

**Illinois Department of Transportation  
Local Project Development Report**

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**Kane County Division of Transportation  
Silver Glen Road over Otter Creek**

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**Section No.: 16-00115-02-BR  
Structure No.: 045-3161**

*Prepared by:*

**BAXTER & WOODMAN**  
Consulting Engineers

*[www.baxterwoodman.com](http://www.baxterwoodman.com)*

January 2018





Categorical Exclusion Group I

County: Kane
Local Public Agency: Kane County DOT
Section Number: 16-00115-02-BR
Route: FAP 526 (Silver Glen Road)

Project Number: BRS-0089 (191) Project Length: 750 feet (0.14 mi)
Type of Funds: STP-BR Project Termini: over Otter Creek

Local Agency Jurisdiction: Kane County Division of Transportation

- The improvement consists of total replacement of the existing bridge (SN 045-3122) with a 20" depth three span reinforced concrete slab bridge (SN 045-3161), a new steel truss pedestrian bridge, reconstruction of the approach roadway, and resurfacing to match existing grades at the project limits.
No proposed right-of-way or proposed easements are required with this project. All work is within County right-of-way. No work is within State right-of-way.
No parks will be impacted.
No work is within a historic district.
On-Street parking does not exist and there is no proposed parking.
Pedestrian access along the Riverbend trail will be maintained across the bridge during construction and shall be ADA compliant.
Alternating two-way traffic along Silver Glen Road will be maintained during construction according to IDOT highway standard 701316 with a temporary traffic signal. No detours will be required.
Lighting is not included in this project.
No design variances have been identified for the project.
A PESA was completed during the Phase I and a PSI will not be required. A LPC 662 will be prepared during Phase II.
The project is cleared for construction for wetlands on 10/5/17. Wetland mitigation is proposed at the Blackberry Creek Headquarters Mitigation Bank, located in the Fox River Interagency Wetland Policy Act (IWPA) drainage basin.
The project is located in regulatory floodplain with designated floodway.
Hydraulic report has been approved.

Total Cost of Project: Construction- \$2,064,000
E3- \$240,000
Federal Participation: STP BR 80%/20%

Categorical Exclusion Statement:

This project will not have any significant impacts on the environment, or involve any unusual circumstances, therefore, it is a Categorical Exclusion I.

Local Agency signature and date (JANUARY 24, 2018)
Regional Engineer signature and date (2/22/18)

Required Attachments (when applicable):

- Location Map
- Existing and Proposed Typical Sections
- Coordination with Local Bridge Unit when structures are impacted
- List of sign quantities for Rural Sign Program projects
- Layout of sidewalks for sidewalk projects
- Coordination meeting minutes if applicable
- Approved BLR 22120 form for approved design variances
- Other: See Next page for List of Exhibits

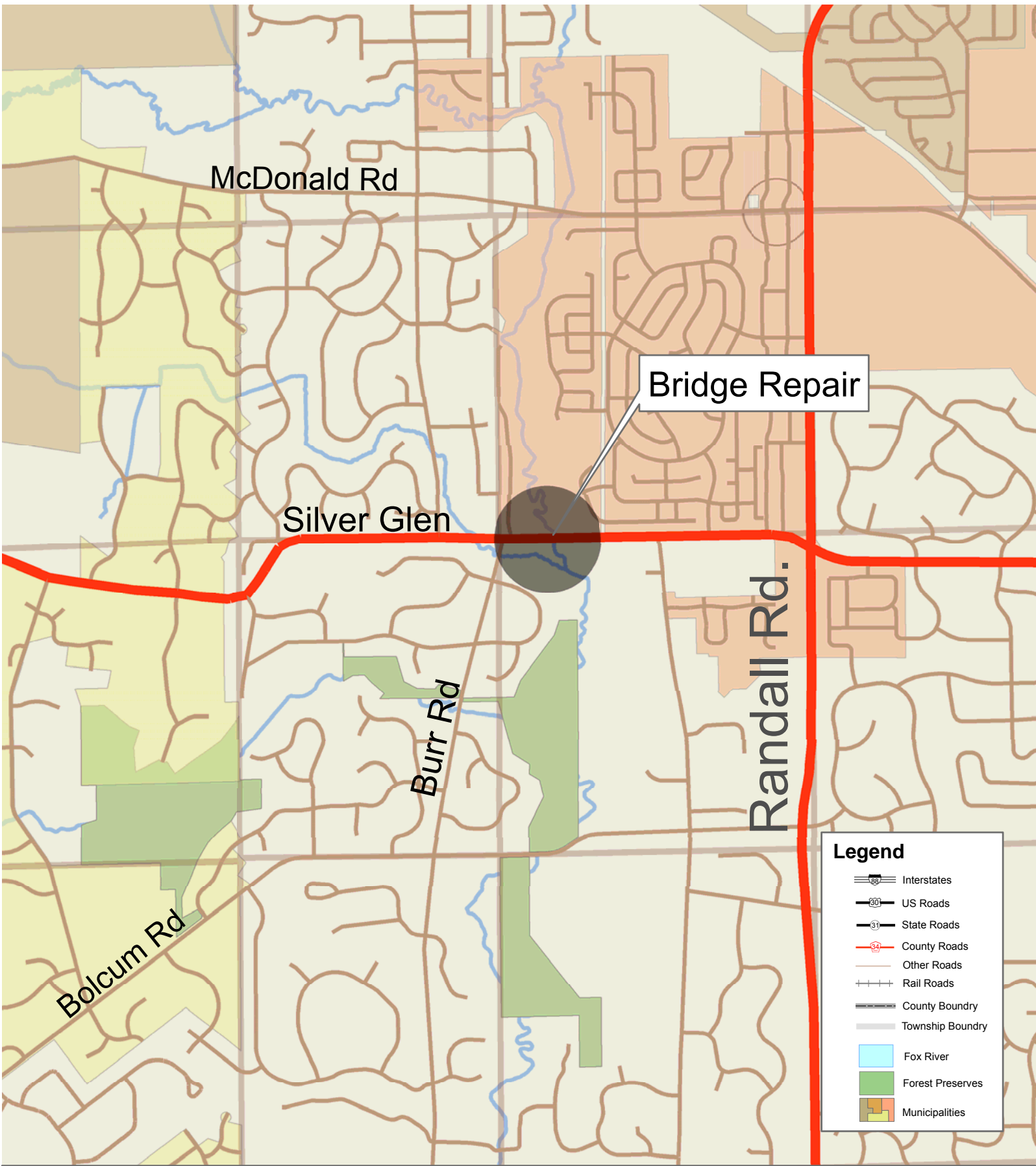
## Exhibits

1. Location and Functional Classification Map
2. Typical Sections
3. Plan and Profile Sheets- Silver Glen Road
4. Plan and Profile Sheet- River Bend Trail
5. TS&L
6. Bridge Condition Report Approval Memorandum
7. Preliminary Bridge Design & Hydraulic Report (PBDHR) Approval Memorandum
8. Maintenance of Traffic Technical Memorandum
9. Preliminary Estimate of Cost
10. CMAP Coordination
11. USACE Correspondence
12. Existing Utility Plan and Coordination
13. Local PESA
14. Project Overview for Environmental Clearances
15. Floodway Permit
16. Local Agency Informational Letters
  - Village of South Elgin
  - South Elgin Fire Department
  - South Elgin Post Office
  - St. Charles School District
  - St. Charles Park District
  - City of St. Charles
  - Village of Campton Hills
  - City of Elgin
  - Kane County's Sheriff's Office
  - CUSD 303 Department of Transportation
  - St. Charles Highway Commissioner
  - River Bend Trail- South Elgin
17. IDOT Kick-off Meeting Minutes
18. FHWA Coordination Meeting Minutes
19. Guardrail Analysis
20. Public Involvement- Kane County Website



• **EXHIBIT 1- LOCATION AND  
FUNCTIONA CLASSIFICATION  
MAP**



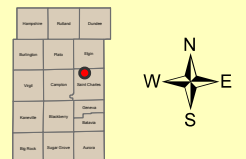
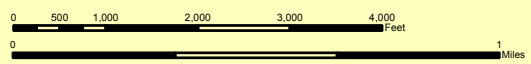


