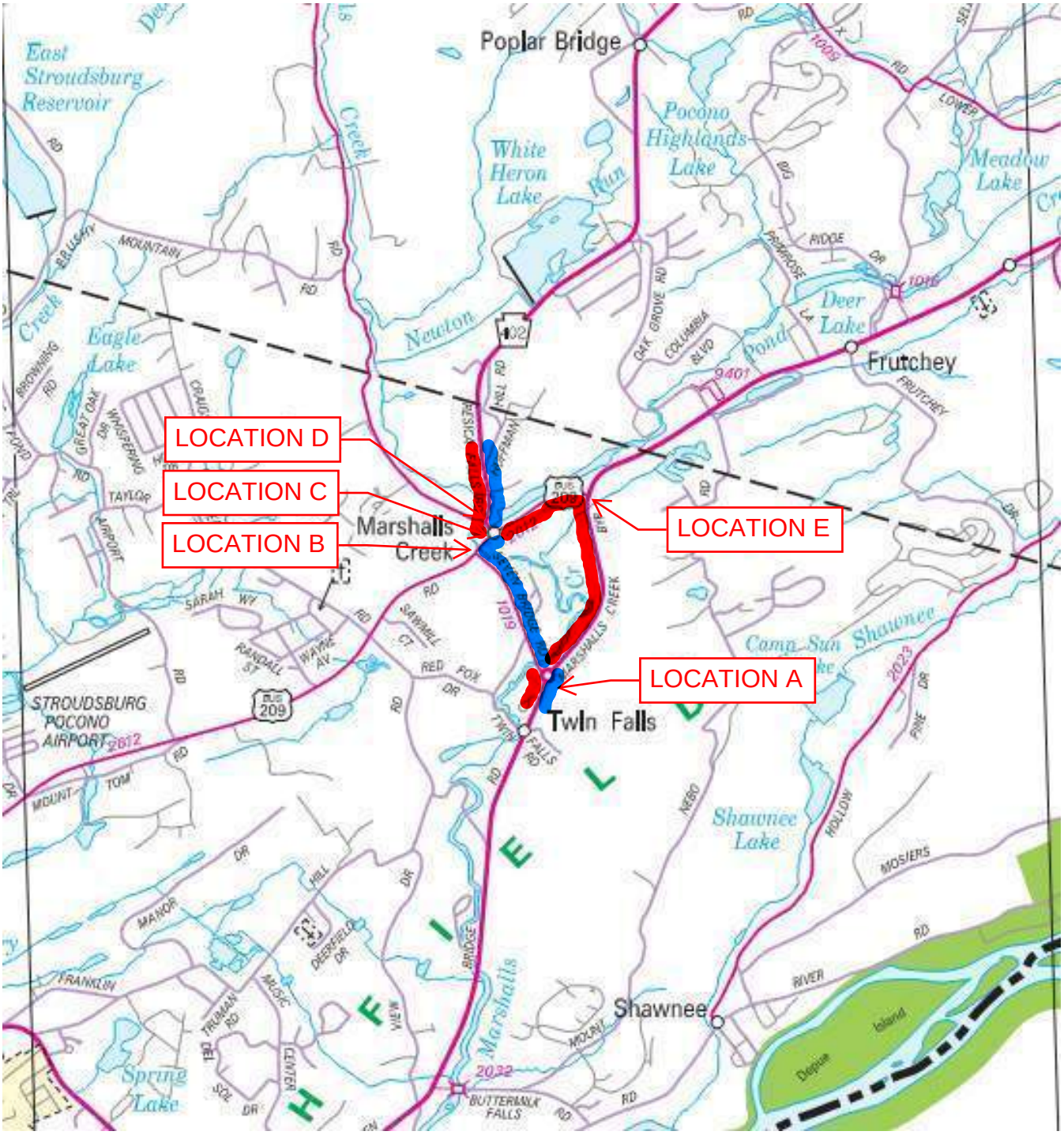
APPENDIX A

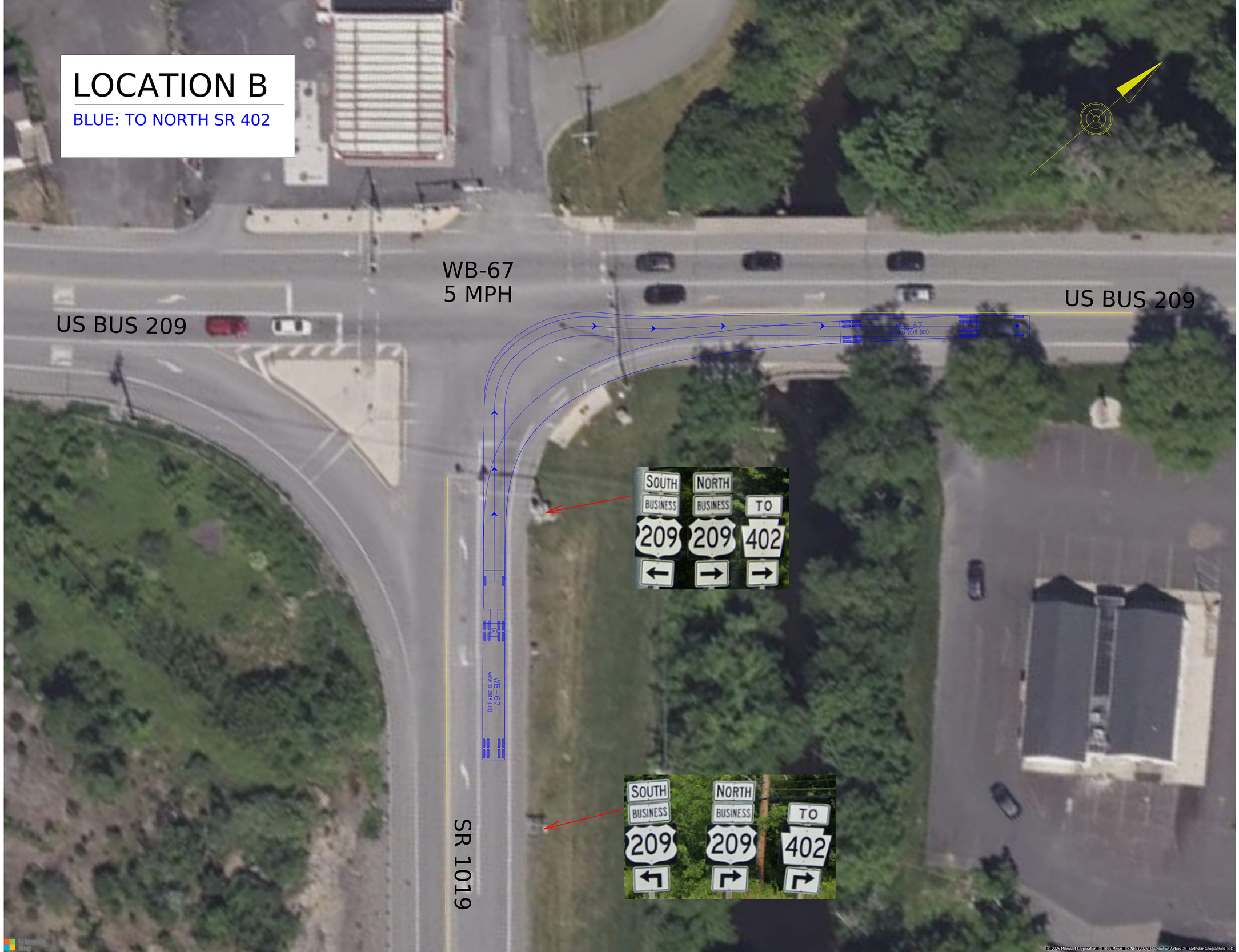
TRUCK ROUTING PROJECT OPTIONS

SR 402 TRUCK ROUTE SIGNING PROJECT - OPTION A
(MONROE COUNTY, PA)



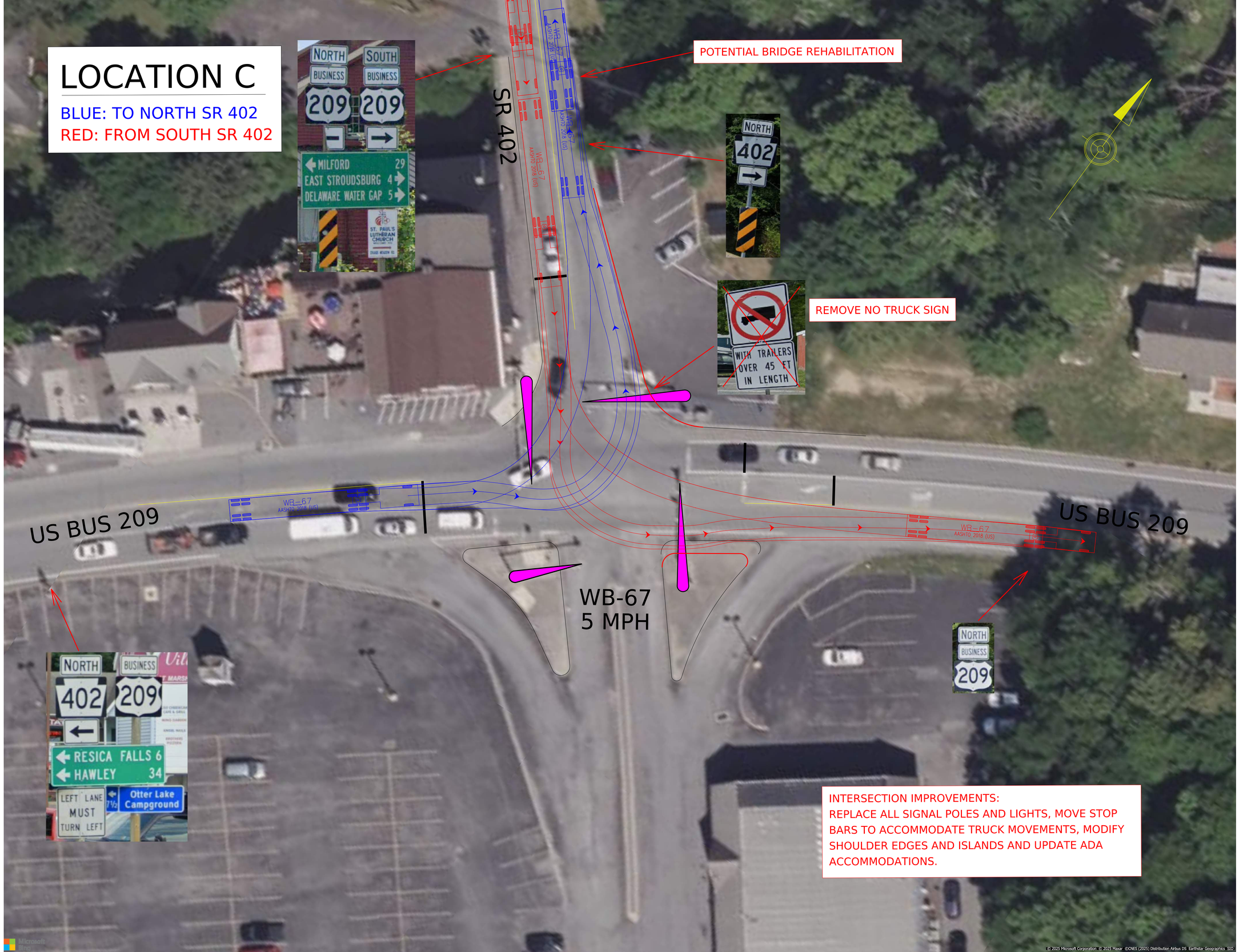
BLUE: TO NORTH SR 402
RED: FROM SOUTH SR 402

LOCATION A
BLUE: TO NORTH SR 402
RED: FROM SOUTH SR 402
SR 1019
US 209
WB-67
15 MPH
TO
BUSINESS
209
402
NORTH
EXCEPT
LOCAL
DELIVERIES
TO
INTERSTATE
80
ONLY
ONLY
LEFT
LANE
RIGHT
LANE
260 FT
270 FT
200 FT
Milford
Marshalls
Creek
TRAFFIC ALERT
102" VEHICLES
TO
USE
84
M1-1
M3-1
M1-5
R10-8
R5-2
R5-2a
M1-4


LOCATION B
BLUE: TO NORTH SR 402
WB-67
5 MPH
US BUS 209
US BUS 209
SR 1019
SOUTH BUSINESS 209
NORTH BUSINESS 209
TO 402
SOUTH BUSINESS 209
NORTH BUSINESS 209
TO 402

LOCATION C

BLUE: TO NORTH SR 402
RED: FROM SOUTH SR 402



INTERSECTION IMPROVEMENTS:
REPLACE ALL SIGNAL POLES AND LIGHTS, MOVE STOP BARS TO ACCOMMODATE TRUCK MOVEMENTS, MODIFY SHOULDER EDGES AND ISLANDS AND UPDATE ADA ACCOMMODATIONS.

LOCATION D

BLUE: TO NORTH SR 402
RED: FROM SOUTH SR 402

TRUCKS TO
SOUTH M3-3
209 M1-4

FOLLOW
NORTH M3-1
BUSINESS M4-3
209 M1-4

SR 402

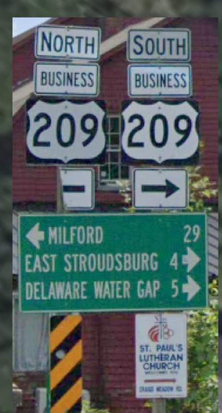
SR 1007

DEMOLISH MARSHALLS CREEK
FIRE CO. BUILDING

CONFLICTS WITH INTERSECTION
RELOCATE BUSINESS DRIVEWAY ENTRANCE

POTENTIAL BRIDGE REPLACEMENT

WB-67
5 MPH



SR 402

INTERSECTION IMPROVEMENTS:
DEMOLISH FIREHOUSE BUILDING
RECONFIGURATION INTERSECTION GEOMETRY
INSTALL 3-WAY STOP
INSTALL GUIDERAIL TO PROTECT BRIDGE BARRIERS
RELOCATE BUSINESS DRIVEWAY ENTRANCE

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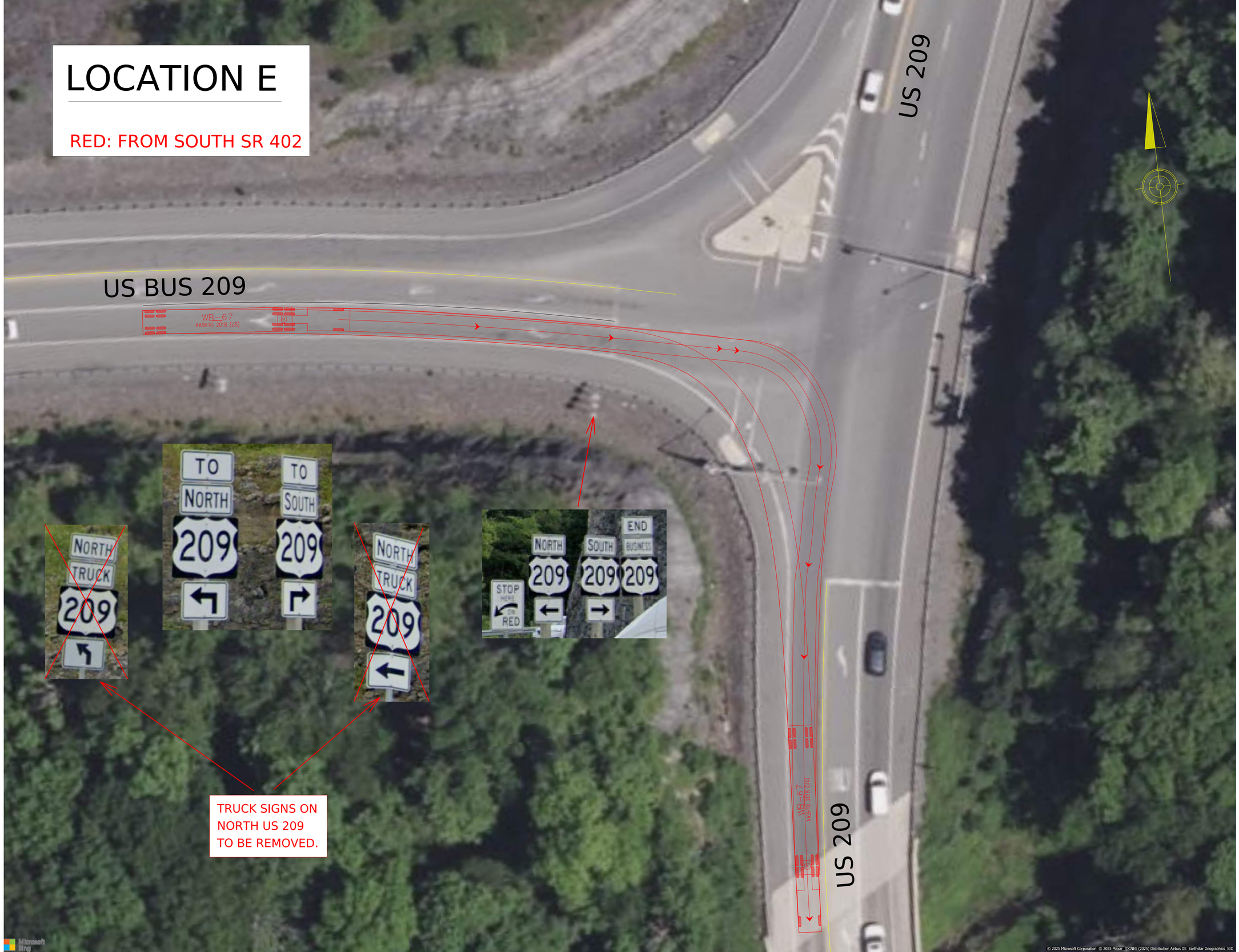
LOCATION E

RED: FROM SOUTH SR 402



SR 402 TRUCK ROUTE - OPTION A SUMMARY
PRELIMINARY - CONSTRUCTION COST ESTIMATE

By: BPH 4/1/2025
Checked: YLS 6/24/2025

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
LOCATION A	LS	1	$10,000.00	**$10,000.00**
LOCATION B	LS	1	$0.00	**$0.00**
LOCATION C	LS	1	$830,000.00	**$830,000.00**
LOCATION D	LS	1	$4,840,258.00	**$4,840,258.00**
LOCATION E	LS	1	$10,000.00	**$10,000.00**
		SUBTOTAL =		**$5,690,258.00**
		CONTINGENCY	**30%**	**$1,707,077.40**
			TOTAL =	**$7,397,335.40**
		PRELIMINARY ENGR SERVICES =	**9%**	**$665,760.19**
		FINAL DESIGN SERVICES =	**10%**	**$739,733.54**
		RIGHT-OF-WAY =		**$800,000.00**
		UTILITIES =		**$20,000.00**
		MITIGATION COMMITMENTS =		
		CONSTRUCTION INSPECTION =	**12%**	**$887,680.25**
			SAY TOTAL =	**$10,520,000.00**

SR 402 TRUCK ROUTE - LOCATION A

By: BPH 4/1/2025 Checked: YLS 6/24/2025

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (5%)	LS	1	$5,000.00	**$5,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$5,000.00	**$5,000.00**
		LS	1	$0.00	**$0.00**
			SUBTOTAL =		**$10,000.00**

SR 402 TRUCK ROUTE - LOCATION B

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
		LS	1	$0.00	**$0.00**
		LS	1	$0.00	**$0.00**
		LS	1	$0.00	**$0.00**
			SUBTOTAL =		**$0.00**

SR 402 TRUCK ROUTE - LOCATION C

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (5%)	LS	1	$15,000.00	**$15,000.00**
	SHOULDER, CURB AND ADA RECONSTRUCTION	LS	1	$10,000.00	**$10,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$5,000.00	**$5,000.00**
	SIGNALS	EA	4	$200,000.00	**$800,000.00**
			SUBTOTAL =		**$830,000.00**

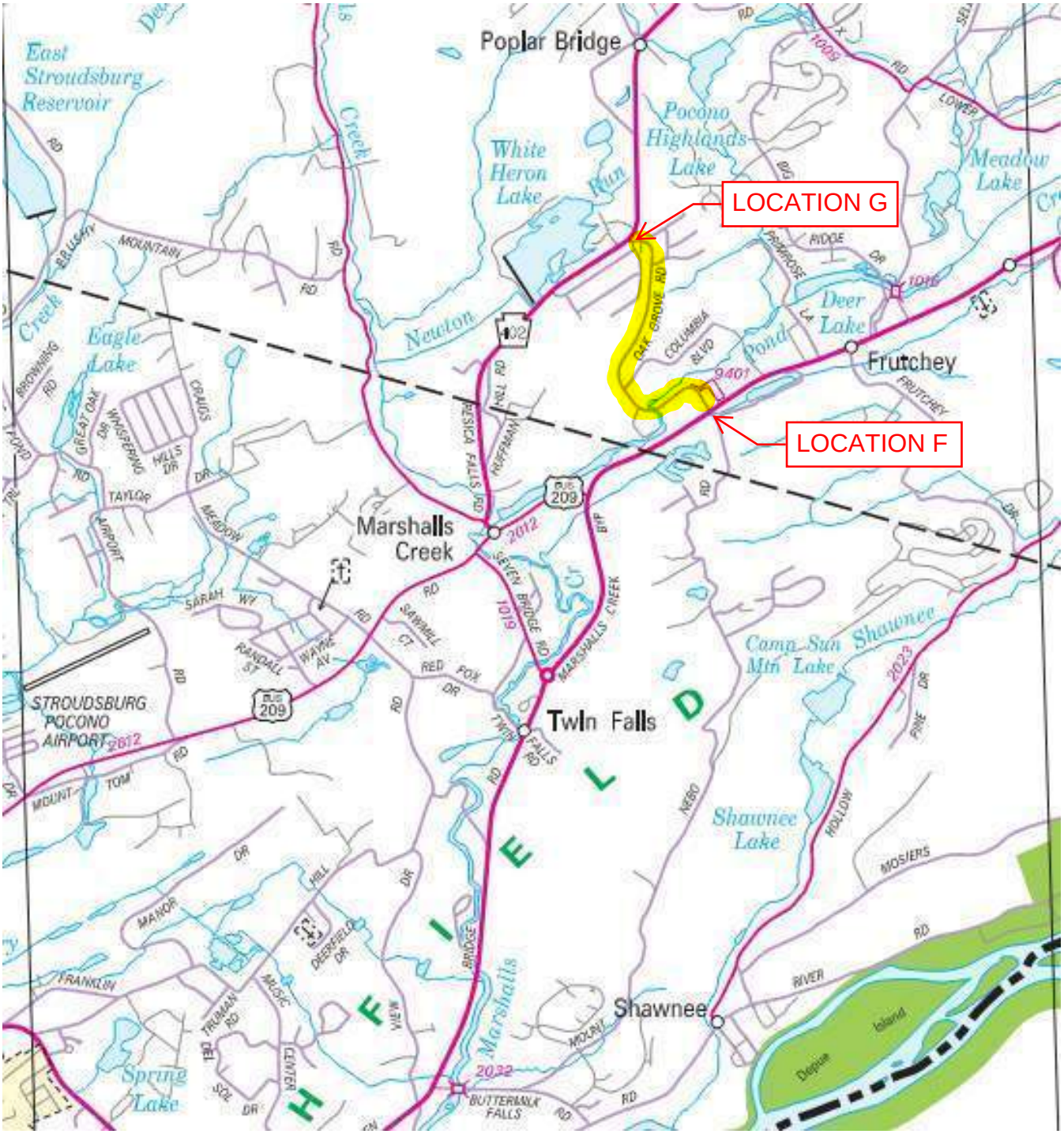
SR 402 TRUCK ROUTE - LOCATION D

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
0201-0001	CLEARING AND GRUBBING	LS	1	$5,000.00	**$5,000.00**
0202-0001	DEMOLITIONS (HOUSE)	LS	1	$30,000.00	**$30,000.00**
0203-0001	CLASS 1 EXCAVATION (CUT)	CY	1020	$50.00	**$51,000.00**
0205-0100	FOREIGN BORROW EXCAVATION (FILL)	CY	350	$55.00	**$19,250.00**
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	1530	$4.00	**$6,120.00**
0313-0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALs, 25.0 MM MIX, 5" DEPTH	SY	1530	$30.00	**$45,900.00**
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	1530	$15.00	**$22,950.00**
0413-0195	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-L	SY	1530	$15.00	**$22,950.00**
0413-6035	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	1530	$22.00	**$33,660.00**
0460-0001	ASPHALT TACK COAT	SY	3060	$1.30	**$3,978.00**
0608-0001	MOBILIZATION (6%)	LS	1	$16,000.00	**$16,000.00**
0609-0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B	LS	1	$10,000.00	**$10,000.00**
0620-1600	TYPE 31-S GUIDE RAIL	LF	50	$25.00	**$1,250.00**
0620-XXXX	BARRIER TRANSITION	EA	4	$3,500.00	**$14,000.00**
0619-0459	IMPACT ATTENUATOR	EA	4	$3,300.00	**$13,200.00**
0686-0020	CONSTRUCTION SURVEYING, TYPE B	LS	1	$10,000.00	**$10,000.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (5%)	LS	1	$15,000.00	**$15,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$10,000.00	**$10,000.00**
	EROSION AND SEDIMENT POLLUTION CONTROL	LS	1	$10,000.00	**$10,000.00**
	POTENTIAL BRIDGE REPLACEMENT*	LS	1	$3,000,000.00	**$3,000,000.00**
	POTENTIAL BRIDGE REHABILITION*	LS	1	$1,500,000.00	**$1,500,000.00**
	*BASED ON SUMMER 2025 FIELD OBSERVATIONS.		**SUBTOTAL =**		**$4,840,258.00**

