Bituminous Concrete Driveway - Commercial	35	s.y.	\$40.00	\$1,400
Furnishing and Placing Topsoil	560	s.y.	\$12.00	\$6,720
Turf Establishment	560	s.y.	\$3.50	\$1,960
Landscaping - Trees	20	ea.	\$750.00	\$15,000
Landscaping - Shrubs/Bushes	40	ea.	\$60.00	\$2,400
Landscaping - Planters	12	ea.	\$1,000.00	\$12,000
Landscaping - Artwork	1	l.s.	\$20,000.00	\$20,000
Roadway Lighting - Ornamental Roadway	150	l.f.	\$130.00	\$19,500
Roadway Lighting - Ornamental Pedestrian	600	l.f.	\$190.00	\$114,000
TRAFFIC ITEMS				
Trafficmen - Town (City) Police Officer	480	hr.	\$75.00	\$36,000
Trafficmen - Uniformed Flagger	480	hr.	\$55.00	\$26,400
Contract Items			SUBTOTAL	\$1,380,700
Clearing and Grubbing Roadway		2.0%		\$27,600
M & P of Traffic		4.0%		\$55,200
Mobilization		7.5%		\$103,600
Construction Staking		1.0%		\$13,800
Minor Items		25.0%		\$345,200
Inflation Factor	10	5.0%		\$1,211,000
			CONSTRUCTION TOTALS	\$3,140,000
ENGINEERING		8.0%		\$251,000
CONTINGENCIES		10.0%		\$314,000
INCIDENTALS		25.0%		\$785,000
UTILITIES		1.0%		\$31,000
RIGHTS OF WAY				\$0
			TOTAL ESTIMATED COST	\$4,521,000



ORDER OF MAGNITUDE OPINION OF COST

PROJECT: Norwalk Traffic Management Plan	DATE PREPARED: 12/9/11	
LOCATION: Norwalk, CT	BASIS: ConnDOT 2011	
DESCRIPTION: West Avenue at Belden Avenue and Mott Avenue	ESTIMATOR: CDY	CHECKED BY: MSR
	PROJECT NO.: 20100265.A10	

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Item	Est. Quant.	Unit	Unit Price	Total
ROADWAY ITEMS				
Earth Excavation	4425	c.y.	\$25.00	\$110,625
Trench Excavation 0-4' Deep	130	c.y.	\$15.00	\$1,950
Trench Excavation 0-10' Deep	230	c.y.	\$25.00	\$5,750
Subbase	300	c.y.	\$45.00	\$13,500
Sedimentation Control System	3000	l.f.	\$4.00	\$12,000
Processed Aggregate Base	200	c.y.	\$45.00	\$9,000
Milling of Bituminous Concrete Pavement	4320	s.y.	\$7.50	\$32,400
H.M.A.	1330	ton	\$100.00	\$133,000
Bedding Material	25	c.y.	\$50.00	\$1,250
15" R.C.P.	300	l.f.	\$55.00	\$16,500
Simple Catch Basin	8	ea.	\$3,000.00	\$24,000
Structure Resetting (Storm and Sanitary)	25	ea.	\$1,000.00	\$25,000
Concrete Curbing	2325	l.f.	\$35.00	\$81,375
Concrete Sidewalk	5625	s.f.	\$12.50	\$70,313
Pavers (Sidewalk/Crosswalk)	43100	s.f.	\$22.00	\$948,200
Street Furniture - Benches	14	ea.	\$1,750.00	\$24,500
Street Furniture - Trash Receptacles	12	ea.	\$1,750.00	\$21,000
Street Furniture - Bicycle Racks	6	ea.	\$1,500.00	\$9,000
Street Furniture - Bollards	40	ea.	\$1,000.00	\$40,000
Furnishing and Placing Topsoil	2000	s.y.	\$6.50	\$13,000
Turf Establishment	2000	s.y.	\$2.50	\$5,000
Landscaping - Trees	26	ea.	\$750.00	\$19,500
Landscaping - Shrubs/Bushes	60	ea.	\$60.00	\$3,600
Landscaping - Planters	14	ea.	\$1,000.00	\$14,000
Roadway Lighting - Ornamental Roadway	150	l.f.	\$130.00	\$19,500
Roadway Lighting - Ornamental Pedestrian	500	l.f.	\$190.00	\$95,000
Roadway Lighting - Artwork	1	l.s.	\$20,000.00	\$20,000
TRAFFIC ITEMS				
Trafficmen - Town (City) Police Officer	640	hr.	\$75.00	\$48,000
Trafficmen - Uniformed Flagger	640	hr.	\$55.00	\$35,200
Minor Signal Modifications	2	ea.	\$30,000.00	\$60,000
Contract Items			SUBTOTAL	\$1,912,200
Clearing and Grubbing Roadway		2.0%		\$38,200
M & P of Traffic		4.0%		\$76,500
Mobilization		7.5%		\$143,400
Construction Staking		1.0%		\$19,100
Minor Items		25.0%		\$478,100
Inflation Factor	10	5.0%		\$1,678,000