**Legend**

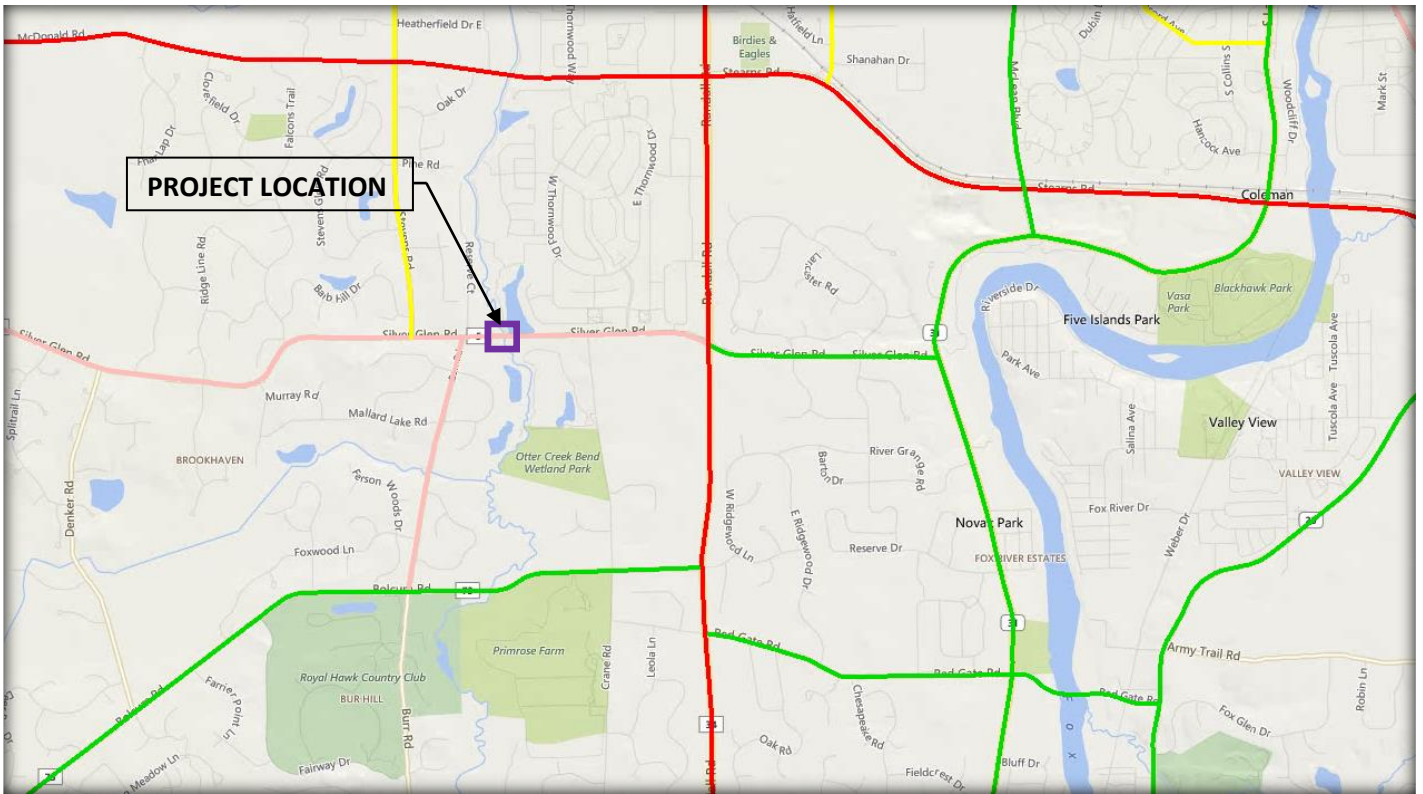
- Interstates
- US Roads
- State Roads
- County Roads
- Other Roads
- Rail Roads
- County Boundary
- Township Boundary
- Fox River
- Forest Preserves
- Municipalities

# Location Map

## Silver Glen Road over Otter Creek



# Functional Classification Map



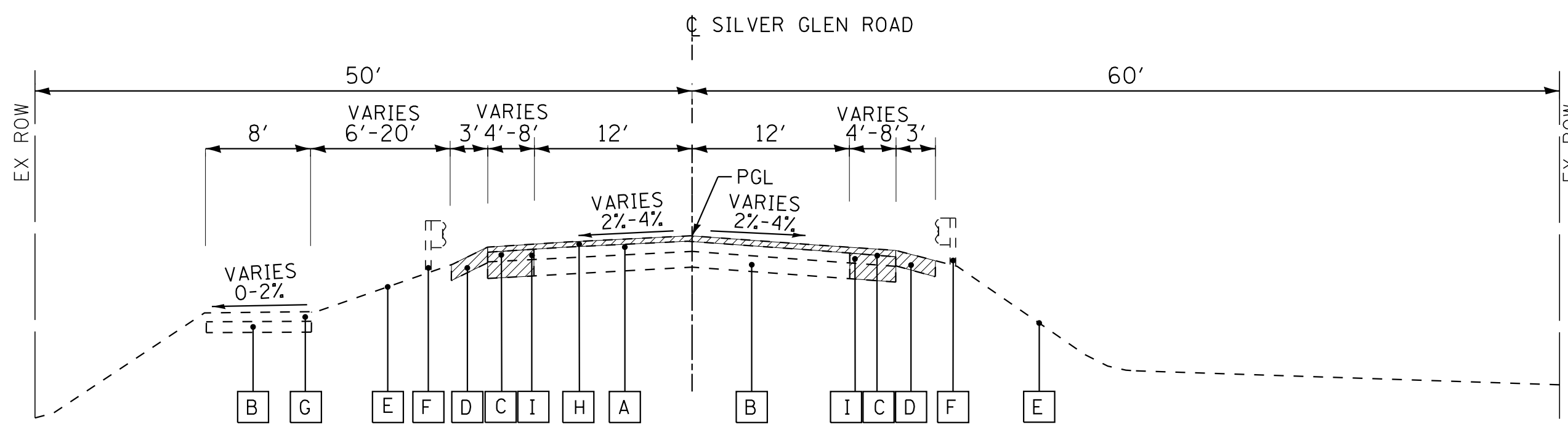
Silver Glen Road over Otter Creek  
 Kane County Division of Transportation  
 Section No: 16-00115-02-BR

5-Year Classification	
	Interstate
	Freeway or Expressway
	Other Principal Arterial
	Minor Arterial
	Major Collector
	Minor Collector
	Local Highway, Streets
	Urban Boundary

Other Map Base Features	
	Interstate, U.S., State
	Railroad
	State Boundary
	County Boundary
	Incorporated Town
	River, Stream
	Waterbody
	Civil Township or District