SR 402 TRUCK ROUTE - LOCATION E

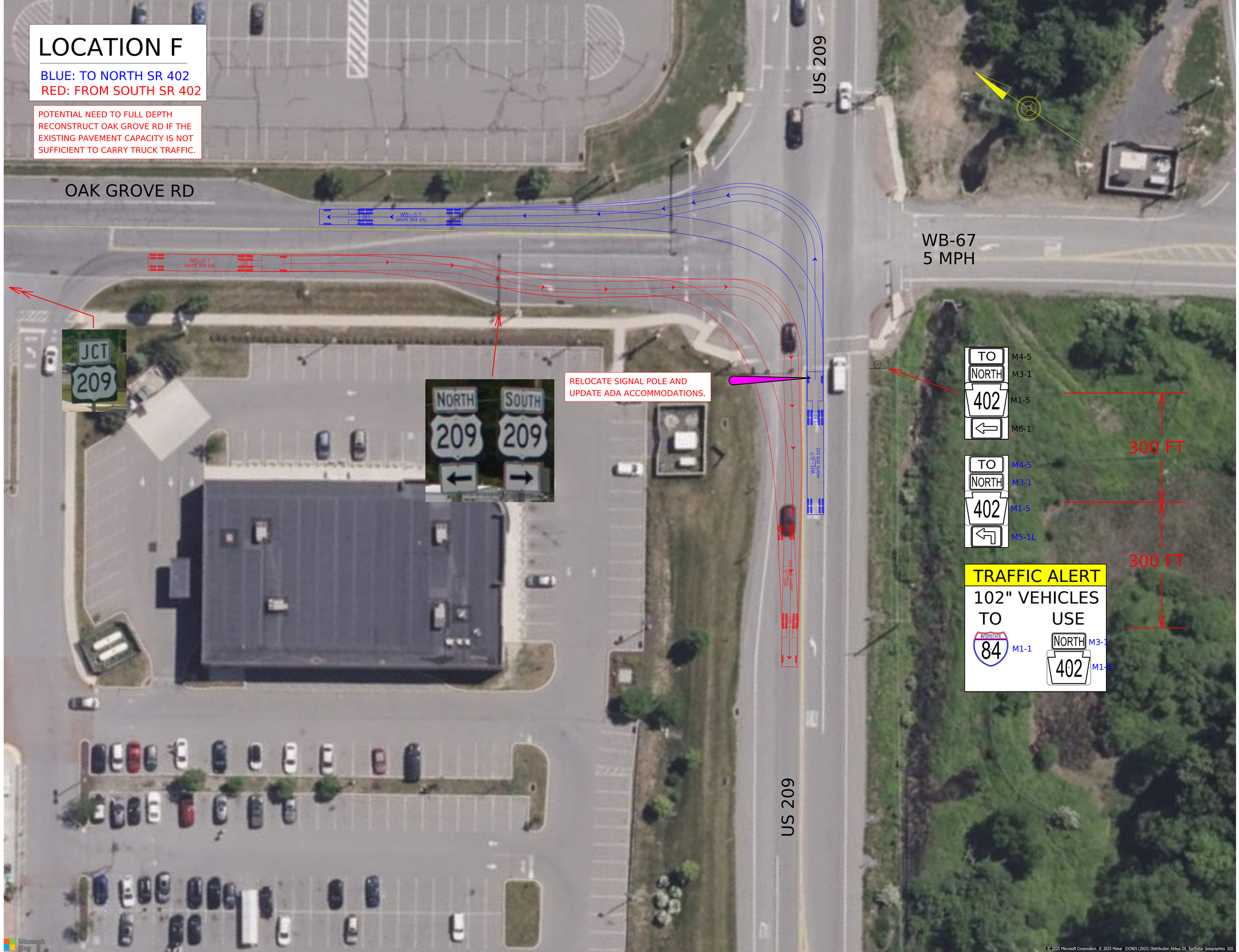
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (5%)	LS	1	$5,000.00	**$5,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$5,000.00	**$5,000.00**
		LS	1	$0.00	**$0.00**
			SUBTOTAL =		**$10,000.00**

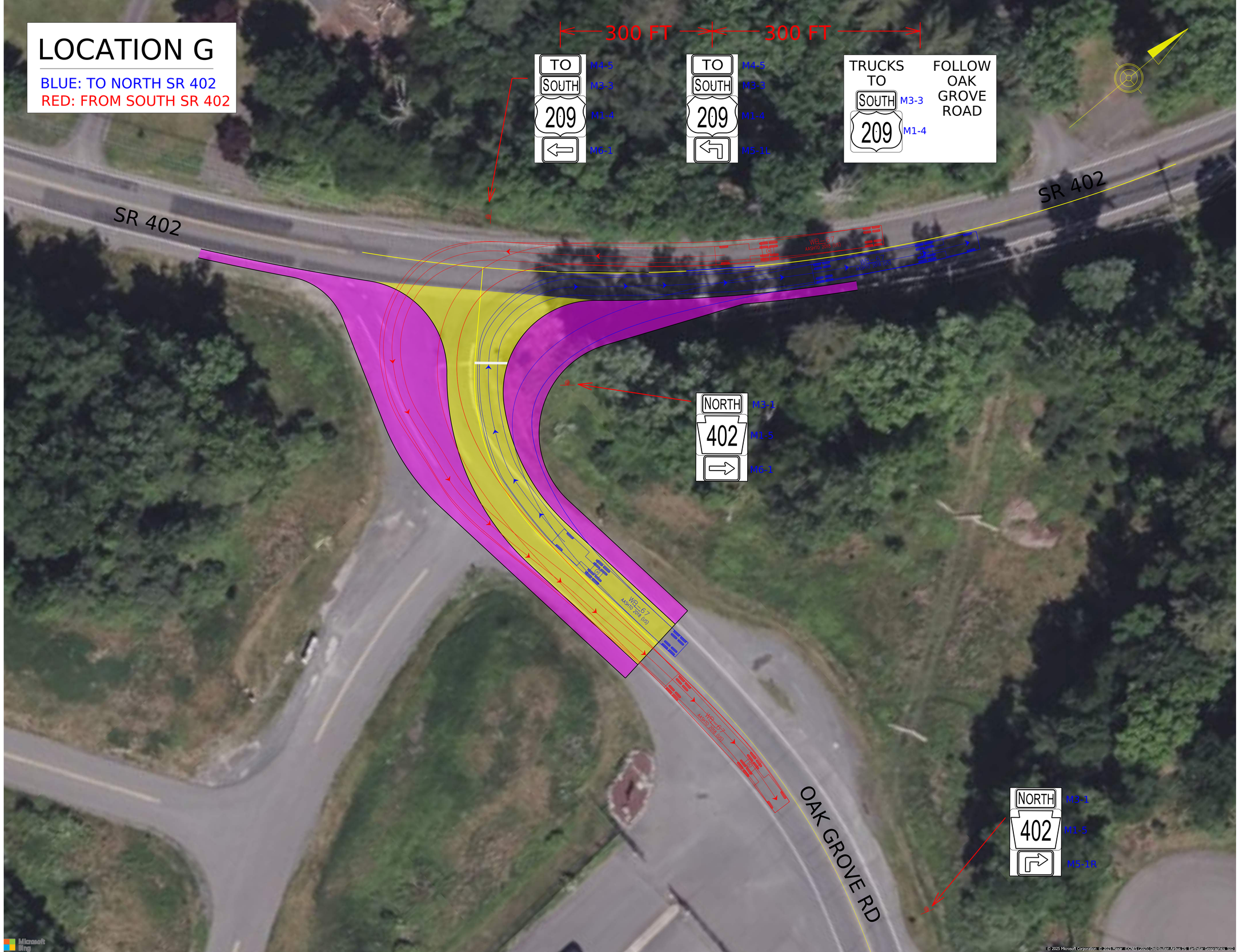
SR 402 TRUCK ROUTE SIGNING PROJECT - OPTION B
(MONROE COUNTY)



YELLOW: ALTERNATIVE ROUTE USING OAK GROVE RD

40FT ROADWAY WIDTH (12FT LANES, 8FT SHOULDERS)


LOCATION F
BLUE: TO NORTH SR 402
RED: FROM SOUTH SR 402
POTENTIAL NEED TO FULL DEPTH RECONSTRUCT OAK GROVE RD IF THE EXISTING PAVEMENT CAPACITY IS NOT SUFFICIENT TO CARRY TRUCK TRAFFIC.
OAK GROVE RD
US 209
WB-67
5 MPH
JCT
209
NORTH
209
SOUTH
209
RELOCATE SIGNAL POLE AND UPDATE ADA ACCOMMODATIONS.
TO
NORTH
402
M4-5
M3-1
M1-5
M6-1
300 FT
TO
NORTH
402
M4-5
M3-1
M1-5
M5-1L
300 FT
TRAFFIC ALERT
102" VEHICLES
TO USE
INTERSTATE
84
M1-1
NORTH
402
M3-1
M1-5
US 209


LOCATION G
BLUE: TO NORTH SR 402
RED: FROM SOUTH SR 402
300 FT
300 FT
TO
SOUTH
209
M4-5
M3-3
M1-4
M6-1
TO
SOUTH
209
M4-5
M3-3
M1-4
M5-1L
TRUCKS TO
SOUTH
209
M3-3
M1-4
FOLLOW OAK GROVE ROAD
SR 402
SR 402
NORTH
402
M3-1
M1-5
M6-1
OAK GROVE RD
NORTH
402
M3-1
M1-5
M5-1R

Oak Grove Road Bridge over Pond Creek

Looking Ahead (1600FT from SR 209)

Looking Back (4800FT from SR 402)

PA 402 TRUCK ROUTE - OPTION B SUMMARY
PRELIMINARY - CONSTRUCTION COST ESTIMATE

By: BPH 4/1/2025
Checked: YLS 6/24/2025

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
LOCATION F	LS	1	$110,000.00	**$110,000.00**
LOCATION G	LS	1	$3,266,790.00	**$3,266,790.00**
		SUBTOTAL =		**$3,376,790.00**
		CONTINGENCY	**30%**	**$1,013,037.00**
			TOTAL =	**$4,389,827.00**
		PRELIMINARY ENGR SERVICES =	**9%**	**$395,084.43**
		FINAL DESIGN SERVICES =	**10%**	**$438,982.70**
		RIGHT-OF-WAY =		**$30,000.00**
		UTILITIES =		
		MITIGATION COMMITMENTS =		
		CONSTRUCTION INSPECTION =	**12%**	**$526,779.24**
			SAY TOTAL =	**$5,790,000.00**

PA 402 TRUCK ROUTE - LOCATION F

By: BPH 4/1/2025 **Checked: YLS 6/24/2025**

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (5%)	LS	1	$5,000.00	**$5,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$5,000.00	**$5,000.00**
	RELOCATE SIGNAL POLE AND UPDATE ADA	LS	1	$100,000.00	**$100,000.00**
				SUBTOTAL =	**$110,000.00**

PA 402 TRUCK ROUTE - LOCATION G

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
0201-0001	CLEARING AND GRUBBING	LS	1	$5,000.00	**$5,000.00**
0203-0001	CLASS 1 EXCAVATION (CUT)	CY	900	$50.00	**$45,000.00**
0205-0100	FOREIGN BORROW EXCAVATION (FILL)	CY	450	$55.00	**$24,750.00**
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	1400	$4.00	**$5,600.00**
0313-0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALs, 25.0 MM MIX, 5" DEPTH	SY	1400	$30.00	**$42,000.00**
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	1400	$15.00	**$21,000.00**
0413-0195	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-L	SY	1400	$15.00	**$21,000.00**
0413-6035	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	1400	$22.00	**$30,800.00**
0460-0001	ASPHALT TACK COAT	SY	2800	$1.30	**$3,640.00**
0608-0001	MOBILIZATION (6%)	LS	1	$15,000.00	**$15,000.00**
0609-0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B	LS	1	$10,000.00	**$10,000.00**
0686-0020	CONSTRUCTION SURVEYING, TYPE B	LS	1	$10,000.00	**$10,000.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (5%)	LS	1	$13,000.00	**$13,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$10,000.00	**$10,000.00**
	EROSION AND SEDIMENT POLLUTION CONTROL	LS	1	$10,000.00	**$10,000.00**
	POTENTIAL FULL DEPTH RECONSTRUCTION TO ACCOMODATE TRUCK TRAFFIC	LS	1	$3,000,000.00	**$3,000,000.00**
				SUBTOTAL =	**$3,266,790.00**

APPENDIX B

SR 2001 / 2004 INTERSECTION INTERIM ADVANCED WARNING SIGNING PROJECT

SR2001 – SR2004 INTERSECTION INTERIM ADVANCED WARNING SIGNING PROJECT

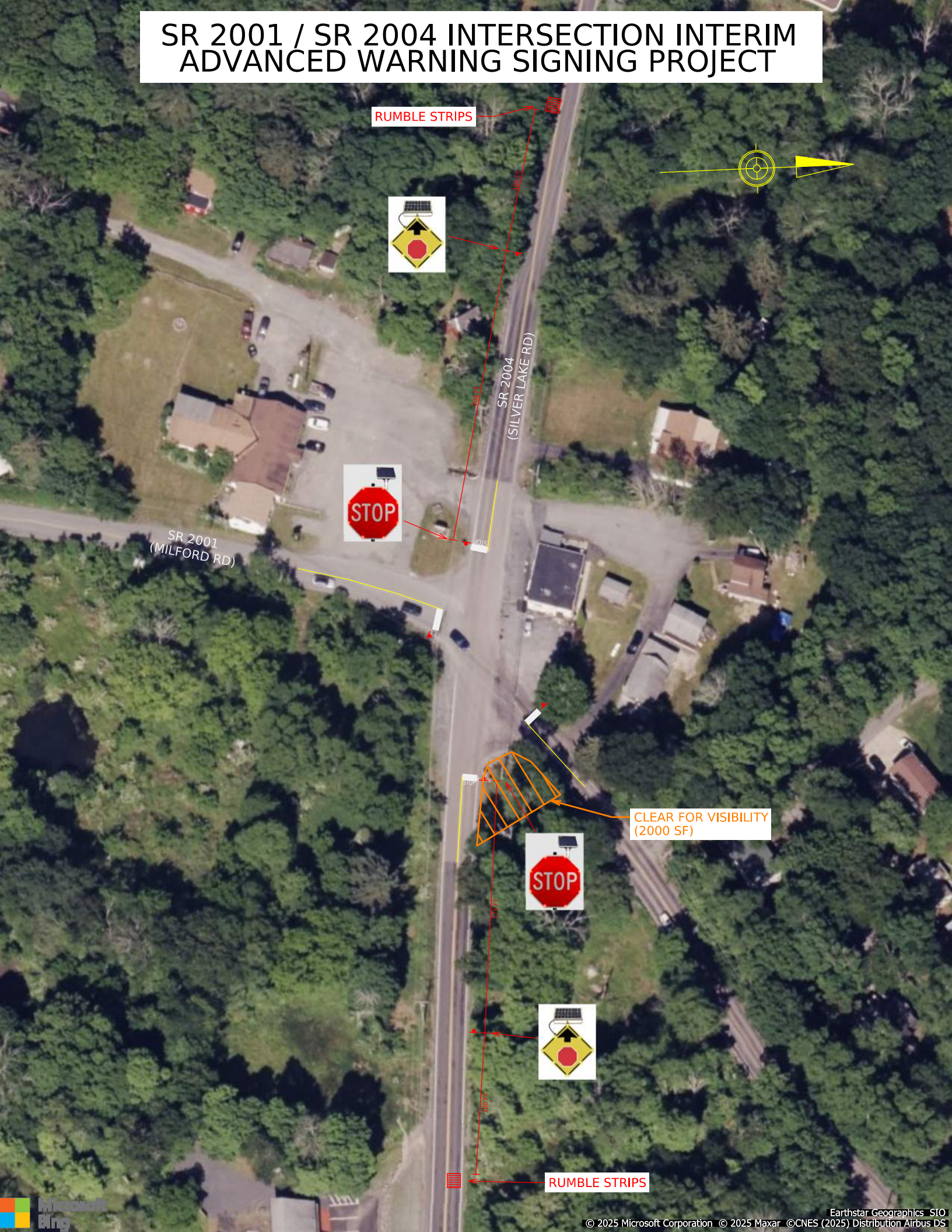
IMPROVEMENTS

In order to improve driver awareness of the four-way stop, LED border lit signs are proposed for the Stop (R1-1) and Stop Ahead (W3-1) signs on SR 2004. Installation of painted "STOP" markings and milled transverse rumble strips are also proposed. Clearing and grubbing is proposed in the northeast quadrant of the intersection to improve sight distance visibility.

CONSTRUCTION COST ESTIMATE

ITEM	UNIT	QTY	UNIT COST	COST
LED BORDER LIT SIGN, POST MOUNTED SIGN, TYPE C "STOP", R1-1, 30"X30"	EA	2	$7000	$14,000
WHITE THERMOSPLASTIC LEGEND "STOP", 8'-0"	EA	2	$300	$600
LED BORDER LIT SIGN, POST MOUNTED SIGN, TYPE C "STOP AHEAD", W3-1, 36"X36"	EA	2	$7000	$14,000
MILLED TRANSVERSE RUMBLE STRIPS 10'X10'	LF	200	$20	$4,000
CLEARING & GRUBBING	SF	2000	$0.20	$400
			SUM =	$33,000
			Plus 30%	$9,900
			TOTAL =	**$42,900**

SR 2001 / SR 2004 INTERSECTION INTERIM ADVANCED WARNING SIGNING PROJECT



- Click a tab to locate approved materials in Bulletin 14 (Aggregate), Bulletin 15 (Qualified Products List for Construction), Bulletin 41 (Asphalt) or Bulletin 42 (Concrete).
- Enter search criteria in one or more fields. Click Search to view the results. Click Reset to start over.
- Map views are not available for searches performed with the Address filter. Map views only display results for Suppliers who have map coordinates on file and may not represent all search results.

Bulletin – Search Criteria

Bulletin 14 (Aggregate) | Bulletin 15 (Qualified Products List for Construction) | Bulletin 41 (Asphalt) | Bulletin 42 (Concrete)

Bulletin 15 Full Report (PDF)

Supplier Name:

Supplier Code:

Section/Product: LED Border Lit Sign

Trade Name:

To search all Suppliers, regardless of location, do not include a Map or Address filter.

Map Location / Address: ◯ Map Location ◯ Address

Search Reset

Search Results

Compare Select All Clear Selection

11 Products Found

- To display item details, click the arrow (>) beside one or more rows. To view the details for all rows, click the arrow (>) at the top of grid.
- To compare details side-by-side, click the checkboxes beside two or more rows. Click Compare.
- Click Select All to select all results. Click Clear Selection to clear all selections.

		Supplier Name	Supplier Code	Product Name	Trade Name
>	☐	TraffiCalm Systems	TRAFF 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	TraffiCalm Flashing Sign Systems
>	☐	Carmanah Technologies Corporation	CARMH 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	LED Enhanced Signs
>	☐	Solar Thingz, Inc DBA LED Lighting Solutions	LLS-1 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	36" Solar Powered Flashing LED Octagon Stop Sign (Product Code: CSTP036, MUTCD Code: R1-1)
>	☐	Carmanah Technologies Corporation	CARM2 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	R247-MX LED Sign Module
>	☐	Solar Thingz, Inc DBA LED Lighting Solutions	LLS-1 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	Double 8" Solar LED Flashing Warning Beacon (Product Code: CFLBC08-Y-DH)
>	☐	RTC Manufacturing Inc.	RTC-M 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	RTC EdgeLight STOP Signs (MUTCD R1-1 compliant)
>	☐	RTC Manufacturing Inc.	RTC-M 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	RTC EdgeLight Warning Signs (MUTCD W1 & W11 compliant)
>	☐	RTC Manufacturing Inc.	RTC-M 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	RTC EdgeLight School Zone Signs (MUTCD S1-1 and S5-1 compliant)
>	☐	Solar Thingz, Inc DBA LED Lighting Solutions	LLS-1 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	30" Solar Powered Flashing LED Octagon Stop Sign (Product Code: CSTP001, MUTCD Code: R1-1)
>	☐	Solar Thingz, Inc DBA LED Lighting Solutions	LLS-1 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	W11-2 Pedestrian Crossing Sign - 30" Solar Flashing LED Crosswalk Traffic Safety Sign (CCRS002-030)
>	☐	Solar Thingz, Inc DBA LED Lighting Solutions	LLS-1 15	1103.03(g) to (n) Electrically Powered Traffic Signs - LED Border Lit Sign	W2-1 Intersection Ahead Sign - 30" Solar Powered Flashing LED

Session timeout in 1:06:32.

FLASHING SIGN SYSTEMS

TRAFFICALM®
A Pelco Products Company

01/01/2023

E.5676 Seltice Way Post Falls, ID 83854 | 1-855-738-2722 | sales@trafficalm.com
www.TraffiCalm.com

Flashing Sign Systems

TRAFFICALM®
A Pelco Products Company

A field retrofit "Sign Enhancement" system that is simple, affordable, and designed for hassle-free installation

The Problem

The traffic industry has long recognized that many sign scenarios (placement, visibility, etc.) are more critically important than others. Some signs simply cannot be ignored. There has been a need in the industry for a simple and affordable way to retrofit existing signs with additional LED warning for those situations that demand them — and to do this in such a way that the additional alert system can be motion activated to conserve power and extend the life of the LEDs.

The Solution — Flashing LED Sign Systems

- LED rings field retrofit onto almost any existing sign
- Very affordable
- 100 Level Auto-dimming
- Solar or AC power options
- Motion activation (Smart Radar Sensor sold separately) or run 24/7
- High intensity LEDs visible day or night (visible up to 2 miles at night)
- Hassle-free installation
- LED flashers mount on existing signs with permanent bonding tape and/or mechanical fasteners
- Scheduling functionality expands system versatility and performance
- Field replaceable batteries
- MUTCD Compliant

Why TraffiCalm®?

ISO 9001:2015 Certified USA based facility

- All signs 100% MUTCD compliant.
- Vandal resistant designs.
- Broadest range of sizes and options in the industry.
- Industry leading turnaround from order to delivery.
- Unlimited tech support and customer service from our USA facility.
- Industry Pioneers in Enhanced Road Signage

Limited Warranty 5 YEAR

Flashing Sign Systems

TRAFFICALM®
A Pelco Products Company

Basic System

Specifically engineered to enhance a single, standalone sign. Examples include Flashing STOP Signs, Flashing Advance Warning Signs, and Flashing Beacons.

Feature Highlights:

- Plug-n-play installation, no programming required
- Affordable implementation, easy installation
- Radar option activates the sign to start flashing when a vehicle approaches
- Battery and solar options for extreme performance

Advanced Intelligent System

Today's pinnacle of Flashing LED signs. Designed to wirelessly unify signs and sensors to provide unparalleled flexibility of application and use. Examples include dynamic curve warning systems with sequential chevrons, conflict intersection warning systems, pedestrian Push-2-Cross systems, over-height warning systems, and road condition warning systems (ice and high water).

All the Benefits of Our Basic System, Plus:

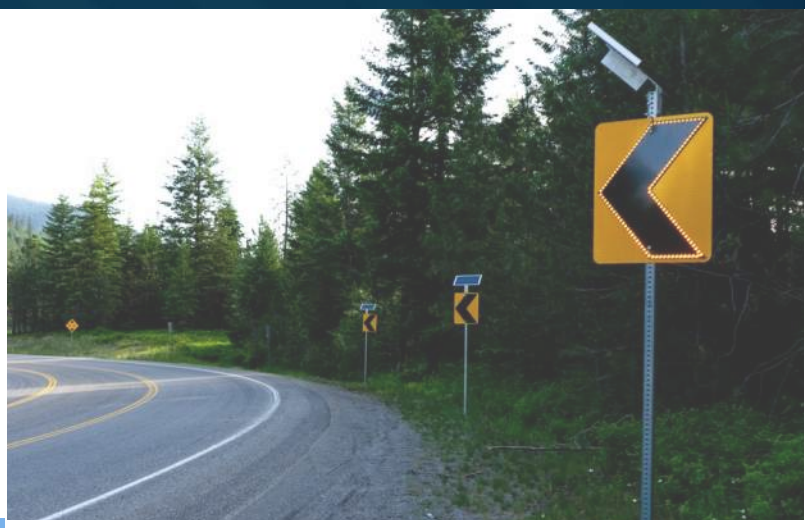
- Radio Collaboration between signs and input sensors
- Configuration of complex scenarios made easy in app
- Fastest implementation with intuitive wireless technology
- Schedulability to warn drivers at just the right times
- Audible Push Button Compatibility
- TraffiCalm® beacon solution integrates seamlessly with sign rings and other flashing sign system solutions

NEED HELP DECIDING?
Call Our Knowledgeable Sales Team at
1-855-738-2722

Flashing Sign Systems

TRAFFICALM®
A Pelco Products Company

Examples of Use



Curve Warning System

Dynamic Curve Warning System with Sequential Chevrons are the ideal MUTCD compliant solution being deployed on roads and highways that have the potential for accidental and/or catastrophic vehicle lane departures.

Solar power and retrofit installations mean that any curve can be enhanced with minimal planning and prep.

Push-2-Cross System

Enhance every pedestrian crossing with easy to install, cutting edge LED signage and brilliant Rectangular Rapid Flashing Beacon (RRFB) technology that cannot be missed. Now compatible with ADA audible and touchless push button activation!

Conflict Intersection Warning System

Where side streets meet highways, collisions represent a common threat. With input-output logic definable, TraffiCalm provides the versatility to warn the right drivers at the right time.

LED-enhanced stop and warning signs based on real-time radar detections from crossing traffic.

Certified System ISO 9001

IMSA PUBLIC SAFETY

ATSSA SAFER ROADS SAVE LIVES

TZD Toward Zero Deaths

E 5676 Seltice Way Post Falls, ID 83854 | 1-855-738-2722 | sales@trafficalm.com
www.TraffiCalm.com

R247-MX

Connected Stop/Warning Beacon or Sign

carmanah®
MX Series

Increase compliance and safety across a range of roadway applications with high-intensity, connected beacons and signs.

- Every system ships with **3 years of free remote connectivity**
- Actionable email and text alerts
- Remote system access via MX Cloud™
- Quick setup and local access with MX Field App™ (iOS/Android)
- 'Smart module' design for simple installation and richer data
- Solar Power Report (SPR) available for every location

Cabinet-based solar and AC (100-240 VAC) available

Free out-of-the-box connectivity

R247-MX systems have connectivity embedded into their design, making installation easy. From the moment a system receives power, it connects both locally to the MX Field App and remotely to MX Cloud, providing easy remote access to system status, settings and data.

Timely and actionable alerts

Cities can enable email and text alerts so they can know the minute there's an issue, be it a knockdown, dead battery or something else. Detailed location and module information reduce downtime and boost site visit efficiency while providing optimal citizen safety.

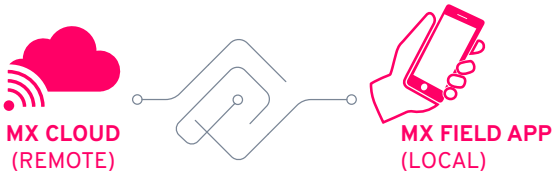
Comprehensive asset visibility and data collection

All MX systems come with MX Cloud, a web-based application that lets users remotely access system locations, alerts, settings and data. The GPS map not only gives cities better visibility, but enables streamlined, proactive asset management and future planning.

Long-lasting, reliable operation

Every MX module is built to last with durable, weatherproof aluminum construction and vandal-resistant wireless antennas. Solar-powered models are solar-sized to project locations, backed by a Solar Power Report (SPR) to prove year-round sustainability.

MX Series
Connective Capabilities



What's a Solar Power Report™ (SPR)?

No matter where you install your solar-powered system, your product should be carefully sized for its location to ensure it will be operational for the long-term.

Over the last 20+ years, our engineers have developed a field-proven software simulation that helps us replicate the real-life conditions of your project location—and determine the best solar-powered solution for your project.

Learn more about our process at **carmanah.com/spr**.

