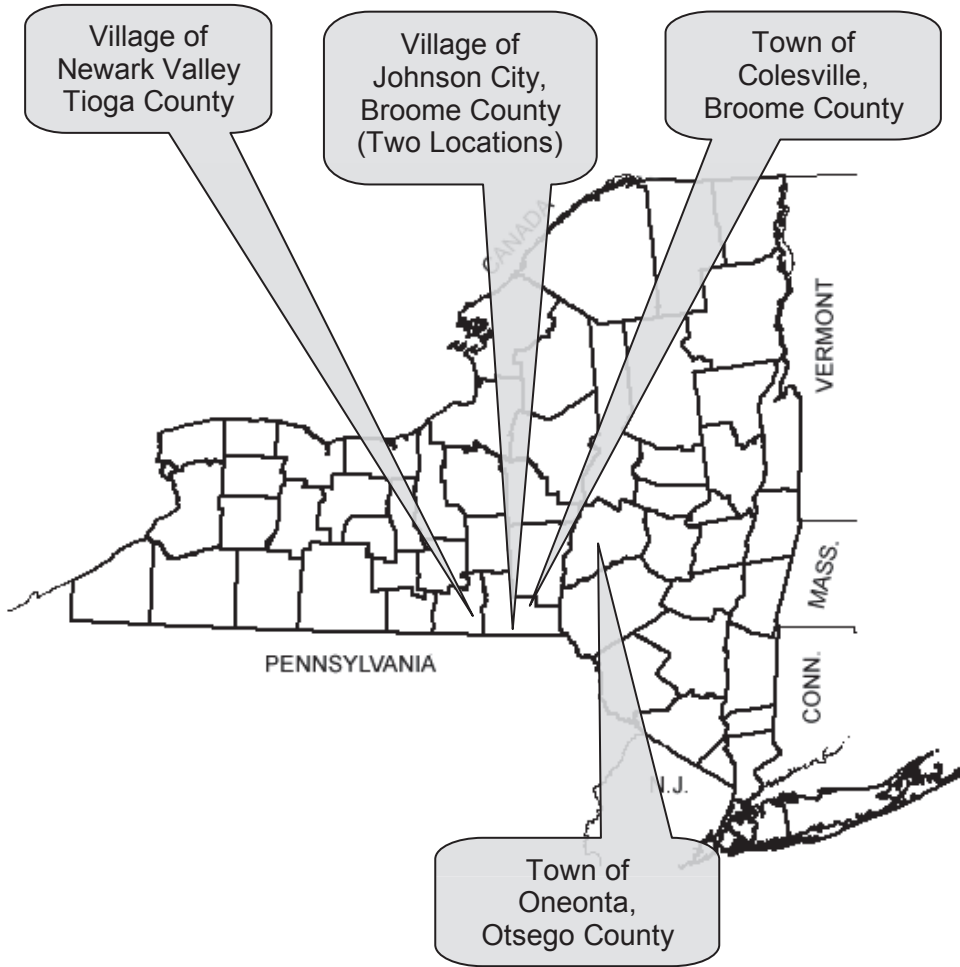


TRANSPORTATION

DRAFT INITIAL PROJECT PROPOSAL/ FINAL DESIGN REPORT

October, 2016

PIN 9806.30
F.A. Traffic Signal Requirements -
Broome, Otsego, & Tioga Counties



PROPOSED HIGHWAY



ANDREW M. CUOMO
Governor

Department of
Transportation

MATTHEW J. DRISCOLL
Commissioner



U.S. Department of Transportation
Federal Highway Administration

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PROJECT APPROVAL SHEET

(Pursuant to SAFETEA-LU Matrix)

A. IPP Approval

The Initial Project Proposal (IPP) was approved by:

John R. Williams, P.E., Regional Director, on 8/15/2011

B. Recommendation for Initiation, Scope & Design Approval:

The project cost and schedule are consistent with the Regional Capital Program.

Pam Eshbaugh, P.E., Regional Planning & Program Manager

Date

C. Recommendation for Scope, Design & Nonstandard Feature Approval:

All requirements requisite to these actions and approvals have been met, the required independent quality control reviews separate from the functional group reviews have been accomplished, and the work is consistent with established standards, policies, regulations and procedures, except as otherwise noted and explained.

Doug Bickford, P.E., Acting Regional Design Engineer

Date

D. Nonstandard Feature Approval:

No nonstandard features have been identified, created, or retained.

John R. Williams, P.E., Regional Director

Date

E. Initiation, Scope, and Design Approval:

The required environmental determinations have been made and the preferred alternative for this project is ready for final design.

John R. Williams, P.E., Regional Director

Date

LIST OF PREPARERS

Group Director Responsible for Production of the Design Approval Document:

Doug Bickford, P.E., Regional Design Engineer, NYSDOT Region 9

Description of Work Performed by Firm: Directed the preparation of the Design Approval Document in accordance with established standards, policies, regulations and procedures, except as otherwise explained in this document.