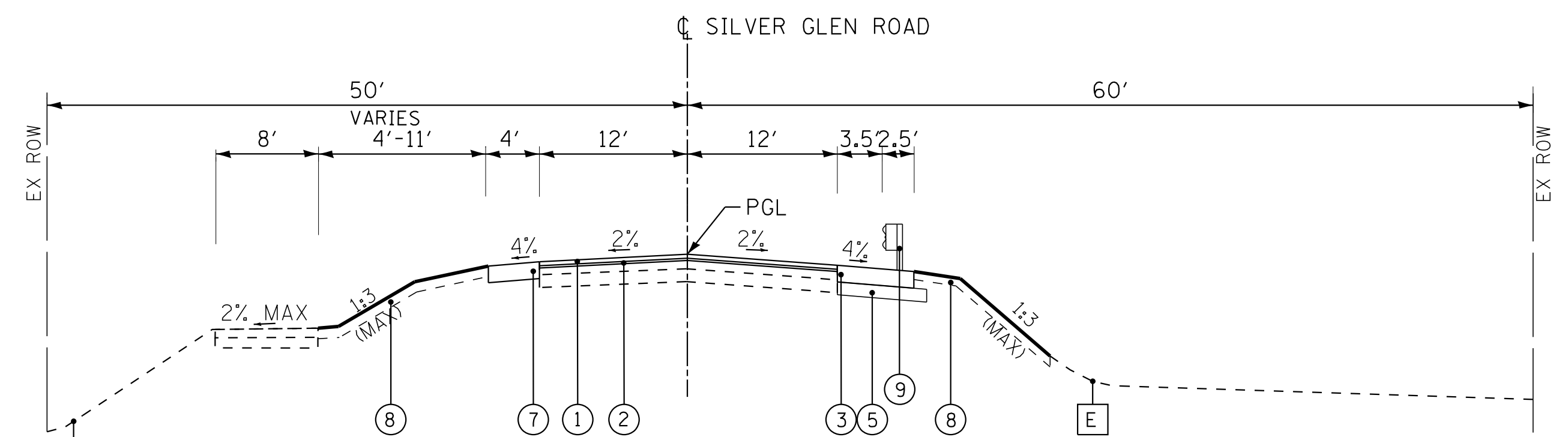
• **EXHIBIT 2-  
TYPICAL SECTIONS**





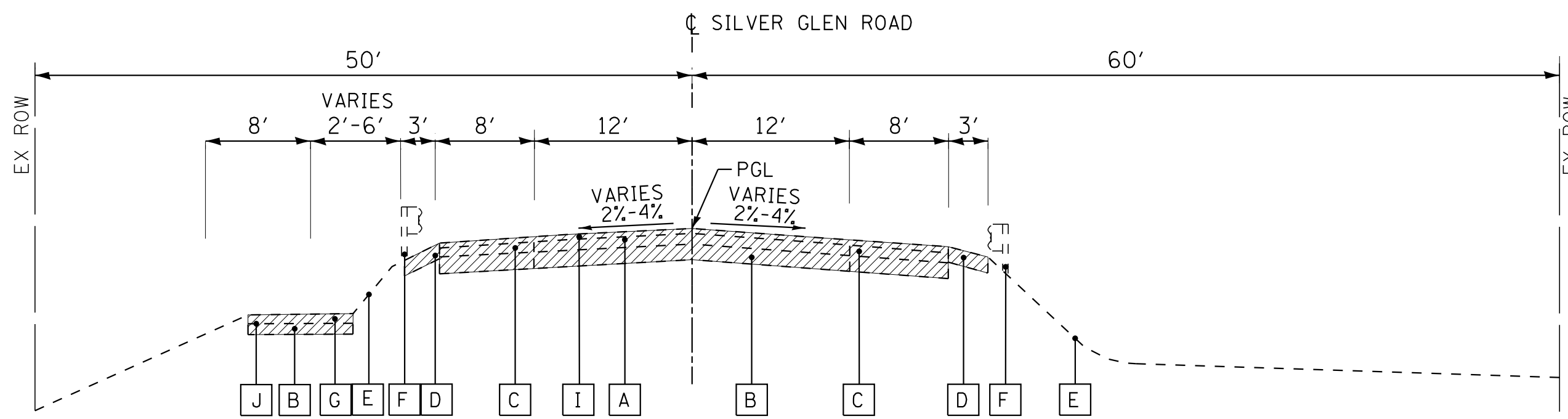
**EXISTING TYPICAL SECTION**

STA 46+50 TO STA 49+04  
STA 51+89 TO STA 53+60



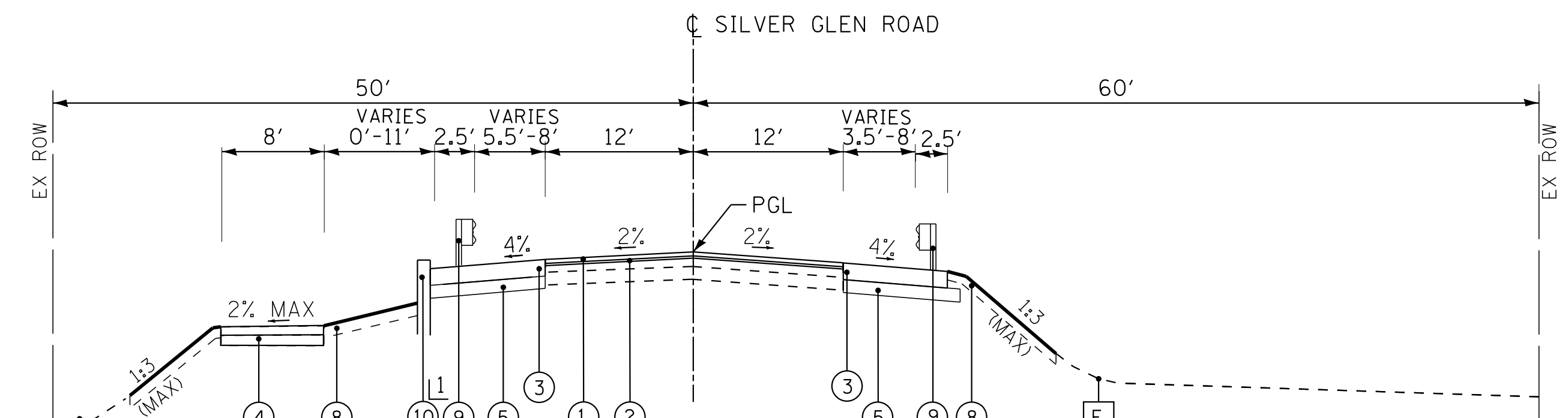
**PROPOSED TYPICAL SECTION**

STA 46+50 TO STA 48+32



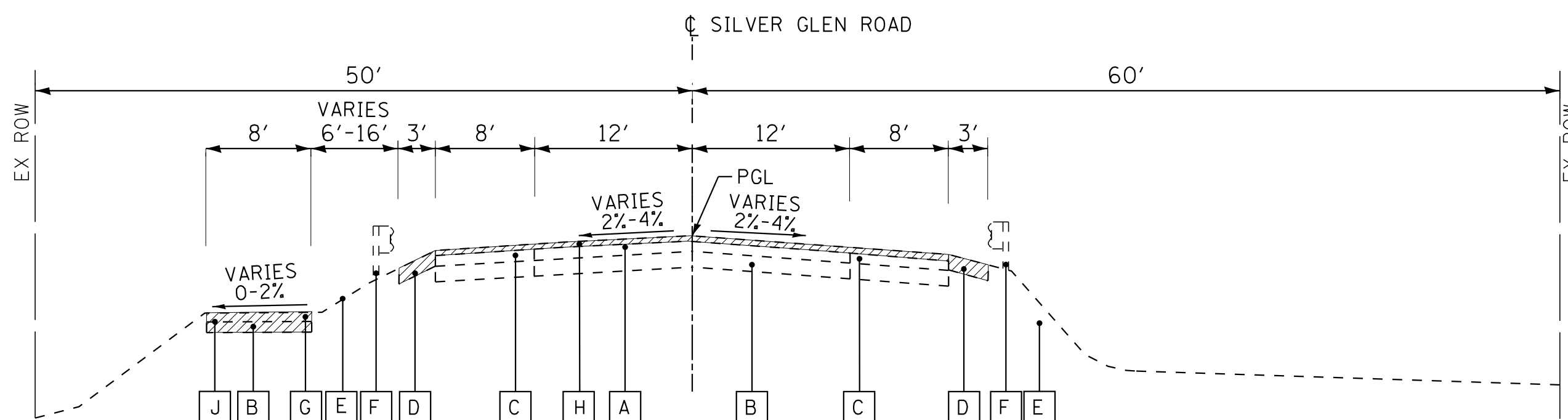
**EXISTING TYPICAL SECTION**

STA 49+04 TO STA 49+54  
STA 50+46 TO STA 50+96



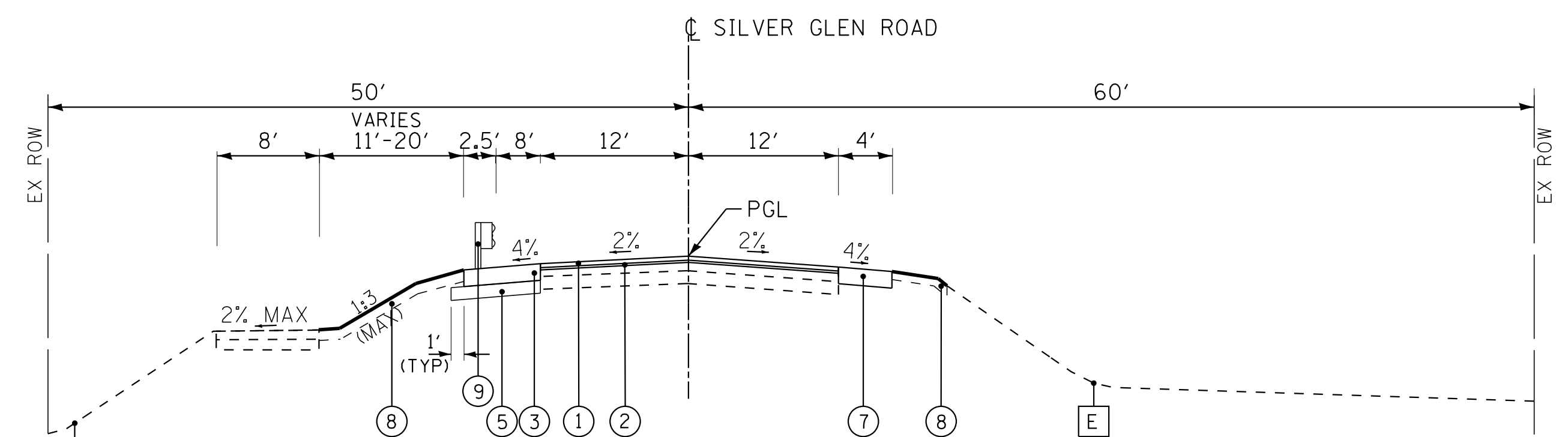
**PROPOSED TYPICAL SECTION**

STA 48+32 TO STA 49+04  
STA 50+96 TO STA 51+67  
L STA 50+57 TO STA 51+70



**EXISTING TYPICAL SECTION**

STA 50+96 TO STA 51+89



**PROPOSED TYPICAL SECTION**

STA 51+67 TO STA 53+60

**EXISTING LEGEND**

- A HMA PAVEMENT
- B AGGREGATE SUBBASE
- C HMA SHOULDER
- D AGGREGATE SHOULDER
- E GROUND
- F GUARDRAIL REMOVAL
- G HMA PATH
- H HMA SURFACE REMOVAL
- I PAVEMENT REMOVAL
- J BIKE PATH REMOVAL
- ITEM TO BE REMOVED

**PROPOSED LEGEND**

- 1 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-1-1/2"
- 2 LEVELING BINDER (MACHINE METHOD), N50-3/4"
- 3 HOT-MIX ASPHALT SHOULDER, 8"
- 4 HOT-MIX ASPHALT PATH  
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-3"  
AGGREGATE BASE COURSE, TYPE B, 8"
- 5 AGGREGATE SUBGRADE IMPROVEMENT- 12" (SQ YD)
- 6 NOT USED
- 7 AGGREGATE SHOULDER, TYPE B-6"
- 8 TOPSOIL FURNISH AND PLACE AND SEEDING
- 9 STEEL PLATE BEAM GUARDRAIL, TYPE A  
6 FOOT POSTS
- 10 SHEET PILE RETAINING WALL (HEIGHT VARIES 1' TO 4')