MUTCD
Configurable to MUTCD Standards

Buy America/ BABA compliant

WARRANTY 3 YEARS WARRANTY
3-year limited warranty

R247-MX

Connected Stop/Warning Beacon or Sign

carmanah® MX Series

carmanah.com | traffic@carmanah.com | 1-844-412-8395

MX FLASHER MODULES

MX Beacon Module

MX LED Sign Modules (other signs available)

MX Beacon Module	Configurable to MUTCD 11th Ed. (Chapter 4S) Standard
	12" (305 mm) or 8" (203 mm) diameter LED modules, yellow or red
	Yellow or black heads in UV-resistant polycarbonate or aluminum
MX LED Sign Module	Meets MUTCD 11th Ed. (Chapter 2A.12) Standards
	3M High Intensity Prismatic or Diamond Grade retroreflective sheeting and components UV-resistant polycarbonate channels and waterproof housings protect wiring; includes fully integrated junction box
	Many sign shapes, sizes and configurations available

MX FLASHER MODULE MOUNTING (others available)

Single – Integrated

Dual – Vertical

Dual – Horizontal

Standard Banding

Through Bolt

U-Bolt

WIRELESS COMMUNICATION AND DATA COLLECTION

Local	MX Field App (Bluetooth®)
System-To-System	Linked MX systems flash in sync up to 1,000 ft (305 m) away
Remote	MX Cloud (cellular)
Location & Time	GPS

INCLUDED WITH EVERY SYSTEM

MX Subscriptions	**3 years out-of-the-box remote connectivity with MX Lite** See all MX subscriptions
MX Cloud	MX Cloud for remote health status monitoring, email/SMS alerts, scheduling, asset management, programming and more
MX Field App	Bluetooth® mobile app for on-site setup, local access to default settings, calendar scheduling, system health status and more Download on the App Store · GET IT ON Google Play
Warranty	3-year limited warranty on MX system
	1-year limited warranty on batteries
Support	Carmanah's North American product support technologists available for solution building, solar sizing and troubleshooting
	24/7 access to Carmanah's online Product Support Center
Customize	**Build an R247-MX online**

MX POWER MODULES

Solar	12 VDC operation, solar sized to specific geographic location Includes 12-month Solar Power Report to ensure sustainability
	System designed for 5+ year battery life
	Replaceable, recyclable, sealed, maintenance-free AGM batteries offer the widest temperature range and longest life
AC (only MX 300/400)	100-240 VAC in standard configurations
Construction	Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R)
	Lockable door Cabinet systems include Type II lock option (standard for MX 400)
	Corrosion-resistant aluminum with stainless steel hardware
	Raw aluminum finish or black powder-coated

	MX 100	MX 200	MX 300	MX 400
Type	Integrated solar + battery	Integrated solar + battery	Separate solar + cabinet	Separate solar + cabinet
Housing Dimensions & Weight (w/o batteries)	12.6 x 13.6 x 5.3" 320 x 345 x 135 mm 5 lb (2.3 kg)	30 W version: 18.3 x 15.7 x 5.8" 465 x 399 x 147 mm 11 lb (5.0 kg) 50 W version: 18.3 x 26.3 x 5.8" 465 x 668 x 147 mm 14 lb (6.4 kg)	16.7 x 11.3 x 7.0" 424 x 287 x 178 mm 10 lb (4.5 kg) AC version weight: 12 lb (5.4 kg)	21.9 x 16.1 x 8.3" 556 x 409 x 211 mm 19 lb (8.6 kg) AC version weight: 21 lb (9.5 kg)
Mount Kits	 Top of Pole Mount	 Side of Pole Mount	 Top of Pole Mount	 Side of Pole Mount
	Universal solar mounts: • 2-2.5" perforated square posts • 2.38-2.88" OD round poles • 3.5-4.5" OD round poles • Side of pole		Cabinet mounts: • Standard banding • Through bolts • U-bolts (MX 400 only) Universal solar mounts: • 3.5-4.5" OD round poles • Side of pole	
Batteries	1-2x 7 Ah	1-2x 18 Ah	1x 18, 35 or 55 Ah	1x 35, 55 or 100 Ah
Solar	15 W	30 or 50 W	50, 80 or 170 W	50, 80 or 170 W
Solar Dimensions & Weights	See housing dimensions above	See housing dimensions above	50 W: 26.3 x 21.2" (668 x 538 mm) 10 lb (4.5 kg) 80 W: 30.7 x 26.5" (780 x 672 mm) 13 lb (5.9 kg) 170 W: 59.1 x 26.3" (1500 x 668 mm) 25 lb (11.3 kg)	

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Specifications subject to local environmental conditions, and may be subject to change.

All Carmanah products are manufactured in facilities that are certified to ISO quality standards.

"Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.
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EDGELIGHT™

High-Visibility LED Traffic Signs

RTC's EdgeLight™ technology adds high visibility LED lighting to any custom or standard MUTCD sign, helping to alert motorists of upcoming traffic changes or information. The standard EdgeLight™ product line is designed to be installed at locations with new or existing AC or DC power.

Standard or custom LED patterns available.

RTC-Traffic.com | contact our team at **Info@RTC-Traffic.com** for more information | TOLL-FREE **800.782.8721**

RTC Manufacturing, Inc., 1016 Enterprise Place, Arlington, Texas 76001 | ©2018 RTC Manufacturing, Inc. All Rights Reserved.

18083/0418

EDGELIGHT™
High-Visibility LED Traffic Signs

EdgeLight™ may be added to any MUTCD or custom sign.

EDGELIGHT™ FEATURES AND SPECIFICATIONS

— Add flashing light to custom or standard MUTCD signs
— Designed to be installed at locations with new or existing AC or DC power
— Can incorporate into RTC Guardian™-monitored systems
— High-visibility, 3.1 lumen LEDs with black aluminum housing
— White, amber or red LEDs (based on sign)
— LEDs meet MUTCD specification
— Standard or custom LED patterns available
— Confirmation LED options

APPLICATIONS

Easy solution for adding high-visibility LEDs to:

— School Zone signs
— Speed Limit signs
— Pedestrian Crossing signs (RRFB replacement)
— Stop Signs
— Fire Station Warning signs
— Other MUTCD signs
— ANY custom sign

POWER OPTION

A self-contained system for powering EdgeLight™ signs includes these components:

- Small cabinet with welded pole mount
- 22AH Battery
- Solar panel and solar mount
- Time Switch with programming, flash patterns, and dimming capabilities

— Easy Installation and simple power solution
— Attaches to Unistrut or 4.5" O.D. poles
— EdgeLight™ flashing can be activated via time switch programming or push button (sold separately)
— Time Switch accessed and programmed via serial cable and laptop using RTC Connect™
— EdgeLight™ sign can stand alone or be paired with traditional beacons or RRFBs

RTC-Traffic.com | contact our team at **Info@RTC-Traffic.com** for more information | TOLL-FREE **800.782.8721**
RTC Manufacturing, Inc., 1016 Enterprise Place, Arlington, Texas 76001 | ©2018 RTC Manufacturing, Inc. All Rights Reserved.

18083/0418

30" SOLAR POWERED FLASHING STOP SIGN

- Our bright LED flashing Stop Sign is part of our solar traffic safety series
- This sign's bright flashing LED lights and reflective 3M material can be seen from over 2500ft
- Made with an aluminum alloy board and solar board to MUTCD (R1-1) specifications
- These signs are used to warn drivers that there is a Stop Sign, and they should come to a complete stop. Many cities, companies, and industries use this at new and existing intersections

PRODUCT APPLICATIONS

Solar LED Traffic Safety Sign can be used on streets, in parking lots and more. Since these are solar powered, they can be used anywhere there is sun light. This product is very simple to install and use.

INCLUDES:

- **SIGN**
- **SOLAR PANEL + INTERNAL BATTERY BACKUP**
- **MOUNTING HARDWARE**

DOES NOT INCLUDE POLE

PRODUCT SPECIFICTIONS

TYPE: Solar LED 30” Stop Sign

PRODUCT CODE: CSTP001

MUTCD CODE: R1-1

SOLAR CHARGING PANEL: 15W/18V

FLASH PATTERN: MUTCD Single Flash

BATTERY: Lithium battery 12V/7200mAH

WORKING MODE: 24/7 or Bluetooth controlled via 'TT Solar' Android App (Timer and Dimming Function)

SIGN MATERIAL:

- Engineer Grade Reflective Sheeting
- Diamond Grade Reflective Sheeting

VISIBLE DISTANCE: >2500 feet

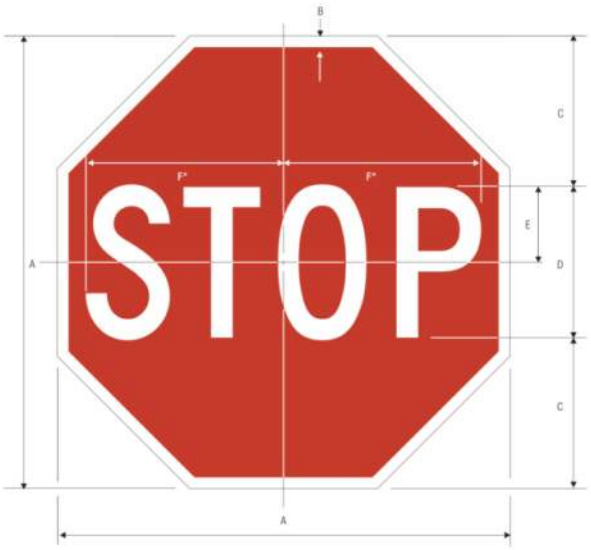
WORKING TIME: After one full charge, 5-7 consecutive days

BATTERY LIFE SPAN: 3-5 Years

WARRANTY: 3 Year Full Warranty

DIMENSIONS:

- **SIGN:** 30-inch Diamond (30"x30")
- **CONTROL BOX:** 13.75" x 12" x 1.75"



R1-1
STOP

*Reduce spacing 40%

	A	B	C	D	E	F
	18	.375	6	6 C	3	7.75
	24	.625	8	8 C	4	10
C	30	.75	10	10 C	5	12.5
	36	.875	12	12 C	6	15
	48	1.25	16	16 C	8	20

FREQUENTLY ASKED QUESTIONS

Q: What is the difference between Engineer Grade and Diamond Grade?

A: Engineer Grade sheeting comes standard on the sign and uses glass beads or prismatic optical technology to reflect light. The Diamond Grade sheeting option offers superior reflectivity for short and long distances.

Q: Would any pole work with this sign?

A: We offer hardware that fits up to a 4” round pole for our Legacy series flashing signs. Our new slim line, Helios Series does not come with hardware, but BOTH styles are easy to install and compatible with any standard traffic post (Telspar, u-channel, round straight, etc.).

Q: Can the sign be AC powered?

A: Yes! It can be either AC or Solar with Solar power being our most popular and standard stock option.

Q: Do you have a video of the sign operating?

A: Yes, we have several set-up and un-boxing videos on our YouTube channel and under the product listing on our website.

Q: Where is the connector cord on the sign?

A: The connector cord comes out from the top/side of the sign unit.

Q: What is the operational expectancy for each sign series?

A: Both our sign series solar versions are expected to operate fully for 3-5 years (depending on environment and usage). The solar panel/control box then can be replaced to give the sign an additional 3-5 years working expectancy.

Q: Can I order a custom sign?

A: We offer custom signs on both our Legacy signs and Helios Series.

INSTALLATION:

Q: Do the solar panel/control boxes work immediately or do they have to charge up first?

A: Like all solar products, they are made with a rechargeable battery that will need to be laid in bright sunshine to obtain an initial charge before operation. Once the control box has been charged for 2 full sunny days, it can be activated for use with the traffic sign.

Q: Where is the solar panel mounted?

A: We recommend mounting it as high as you can on your signpost facing optimal sunlight and best distance to connect to the sign.

Q: How easy is it to hook up the solar powered signs?

A: Very easy! Our solar LED signs are designed to be “plug and play” with minimal set-up. After the solar control box has completed its initial charge, the sign and control box can be installed. Then the 2 cords connect and are good to operate from there.

OPERATION:

Q: Can this sign be turned on and off with an app or laptop?

A: Yes. We offer an app for Android users that can operate the sign’s solar control box via Bluetooth app with on/off functions, timer options and dimming options. It must be a device that supports APK files, and the user must be within 55ft to manage changes.

Q: Does the solar sign have an App for iPhone/iOS?

A: No, only Android/APK file compatible devices for now. We are in development for an iOS/iPhone app. The standard solar box that accompanies this product will operate 24/7 factory standard, and any adjustments can only be made with the Android (APK) app.

Q: Does the solar sign shut off in the daytime?

A: Standard operation for the solar Bluetooth control box will be 24 hours unless adjusted within the Android phone/tablet app.

Q: Can I program it to function at specific times or just come on after dark?

A: The functionality and operation times can be adjusted with the programmable timer via the free Android app.

Q: What flash pattern does the sign use?

A: The sign features a single-pulse flash pattern within the MUTCD frequency requirements of 50 to 60 flashes per minute to avoid epileptic issues and other optical issues.

36" SOLAR POWERED FLASHING STOP SIGN

- Our bright LED flashing Stop Sign is part of a solar traffic safety series
- This sign's bright flashing LED lights and reflective 3M material can be seen from over 2500ft and makes for a great addition for safety pertaining to reducing speed ahead
- Made with an aluminum alloy board and solar board to MUTCD (R1-1) specifications
- These signs are used to warn drivers that there is a Stop Sign coming up and they should begin slowing down. Many cities, companies, industries use this for new stop signs or when stop sign is blocked from drivers seeing.

PRODUCT APPLICATIONS

Solar LED Traffic Safety Sign can be used on streets, in parking lots and more. Since these are solar powered, they can be used anywhere there is sun light. This product is very simple to install and use.

INCLUDES:

- **SIGN**
- **SOLAR PANEL**
- **MOUNTING HARDWARE**
- **INTERNAL BATTERY BACKUP**

DOES NOT INCLUDE POLE

PRODUCT SPECIFICTIONS

TYPE: Solar LED 36” Stop Sign

PRODUCT CODE: CSTP036

MUTCD CODE: R1-1

SOLAR CHARGING PANEL:12V, 5w Monocrystalline silicone

COLOR RANGE: Yellow

WORKING MODE: All Day or Just Evening, flashing

BATTERY: Lithium battery 7.4V/4400AH

VISIBLE DISTANCE: >2500 feet

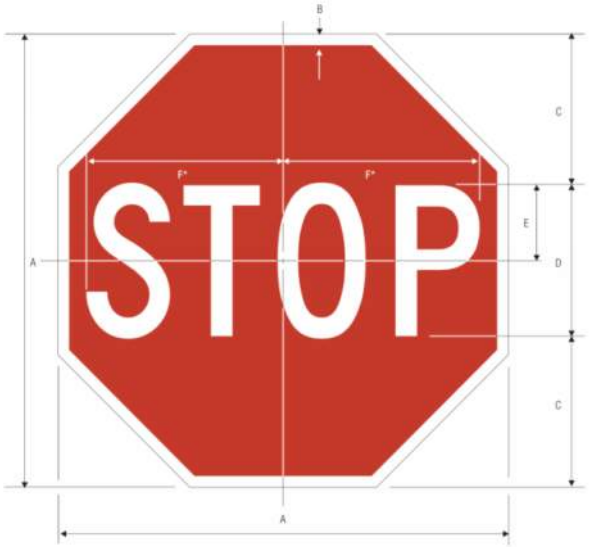
WORKING TIME: After one full charge, 5-7 consecutive days

BATTERY LIFE SPAN: 3-5 Years

WARRANTY: 3 Year Full Warranty

THE DIMENSIONS: 36-inch Diamond (36"x36")

- **PACKING DIMENSIONS:** 38" x 38" x 6", 1 Piece



R1-1
STOP
*Reduce spacing 40%

	A	B	C	D	E	F
	18	.375	6	6 C	3	7.75
	24	.625	8	8 C	4	10
C	30	.75	10	10 C	5	12.5
	36	.875	12	12 C	6	15
	48	1.25	16	16 C	8	20

These signs are used to warn drivers that there is a Stop Sign coming up and they should begin slowing down. Many cities, companies, industries use this for new stop signs or when stop sign is blocked from drivers seeing. Solar LED Traffic Safety Sign can be used on streets, in parking lots and more. Since these are solar powered, they can be used anywhere there is sun light. This product is very simple to install and use.

MUTCD GUIDELINES

The CSTP036 adheres to the MUTCD Standards found within MUTCD Guidelines Section 2A.07 for Retroreflective and Illumination

- Illumination of a sign by Light emitting diodes (LEDs)
- Sign Element to be Illuminated: (1) Symbol or word message (2) Portions of the Sign border
- LED’s are placed within 1 border unit of border and within words
- LED’s are red in color
- LED’s are within ¼” in width
- LED’s flashing at a rate of 50 times per minute
- Background of sign is standard 3M reflective engineering grade material

- Our bright LED flashing Stop Sign Ahead is part of a solar traffic safety series

- This sign’s bright flashing LED lights and reflective 3M material can be seen from over 2500ft and makes for a great addition for safety pertaining to reducing speed ahead

- Made with an aluminum alloy board and solar board to MUTCD (W3-1) specifications

- These signs are used to warn drivers that there is a Stop Sign coming up and they should begin slowing down. Many cities, companies, industries use this for new stop signs or when stop sign is blocked from drivers seeing.

Solar LED Traffic Safety Sign can be used on streets, in parking lots and more. Since these are solar powered, they can be used anywhere there is sun light. This product is very simple to install and use.

TYPE: Solar LED Traffic Safety Sign
PRODUCT CODE: CSTP003
MUTCD CODE: W3-1
SOLAR CHARGING PANEL:12V, 5w
Monocrystalline silicone
COLOR RANGE: Yellow
WORKING MODE: All Day or Just Evening,
flashing
BATTERY: Lithium battery 7.4V/4400AH
VISIBLE DISTANCE: >2500 feet
WORKING TIME: After one full charge, 5-7
consecutive days
BATTERY LIFE SPAN:3-5 Years
THE DIMENSIONS: 30-inch Diamond (30"x30")

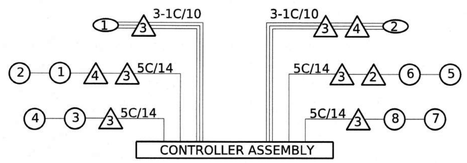
- Packing Dimensions: 32" x 32" x 6", 1 Piece

The CSTP003 adheres to the MUTCD Standards found within MUTCD Guidelines Section 2A.07 for Retroreflective and Illumination

- Illumination of a sign by Light emitting diodes (LEDs)
- Sign Element to be Illuminated: (1) Symbol or word message (2) Portions of the Sign border
- LED's are placed within 1 border unit of border and within words
- LED's are red in color
- LED's are within ¼" in width
- LED's flashing at a rate of 50 times per minute
- Background of sign is standard 3M reflective engineering grade material

PLOTTED: 28-MAR-2024 11:34

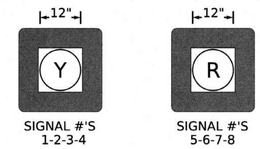
WIRING DIAGRAM



- SIGNAL HEAD
- TRAFFIC SIGNAL SUPPORT
- DETECTOR
- JUNCTION BOX
- LUMINAIRE

5C/14 - CABLE (NO. OF CONDUCTORS/SIZE AWG) * - AS PER MANUFACTURER'S SPECIFICATIONS

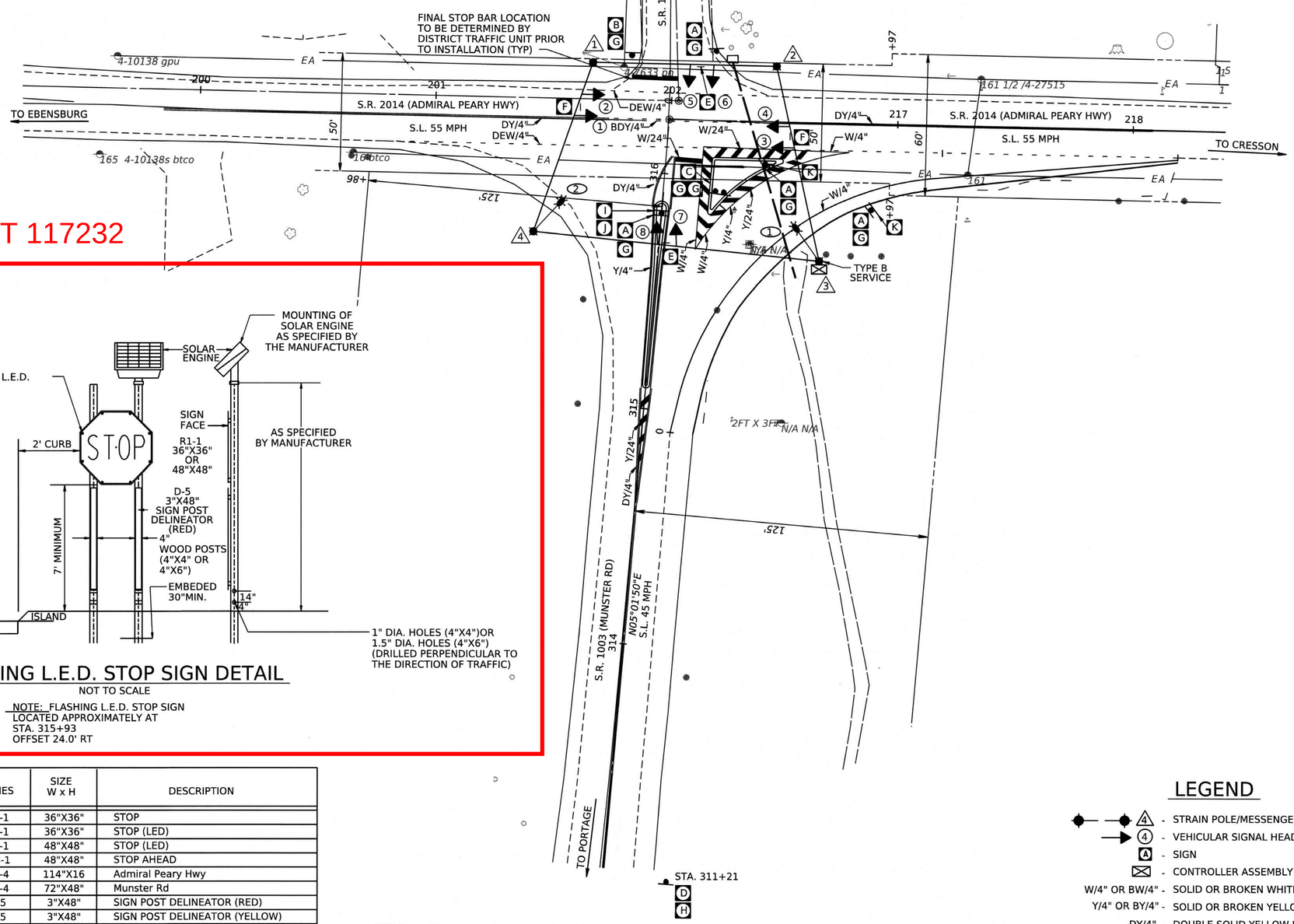
SIGNAL REQUIREMENTS



NOTES:
1. ALL TRAFFIC SIGNALS TO BE EQUIPPED WITH TUNNEL VISORS, ONE PIECE ALUMINUM BACKPLATES WITH LOUVERS AND 2" WIDE FLUORESCENT YELLOW RETROREFLECTIVE BORDER.

FLASHING OPERATION

SIGNAL #'S	FLASHING
1-2-3-4	Y
5-6-7-8	R



FLASHING L.E.D. STOP SIGN DETAIL

NOT TO SCALE

NOTE: FLASHING L.E.D. STOP SIGN LOCATED APPROXIMATELY AT STA. 315+93 OFFSET 24.0' RT

SIGNS

PLAN SYMBOL	SERIES	SIZE W x H	DESCRIPTION
A	R1-1	36"X36"	STOP
B	R1-1	36"X36"	STOP (LED)
C	R1-1	48"X48"	STOP (LED)
D	W3-1	48"X48"	STOP AHEAD
E	D3-4	114"X16	Admiral Peary Hwy
F	D3-4	72"X48"	Munster Rd
G	D-5	3"X48"	SIGN POST DELINEATOR (RED)
H	D-5	3"X48"	SIGN POST DELINEATOR (YELLOW)
I	R4-7	24"X30"	KEEP RIGHT
J	OM1-3	18"X18"	OBJECT MARKER
K	R5-1	30"X30"	DO NOT ENTER

LEGEND

- STRAIN POLE/MESSENGER CABLE
- VEHICULAR SIGNAL HEAD
- SIGN
- CONTROLLER ASSEMBLY
- W/4" OR BW/4" - SOLID OR BROKEN WHITE LINE/WIDTH
- Y/4" OR BY/4" - SOLID OR BROKEN YELLOW LINE/WIDTH
- DY/4" - DOUBLE SOLID YELLOW LINE/WIDTH
- LUMINAIRE

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	CAMBRIA	0422	10S	1 OF 3

MUNSTER TOWNSHIP

PERMIT NO.: 9-3-112 SHEET 2 OF 2

DATE ISSUED: 10/30/1987 DATE REVISED:

GENERAL NOTES

INSTALL, OPERATE AND MAINTAIN THIS TRAFFIC SIGNAL IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION REGULATIONS ON OFFICIAL TRAFFIC CONTROL DEVICES.

NO MODIFICATION OF THIS INSTALLATION IS PERMITTED UNLESS PRIOR APPROVAL IS GRANTED, IN WRITING, BY THE DEPARTMENT.

ALL MAINTENANCE NECESSARY FOR PROPER VISIBILITY OF THE SIGNALS, INCLUDING TRIMMING TREES, IS THE RESPONSIBILITY OF THE PERMITTEE.

THE PERMITTEE INSTALLS AND MAINTAINS ALL SIGNS AND PAVEMENT MARKINGS INDICATED ON THIS DRAWING WHICH ARE CONSIDERED PART OF THE PERMIT, UNLESS OTHERWISE INDICATED. THE DEPARTMENT MAINTAINS THE LONGITUDINAL PAVEMENT MARKINGS ON STATE HIGHWAYS.

INSTALL POST MOUNTED SIGNALS WITH THE SIGNAL HEADS A MINIMUM OF 2 FEET BEHIND THE FACE OF THE CURB OR EDGE OF THE SHOULDER. ALSO, INSTALL SUPPORT POLES FOR OVERHEAD SIGNALS WITH A MINIMUM HORIZONTAL CLEARANCE OF 2 FEET.

INSTALL SIGNAL HEADS AND SIGNS ERECTED OVER THE ROADWAY WITH THE BOTTOMS NOT LESS THAN 15 FEET NOR MORE THAN 19 FEET ABOVE THE ROADWAY.

INSTALL POST MOUNTED SIGNAL HEADS WITH BOTTOMS NOT LESS THAN 8 FEET NOR MORE THAN 15 FEET ABOVE THE SIDEWALK OR PAVEMENT GRADE.

INSTALL SIGNAL HEADS WITH A MINIMUM HORIZONTAL DISTANCE OF 8 FEET BETWEEN THE HEADS AS MEASURED AT RIGHT ANGLES TO THE APPROACH.