Note: *It is a violation of law for any person, unless they are acting under the direction of a licensed professional engineer, architect, landscape architect, or land surveyor, to alter an item in any way. If an item bearing the stamp of a licensed professional is altered, the altering engineer, architect, landscape architect, or land surveyor shall stamp the document and include the notation "altered by" followed by their signature, the date of such alteration, and a specific description of the alteration.*

This report was prepared by the following NYSDOT staff:

Marc Broder, P.E., Regional Design Team Leader/Project Manager, NYSDOT Region 9

Description of Work Performed:

Prepared the Design Approval Document in accordance with established standards, policies, regulations and procedures, except as otherwise explained in this document.

APPENDICES	
A	Project Location Maps & Traffic Signal Plans
B	Federal Environmental Approval Worksheet (FEAW)
C	Traffic Data and Accident Analysis
D	Smart Growth Screening
E	Design Criteria
F	Right-of-way Information

PIN: 980630

PROJECT NAME: F.A. Traffic Signal Requirements – Broome, Otsego, and Tioga Counties

MUNICIPALITIES: Villages of Johnson City & Newark Valley, and the Towns of Colesville & Oneonta.

COUNTIES: Broome, Otsego, and Tioga

ROUTES/SH #:	NY 17C	SH# 1161
	CR 69	No SH#
	NY 79	SH# 210
	NY 38	SH# 1077
	NY 205	SH# 1302
	NY 23	SH# 1302

BIN: NA

LIMITS: **Milepoints (2005):** See table of locations included in this report.
Reference Markers: See table of locations included in this report.

PROJECT LENGTH: NA **CENTERLINE MILES** NA **LANE MILES:** NA

FEDERAL AID SYSTEM: Non-NHS **FUNCTIONAL CLASS:** Varies

EXISTING AADT: Varies

TRUCKS (%): Varies

EXISTING CHARACTERISTICS OF CONCERN: The candidate traffic signals are at, or near, the end of their useful service life and are no longer in compliance with State and Federal standards. Signals #164 and #528 are required due to changing conditions and warrants. This project is needed to address the deteriorating condition of the signals and provide ADA compliant pedestrian accommodations at the identified intersections.

PROJECT OBJECTIVE(S): The project objective is to address the deteriorated and non-compliant traffic signals and pedestrian facilities.

PROJECT ELEMENT(S) TO BE ADDRESSED:

- | | |
|---|---|
| <input type="checkbox"/> Highway Element-Specific | <input checked="" type="checkbox"/> Operational / Maintenance |
| <input type="checkbox"/> Bridge Element Specific | <input type="checkbox"/> Where & When |
| <input type="checkbox"/> Other: | |

DESCRIPTION OF PROPOSED WORK: This project involves the installation of some, or all, of the following items:

- Tioga County Signal #919 NYS 38/ Rock & Water Streets, Newark Valley
- New Mast Arm Signal will replace the existing span wire signal
 - New Pedestrian signals
 - New ADA ramps
- Broome County Signal #23 NYS 17C/ Allen Street, Johnson City
- New Mast Arm Signal will replace the existing span wire

- New Pedestrian signals
- New ADA ramps at this location

Please note that the foundations and underground conduit will be installed under PIN 904137 and the remainder of the work shall be installed under this project.

Broome County Signal #60 NYS 17, Exit 71S Ramp/Airport Road, Johnson City

- New Span Wire Signal shall replace the existing Span Wire Signal and be repositioned;
- A new overhead service shall be run from Old Harry L Drive a new pole midway between Signal 60 and 67. The new service will be extended to Signal #60 and #67.

Broome County Signal #164 NYS 79/Maple & Main Streets, Harpursville

- New Span Wire Signal shall be installed at this new location.

Otsego County Signal #528 NYS 205/ NYS 23, Oneonta

- New Span Wire Signal to replace existing flashing signal.
- New Pedestrian Signal is to be installed at this existing signal location.

PRIORITY RESULTS: Mobility & Reliability Safety Security
 Economic Competitiveness Environmental Stewardship

FUNDING SOURCE: 100% State Federal

SEQRA AND NEPA CLASSIFICATION:

PROJECTED ENVIRONMENTAL PROCESS:				
NEPA:	<input type="checkbox"/> No Federal Funds	<input checked="" type="checkbox"/> Class II CE 'C' List	<input type="checkbox"/> Class III EA	<input type="checkbox"/> Class I EIS
		<input type="checkbox"/> Class II CE 'D' List - Prog.		
		<input type="checkbox"/> Class II CE 'D' List - FHWA		
SEQR:	<input type="checkbox"/> Exempt	<input checked="" type="checkbox"/> Type II	<input type="checkbox"/> Non-Type II <input type="checkbox"/> EA	Non-Type II <input type="checkbox"/> EIS

The following Checklist(s) is/are attached:

- Federal Environmental Approval Worksheet (FEAW)
- Social, Economic, and Environmental Resources Checklist

ENVIRONMENTAL DOCUMENTATION: Included as part of this report.