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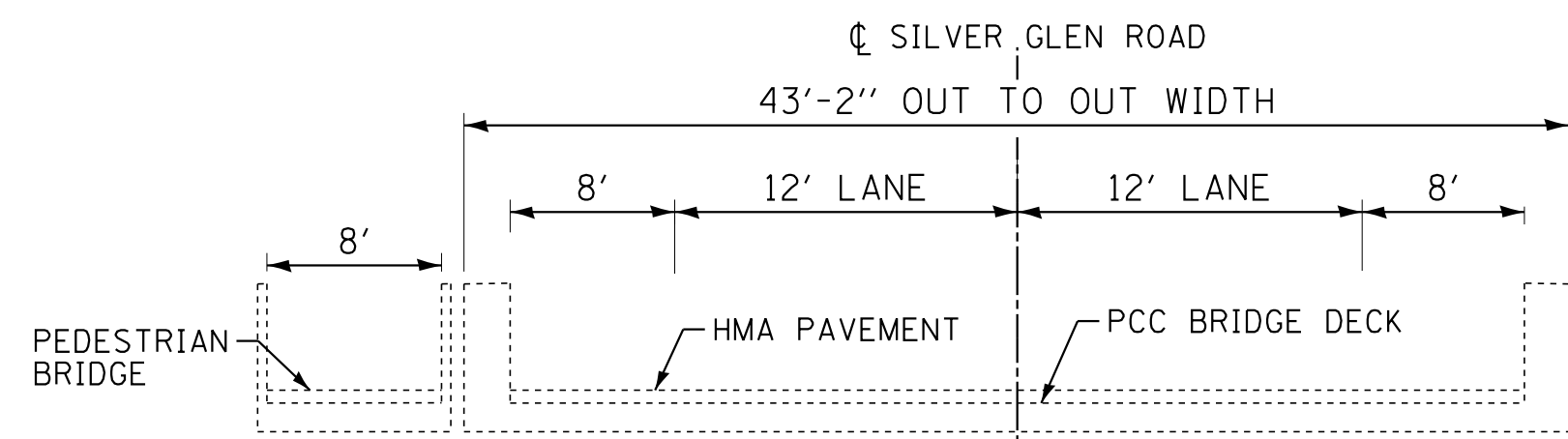
**KANE COUNTY DIVISION OF TRANSPORTATION  
SILVER GLEN ROAD OVER OTTER CREEK**

**TYPICAL SECTIONS  
SILVER GLEN ROAD: ROADWAY**

SCALE: NONE

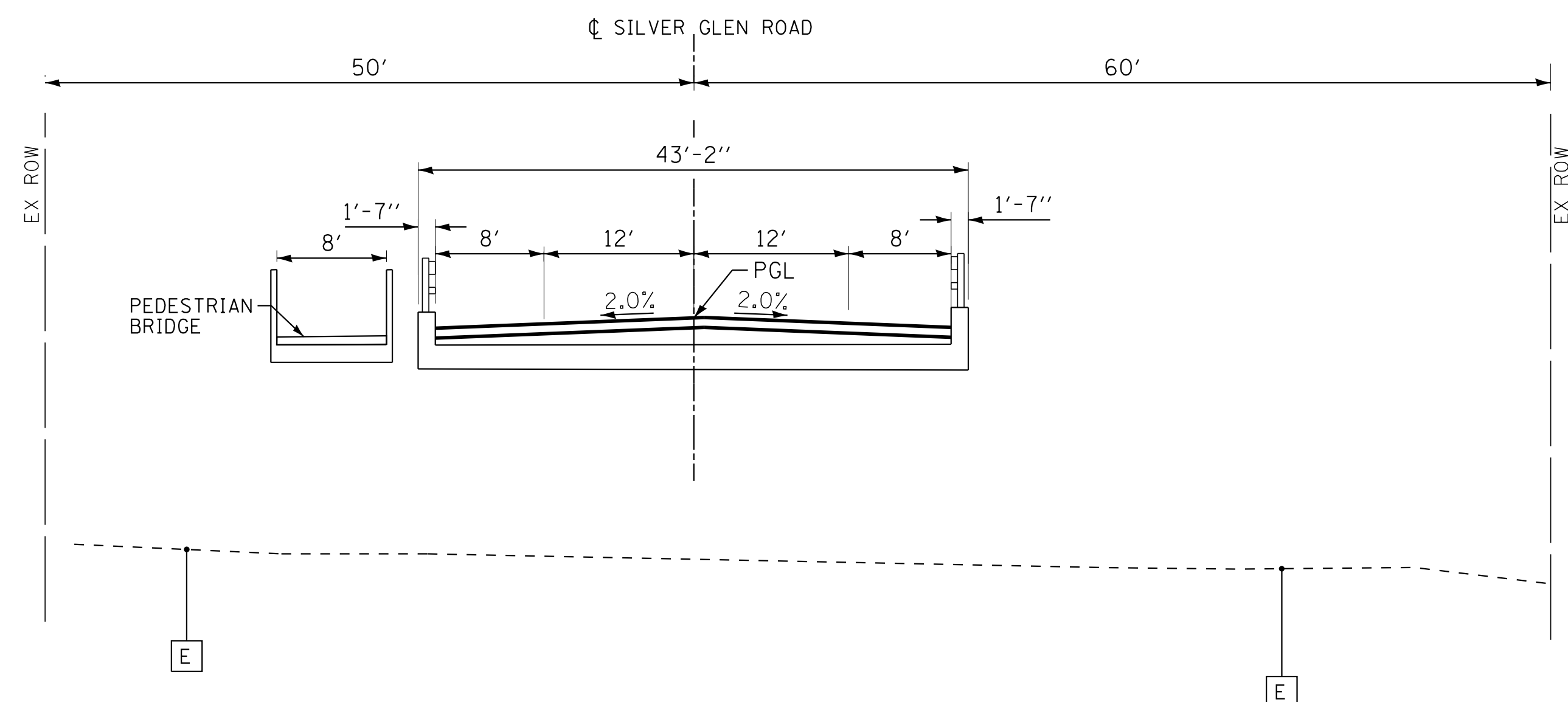
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	2	1
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO.	



**EXISTING TYPICAL SECTION  
BRIDGE**

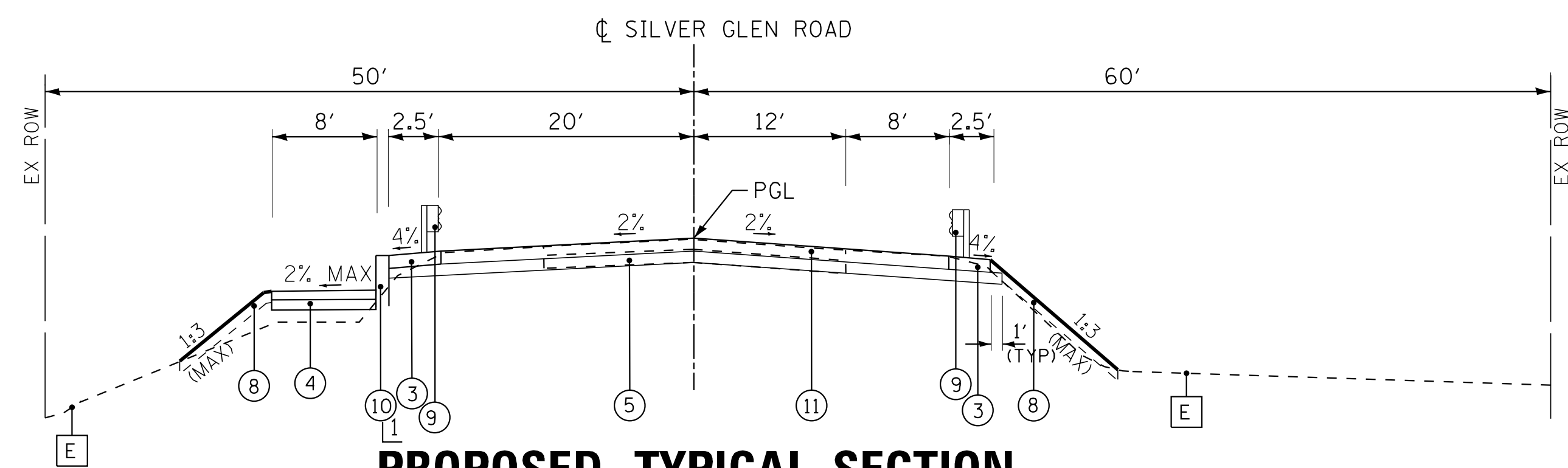
STA 49+54 TO STA 50+46



**PROPOSED TYPICAL SECTION AT BRIDGE**

STA 49+14 TO STA 50+86

SEE TS&L FOR ADDITIONAL DETAILS ON PROPOSED BRIDGE REPLACEMENT



**PROPOSED TYPICAL SECTION**

STA 49+04 TO STA 49+14  
STA 50+86 TO STA 50+96  
APPROACH PAVEMENT

1 STA 50+57 TO STA 51+70

**EXISTING LEGEND**

- A HMA PAVEMENT
- B AGGREGATE SUBBASE
- C HMA SHOULDER
- D AGGREGATE SHOULDER
- E GROUND
- F GUARDRAIL REMOVAL
- G HMA PATH
- H HMA SURFACE REMOVAL
- I PAVEMENT REMOVAL
- J BIKE PATH REMOVAL
- ITEM TO BE REMOVED