IN ADDITION TO THIS SIGNAL PERMIT, THE PERMITTEE MUST OBTAIN A HIGHWAY OCCUPANCY PERMIT PRIOR TO ANY OPENINGS BEING MADE IN OR UNDER ANY PORTION OF A STATE HIGHWAY.

THIS DRAWING CANNOT BE USED AS A CONSTRUCTION DRAWING UNLESS THE PERMITTEE COMPLIES WITH THE PROVISIONS OF ACT 172, PREVENTION OF DAMAGE TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION CONSULT WITH UTILITY COMPANIES TO RESOLVE ANY PROBLEMS WHICH MAY BE CREATED DUE TO THE LOCATION OF UTILITIES.

PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION PAVEMENT MARKING HANDBOOK.

AUTOMATIC CHANGES FROM STOP-AND-GO TO FLASHING OPERATION SHALL BE MADE AT THE END OF THE COMMON MAJOR STREET GREEN INTERVAL.

AUTOMATIC CHANGES FROM FLASHING TO STOP-AND-GO OPERATION SHALL BE MADE AT THE BEGINNING OF THE MAJOR STREET GREEN INTERVAL, PREFERABLY AT THE BEGINNING OF THE COMMON MAJOR STREET GREEN INTERVAL.

PERMITTEE IS RESPONSIBLE FOR OBTAINING APPROVAL FOR INSTALLATION OF TRAFFIC SIGNAL DEVICES LOCATED OUTSIDE HIGHWAY RIGHT-OF-WAY.

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ERNEST A CASCINO No. PE084294

COUNTY: CAMBRIA

MUNICIPALITY: MUNSTER TOWNSHIP

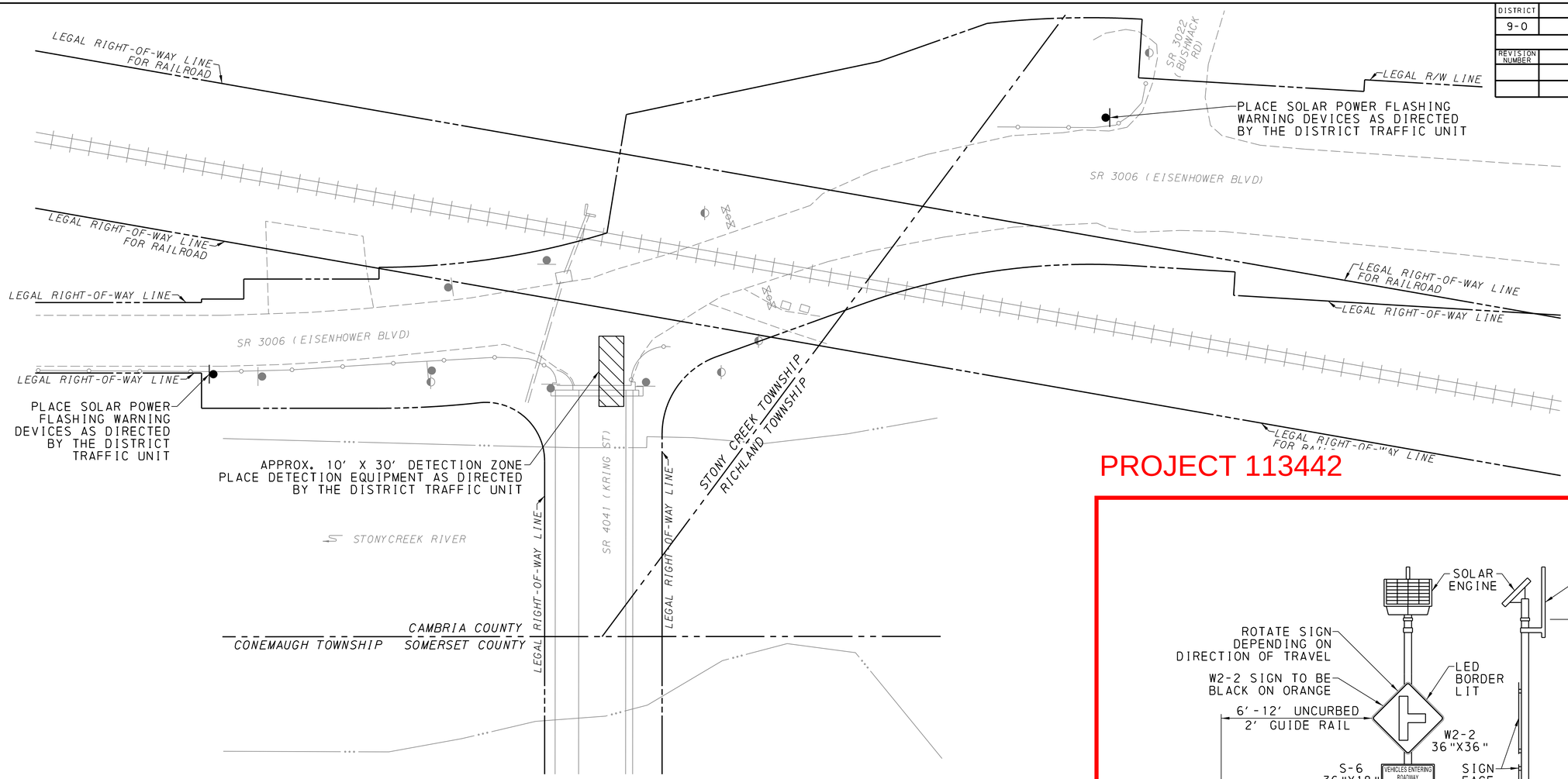
INTERSECTION: SR 2014 (ADMIRAL PEARY HWY) & SR 1003 (MUNSTER RD)

REVIEWED: MUNICIPAL OFFICIAL DATE: 4/3/24

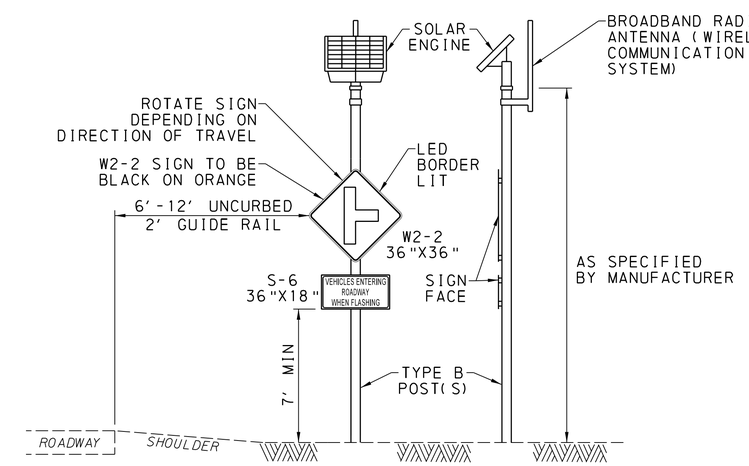
RECOMMENDED: DISTRICT TRAFFIC ENGINEER DATE: 03/28/2024

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	0403	015	62 OF 67
CONEMAUGH TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY

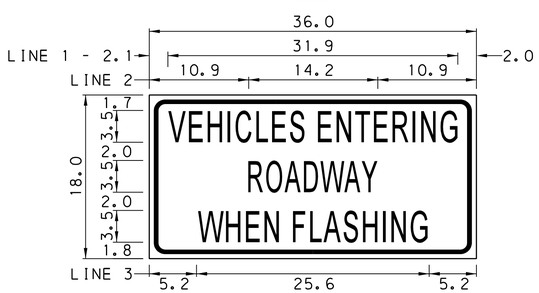


PROJECT 113442



SOLAR POWERED FLASHING WARNING DEVICE
NOT TO SCALE

S-6



3.5" UPPER CASE LETTERS
(SERIES C)
1.0 RADIUS, 0.5 BORDER, BLACK ON ORANGE
* TEXT REDUCED TO 80% WIDTH

V - 2.2
E - 1.9
H - 2.1
I - 1.0
C - 2.0
L - 1.9
E - 1.9
S - 1.5
[SPA] - 3.0
E - 1.9
N - 2.0
T - 1.9
E - 1.9
R - 2.1
I - 1.0
N - 2.1
G - 1.5

TOTAL = 31.9

R - 2.0
O - 2.1
A - 2.2
D - 2.0
W - 2.2
A - 1.9
Y - 1.8

TOTAL = 14.2

W - 2.6
H - 2.1
E - 1.9
N - 1.5
[SPA] - 3.1
F - 1.9
L - 1.5
A - 2.2
S - 2.1
H - 2.1
I - 1.0
N - 2.1
G - 1.5

TOTAL = 25.6

LEGEND

● TYPE B SIGN

LED BORDER LIT SIGN AT INTERSECTION

NOT TO SCALE

(ITEM 4936-0360)

TRAFFIC CONTROL PLAN
STATION 754+96
STATION 796+53
SR 4041/SR 3006

SCALE

0 25 50 FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
NICHOLAS JOHN PUZAK
ENGINEER
No. PE082364

DESIGNED BY: NJP	DRAWN BY: GTE	CHECKED BY: JFB

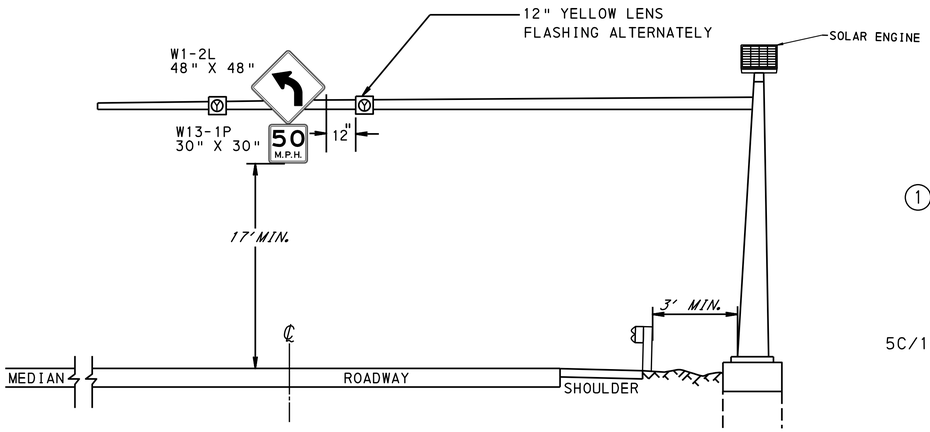
FILE NAME: U:\PennDOT\PennDOT District 09\4235 PA403 Wilbur Rd\4235 PA403 Wilbur Rd Northn\TCP\4235-SR0403 015-TCP Plan Sheets.dgn

PLOTTED: 11/30/2022

PROJECT 91537

I-70 CRYSTAL SPRINGS (EASTBOUND)

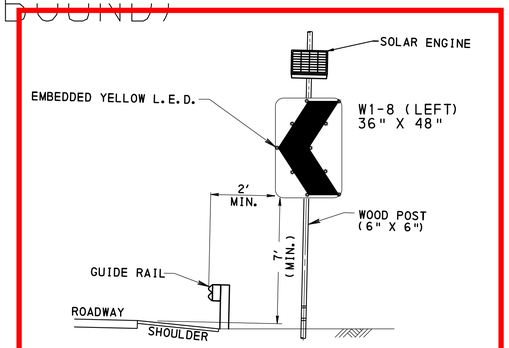
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	FULTON	0070	41T	3 OF 6
BRUSH CREEK TOWNSHIP				



OVERHEAD MAST ARM DETAIL
(EASTBOUND DIRECTION) 1
(NOT TO SCALE)

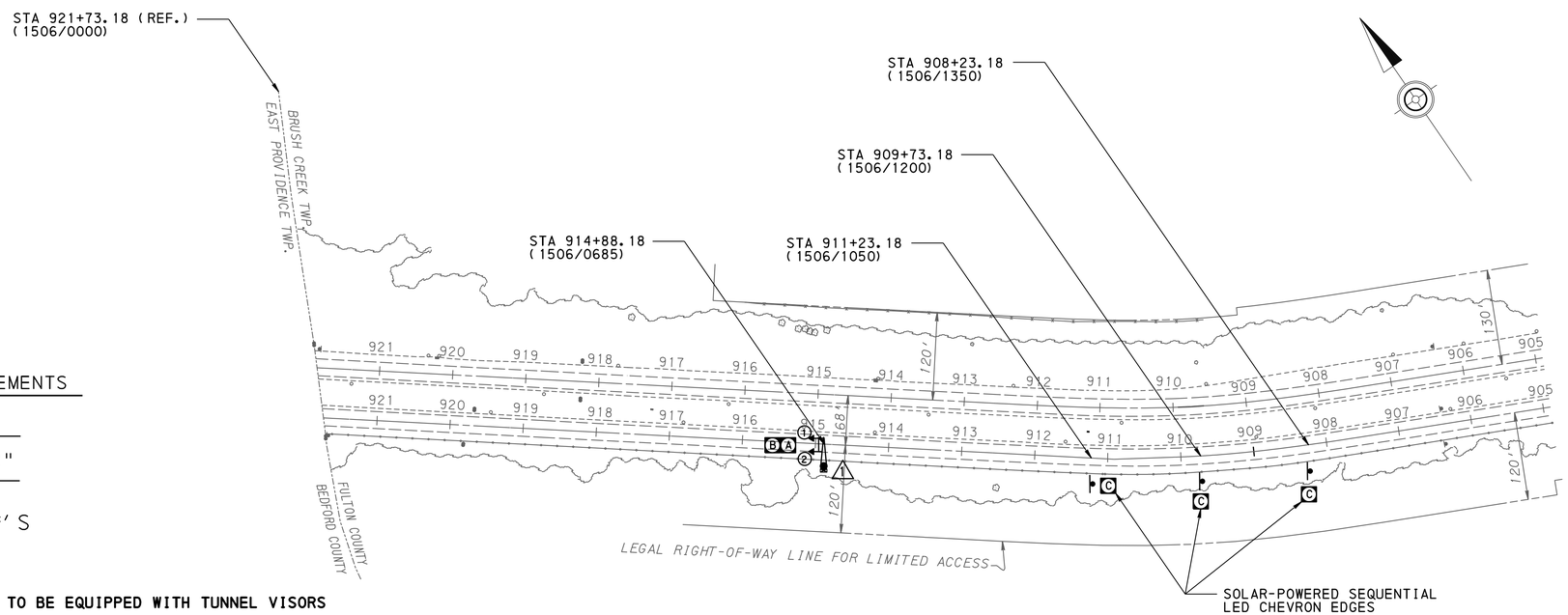
WIRING DIAGRAM

WIRING DIAGRAM
-O- SIGNAL HEAD
5C/14 - CABLE (NO. OF CONDUCTORS/SIZE AWG)

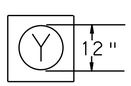


W1-8 (LEFT) LED BORDER DETAIL
(NOT TO SCALE)

SEQUENTIAL FLASHING YELLOW LED
(LEDs TO FLASH SEQUENTIALLY AT ALL TIMES)



SIGNAL REQUIREMENTS



SIGNAL #'S
1-2

NOTE:

1. **ALL TRAFFIC SIGNALS TO BE EQUIPPED WITH TUNNEL VISORS**
2. **ONE PIECE ALUMINIUM BACKPLATES WITH LOUVERS AND 2" WIDE FLUORESCENT YELLOW RETROREFLECTIVE BORDER.**

SIGNS

PLAN SYMBOL	SERIES	SIZE W x H	DESCRIPTION
A	W1-2L	48"X48"	LEFT CURVE (ARROW)
B	W13-1P	30"X30"	50 M.P.H.
C	W1-8	36"X48"	CHEVRON ALIGNMENT (LEFT) W/ LED

LEGEND

- CONTROLLER ASSEMBLY
- 4 - MAST ARM
- A - SIGN
- 4 - VEHICULAR SIGNAL HEAD

COUNTY : FULTON
MUNICIPALITY : BRUSH CREEK TOWNSHIP
INTERSECTION : I-70 EASTBOUND
(SEG/OFF 1506/0000 THRU 1506/1683)

RECOMMENDED :

DISTRICT TRAFFIC ENGINEER DATE

SCALE : 100

OPERATOR:
FILE NAME: C:\Users\cobeatty\Documents\I-70 ITS Gaps\29 0070 ITS Gaps.dgn
D-9012 CADD (02-90) REVISED (10-04) PLOTTED: 12-SEP-2022 11:54

APPENDIX C

PROJECT #1 – SR 2001 WIDENING & BRIDGE REPLACEMENT PROJECT (HORNBECKS CREEK)

NOT FOR CONSTRUCTION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11-0	PIKE	2001	405	1 OF 1
DELAWARE TOWNSHIP				

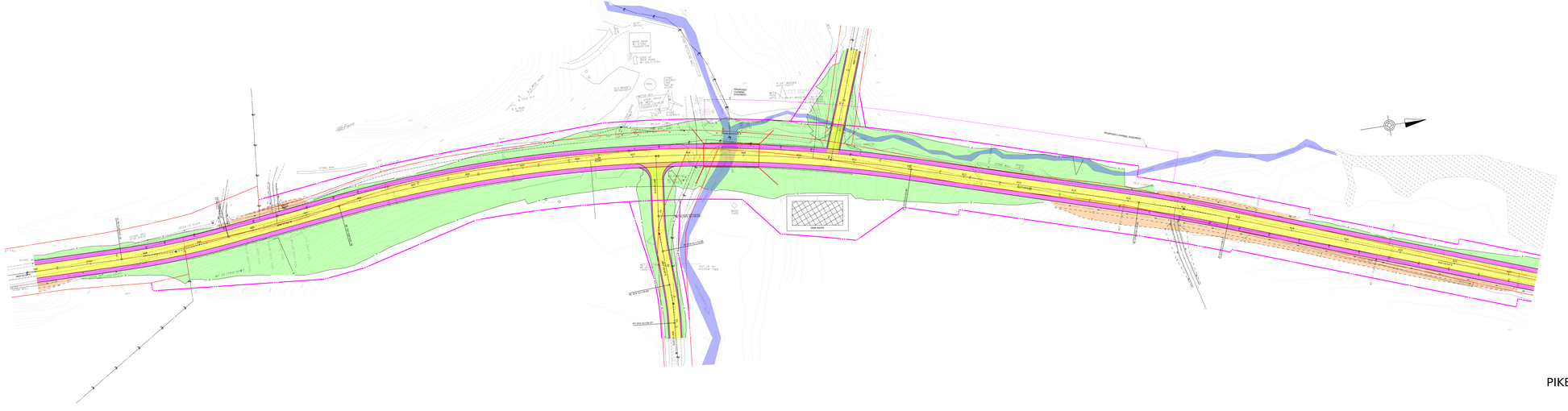
REV	REVISIONS	DATE	BY	APPD

SR 2001 WIDENING & BRIDGE REPLACEMENT PROJECT (HORNBECKS CREEK)

ALTERNATIVE 1 (8% MAX GRADE)

LEGEND

- TRAVEL LANES
- SHOULDERS
- AREA OF FILL
- AREA OF CUT
- STREAM
- WETLAND
- GUIDE RAIL
- PROPOSED RIGHT-OF-WAY LINE
- *LEGAL RIGHT-OF-WAY LINE*
- *PROPERTY LINE*
- STORMWATER MANAGEMENT BASIN



SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PLAN
SCALE: 1" = 25'

PLOTTED: 10/24/2019
FILE NAME: 2001_ALT1.DGN

NOT FOR CONSTRUCTION

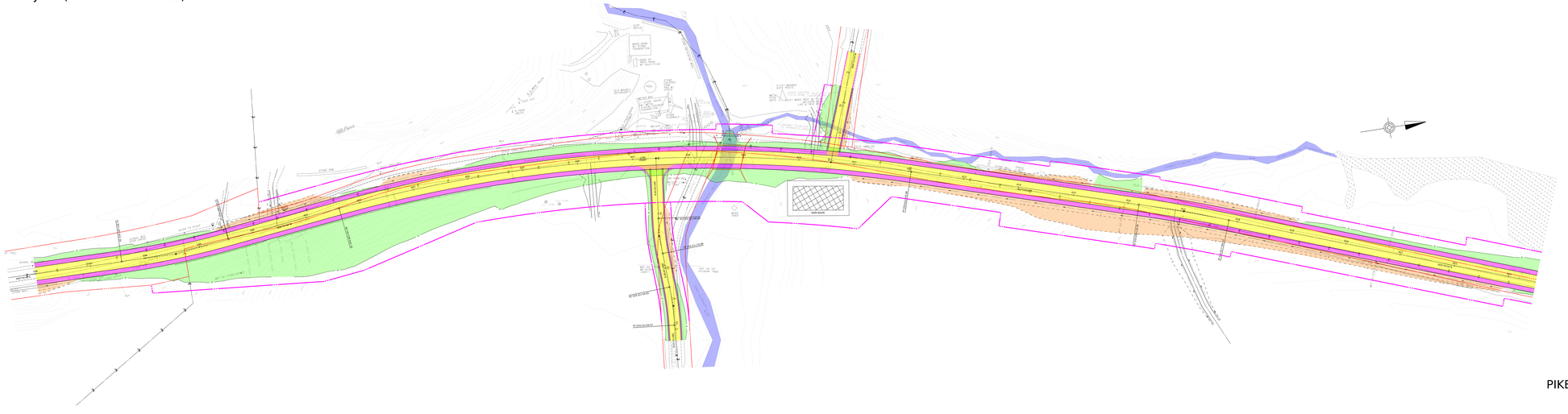
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	PIKE	2001	405	1 OF 1
DELAWARE TOWNSHIP				
REV	REVISIONS		DATE	BY - APPD

SR 2001 WIDENING & BRIDGE REPLACEMENT PROJECT (HORNBECKS CREEK)

ALTERNATIVE 2 (10% MAX GRADE)

LEGEND

- TRAVEL LANES
- SHOULDERS
- AREA OF FILL
- AREA OF CUT
- STREAM
- WETLAND
- GUIDE RAIL
- PROPOSED RIGHT-OF-WAY LINE
- *LEGAL RIGHT-OF-WAY LINE*
- *PROPERTY LINE*
- STORMWATER MANAGEMENT BASIN

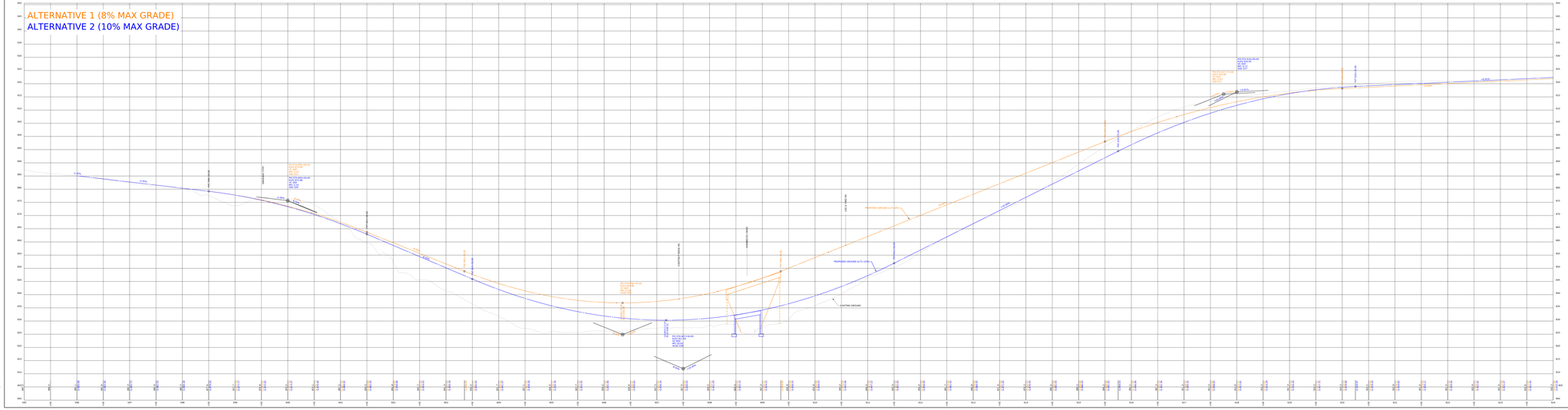

STORMWATER MANAGEMENT BASIN
BEGIN PROJECT
END PROJECT
BEGIN BRIDGE
END BRIDGE
BEGIN CONSTRUCTION
END CONSTRUCTION
BEGIN ROADWAY
END ROADWAY
BEGIN ALIGNMENT
END ALIGNMENT
BEGIN VERTICAL CURVE
END VERTICAL CURVE
BEGIN VERTICAL TANGENT
END VERTICAL TANGENT
BEGIN HORIZONTAL CURVE
END HORIZONTAL CURVE
BEGIN HORIZONTAL TANGENT
END HORIZONTAL TANGENT
BEGIN SUPERELEVATION
END SUPERELEVATION
BEGIN GUIDE RAIL
END GUIDE RAIL
BEGIN DRIVEWAY
END DRIVEWAY
BEGIN PAVEMENT
END PAVEMENT
BEGIN SHOULDER
END SHOULDER
BEGIN DITCH
END DITCH
BEGIN CULVERT
END CULVERT
BEGIN FILL
END FILL
BEGIN CUT
END CUT
BEGIN WETLAND
END WETLAND
BEGIN STREAM
END STREAM
BEGIN PROPERTY LINE
END PROPERTY LINE
BEGIN RIGHT-OF-WAY LINE
END RIGHT-OF-WAY LINE
BEGIN LEGAL RIGHT-OF-WAY LINE
END LEGAL RIGHT-OF-WAY LINE
BEGIN TRAVEL LANES
END TRAVEL LANES
BEGIN SHOULDERS
END SHOULDERS
BEGIN AREA OF FILL
END AREA OF FILL
BEGIN AREA OF CUT
END AREA OF CUT
BEGIN GUIDE RAIL
END GUIDE RAIL
BEGIN STORMWATER MANAGEMENT BASIN
END STORMWATER MANAGEMENT BASIN
BEGIN STREAM
END STREAM
BEGIN WETLAND
END WETLAND

SR 2001 WIDENING & BRIDGE REPLACEMENT PROJECT (HORNBECKS CREEK)

NOT FOR CONSTRUCTION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-5	PIKE	2001	405	11 OF 17

REV	REVISIONS	DATE	BY	APPD



SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PROFILE
HORIZONTAL SCALE: 1" = 25'
VERTICAL SCALE: 1" = 5'

PROJECT #1 - SR 2001 WIDENING & BRIDGE REPLACEMENT (HORNBECKS CREEK)
PRELIMINARY - CONSTRUCTION COST ESTIMATE (ALTERNATIVE 1 - 8%)