Item	Est. Quant.	Unit	Unit Price	Total
			CONSTRUCTION TOTALS	\$4,350,000
ENGINEERING		8.0%		\$348,000
CONTINGENCIES		10.0%		\$435,000
INCIDENTALS		25.0%		\$1,088,000
UTILITIES		1.0%		\$44,000
RIGHTS OF WAY				\$0
			TOTAL ESTIMATED COST	\$6,265,000



ORDER OF MAGNITUDE OPINION OF COST

Project: Norwalk Traffic Management Plan

Location: Norwalk, CT

Description: West Rocks Rd./France St./Park St.

Estimator: CDY

Checked By: MSR

Project No: 20100625.A10

Based on our experience for the type of improvements proposed for the West Rocks Road/France Street/Park Street Corridor, we expect the construction cost to be \$1,250 to \$1,750 per linear foot. The lower end would consist of a basic complete streets concept including sidewalks, crosswalks, bike facilities and greenspace, while the high end estimate would include more robust construction materials, plazas, artwork, lighting and street furniture. Based on these prices, the construction costs for the 15,500 foot corridor is in the range of \$19.375 million to \$27.125 million. This price range can vary depending on the current construction cost and or scope/visions. Engineering costs can be estimated at approximately 8% of the total construction cost.

Norwalk Master Project List

The following is a summary of the current transportation projects in the City of Norwalk, including jurisdiction and project status for reference:

- ◆ Exhibit X-1: Bridge Projects
- ◆ Exhibit X-2: Signal Projects
- ◆ Exhibit X-3: Roadway Projects
- ◆ Exhibit X-4: Multi-Purpose Trail Projects

The project list and supporting information was provided by the City of Norwalk on November 21, 2011 and is current as of that date. This list should be updated periodically as projects are completed, project statuses change, or new projects are added. In addition to the specific projects summarized below, the City also has other miscellaneous contracts such as paving, sidewalk, and crack seal contracts.

Exhibit X-1 Bridge Projects

Location	Jurisdiction	Project Status	Notes
James Street over Silvermine River	City	Design	
Perry Avenue over Norwalk River	City	Design	
Westmere over Farm Creek	City	Design	
Cedar over I-95	State	Final Design	
Taylor over I-95	State	Final Design	
Burnell Bridge over MNRR/Norwalk River	State	Construction	2nd phase under design
Triangle Street over MNRR	State	Design	
Lowering of Rowayton Avenue under MNRR	City	Design	
Lowering of Monroe Street under MNRR	State	Construction	
Glover Avenue over Norwalk Railroad	?	?	
MNRR Metro-NoRouteh Railroad			



Exhibit X-2 Signal Projects

Location	Jurisdiction	Project Status	Notes
Central Traffic Signal System Upgrade – Phase 1	City	Construction	
Central Traffic Signal System Upgrade – Phase 2	City	Bid	
Central Traffic Signal System Upgrade – Phase 3	City	Final Design	
Central Traffic Signal System Upgrade	?	Grant Submitted	Unfunded
Traffic Signal/Communication – Strawberry Hill	City	Design	

Exhibit X-3 Roadway Projects

Location	Jurisdiction	Project Status	Notes
Route 1 at East Avenue Intersection Improvement	State	Preliminary Design	
Route 1/Westport Avenue Signals – 3 locations	State	Design	Unfunded
Route 1 widening – Route 53 to East Avenue	State	Concept	Unfunded
Academy Street – Extension and realignment	City	Concept	Unfunded
West Ave at Wall Street Intersection Improvement	City	Concept	Unfunded
East Avenue at Wall Street Intersection Improvements	City	Concept	Unfunded
East Avenue at I-95 Improvement	State	Design	Unfunded
Haviland/Elizabeth Street Traffic Pattern Revision	City	Study	
I-95 project – Exit 15 to Exit 14	State	Final Design	
Route 1 Improvements – Exit 14 to Fairfield Avenue	State	Final Design	
Washington Street at Water Street Intersection Improvements	City	Construction	
West Avenue Improvements, – Gardner to Butler	City	Construction	
North Water Street	City	Construction	New roadway – to be opened
East Avenue Improvements – I-95 to Van Zant Street	City	Design	
Cedar Street Improvements	City	Design	
Fairfield Avenue Improvements	City	Concept	
Washington Street Improvements	City	Concept	
Merritt/Route 7 interchange	State	Design	Unfunded

Exhibit X-4 Multi-Purpose Trail Projects

Location	Jurisdiction	Project Status	Notes
Norwalk River Valley Trail – Phase 3	City	RFP	
Norwalk Linear Trail	City	Design	One segment