**PROPOSED LEGEND**

- 1 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-1-1/2"
- 2 LEVELING BINDER (MACHINE METHOD), N50-3/4"
- 3 HOT-MIX ASPHALT SHOULDER, 8"
- 4 HOT-MIX ASPHALT PATH  
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-3"  
AGGREGATE BASE COURSE, TYPE B, 8"
- 5 AGGREGATE SUBGRADE IMPROVEMENT- 12" (SO YD)
- 6 NOT USED
- 7 AGGREGATE SHOULDER, TYPE B-6"
- 8 TOPSOIL FURNISH AND PLACE AND SEEDING
- 9 STEEL PLATE BEAM GUARDRAIL, TYPE A  
6 FOOT POSTS
- 10 SHEET PILE RETAINING WALL (HEIGHT VARIES 1' TO 4')
- 11 APPROACH SLAB

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**KANE COUNTY DIVISION OF TRANSPORTATION  
SILVER GLEN ROAD OVER OTTER CREEK**

**TYPICAL SECTIONS  
SILVER GLEN ROAD: BRIDGE**

SCALE: NONE

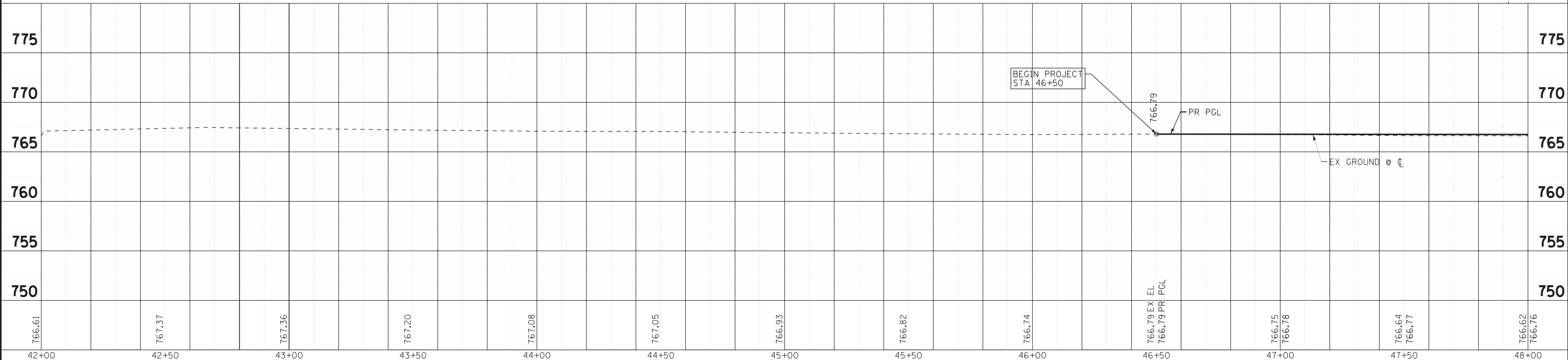
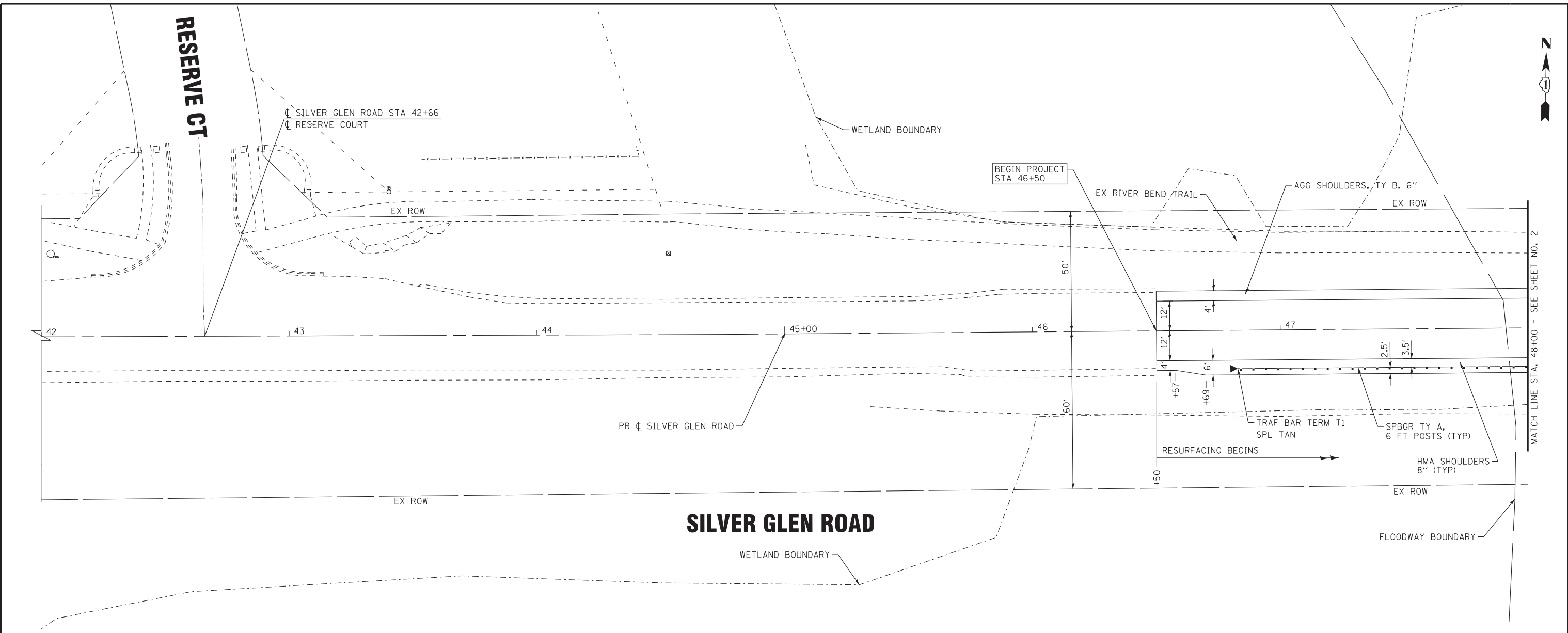
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO.	



**• EXHIBIT 3-PLAN AND PROFILE  
SILVER GLEN ROAD**





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**KANE COUNTY DIVISION OF TRANSPORTATION**  
**SILVER GLEN ROAD OVER OTTER CREEK**

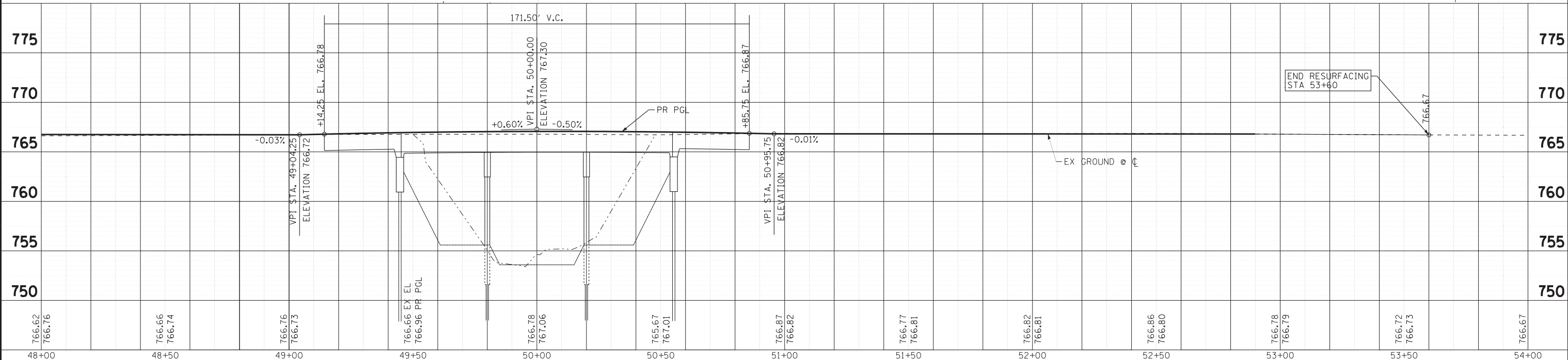
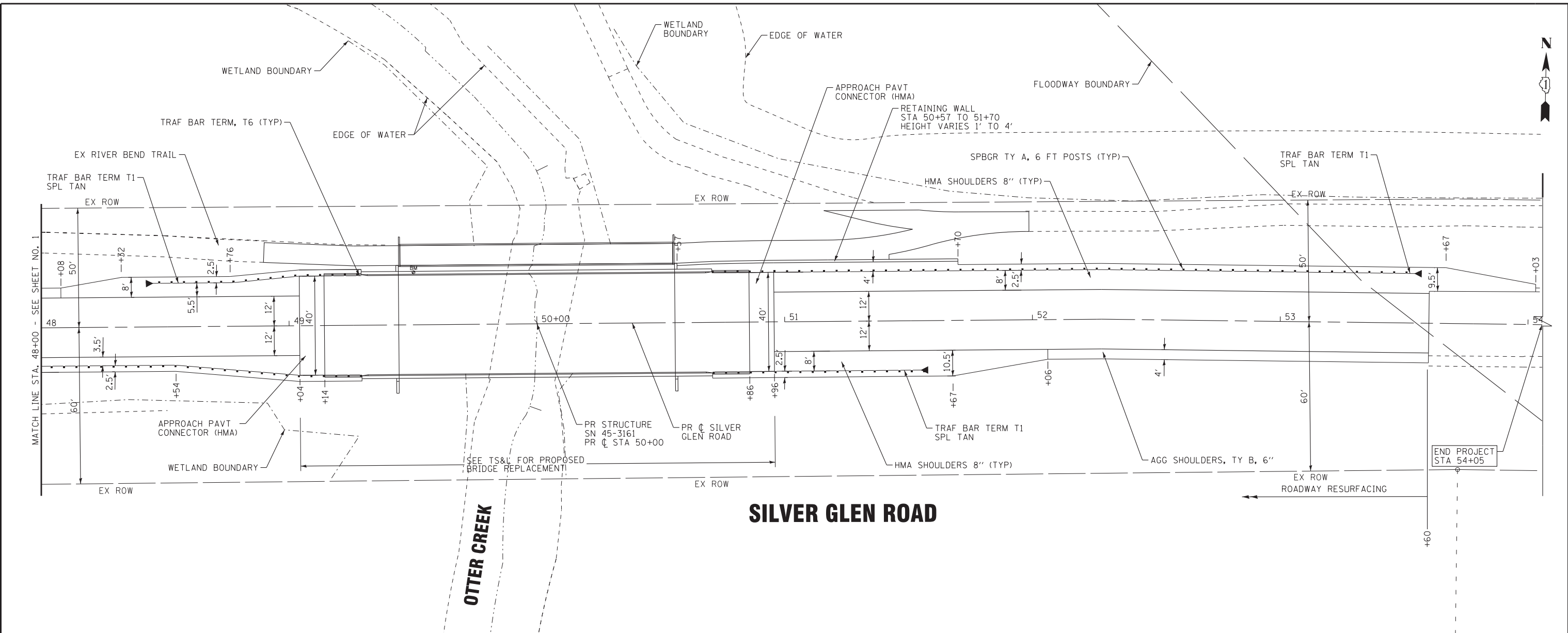
**PLAN AND PROFILE**  
**SILVER GLEN RD**