By: BPH 4/3/2025
Checked: KMF 3/4/2025

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
0201-0001	CLEARING AND GRUBBING	LS	1	$50,000.00	**$50,000.00**
0202-0001	BRIDGE DEMOLITION	LS	1	$50,000.00	**$50,000.00**
0203-0001	CLASS 1 EXCAVATION (CUT)	CY	6063	$30.00	**$181,890.00**
0205-0100	FOREIGN BORROW EXCAVATION (FILL)	CY	57815	$25.00	**$1,445,375.00**
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	13323	$3.50	**$46,630.50**
0313-0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALs, 25.0 MM MIX, 5" DEPTH	SY	13323	$30.00	**$399,690.00**
0350-0104	SUBBASE 4" DEPTH (NO. 2A)	SY	406	$10.00	**$4,060.00**
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	13323	$13.50	**$179,860.50**
0413-0192	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SY	13323	$15.00	**$199,845.00**
0413-6035	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	13323	$23.00	**$306,429.00**
0460-0001	ASPHALT TACK COAT	SY	26646	$1.00	**$26,646.00**
0609-0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B	LS	1	$20,000.00	**$20,000.00**
0609-0009	EQUIPMENT PACKAGE	LS	1	$3,500.00	**$3,500.00**
0620-1600	TYPE 31-S GUIDE RAIL	LF	860	$25.00	**$21,500.00**
0620-XXXX	BARRIER TRANSITION	EA	4	$3,500.00	**$14,000.00**
0619-0459	IMPACT ATTENUATOR	EA	6	$3,300.00	**$19,800.00**
0686-0020	CONSTRUCTION SURVEYING, TYPE B	LS	1	$20,000.00	**$20,000.00**
0689-0003	CPM SCHEDULE	LS	1	$2,500.00	**$2,500.00**
0690-0002	SEMI-FORMAL FACILITATION	DOLLAR	1500	$1.00	**$1,500.00**
0845-0001	UNFORESEEN WATER POLUTION CONTROL	DOLLAR	15000	$1.00	**$15,000.00**
	STRUCTURE (100' SINGLE SPAN, 43' WIDE, INTEGRAL ABUTMENT)	LS	1	$800,000.00	**$800,000.00**
	DRAINAGE AND STORMWATER MANAGEMENT	LS	1	$977,000.00	**$977,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$10,000.00	**$10,000.00**
	EROSION AND SEDIMENT POLLUTION CONTROL	LS	1	$94,000.00	**$94,000.00**

SUBTOTAL =		**$4,889,226.00**
MOBILIZATION	**6%**	**$293,353.56**
MPT (TRAFFIC CONTROL)	**5%**	**$244,461.30**
CONTINGENCY	**30%**	**$1,628,112.26**
	TOTAL =	**$7,056,000.00**
PRELIMINARY ENGR SERVICES =	**9%**	**$635,040.00**
FINAL DESIGN SERVICES =	**10%**	**$705,600.00**
RIGHT-OF-WAY =		**$1,000,000.00**
UTILITIES =		**$30,000.00**
MITIGATION COMMITMENTS =	**NOT ANTICIPATED**	**$0.00**
CONSTRUCTION INSPECTION =	**12%**	**$846,720.00**
	SAY PRESENT (2025) TOTAL =	**$10,274,000.00**
INFLATION	**3% FOR 10 YEARS**	**$3,533,396.88**
	SAY FUTURE (2035) TOTAL =	**$13,808,000.00**

PROJECT #1 - SR 2001 WIDENING & BRIDGE REPLACEMENT (HORNBECKS CREEK)
PRELIMINARY - CONSTRUCTION COST ESTIMATE (ALTERNATIVE 2 - 10%)

By: BPH 4/3/2025
Checked: KMF 3/4/2025

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
0201-0001	CLEARING AND GRUBBING	LS	1	$40,000.00	**$40,000.00**
0202-0001	BRIDGE DEMOLITION	LS	1	$50,000.00	**$50,000.00**
0203-0001	CLASS 1 EXCAVATION (CUT)	CY	11952	$30.00	**$358,560.00**
0205-0100	FOREIGN BORROW EXCAVATION (FILL)	CY	12278	$25.00	**$306,950.00**
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	13323	$3.50	**$46,630.50**
0313-0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALs, 25.0 MM MIX, 5" DEPTH	SY	13323	$30.00	**$399,690.00**
0350-0104	SUBBASE 4" DEPTH (NO. 2A)	SY	650	$10.00	**$6,500.00**
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	13323	$13.50	**$179,860.50**
0413-0192	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SY	13323	$15.00	**$199,845.00**
0413-6035	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	13323	$23.00	**$306,429.00**
0460-0001	ASPHALT TACK COAT	SY	26646	$1.00	**$26,646.00**
0609-0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B	LS	1	$20,000.00	**$20,000.00**
0609-0009	EQUIPMENT PACKAGE	LS	1	$3,500.00	**$3,500.00**
0620-1600	TYPE 31-S GUIDE RAIL	LF	860	$25.00	**$21,500.00**
0620-XXXX	BARRIER TRANSITION	EA	4	$3,500.00	**$14,000.00**
0619-0459	IMPACT ATTENUATOR	EA	6	$3,300.00	**$19,800.00**
0686-0020	CONSTRUCTION SURVEYING, TYPE B	LS	1	$20,000.00	**$20,000.00**
0689-0003	CPM SCHEDULE	LS	1	$2,500.00	**$2,500.00**
0690-0002	SEMI-FORMAL FACILITATION	DOLLAR	1500	$1.00	**$1,500.00**
0845-0001	UNFORESEEN WATER POLUTION CONTROL	DOLLAR	15000	$1.00	**$15,000.00**
	STRUCTURE (50' SINGLE SPAN, 43' WIDE, FULL HEIGHT ABUTMENT)	LS	1	$1,100,000.00	**$1,100,000.00**
	DRAINAGE AND STORMWATER MANAGEMENT	LS	1	$977,000.00	**$977,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$10,000.00	**$10,000.00**
	EROSION AND SEDIMENT POLLUTION CONTROL	LS	1	$30,000.00	**$30,000.00**

SUBTOTAL =		**$4,155,911.00**
MOBILIZATION	**6%**	**$249,354.66**
MPT (TRAFFIC CONTROL)	**5%**	**$207,795.55**
CONTINGENCY	**30%**	**$1,383,918.36**
	TOTAL =	**$5,997,000.00**
PRELIMINARY ENGR SERVICES =	**9%**	**$539,730.00**
FINAL DESIGN SERVICES =	**10%**	**$599,700.00**
RIGHT-OF-WAY =		**$670,000.00**
UTILITIES =		**$30,000.00**
MITIGATION COMMITMENTS =	**NOT ANTICIPATED**	**$0.00**
CONSTRUCTION INSPECTION =	**12%**	**$719,640.00**
	SAY PRESENT (2025) TOTAL =	**$8,557,000.00**
INFLATION	**3% FOR 10 YEARS**	**$2,942,892.46**
	SAY FUTURE (2035) TOTAL =	**$11,500,000.00**

APPENDIX D

PROJECT #2 – SR 2001 WIDENING & RECONSTRCTION PROJECT (T-314 TO T-325)

SR 2001 WIDENING & RECONSTRUCTION PROJECT (T-314 TO T-325)

NOT FOR CONSTRUCTION

DATE	COUNTY	ROUTE	SECTION	SHEET	TOTAL
	PIKE	SR 2001	405		

NO.	DATE	REVISION	INITIAL
1			
2			
3			
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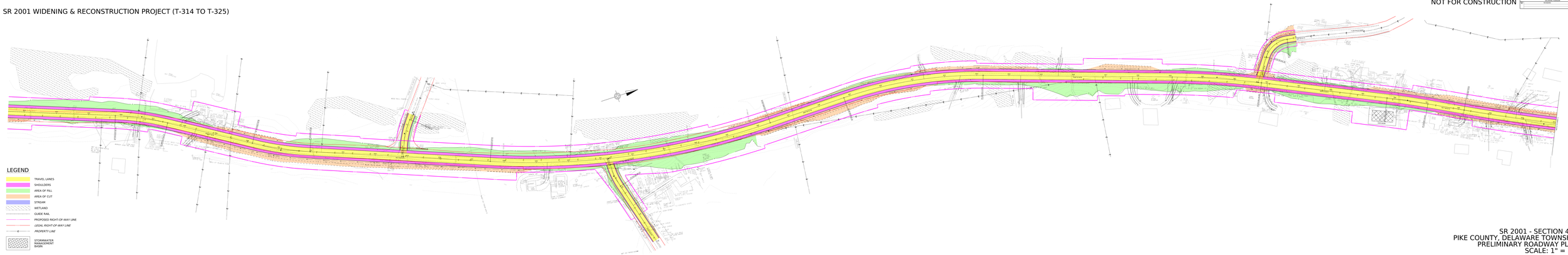

SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PLAN
SCALE: 1" = 25'

SR 2001 WIDENING & RECONSTRUCTION PROJECT (T-314 TO T-325)

NOT FOR CONSTRUCTION

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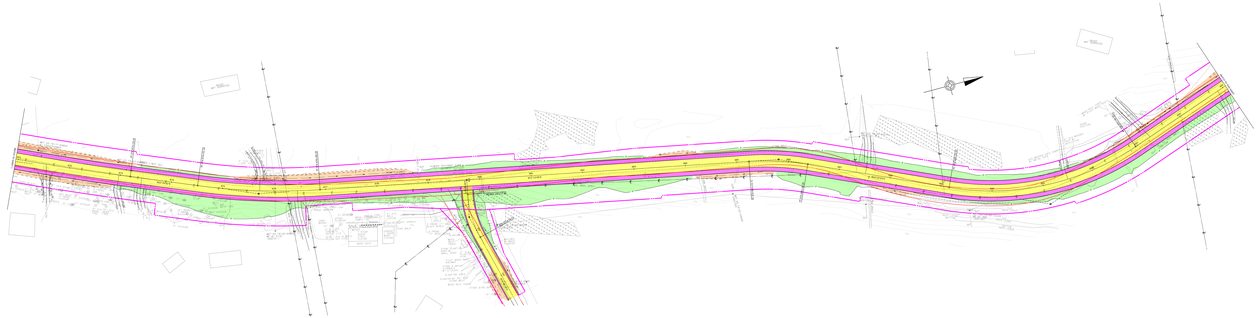
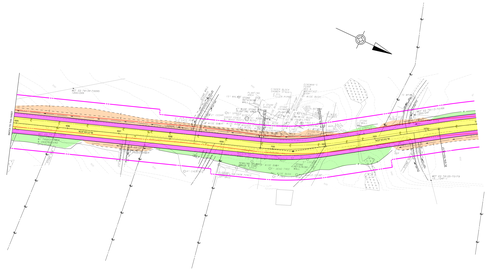




LEGEND

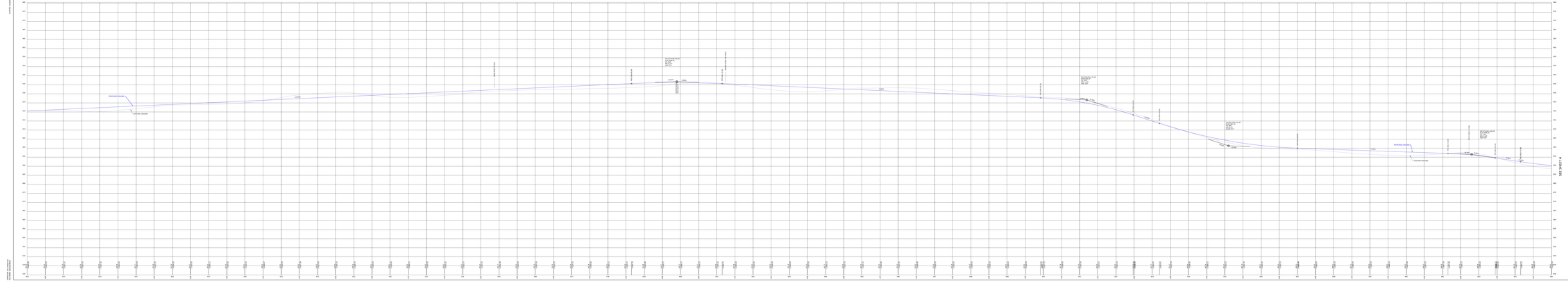
- TRAVEL LANES
- SHOULDERS
- AREA OF FILL
- AREA OF CUT
- STREAM
- WETLAND
- GUIDE RAIL
- PROPOSED RIGHT-OF-WAY LINE
- LEGAL RIGHT-OF-WAY LINE
- PROPERTY LINE

SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PLAN
SCALE: 1" = 25'

SR 2001 WIDENING & RECONSTRUCTION PROJECT (T-314 TO T-325)

NOT FOR CONSTRUCTION

DATE	INIT.	REVISION	DATE	INIT.
01/01/2000				

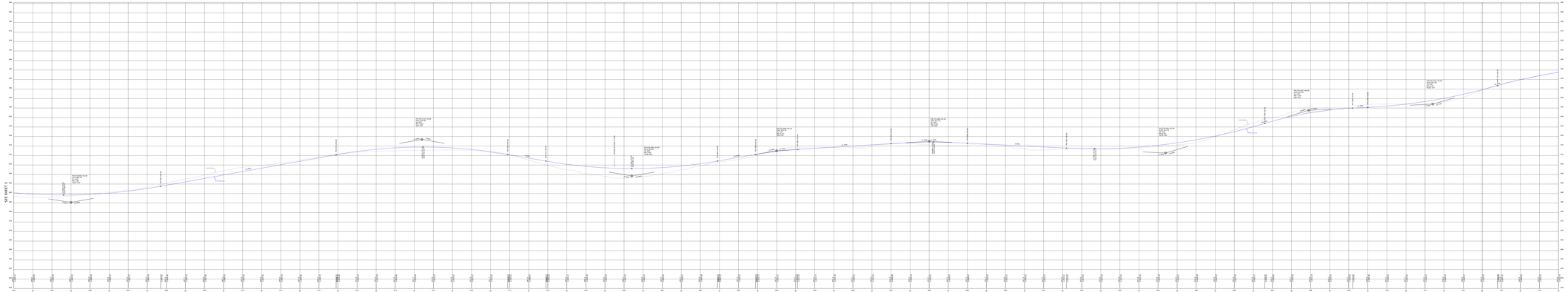


SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PROFILE
HORIZONTAL SCALE: 1" = 25'
VERTICAL SCALE: 1" = 5'

SR 2001 WIDENING & RECONSTRUCTION PROJECT (T-314 TO T-325)

NOT FOR CONSTRUCTION

DATE	BY	REVISION	DESIGN	DRAWN	CHECKED	DATE



PROJECT #2 - SR 2001 WIDENING & RECONSTRUCTION (T-314 TO T-325)
PRELIMINARY - CONSTRUCTION COST ESTIMATE

By: BPH 4/3/2025
Checked: KMF 3/13/2025

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
0201-0001	CLEARING AND GRUBBING	LS	1	$90,000.00	**$90,000.00**
0203-0001	CLASS 1 EXCAVATION (CUT)	CY	18275	$30.00	**$548,250.00**
0205-0100	FOREIGN BORROW EXCAVATION (FILL)	CY	3279	$25.00	**$81,975.00**
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	37938	$3.50	**$132,783.00**
0313-0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALs, 25.0 MM MIX, 5" DEPTH	SY	37938	$30.00	**$1,138,140.00**
0350-0104	SUBBASE 4" DEPTH (NO. 2A)	SY	2001	$10.00	**$20,010.00**
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	37938	$13.50	**$512,163.00**
0413-0192	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SY	37938	$15.00	**$569,070.00**
0413-6035	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	37938	$23.00	**$872,574.00**
0460-0001	ASPHALT TACK COAT	SY	75876	$1.00	**$75,876.00**
0609-0008	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B	LS	1	$20,000.00	**$20,000.00**
0609-0009	EQUIPMENT PACKAGE	LS	1	$3,500.00	**$3,500.00**
0620-1600	TYPE 31-S GUIDE RAIL	LF	2380	$25.00	**$59,500.00**
XXXX-XXXX	IMPACT ATTENUATOR	EA	12	$3,300.00	**$39,600.00**
0686-0021	CONSTRUCTION SURVEYING, TYPE B	LS	1	$30,000.00	**$30,000.00**
0689-0003	CPM SCHEDULE	LS	1	$2,500.00	**$2,500.00**
0690-0002	SEMI-FORMAL FACILITATION	DOLLAR	1500	$1.00	**$1,500.00**
0845-0001	UNFORESEEN WATER POLUTION CONTROL	DOLLAR	3000	$1.00	**$3,000.00**
	STRUCTURE	LS	0	$0.00	**$0.00**
	DRAINAGE AND STORMWATER MANAGEMENT	LS	1	$1,710,000.00	**$1,710,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$10,000.00	**$10,000.00**
	EROSION AND SEDIMENT POLLUTION CONTROL	LS	1	$5,000.00	**$5,000.00**

SUBTOTAL =		**$5,925,441.00**
MOBILIZATION	**6%**	**$355,526.46**
MPT (TRAFFIC CONTROL)	**5%**	**$296,272.05**
CONTINGENCY	**30%**	**$1,777,632.30**
	TOTAL =	**$8,355,000.00**
PRELIMINARY ENGR SERVICES =	**9%**	**$751,950.00**
FINAL DESIGN SERVICES =	**10%**	**$835,500.00**
RIGHT-OF-WAY =		**$1,740,000.00**
UTILITIES =		**$100,000.00**
MITIGATION COMMITMENTS =	**NOT ANTICIPATED**	**$0.00**
CONSTRUCTION INSPECTION =	**12%**	**$1,002,600.00**
	SAY PRESENT (2025) TOTAL =	**$12,786,000.00**
INFLATION	**3% FOR 10 YEARS**	**$4,397,314.83**
	SAY FUTURE (2035) TOTAL =	**$17,184,000.00**

APPENDIX E

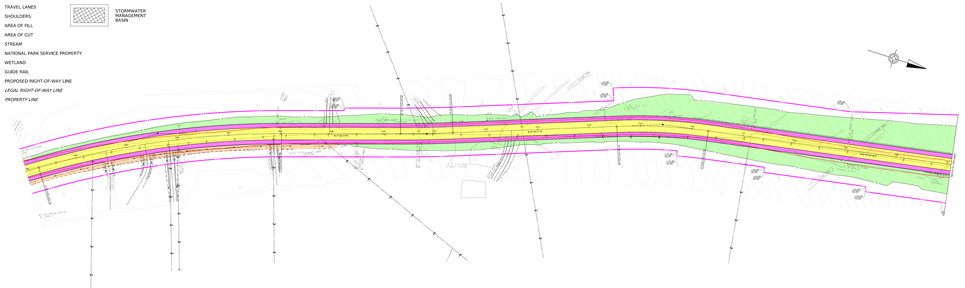
PROJECT #3 – SR 2001 WIDENING & BRIDGE REPLACEMENT PROJECT (DINGMANS CREEK)

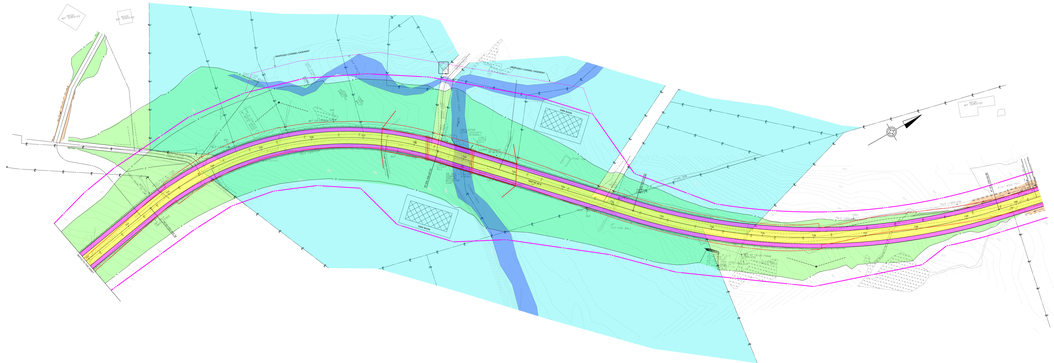
SR 2001 WIDENING & BRIDGE REPLACEMENT PROJECT (DINGMANS CREEK)

ALTERNATIVE 1 (8% MAX GRADE)

LEGEND

- TRAVEL LANES
- SHOULDERS
- AREA OF FILL
- AREA OF CUT
- STREAM
- NATIONAL PARK SERVICE PROPERTY
- WETLAND
- GUIDE RAIL
- PROPOSED RIGHT-OF-WAY LINE
- *LEGAL RIGHT-OF-WAY LINE*
- *PROPERTY LINE*
- STORMWATER MANAGEMENT BASIN





NOT FOR CONSTRUCTION

DATE	CHKD	BY	DATE	CHKD	BY

NO	REVISION	DATE	BY

SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PLAN
SCALE: 1" = 25'

SR 2001 WIDENING & BRIDGE REPLACEMENT PROJECT (DINGMANS CREEK)

ALTERNATIVE 2 (10% MAX GRADE)

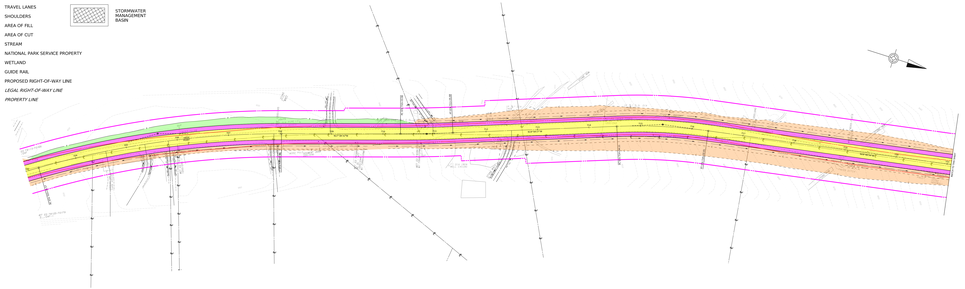
NOT FOR CONSTRUCTION

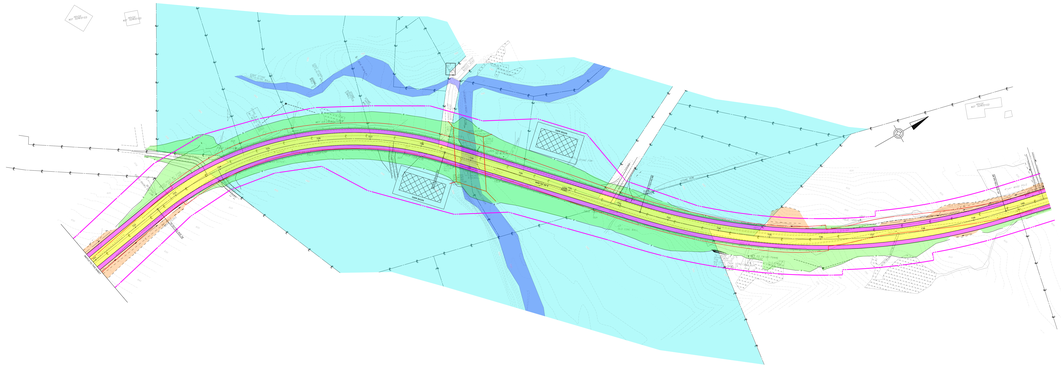
DATE	CHKD	DRAWN	DESIGN	DATE	CHKD

NO	REVISIONS	DATE	BY

LEGEND

- TRAVEL LANES
- SHOULDERS
- AREA OF FILL
- AREA OF CUT
- STREAM
- NATIONAL PARK SERVICE PROPERTY
- WETLAND
- GUIDE RAIL
- PROPOSED RIGHT-OF-WAY LINE
- *LEGAL RIGHT-OF-WAY LINE*
- *PROPERTY LINE*
- STORMWATER MANAGEMENT BASIN





SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PLAN
SCALE: 1" = 25'

SR 2001 WIDENING & BRIDGE REPLACEMENT PROJECT (DINGMANS CREEK)

NOT FOR CONSTRUCTION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-0	PIKE	2001	405	3 OF 3

DELAWARE TOWNSHIP

REV NO.	REVISIONS	DATE	BY	APPD

SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PROFILE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

PLOTTED: 04/18/2024

OPERATOR: Ben Hickman
FILE NAME: 6405PROF3.dgn

PROJECT #3 - SR 2001 WIDENING & BRIDGE REPLACEMENT (DINGMANS CREEK)
PRELIMINARY - CONSTRUCTION COST ESTIMATE (ALTERNATIVE 1 - 8%)

By: BPH 4/8/2025
Checked: KMF 3/14/2025

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
0201-0001	CLEARING AND GRUBBING	LS	1	$75,000.00	**$75,000.00**
0202-0001	BRIDGE DEMOLITION	LS	1	$50,000.00	**$50,000.00**
0203-0001	CLASS 1 EXCAVATION (CUT)	CY	1206	$30.00	**$36,180.00**
0205-0100	FOREIGN BORROW EXCAVATION (FILL)	CY	277836	$15.00	**$4,167,540.00**
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	16222	$3.50	**$56,777.00**
0313-0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALs, 25.0 MM MIX, 5" DEPTH	SY	16222	$30.00	**$486,660.00**
0350-0104	SUBBASE 4" DEPTH (NO. 2A)	SY	1286	$10.00	**$12,860.00**
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	16222	$13.50	**$218,997.00**
0413-0192	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SY	16222	$15.00	**$243,330.00**
0413-6035	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	16222	$23.00	**$373,106.00**
0460-0001	ASPHALT TACK COAT	SY	32444	$1.00	**$32,444.00**
0609-0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B	LS	1	$20,000.00	**$20,000.00**
0609-0009	EQUIPMENT PACKAGE	LS	1	$3,500.00	**$3,500.00**
0620-0503	REMOVE EXISTING GUIDE RAIL (CONTRACTOR'S PROPERTY)	LF	200	$2.75	**$550.00**
0620-1600	TYPE 31-S GUIDE RAIL	LF	3900	$25.00	**$97,500.00**
XXXX-XXXX	IMPACT ATTENUATOR	EA	4	$3,300.00	**$13,200.00**
0686-0020	CONSTRUCTION SURVEYING, TYPE B	LS	1	$20,000.00	**$20,000.00**
0689-0003	CPM SCHEDULE	LS	1	$2,500.00	**$2,500.00**
0690-0002	SEMI-FORMAL FACILITATION	DOLLAR	1500	$1.00	**$1,500.00**
0845-0001	UNFORESEEN WATER POLUTION CONTROL	DOLLAR	15000	$1.00	**$15,000.00**
	STRUCTURE (90' THREE SPAN, 43' WIDE, INTEGRAL ABUTMENT)	LS	1	$3,800,000.00	**$3,800,000.00**
	DRAINAGE AND STORMWATER MANAGEMENT	LS	1	$1,484,000.00	**$1,484,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$10,000.00	**$10,000.00**
	EROSION AND SEDIMENT POLLUTION CONTROL	LS	1	$60,000.00	**$60,000.00**