DESIGN STANDARDS: This is a 2R project, for which 3R design criteria is used, as per section 7.4.1 of the HDM. The design criteria tables are included in Appendix E of this report. The signals will be designed in accordance with HDM Chapter 11.

Other Design Parameters: Design vehicle shall be SU (Single Unit)

Non-Standard/Non-Conforming Features: There are no identified nonstandard or nonconforming features within the project limits.

PLANS: The PS&E submission will include plan sheets.

MPO INVOLVEMENT: No Yes TIP Name: BMTS
TIP No.: NA

TIP AMENDMENT REQUIRED: No Yes Needed by:

STIP STATUS: On STIP Not on STIP

NOTES ON SPECIAL CIRCUMSTANCES: None.

SPECIAL TECHNICAL ACTIVITES REQUIRED: None.

PLANNED PUBLIC INVOLVEMENT: Standard Public Officials letters will be sent during the Design phase prior to letting.

WORKZONE SAFETY & MOBILITY:

The Region has determined that the subject project is not significant per 23 CFR 630.1010.

A Transportation Management Plan (TMP) will be prepared for the project consistent with 23 CFR 630.1012. The TMP will consist of a Temporary Traffic Control (TTC) plan. Transportation Operations (TO) and Public Information (PI) components of a TMP will be considered during final design.

PROBABLE SCHEDULE AND COST:

DESIRED LETTING: February 9, 2017

SCHEDULE Qualifiers: Public Meeting 4(f)/106 FHWA sign-off
 Permits Consultant(s) for:
 Other - Identify

Project Phase	Activity Duration	Estimated Cost	Fund Source	Obligation Date
Design I-IV	18 months	\$0.150 M	SDF/STP Flex	See CSSQ Report
Design V-V1	6 months	\$0.060 M	SDF/STP Flex	
Construction	18 months	\$0.587 M	HSIP	
Construction Inspection	18 months	\$0.059 M	SDF	
ROW	12 months	\$0.032 M	SDF/STP Flex	
TOTAL		\$0.888 M		

BASIS OF ESTIMATE: Historic data on signal projects.

PROGRAM DISPOSITION: Scheduled for letting in SFY 2016/2017

PROJECT CATEGORY: Safety

STATEWIDE SIGNIFICANCE:

No Yes
Remarks:

ASSET MANAGEMENT (OPTIONAL):

Applies Not Applicable

ROW: The ROW Clearance Certificate will be included as part of the PS&E Submission to DQAB.

PUBLIC FRIENDLY DESCRIPTION OF PROJECT: This project will upgrade traffic signals and pedestrian facilities at five intersections in the villages of Johnson City and Newark Valley, and the towns of Colesville, and Oneonta.

PROJECT MANAGER/JOB MANAGER: Jamie Conn/ Brian Doak

FUNCTIONAL AREA(S): Traffic Safety & Mobility/Highway Design

PHONE(S): 607-721-8088 / 607-721-8220

IPP/FDR PREPARED BY: Marc Broder, PE/ Brian Doak, PE **DATE:** 10/06/16

PIN 980630 – F.A. Traffic Signal Requirements – Broome, Otsego, and Tioga Counties

<i>Signal #</i>	<i>Municipality</i>	<i>Intersection</i>	<i>Reference Marker(s)</i>	<i>Milepoint(s)</i>	<i>Proposed Work</i>
Broome County					
#23	Village of Johnson City	NY 17C (Main St.) @	17C 9102-1086		Replace existing span-wire traffic signal with new mast-arm signals, including pedestrian signal modules & push buttons. All sub-surface elements will be installed under PIN 904137.
#60	Village of Johnson City	CR 69 (Airport Rd.) at NY 17 WB Ramps	NA	NA	Replace existing span-wire traffic signal with new span-wire traffic signal. New power service to be provided from pole at Old Harry L Drive.
#164	Town of Colesville	NY 79 @ Maple St./	79 9101-1167		Install new span-wire flasher signal. There is no existing signal.
Otsego County					
#528	Town of Oneonta	NY 205/ NY 23	23 9402-1195 205 9401-1312		Existing span-wire flashing signal to be replaced with new three-color span-wire traffic signals. New pedestrian signal modules & push buttons are proposed.
Tioga County					
#919	Village of Newark Valley	NY 38 @ Rock St./ Water St.	38 6501-1103		Existing span-wire traffic signal to be replaced with new mast-arm signals, including pedestrian signal modules & push buttons. Sidewalk sections and ramps will be replaced to meet ADA standards.