SCALE: H: 1"=20' V: 1"=5'

STA. 42+00 TO STA. 48+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	2	1
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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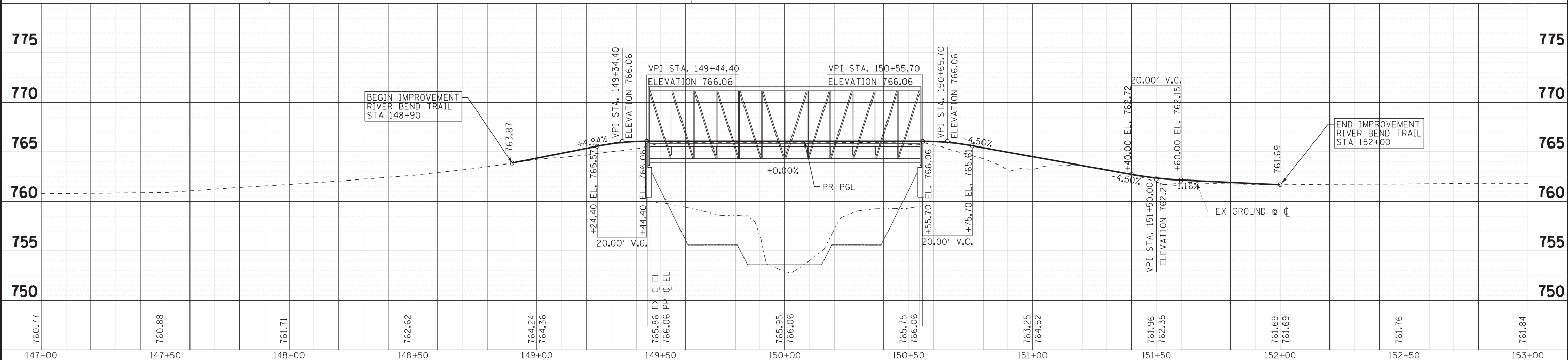
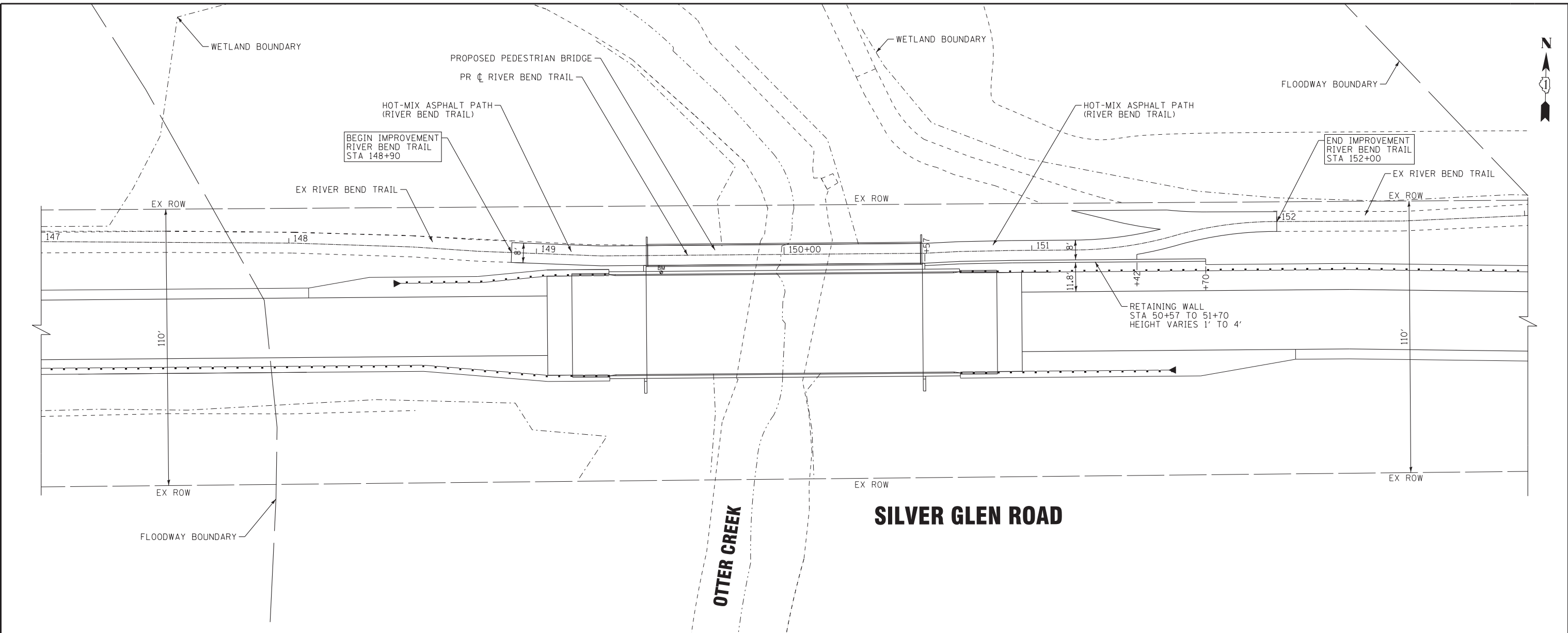
**KANE COUNTY DIVISION OF TRANSPORTATION  
 SILVER GLEN ROAD OVER OTTER CREEK**

**PLAN AND PROFILE  
 SILVER GLEN RD**

SCALE: H: 1"=20' V: 1"=5'

STA. 48+00 TO STA. 54+00

F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 2	SHEET NO. 2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO.	