SUBTOTAL =		**$11,280,644.00**
MOBILIZATION	**6%**	**$676,838.64**
MPT (TRAFFIC CONTROL)	**5%**	**$564,032.20**
CONTINGENCY	**30%**	**$3,756,454.45**
TOTAL =		**$16,278,000.00**
PRELIMINARY ENGR SERVICES =	**9%**	**$1,465,020.00**
FINAL DESIGN SERVICES =	**10%**	**$1,627,800.00**
RIGHT-OF-WAY =		**$1,320,000.00**
UTILITIES =		**$30,000.00**
MITIGATION COMMITMENTS =	**NOT ANTICIPATED**	**$0.00**
CONSTRUCTION INSPECTION =	**12%**	**$1,953,360.00**
SAY PRESENT (2025) TOTAL =		**$22,675,000.00**
INFLATION	**3% FOR 10 YEARS**	**$7,798,303.90**
SAY FUTURE (2035) TOTAL =		**$30,474,000.00**

PROJECT #3 - SR 2001 WIDENING & BRIDGE REPLACEMENT (DINGMANS CREEK)
PRELIMINARY - CONSTRUCTION COST ESTIMATE (ALTERNATIVE 2 - 10%)

By: BPH 4/3/2025
Checked: KMF 3/14/2025

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
0201-0001	CLEARING AND GRUBBING	LS	1	$50,000.00	**$50,000.00**
0202-0001	BRIDGE DEMOLITION	LS	1	$50,000.00	**$50,000.00**
0203-0001	CLASS 1 EXCAVATION (CUT)	CY	20178	$30.00	**$605,340.00**
0205-0100	FOREIGN BORROW EXCAVATION (FILL)	CY	24340	$25.00	**$608,500.00**
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	16222	$3.50	**$56,777.00**
0313-0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALs, 25.0 MM MIX, 5" DEPTH	SY	16222	$30.00	**$486,660.00**
0350-0104	SUBBASE 4" DEPTH (NO. 2A)	SY	993	$10.00	**$9,930.00**
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	16222	$13.50	**$218,997.00**
0413-0192	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SY	16222	$15.00	**$243,330.00**
0413-6035	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	16222	$23.00	**$373,106.00**
0460-0001	ASPHALT TACK COAT	SY	32444	$1.00	**$32,444.00**
0609-0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B	LS	1	$20,000.00	**$20,000.00**
0609-0009	EQUIPMENT PACKAGE	LS	1	$3,500.00	**$3,500.00**
0620-0503	REMOVE EXISTING GUIDE RAIL (CONTRACTOR'S PROPERTY)	LF	200	$2.75	**$550.00**
0620-1600	TYPE 31-S GUIDE RAIL	LF	2500	$25.00	**$62,500.00**
XXXX-XXXX	IMPACT ATTENUATOR	EA	4	$3,300.00	**$13,200.00**
0686-0020	CONSTRUCTION SURVEYING, TYPE B	LS	1	$20,000.00	**$20,000.00**
0689-0003	CPM SCHEDULE	LS	1	$2,500.00	**$2,500.00**
0690-0002	SEMI-FORMAL FACILITATION	DOLLAR	1500	$1.00	**$1,500.00**
0845-0001	UNFORESEEN WATER POLUTION CONTROL	DOLLAR	15000	$1.00	**$15,000.00**
	STRUCTURE (54' CON/SPAN ARCH, 20' FILL)	LS	1	$1,750,000.00	**$1,750,000.00**
	DRAINAGE AND STORMWATER MANAGEMENT	LS	1	$1,484,000.00	**$1,484,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$10,000.00	**$10,000.00**
	EROSION AND SEDIMENT POLLUTION CONTROL	LS	1	$30,000.00	**$30,000.00**

SUBTOTAL =		**$6,147,834.00**
MOBILIZATION	**6%**	**$368,870.04**
MPT (TRAFFIC CONTROL)	**5%**	**$307,391.70**
CONTINGENCY	**30%**	**$2,047,228.72**
	TOTAL =	**$8,872,000.00**
PRELIMINARY ENGR SERVICES =	**9%**	**$798,480.00**
FINAL DESIGN SERVICES =	**10%**	**$887,200.00**
RIGHT-OF-WAY =		**$900,000.00**
UTILITIES =		**$30,000.00**
MITIGATION COMMITMENTS =	**NOT ANTICIPATED**	**$0.00**
CONSTRUCTION INSPECTION =	**12%**	**$1,064,640.00**
	SAY PRESENT (2025) TOTAL =	**$12,553,000.00**
INFLATION	**3% FOR 10 YEARS**	**$4,317,182.31**
	SAY FUTURE (2035) TOTAL =	**$16,871,000.00**

APPENDIX F

PROJECT #4 – SR 2001 / 2004 INTERSECTION IMPROVEMENTS PROJECT

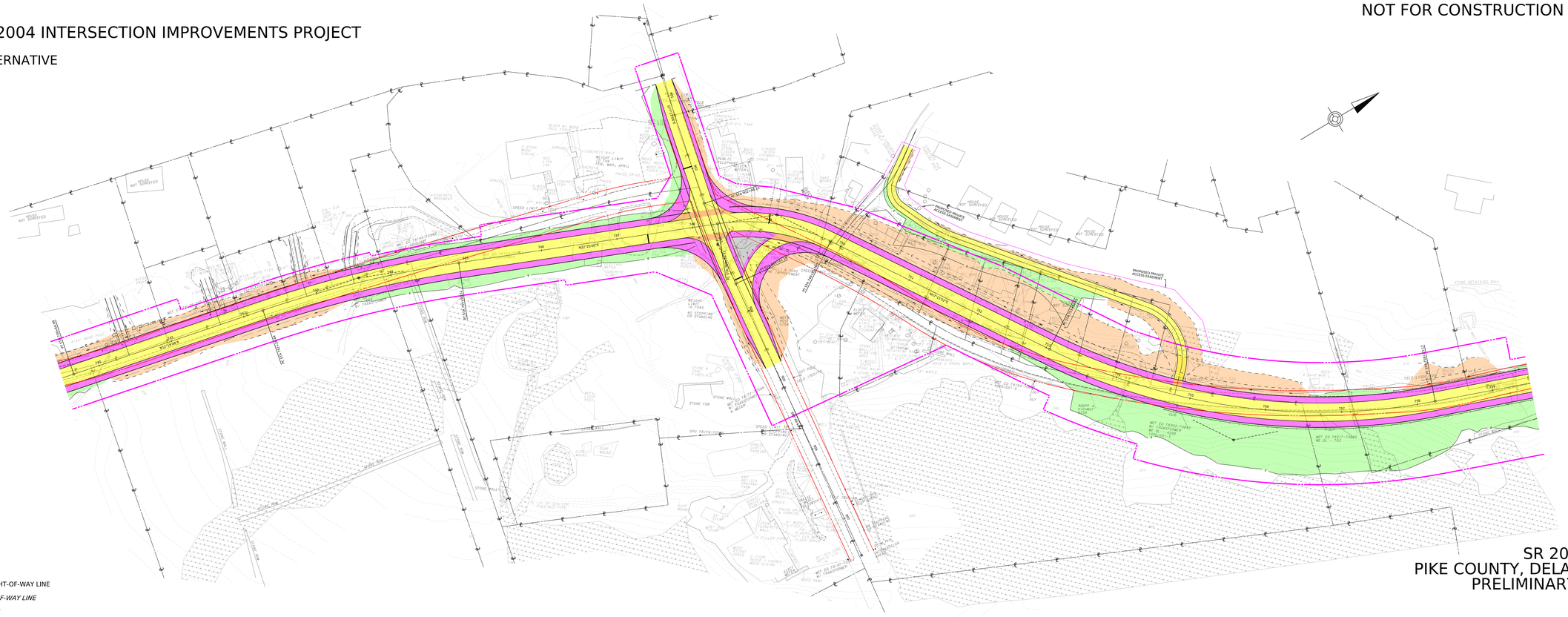
NOT FOR CONSTRUCTION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	PIKE	2001	405	1 OF 5
DELAWARE TOWNSHIP				

NO.	REVISIONS	DATE	BY	APPD

SR 2001 / SR 2004 INTERSECTION IMPROVEMENTS PROJECT

4-WAY STOP ALTERNATIVE



LEGEND

- TRAVEL LANES
- SHOULDERS
- ISLAND
- AREA OF FILL
- AREA OF CUT
- STREAM
- WETLAND
- GUIDE RAIL
- PROPOSED RIGHT-OF-WAY LINE
- *LEGAL RIGHT-OF-WAY LINE*
- *PROPERTY LINE*

SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PLAN
SCALE: 1" = 25'

PLOTTED: 04/08/2014

OPERATOR: Ben Hildebrand
FILENAME: 5-0PIKE2001.dgn

NOT FOR CONSTRUCTION

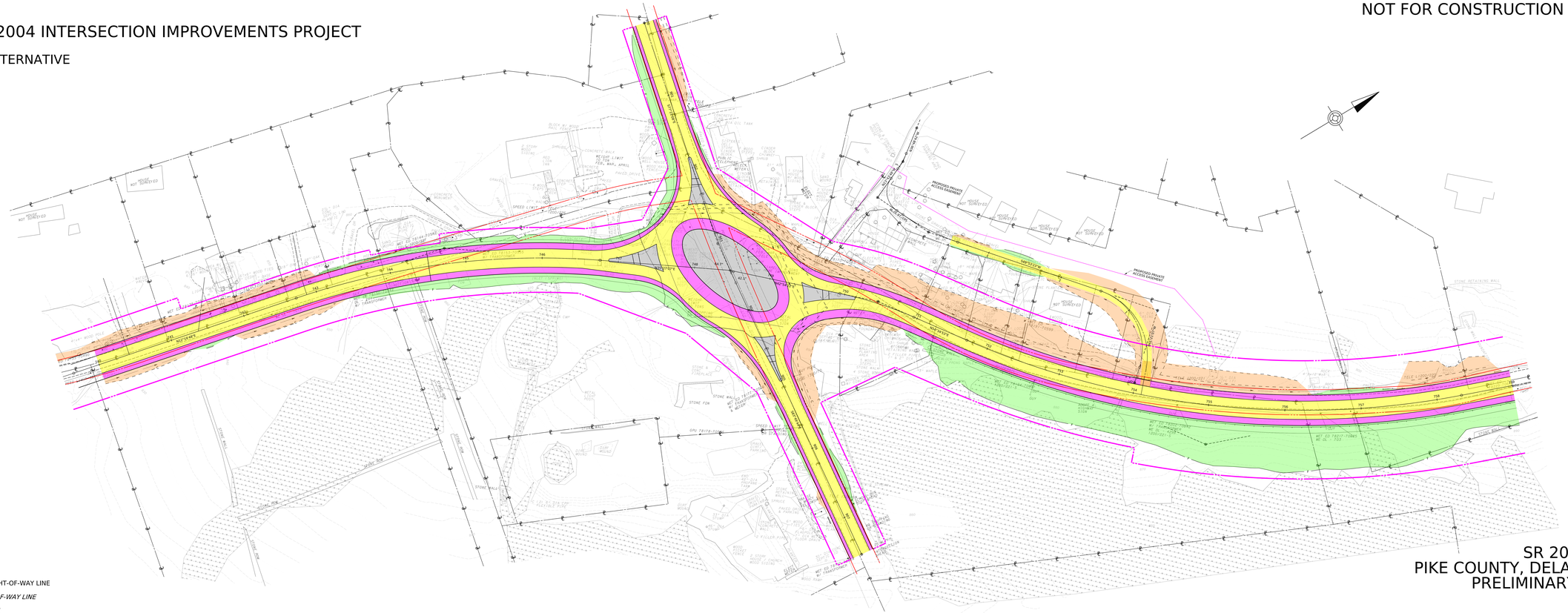
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	PIKE	2001	405	2 OF 5

DELAWARE TOWNSHIP

NO.	REVISIONS	DATE	BY	APPD

SR 2001 / SR 2004 INTERSECTION IMPROVEMENTS PROJECT

ROUNDABOUT ALTERNATIVE


PROPOSED PRIVATE ACCESS EASEMENT
PROPOSED PRIVATE ACCESS EASEMENT
HOUSE NOT SURVEYED
STONE RETAINING WALL
STONE WALL
WET EDGE OF TRAVEL LANE
WET EDGE OF SHOULDER

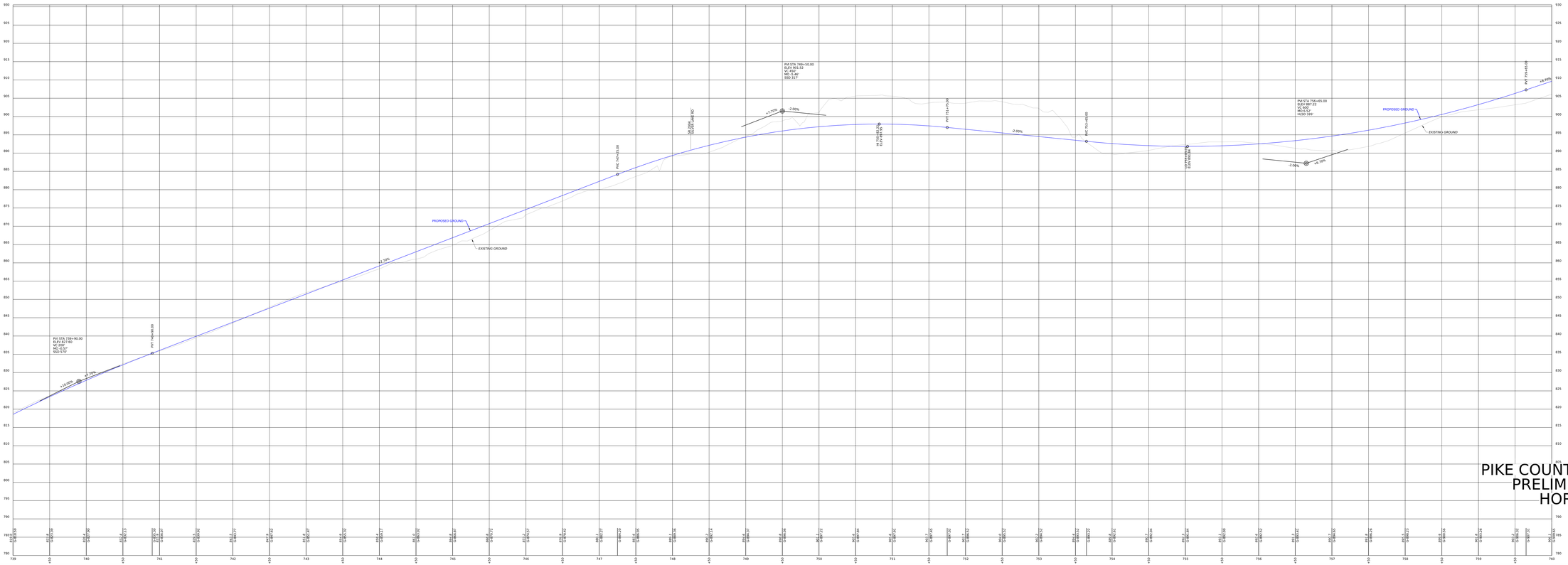
SR 2001 / 2004 INTERSECTION IMPROVEMENTS PROJECT

NOT FOR CONSTRUCTION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-D	PIKE	2001	405	3 OF 5

DELAWARE TOWNSHIP

NO	REVISIONS	DATE	BY	APPD



SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PROFILE
HORIZONTAL SCALE: 1" = 25'
VERTICAL SCALE: 1" = 5'

PLOTTED: 04/10/2024

OPERATOR: Ben Hickman
DGN NAME: 6PIKE2001.dgn

PROJECT #4 - SR 2001 / SR 2004 INTERSECTION IMPROVEMENTS
PRELIMINARY - CONSTRUCTION COST ESTIMATE (4-WAY STOP ALTERNATIVE)

By: BPH 4/3/2025
Checked: KMF 3/18/2025

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
0201-0001	CLEARING AND GRUBBING	LS	1	$30,000.00	**$30,000.00**
0203-0001	CLASS 1 EXCAVATION (CUT)	CY	16770	$30.00	**$503,100.00**
0205-0100	FOREIGN BORROW EXCAVATION (FILL)	CY	0	$25.00	**$0.00**
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	11028	$3.50	**$38,598.00**
0313-0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALs, 25.0 MM MIX, 5" DEPTH	SY	11028	$30.00	**$330,840.00**
0350-0104	SUBBASE 4" DEPTH (NO. 2A)	SY	243	$10.00	**$2,430.00**
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	11028	$13.50	**$148,878.00**
0413-0192	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SY	11028	$15.00	**$165,420.00**
0413-6035	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	11028	$23.00	**$253,644.00**
0460-0001	ASPHALT TACK COAT	SY	22056	$1.00	**$22,056.00**
0609-0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B	LS	1	$20,000.00	**$20,000.00**
0609-0009	EQUIPMENT PACKAGE	LS	1	$3,500.00	**$3,500.00**
0620-1600	TYPE 31-S GUIDE RAIL	LF	600	$25.00	**$15,000.00**
XXXX-XXXX	IMPACT ATTENUATOR	EA	2	$3,300.00	**$6,600.00**
0686-0020	CONSTRUCTION SURVEYING, TYPE B	LS	1	$20,000.00	**$20,000.00**
0689-0003	CPM SCHEDULE	LS	1	$2,500.00	**$2,500.00**
0690-0002	SEMI-FORMAL FACILITATION	DOLLAR	1500	$1.00	**$1,500.00**
0845-0001	UNFORESEEN WATER POLUTION CONTROL	DOLLAR	3000	$1.00	**$3,000.00**
	STRUCTURE	LS	0	$0.00	**$0.00**
	DRAINAGE AND STORMWATER MANAGEMENT	LS	1	$245,000.00	**$245,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$10,000.00	**$10,000.00**
	EROSION AND SEDIMENT POLLUTION CONTROL	LS	1	$5,000.00	**$5,000.00**

SUBTOTAL =		**$1,827,066.00**
MOBILIZATION	**6%**	**$109,623.96**
MPT (TRAFFIC CONTROL)	**5%**	**$91,353.30**
CONTINGENCY	**30%**	**$608,412.98**
TOTAL =		**$2,637,000.00**
PRELIMINARY ENGR SERVICES =	**9%**	**$237,330.00**
FINAL DESIGN SERVICES =	**10%**	**$263,700.00**
RIGHT-OF-WAY =		**$2,880,000.00**
UTILITIES =		**$30,000.00**
MITIGATION COMMITMENTS =	**NOT ANTICIPATED**	**$0.00**
CONSTRUCTION INSPECTION =	**12%**	**$316,440.00**
SAY PRESENT (2025) TOTAL =		**$6,365,000.00**
INFLATION	**3% FOR 10 YEARS**	**$2,189,027.75**
SAY FUTURE (2035) TOTAL =		**$8,555,000.00**

PROJECT #4 - SR 2001 / SR 2004 INTERSECTION IMPROVEMENTS
PRELIMINARY - CONSTRUCTION COST ESTIMATE (ROUNDABOUT ALTERNATIVE)

By: BPH 4/3/2025
Checked: KMF 3/18/2025

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
0201-0001	CLEARING AND GRUBBING	LS	1	$40,000.00	**$40,000.00**
0203-0001	CLASS 1 EXCAVATION (CUT)	CY	13514	$30.00	**$405,420.00**
0205-0100	FOREIGN BORROW EXCAVATION (FILL)	CY	1411	$25.00	**$35,275.00**
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	13883	$3.50	**$48,590.50**
0313-0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALs, 25.0 MM MIX, 5" DEPTH	SY	13883	$30.00	**$416,490.00**
0350-0104	SUBBASE 4" DEPTH (NO. 2A)	SY	224	$10.00	**$2,240.00**
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	13883	$13.50	**$187,420.50**
0413-0192	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SY	13883	$15.00	**$208,245.00**
0413-6035	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	13883	$23.00	**$319,309.00**
0460-0001	ASPHALT TACK COAT	SY	27766	$1.00	**$27,766.00**
0609-0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B	LS	1	$20,000.00	**$20,000.00**
0609-0009	EQUIPMENT PACKAGE	LS	1	$3,500.00	**$3,500.00**
0620-1600	TYPE 31-S GUIDE RAIL	LF	800	$25.00	**$20,000.00**
XXXX-XXXX	IMPACT ATTENUATOR	EA	2	$3,300.00	**$6,600.00**
0686-0020	CONSTRUCTION SURVEYING, TYPE B	LS	1	$20,000.00	**$20,000.00**
0689-0003	CPM SCHEDULE	LS	1	$2,500.00	**$2,500.00**
0690-0002	SEMI-FORMAL FACILITATION	DOLLAR	1500	$1.00	**$1,500.00**
0845-0001	UNFORESEEN WATER POLUTION CONTROL	DOLLAR	3000	$1.00	**$3,000.00**
	STRUCTURE	LS	0	$0.00	**$0.00**
	DRAINAGE AND STORMWATER MANAGEMENT	LS	1	$245,000.00	**$245,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$10,000.00	**$10,000.00**
	EROSION AND SEDIMENT POLLUTION CONTROL	LS	1	$5,000.00	**$5,000.00**

SUBTOTAL =		**$2,027,856.00**
MOBILIZATION	**6%**	**$121,671.36**
MPT (TRAFFIC CONTROL)	**5%**	**$101,392.80**
CONTINGENCY	**30%**	**$675,276.05**
	TOTAL =	**$2,927,000.00**
PRELIMINARY ENGR SERVICES =	**9%**	**$263,430.00**
FINAL DESIGN SERVICES =	**10%**	**$292,700.00**
RIGHT-OF-WAY =		**$2,920,000.00**
UTILITIES =		**$30,000.00**
MITIGATION COMMITMENTS =	**NOT ANTICIPATED**	**$0.00**
CONSTRUCTION INSPECTION =	**12%**	**$351,240.00**
	SAY PRESENT (2025) TOTAL =	**$6,785,000.00**
INFLATION	**3% FOR 10 YEARS**	**$2,333,472.63**
	SAY FUTURE (2035) TOTAL =	**$9,119,000.00**

APPENDIX G

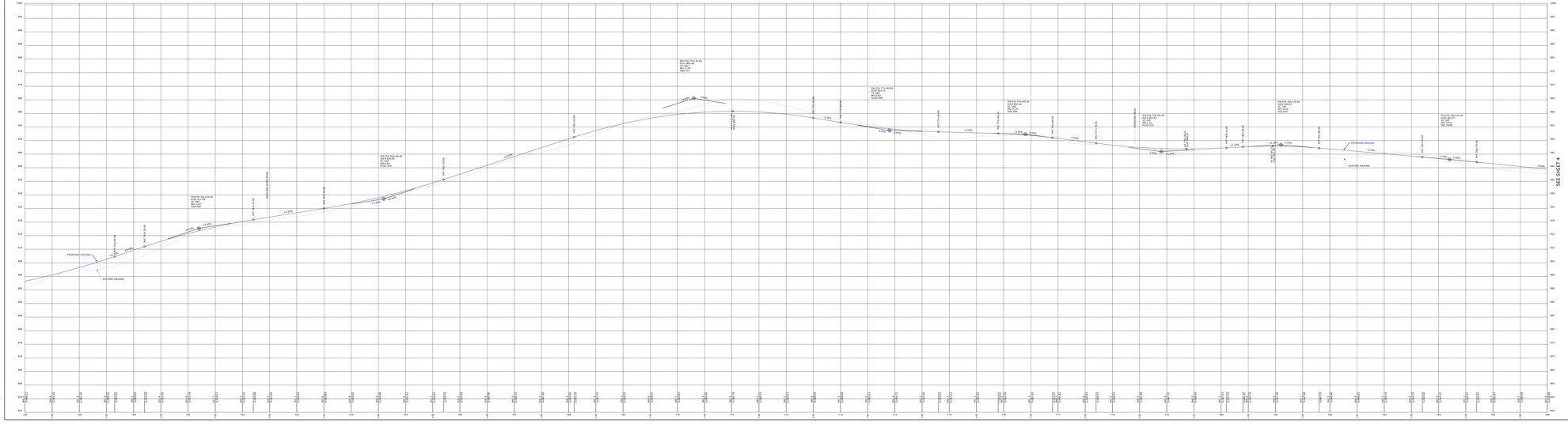
PROJECT #5 – SR 2001 WIDENING & RECONSTRUCTION PROJECT (SR 2004 TO SR 739)

SR 2001 WIDENING & RECONSTRUCTION PROJECT (SR 2004 TO SR 739)

NOT FOR CONSTRUCTION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
6-D	PIKE	SR2001	405	1 OF 1

DELAWARE TOWNSHIP		
REV	REVISIONS	DATE / BY / APPD
		/ /
		/ /
		/ /

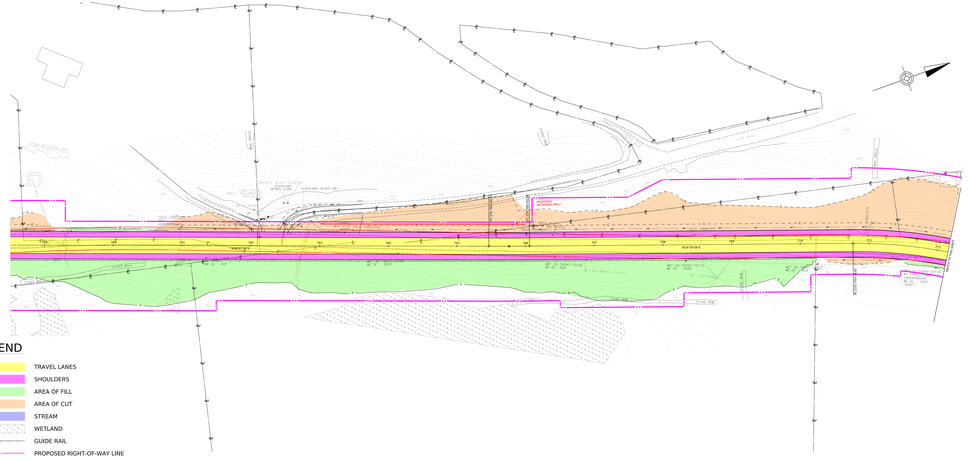


SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PROFILE
HORIZONTAL SCALE: 1" = 25'
VERTICAL SCALE: 1" = 5'

SR 2001 WIDENING & RECONSTRUCTION PROJECT (SR 2004 TO SR 739)

NOT FOR CONSTRUCTION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11-2	PIKE	2001	405	1 OF 1
DELAWARE TOWNSHIP				
REV	REVISION		DATE	BY - APPD