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DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 01-02-18	FILE - 160541SHT_PP3_BikePath.dgn

**KANE COUNTY DIVISION OF TRANSPORTATION**  
**SILVER GLEN ROAD OVER OTTER CREEK**

**PLAN AND PROFILE**  
**RIVER BEND TRAIL**

SCALE: H: 1"=20' V: 1"=5'

STA. 147+00 TO STA. 153+00

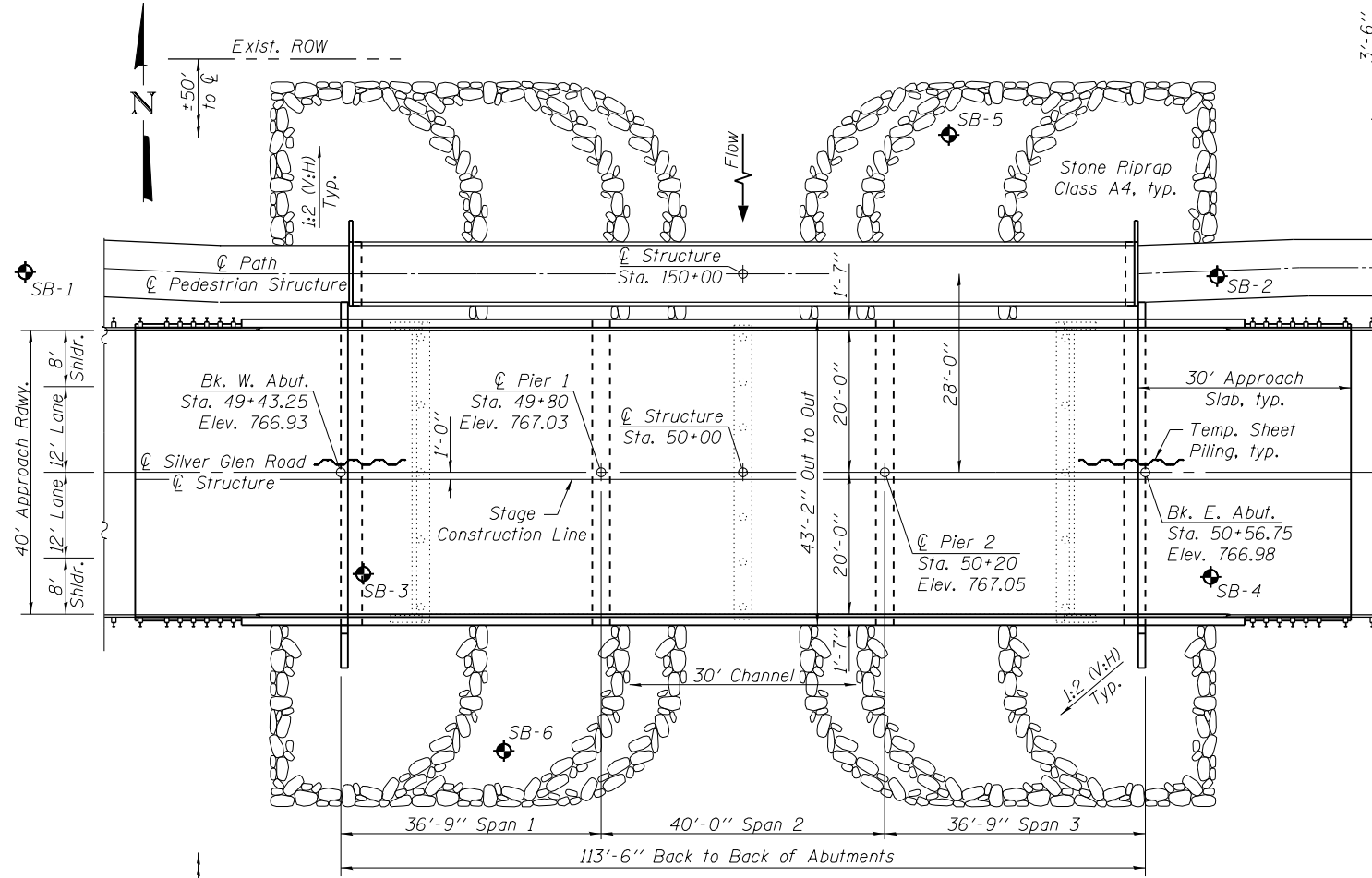
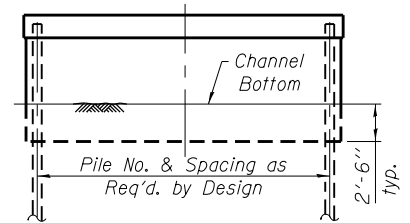
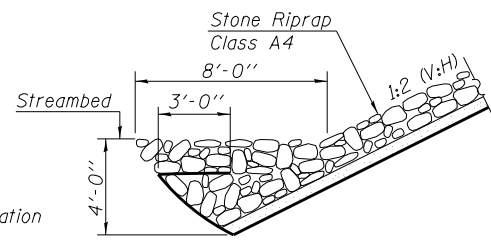
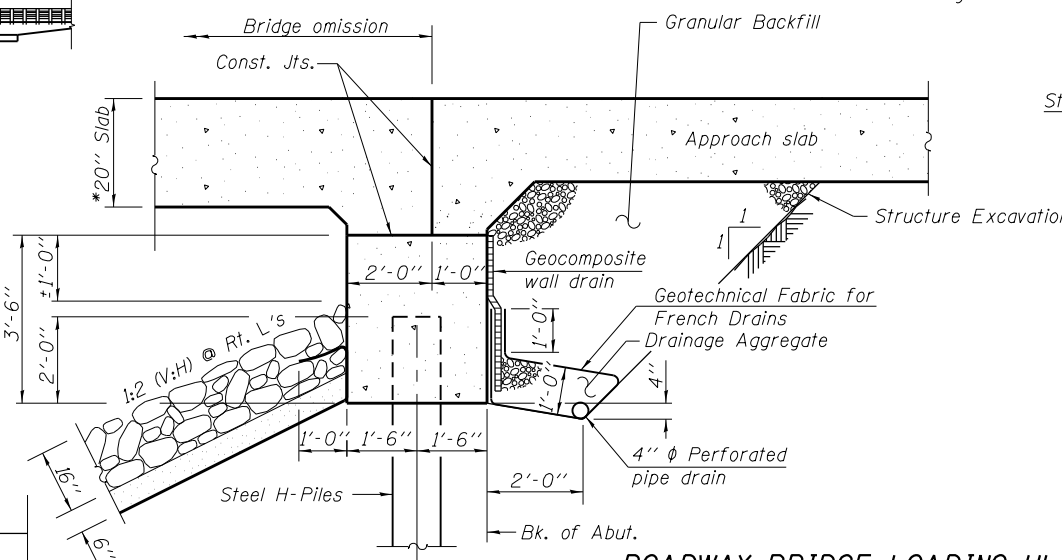
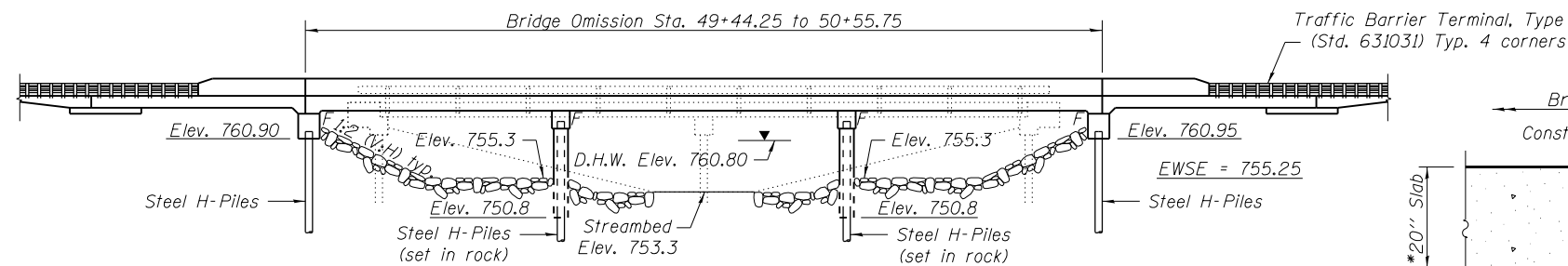
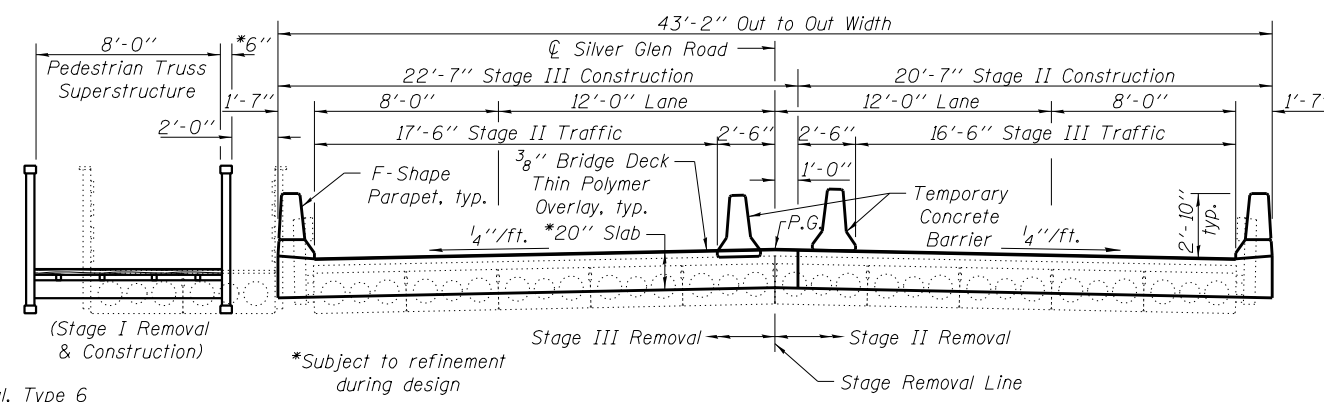
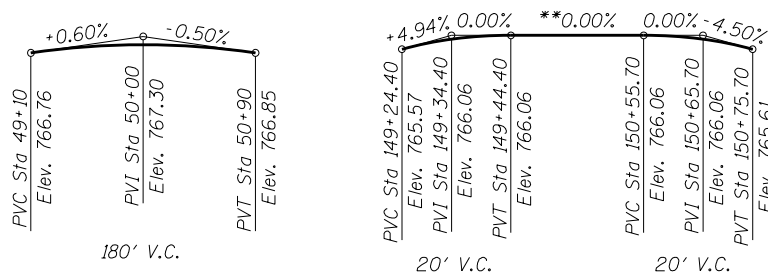
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	1	1
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO.		