LEGEND

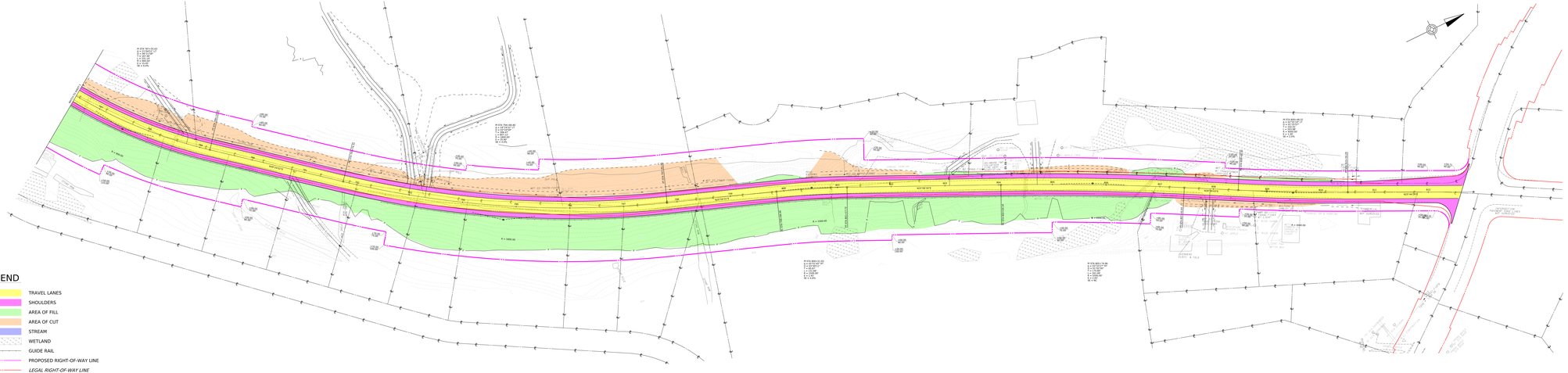
- TRAVEL LANES
- SHOULDERS
- AREA OF FILL
- AREA OF CUT
- STREAM
- WETLAND
- GUIDE RAIL
- PROPOSED RIGHT-OF-WAY LINE
- *LEGAL RIGHT-OF-WAY LINE*
- *PROPERTY LINE*

SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PLAN
SCALE: 1" = 25'

SR 2001 WIDENING & RECONSTRUCTION PROJECT (SR 2004 TO SR 739)

NOT FOR CONSTRUCTION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11-2	PIKE	2001	405	14 OF 17
PRELIMINARY ROADWAY PLAN				
REV	REVISIONS		DATE	BY	APPD



LEGEND

- TRAVEL LANES
- SHOULDERS
- AREA OF FILL
- AREA OF CUT
- STREAM
- WETLAND
- GUIDE RAIL
- PROPOSED RIGHT-OF-WAY LINE
- *LEGAL RIGHT-OF-WAY LINE*
- *PROPERTY LINE*

SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PLAN
SCALE: 1" = 25'

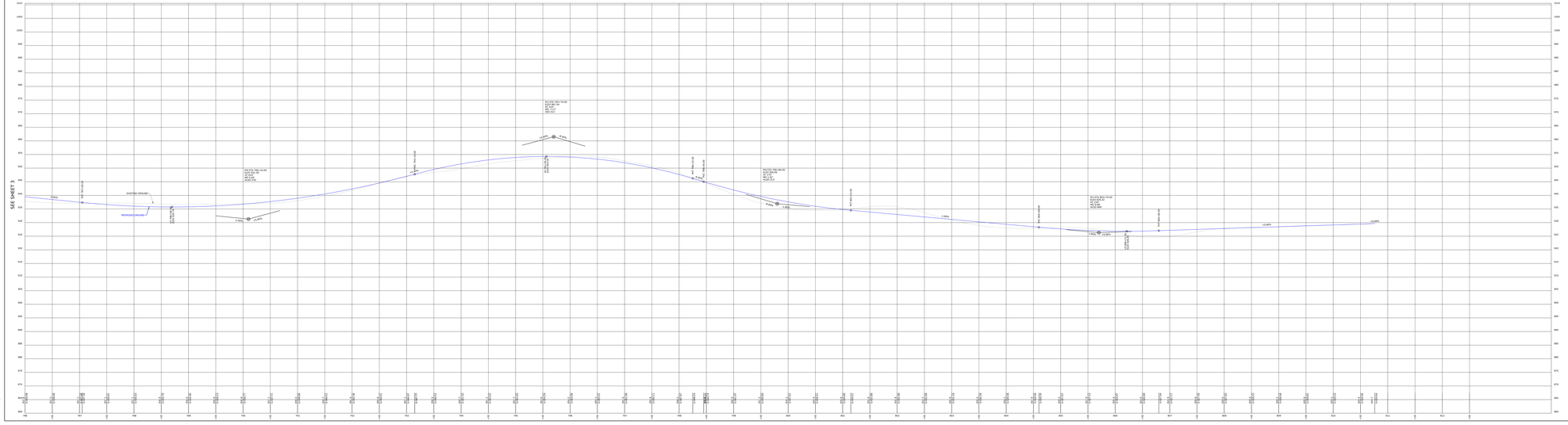
PLOTTED: 10/24/2019 9:01 AM
COUNTY: Pike
FILE NAME: 2001_PRELIMINARY_ROADWAY_PLAN.DGN

SR 2001 WIDENING & RECONSTRUCTION PROJECT (SR 2004 TO SR 739)

NOT FOR CONSTRUCTION

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
11-2	PIKE	SR2001	405	1 OF 1

REVISIONS			
NO	REVISION	DATE	BY	APPD



SR 2001 - SECTION 405
PIKE COUNTY, DELAWARE TOWNSHIP
PRELIMINARY ROADWAY PROFILE
HORIZONTAL SCALE: 1" = 25'
VERTICAL SCALE: 1" = 5'

PLOTTED: 10/22/2020 9:00 AM
COUNTY: Pike
FILE NAME: 2001_405_PRELIM_PROFILE.dgn

PROJECT #5 - SR 2001 WIDENING & RECONSTRUCTION (SR 2004 to SR 739)
PRELIMINARY - CONSTRUCTION COST ESTIMATE

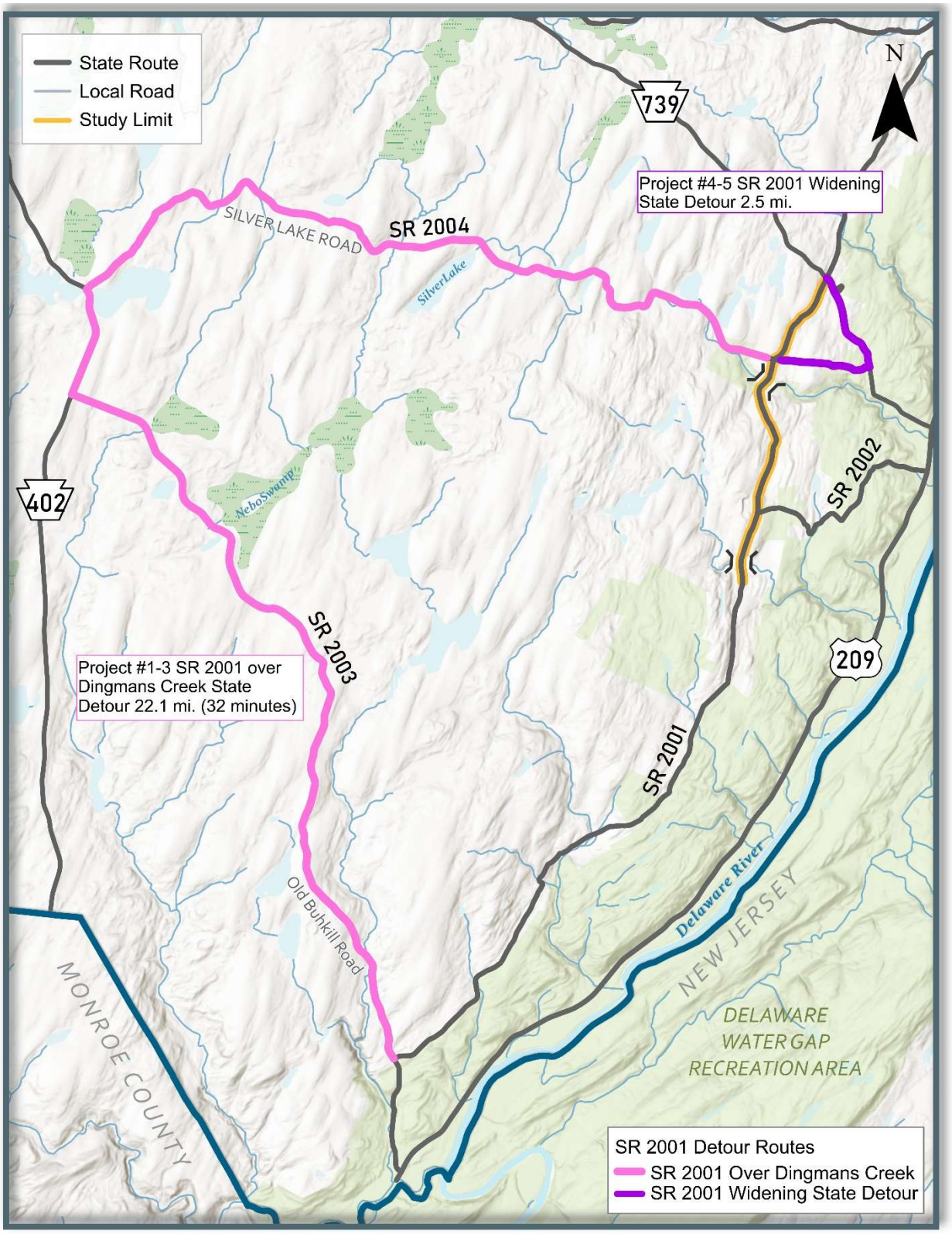
By: BPH 4/3/2025
Checked: KMF 3/18/2025

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
0201-0001	CLEARING AND GRUBBING	LS	1	$100,000.00	**$100,000.00**
0203-0001	CLASS 1 EXCAVATION (CUT)	CY	27206	$30.00	**$816,180.00**
0205-0100	FOREIGN BORROW EXCAVATION (FILL)	CY	27056	$25.00	**$676,400.00**
0212-0014	GEOTEXTILE, CLASS 4, TYPE A	SY	23062	$3.50	**$80,717.00**
0313-0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALs, 25.0 MM MIX, 5" DEPTH	SY	23062	$30.00	**$691,860.00**
0350-0104	SUBBASE 4" DEPTH (NO. 2A)	SY	2441	$10.00	**$24,410.00**
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	23062	$13.50	**$311,337.00**
0413-0192	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SY	23062	$15.00	**$345,930.00**
0413-6035	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	SY	23062	$23.00	**$530,426.00**
0460-0001	ASPHALT TACK COAT	SY	46124	$1.00	**$46,124.00**
0609-0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B	LS	1	$20,000.00	**$20,000.00**
0609-0009	EQUIPMENT PACKAGE	LS	1	$3,500.00	**$3,500.00**
0620-0503	REMOVE EXISTING GUIDE RAIL (CONTRACTOR'S PROPERTY)	LF	5051	$2.75	**$13,890.25**
0620-1600	TYPE 31-S GUIDE RAIL	LF	3970	$25.00	**$99,250.00**
XXXX-XXXX	IMPACT ATTENUATOR	EA	8	$3,300.00	**$26,400.00**
0686-0020	CONSTRUCTION SURVEYING, TYPE B	LS	1	$20,000.00	**$20,000.00**
0689-0003	CPM SCHEDULE	LS	1	$2,500.00	**$2,500.00**
0690-0002	SEMI-FORMAL FACILITATION	DOLLAR	1500	$1.00	**$1,500.00**
0845-0001	UNFORESEEN WATER POLUTION CONTROL	DOLLAR	3000	$1.00	**$3,000.00**
	STRUCTURE - RETAINING WALL #1 (300' LONG)	LS	1	$1,145,000.00	**$1,145,000.00**
	STRUCTURE - RETAINING WALL #2 (200' LONG)	LS	1	$912,000.00	**$912,000.00**
	DRAINAGE AND STORMWATER MANAGEMENT	LS	1	$768,000.00	**$768,000.00**
	SIGNING AND PAVEMENT MARKINGS	LS	1	$10,000.00	**$10,000.00**
	EROSION AND SEDIMENT POLLUTION CONTROL	LS	1	$5,000.00	**$5,000.00**

SUBTOTAL =		**$6,653,424.25**
MOBILIZATION	**6%**	**$399,205.46**
MPT (TRAFFIC CONTROL)	**5%**	**$332,671.21**
CONTINGENCY	**30%**	**$2,215,590.28**
	TOTAL =	**$9,601,000.00**
PRELIMINARY ENGR SERVICES =	**9%**	**$864,090.00**
FINAL DESIGN SERVICES =	**10%**	**$960,100.00**
RIGHT-OF-WAY =		**$2,870,000.00**
UTILITIES =		**$50,000.00**
MITIGATION COMMITMENTS =	**NOT ANTICIPATED**	**$0.00**
CONSTRUCTION INSPECTION =	**12%**	**$1,152,120.00**
	SAY PRESENT (2025) TOTAL =	**$15,498,000.00**
INFLATION	**3% FOR 10 YEARS**	**$5,330,016.05**
	SAY FUTURE (2035) TOTAL =	**$20,829,000.00**

APPENDIX H

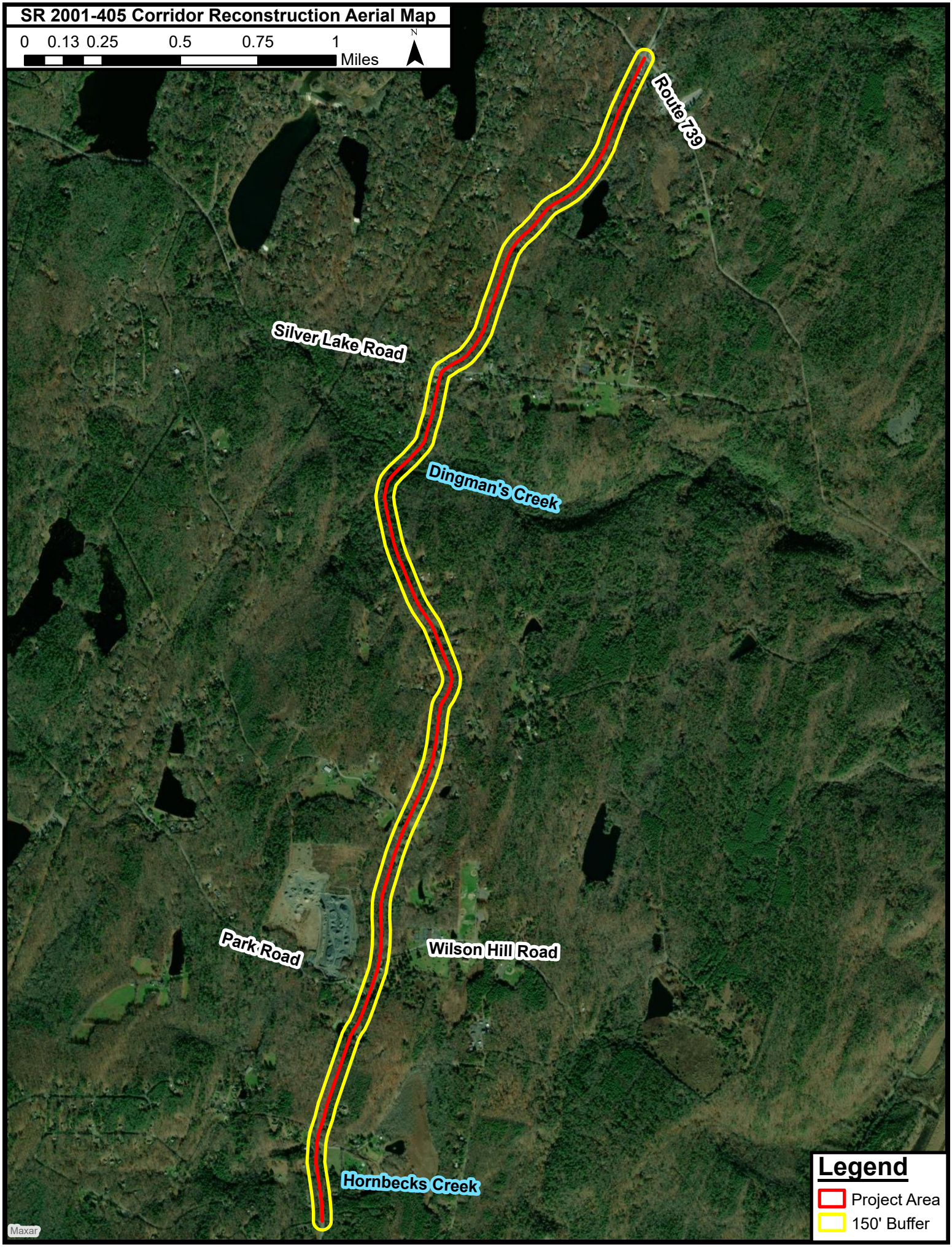
PROJECT DETOUR ROUTES

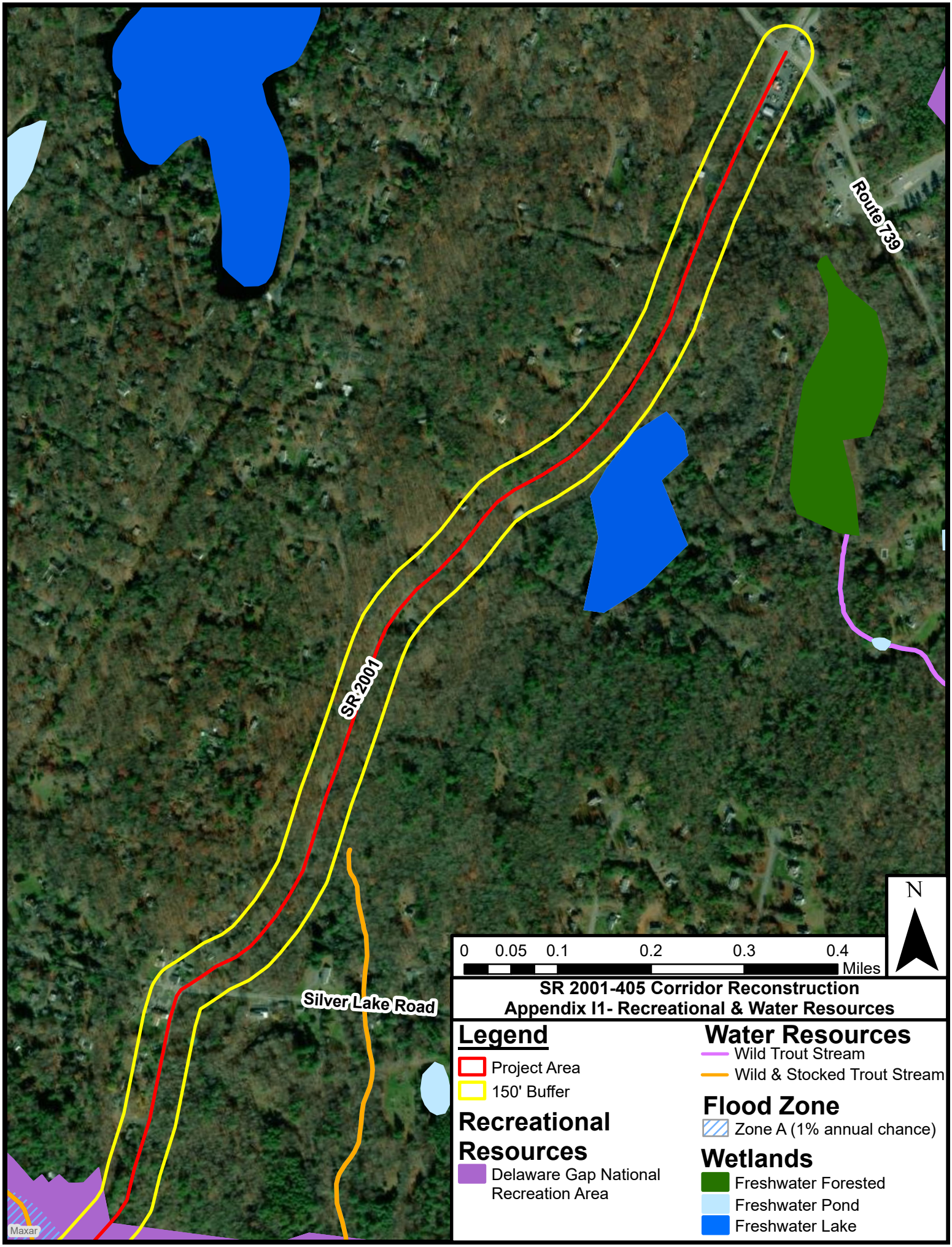

State Route
Local Road
Study Limit
N
739
Project #4-5 SR 2001 Widening
State Detour 2.5 mi.
SILVER LAKE ROAD
SR 2004
SilverLake
402
NeboSwamp
SR 2002
SR 2003
209
Project #1-3 SR 2001 over
Dingmans Creek State
Detour 22.1 mi. (32 minutes)
SR 2001
Delaware River
Old Buhkill Road
NEW JERSEY
MONROE COUNTY
DELAWARE
WATER GAP
RECREATION AREA
SR 2001 Detour Routes
SR 2001 Over Dingmans Creek
SR 2001 Widening State Detour

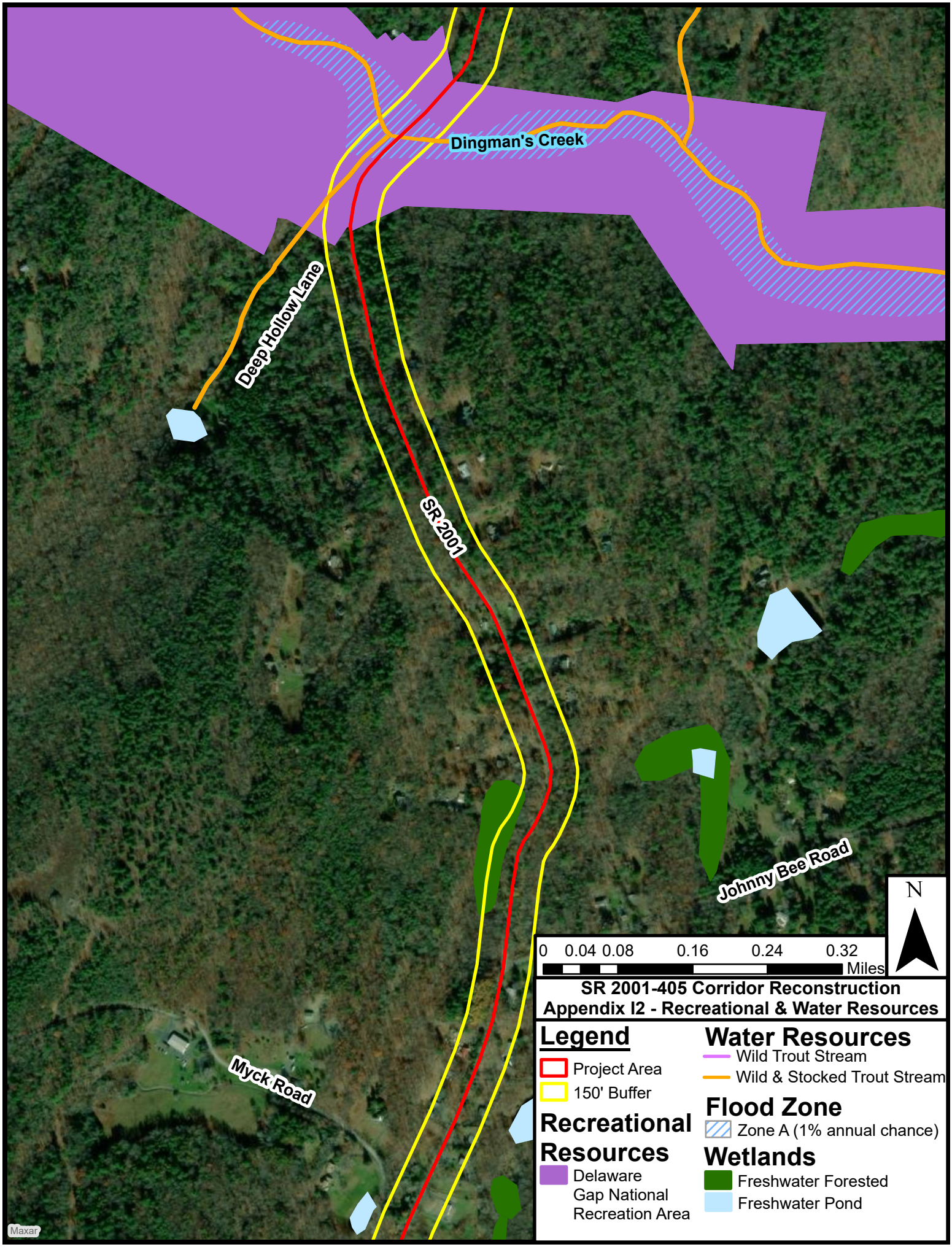
APPENDIX I

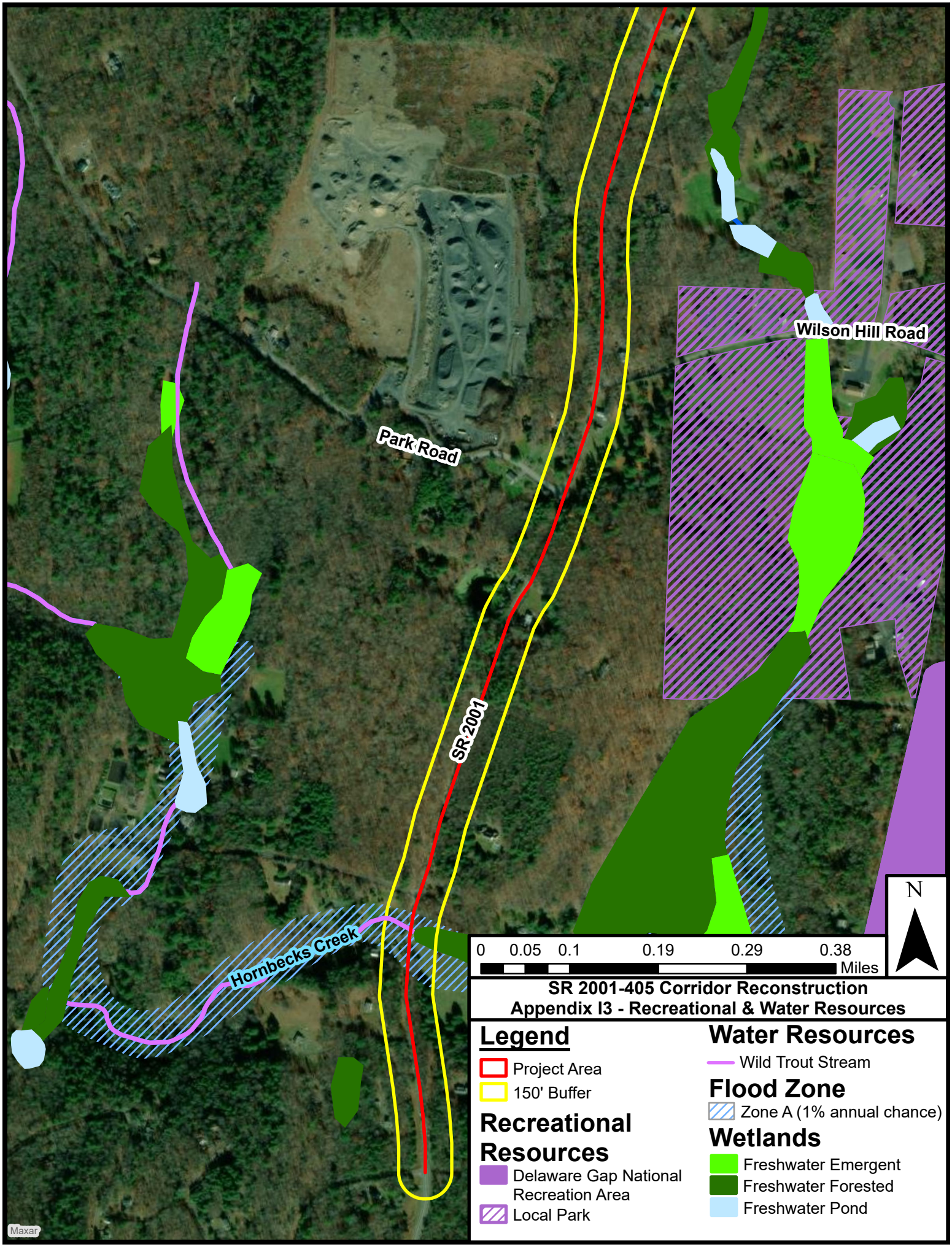
ENVIRONMENTAL

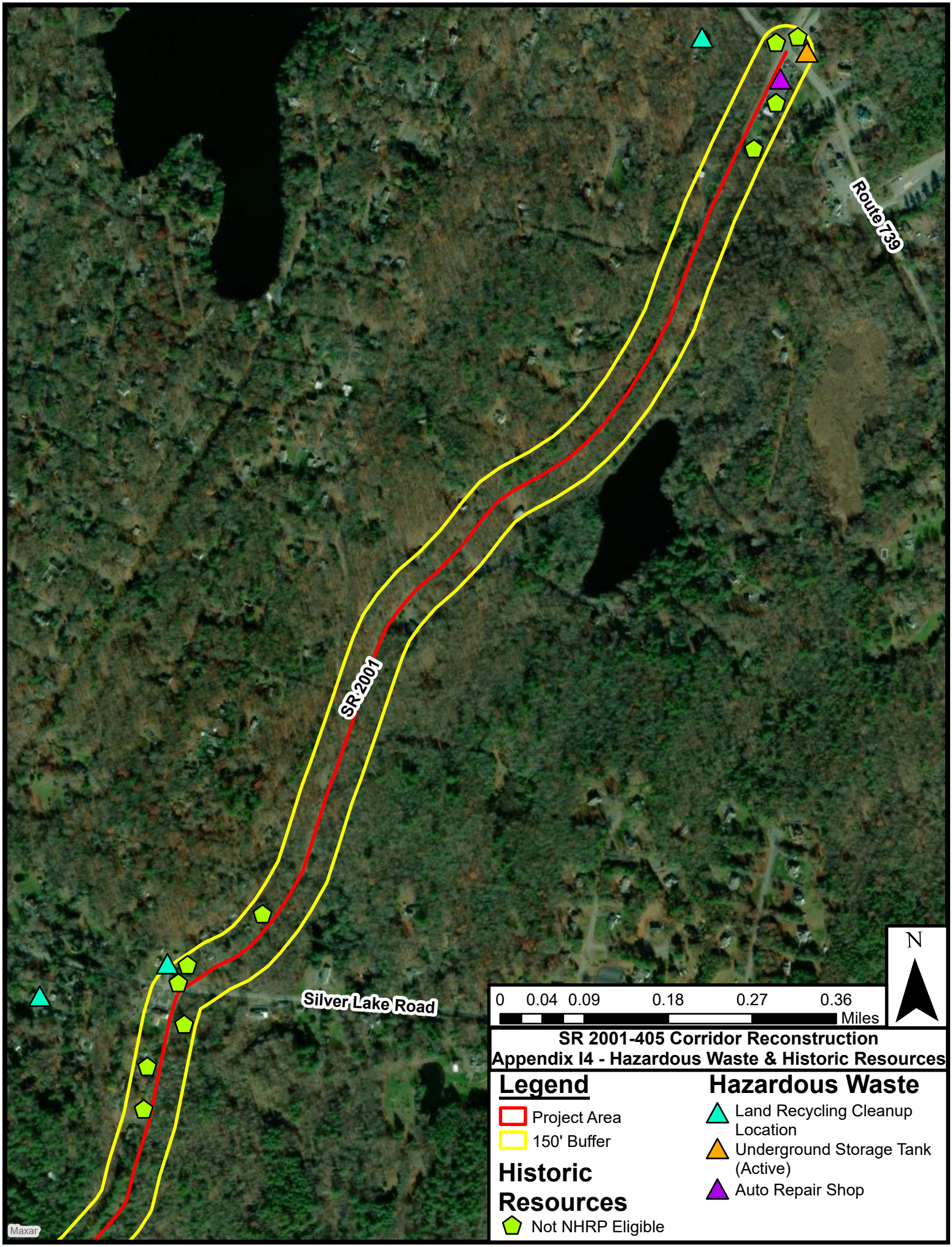
RESOURCES

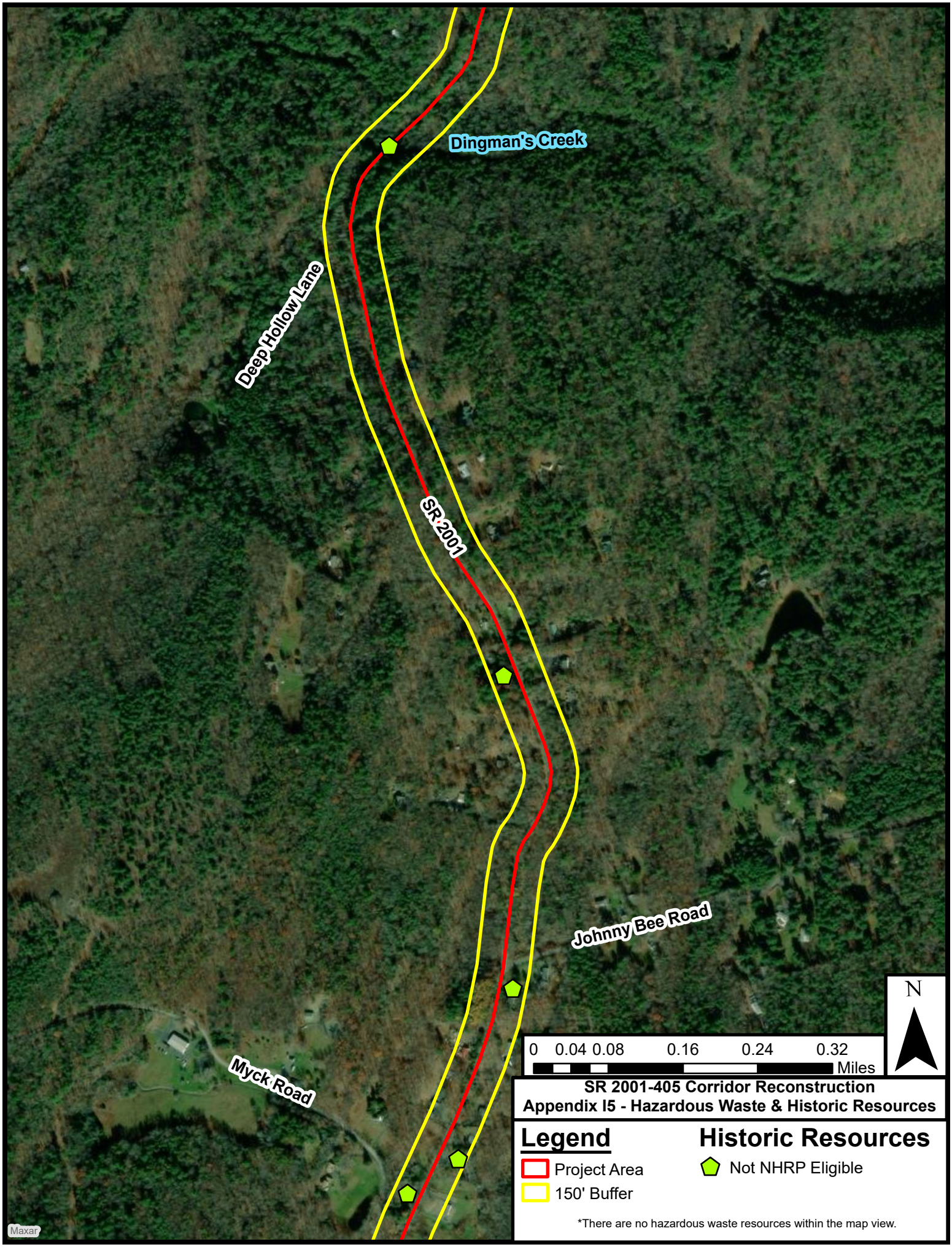

SR 2001-405 Corridor Reconstruction Aerial Map
0 0.13 0.25 0.5 0.75 1
Miles
N
Route 739
Silver Lake Road
Dingman's Creek
Park Road
Wilson Hill Road
Hornbecks Creek
Legend
Project Area
150' Buffer
Maxar

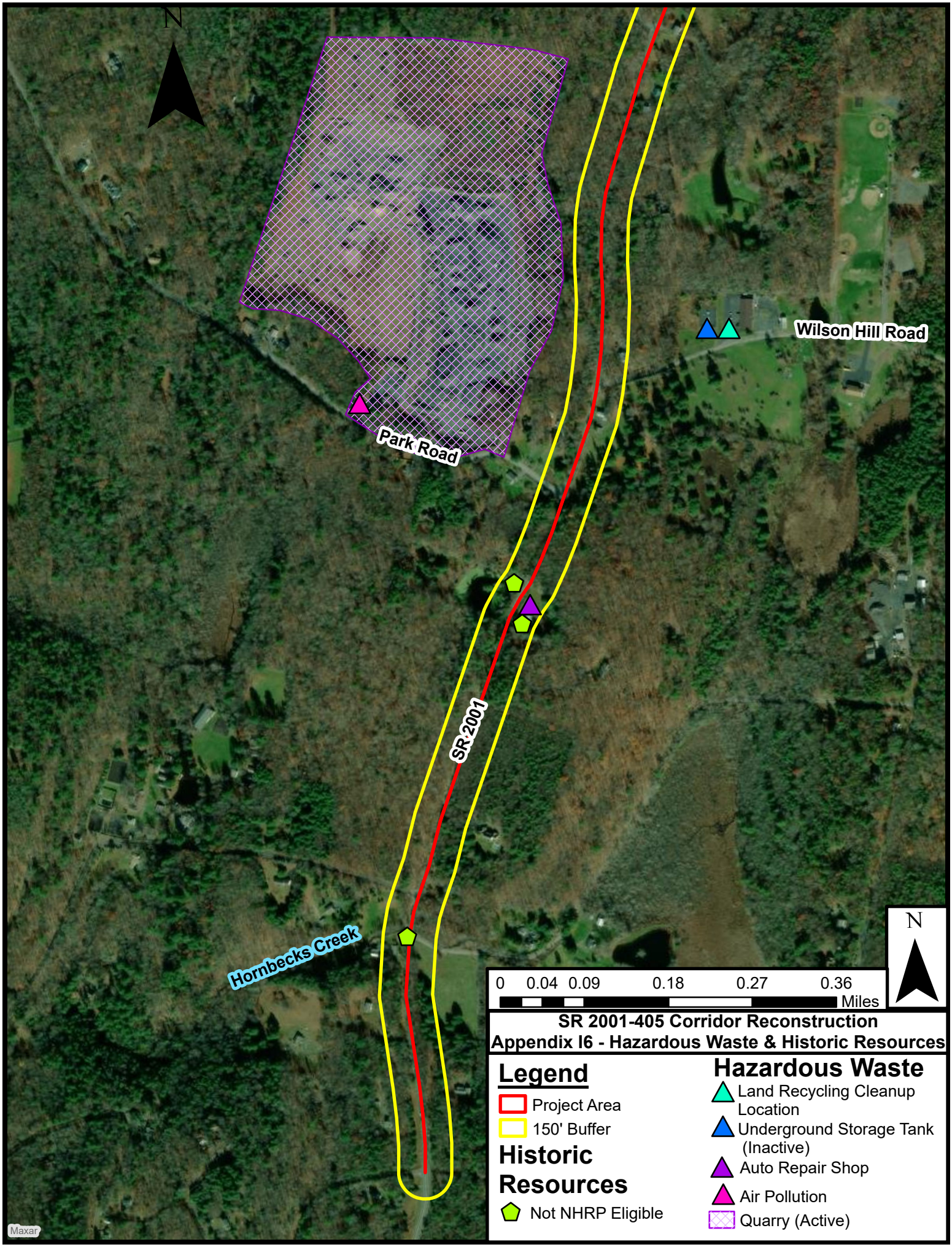

Route 739
SR 2001
Silver Lake Road
Maxar
N
0 0.05 0.1 0.2 0.3 0.4
Miles
SR 2001-405 Corridor Reconstruction
Appendix I1- Recreational & Water Resources
Legend
Project Area
150' Buffer
Recreational Resources
Delaware Gap National Recreation Area
Water Resources
Wild Trout Stream
Wild & Stocked Trout Stream
Flood Zone
Zone A (1% annual chance)
Wetlands
Freshwater Forested
Freshwater Pond
Freshwater Lake


Dingman's Creek
Deep Hollow Lane
SR 2001
Johnny Bee Road
Myck Road
Maxar
N
0 0.04 0.08 0.16 0.24 0.32
Miles
SR 2001-405 Corridor Reconstruction
Appendix I2 - Recreational & Water Resources
Legend
Project Area
150' Buffer
Recreational Resources
Delaware Gap National Recreation Area
Water Resources
Wild Trout Stream
Wild & Stocked Trout Stream
Flood Zone
Zone A (1% annual chance)
Wetlands
Freshwater Forested
Freshwater Pond


Wilson Hill Road
Park Road
SR 2001
Hornbecks Creek
Maxar
N
0 0.05 0.1 0.19 0.29 0.38
Miles
SR 2001-405 Corridor Reconstruction
Appendix I3 - Recreational & Water Resources
Legend
Project Area
150' Buffer
Recreational Resources
Delaware Gap National Recreation Area
Local Park
Water Resources
Wild Trout Stream
Flood Zone
Zone A (1% annual chance)
Wetlands
Freshwater Emergent
Freshwater Forested
Freshwater Pond


Route 739
SR 2001
Silver Lake Road
Maxar
0 0.04 0.09 0.18 0.27 0.36
Miles
N
SR 2001-405 Corridor Reconstruction
Appendix I4 - Hazardous Waste & Historic Resources
Legend
Project Area
150' Buffer
Historic Resources
Not NHRP Eligible
Hazardous Waste
Land Recycling Cleanup Location
Underground Storage Tank (Active)
Auto Repair Shop


Dingman's Creek
Deep Hollow Lane
SR 2001
Johnny Bee Road
Myck Road
Maxar
N
0 0.04 0.08 0.16 0.24 0.32
Miles
SR 2001-405 Corridor Reconstruction
Appendix I5 - Hazardous Waste & Historic Resources
Legend
Project Area
150' Buffer
Historic Resources
Not NHRP Eligible
*There are no hazardous waste resources within the map view.


N
Wilson Hill Road
Park Road
SR 2001
Hornbecks Creek
0 0.04 0.09 0.18 0.27 0.36
Miles
N
SR 2001-405 Corridor Reconstruction
Appendix I6 - Hazardous Waste & Historic Resources
Legend
Project Area
150' Buffer
Historic Resources
Not NHRP Eligible
Hazardous Waste
Land Recycling Cleanup Location
Underground Storage Tank (Inactive)
Auto Repair Shop
Air Pollution
Quarry (Active)
Maxar

1. PROJECT INFORMATION

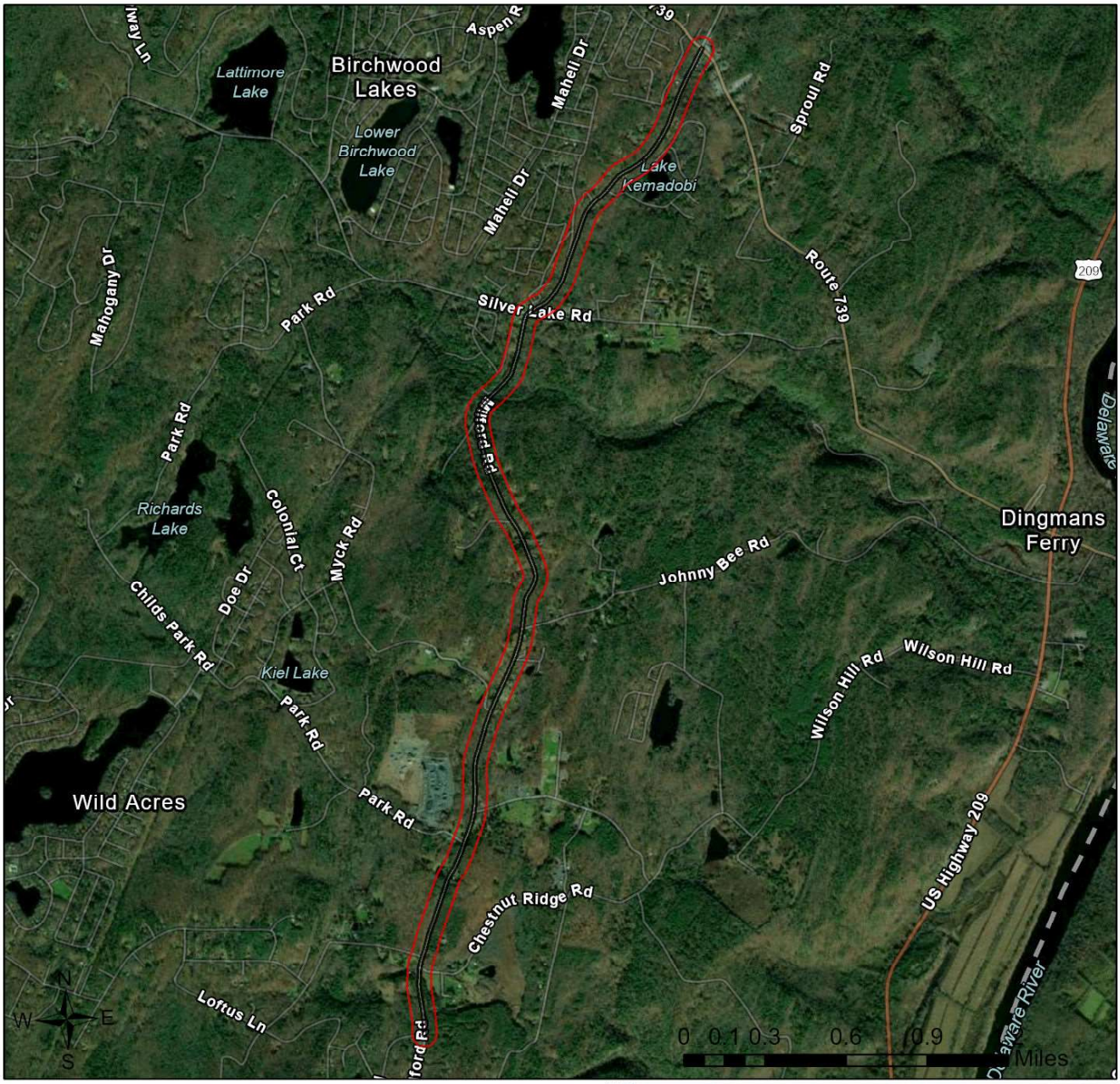
Project Name: **SR 2001 Corridor Development Plan**
Date of Review: **6/26/2025 07:47:01 AM**
Project Category: **Transportation, Roads, Other**
Project Area: **33.01 acres**
County(s): **Pike**
Township/Municipality(s): **Delaware Township**
ZIP Code:
Quadrangle Name(s): **EDGEMERE; LAKE MASKENOZHA**
Watersheds HUC 8: **Middle Delaware-Mongaup-Brodhead**
Watersheds HUC 12: **Dingmans Creek; Hornbecks Creek-Delaware River; Shimers Brook-Delaware River**
Decimal Degrees: **41.213814, -74.911443**
Degrees Minutes Seconds: **41° 12' 49.7315" N, 74° 54' 41.1962" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	**Conservation Measure**	**No Further Review Required, See Agency Comments**
PA Department of Conservation and Natural Resources	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	**Potential Impact**	**MORE INFORMATION REQUIRED, See Agency Response**

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

SR 2001 Corridor Development Plan

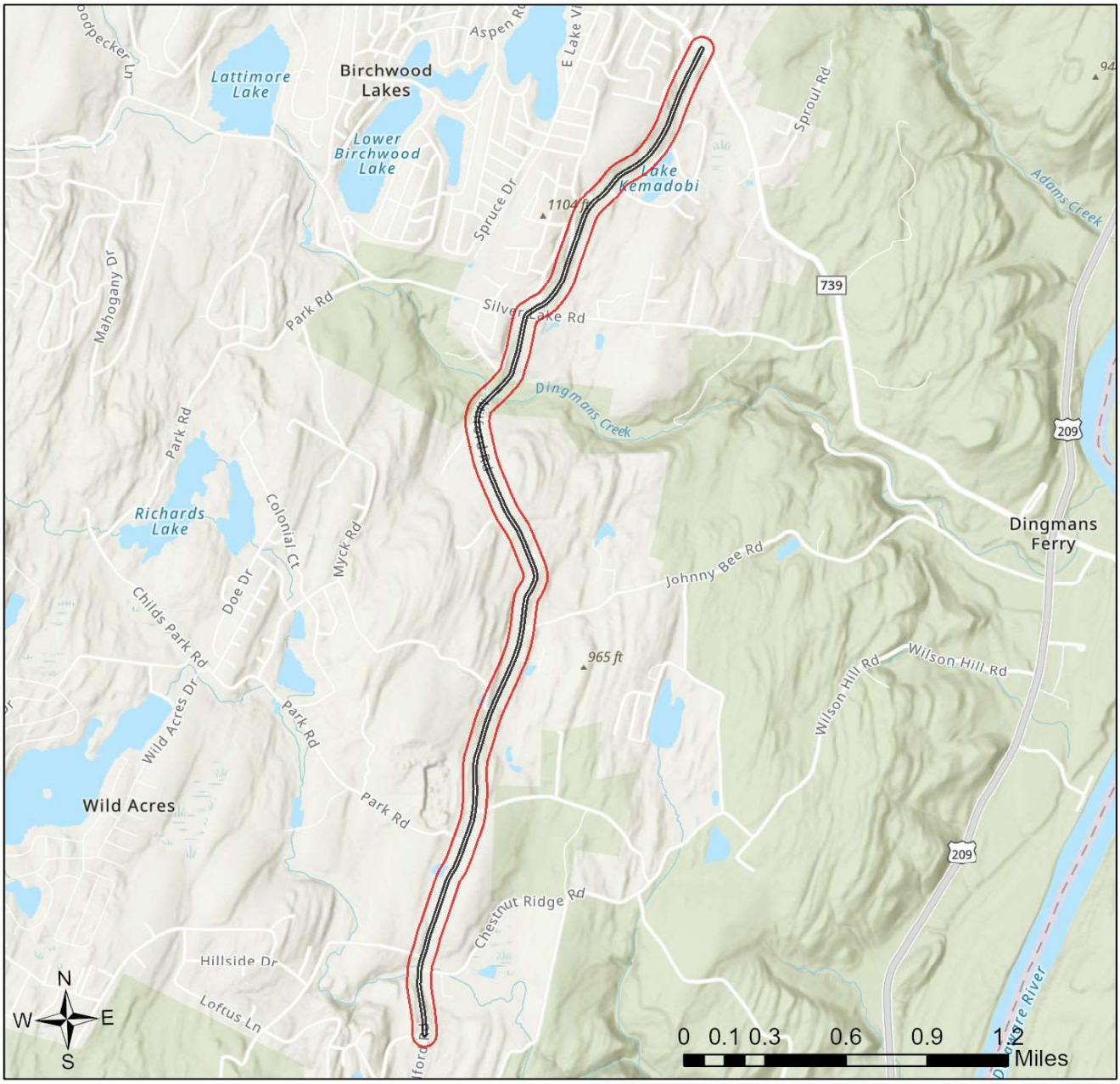


Buffered Project Boundary

Project Boundary

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

SR 2001 Corridor Development Plan



Buffered Project Boundary

Project Boundary

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA,

RESPONSE TO QUESTION(S) ASKED

Q1: Will the entire project occur within an existing building, parking lot, driveway, road, street, or maintained (periodically mowed) lawn?
Your answer is: Unknown

Q2: The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).
Your answer is: The project will affect 40 to 200 acres of forests, woodlots and trees AND a seasonal restriction on tree clearing will be implemented (Conduct any tree cutting, tree inundation (flooding), and prescribed burning from October 1 to March 31.)

Q3: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?
Your answer is: Yes

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jursidictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission
RESPONSE:

Conservation Measure: Potential impacts to state and federally listed species which are under the jurisdiction of both the Pennsylvania Game Commission (PGC) and the U.S. Fish and Wildlife Service may occur as a result of this project. As a result, the PGC defers comments on potential impacts to federally listed species to the U.S. Fish and Wildlife Service. No further coordination with the Pennsylvania Game Commission is required at this time.

PA Department of Conservation and Natural Resources
RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: https://conservationexplorer.dcnr.pa.gov/content/survey-protocols)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Hemileuca maia	Eastern Buckmoth	Special Concern Species*	Special Concern Species*	One brood from September-December

PA Fish and Boat Commission
RESPONSE:
No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service
RESPONSE:
Information Request: Enter project information into IPaC (https://ecos.fws.gov/ipac/). Follow the step-by-step process to review this project's potential effect on federally listed species.

Avoidance Measure: Conduct any tree cutting, disturbance, inundation (flooding) and prescribed burning from October 1 to March 31.

As the project proponent or applicant, I certify that I will implement the above Avoidance Measure:
_____(Signature)

SPECIAL NOTE: **If you agree to implement the above Avoidance Measure and if applicable, any Information Requests, no further coordination with this agency regarding threatened and endangered species and/or special concern species and resources is required.** If you are not able to comply with the Avoidance Measures, you are required to coordinate with this agency - please send project information to this agency for review (see "What to Send" section).

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found here. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).
*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:
____Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
____A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
In addition to the materials listed above, USFWS REQUIRES the following
____**SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.
____Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
____Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Fish and Boat Commission
Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

PA Game Commission
Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Ashley Elslager
Company/Business Name: Michael Baker International
Address: 4431 N Front St, 2nd Floor
City, State, Zip: Harrisburg, PA 17110
Phone:(717) 221 - 2035 Fax:( )
Email: Ashley.Elslager@mbakerintl.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Ashley Elslager
applicant/project proponent signature

06/26/25
date