Benchmark: Chiseled square at northwest corner of bridge, Elev. 766.17

Existing Structure: SN 045-3122, built in 1984, the existing bridge is a two-span precast prestressed concrete deck beam superstructure supported by open concrete abutments on concrete piles and a pier cap beam on exposed concrete piles. The bridge was widened around year 2000 to include a pedestrian path. The roadway structure measures 93'-5" back to back of abutments, and 40'-0" out to out. Bridge is to be removed and replaced with a three-span reinforced concrete slab structure on pile bent piers and abutments, and a separate steel truss pedestrian bridge. Traffic to be maintained using staged construction.

No Salvage.



**DESIGN SCOUR ELEVATION TABLE**

Event / Limit	Design Scour Elevations (ft.)					Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.		
State	762.55	751.37	751.37	762.55		8
Q100	761.67	751.14	751.14	761.63		
Design	760.90	750.80	750.80	760.95		
Design	760.90	750.80	750.80	760.95		
Check	760.90	750.80	750.80	760.95		

**HIGHWAY CLASSIFICATION**  
F.A.P. Rte. 526 (Silver Glen Road)  
Functional Class: Major Collector  
ADT: 8,200 (2015); 11,000 (2040)  
ADTT: 328 (2015); 440 (2040)  
DHV: 10%  
Design Speed: 50 m.p.h.  
Posted Speed: 45 m.p.h.  
2-Way Traffic  
Directional Distribution: 50/50

**ROADWAY BRIDGE LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.  
**PEDESTRIAN BRIDGE LOADING 90PSF & H5 TRUCK**

**DESIGN SPECIFICATIONS**  
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims & 2009 LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition, with 2015 Interims

**DESIGN STRESSES**  
**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

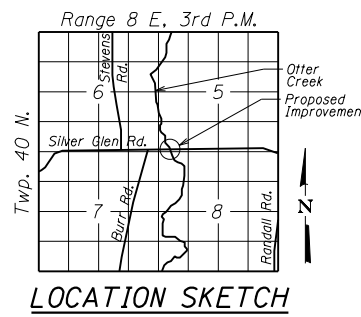
**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.036g  
Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.097g  
Soil Site Class = B

**WATERWAY INFORMATION**

Drainage Area = 29.7 Sq. Mi. Low Grade Elev. 766.65 @ Sta. 47+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	950	231	507	760.26	0.37	0.28	760.63	760.54
Base	30	1491	285	592	760.80	0.75	0.64	761.55	761.44
Overtopping	100	2243	354	690	761.49	1.12	0.96	762.61	762.45
Max. Calc.	-	-	-	-	-	-	-	-	-
	500	4254	426	867	762.64	2.74	2.02	765.38	764.66

2 yr. flow rate = 536 C.F.S.



**GENERAL PLAN**  
**SILVER GLEN ROAD OVER OTTER CREEK**  
**SEC. 16-00115-02-BR**  
**KANE COUNTY**  
**STATION 50+00**  
**STRUCTURE NO. 045-3161**



**• EXHIBIT 6- BRIDGE CONDITION  
REPORT APPROVAL**





# Illinois Department of Transportation

## Memorandum

---

To: Anthony J. Quigley, District 1      Attn: Christopher J. Holt  
From: D. Carl Puzey      *D. Carl Puzey*  
Subject: BRIDGE CONDITION REPORT APPROVAL  
Date: June 7, 2017

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STP - Bridge Funding  
Kane County  
Section 16-00115-02-BR

SN 045-3122

F.A.P. 526 (Silver Glen Road) over Otter Creek

The bridge condition report, dated March 2017, for the above-designated bridge replacement project is satisfactory and is hereby approved. This includes the removal of the associated pedestrian bridge.

Approval of the project is contingent on approval by others of the proposed geometry, obtaining environmental signoffs, and any required historic structure coordination and other approvals required by statutes or the policies of the Department.

Two copies of the approved report are being returned and we will retain one copy for our files. If you have any questions, contact Matt Humke at 217/782-5929 or [matt.humke@illinois.gov](mailto:matt.humke@illinois.gov).

MDH/kkt0453122-20170607

RECEIVED  
BUREAU OF

JUN 13 2017

LOCAL ROADS & STREETS

**• EXHIBIT 7- PBDHR APPROVAL**





# Illinois Department of Transportation

## Memorandum

---

To: Anthony J. Quigley, District 1      Attn: Christopher J. Holt  
From: D. Carl Puzey      By: Timothy A. Armbrecht  
Subject: PRELIMINARY DESIGN APPROVAL  
Date: December 28, 2017

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Handwritten signature of Timothy A. Armbrecht in black ink.

STP – Bridge Funding  
Kane County  
Section 16-00115-02-BR

SN 045-3161

F.A.P. 526 (Silver Glen Road) over Otter Creek

The preliminary bridge design and hydraulic report, dated July 25, 2017, for the above-designated bridge replacement project is satisfactory based on the consultant's disposition to our review comments and revised Type, Size, & Location drawings, received by e-mail correspondence on November 2, 2017, which adequately address our review comments. The preliminary bridge design is hereby approved.

This approval is contingent on the hydraulics being approved by your office or by the Bartlett IDNR Office of Water Resources.

The design of the proposed pedestrian bridge superstructure and substructure elements must comply with the requirements of the '2009 American Association of State Highway Transportation Officials (AASHTO) LRFD Guide Specifications for Design of Pedestrian Bridges', and the '2014 AASHTO LRFD Bridge Design Specifications', with updates, as well as other specifications referenced within the above documents. A current copy of Guide Bridge Special Provision GBSP 33, "Pedestrian Truss Superstructure", shall be inserted into the project special provisions **without modification**. GBSP 33 may be found at <http://www.idot.illinois.gov/Assets/uploads/files/Doing-Business/Manuals-Guides-&-Handbooks/Highways/Bridges/Bridge-Special-Provisions/gbsp33.pdf>.

The final structural plans and specifications for this project may be accepted by the District based on the Structural Engineer's seal, certification and signature per BLRS Manual Section 23-7.02.1, and on a **sealed structure load rating** submittal as described in BLRS Circular Letter 2017-16 and Structural Services Manual Section 4.2.2. If you have any questions, contact Matt Humke at 217/782-5929 or [matt.humke@illinois.gov](mailto:matt.humke@illinois.gov).

Two copies of the approved report are being returned to you and we will retain one copy for our files.

MDH



## TECHNICAL MEMORANDUM

DATE: July 13, 2017  
TO: Candi Thomas, P.E.  
Kane County Division of Transportation  
FROM: Denis Hogan, PE  
PROJECT: Silver Glen Road Over Otter Creek  
STRUCTURE: 045-3122

---

The purpose of this memorandum is to present an overview of the maintenance of traffic alternatives for the Silver Glen Road over Otter Creek Bridge Replacement.

### **Project Summary**

This project consists of the rehabilitation of the Silver Glen Road over Otter Creek Bridge as shown on the enclosed location map. The proposed improvement will replace the bridge as it has reached the end of its practical service life and is in poor condition.

### **Traffic Characteristics**

The existing average daily traffic (ADT) for Silver Glen Road is 8,200 vehicles per day (2015). CMAP traffic projections forecast an increase to 11,000 vehicles per day by 2040. The posted speed limit is 45mph.

### **Maintenance of Traffic Alternatives**

Baxter & Woodman evaluated three maintenance of traffic alternatives for the project. The three alternatives are summarized below.

1. Full Bridge Closure
  - Estimated Construction Duration-4 months
  - Detour for Residents and Emergency Vehicles
  - Additional Traffic Diverted through Residential Neighborhoods
2. Maintain One Lane of Traffic
  - Estimated Construction Duration- 5-1/2 to 6 months
  - Additional Construction Cost- Approximately 25% more than full bridge closure.
  - Relieves congestion by allowing Resident and Emergency Access



### 3. Alternating Westbound and Eastbound Traffic

- Estimated Construction Duration- 5-1/2 to 6 months
- Additional Construction Cost- Approximately 25% more than full bridge closure.
- Requires a Temporary Traffic Signal. Estimated temporary signal cost is \$50k. Refer to attached IDOT Highway Standard 701316.
- Relieves congestion by allowing Resident and Emergency Access

#### **Detour Route**

The suggested detour route includes Corron Road, Bowes Road, and Randall Road for a total distance of approximately 8.6 miles in the Villages of South Elgin, Elgin, Campton Hills and unincorporated Kane County (See detour route map). All routes are under County jurisdiction.

The detour roadway widths and number of traffic lanes are consistent with Silver Glen Road and have sufficient capacity to accommodate detoured traffic. There are no low clearance structures within the detour route. There are no known turning radius impacts or conflicts with other detours.

#### **Pedestrian/Bicyclists**

The River Bend Trail pedestrian bridge just north of the Silver Glen Road over Otter Creek roadway bridge is anticipated to be replaced since the existing pier and abutments are incompatible with the proposed opening of the roadway bridge. The River Bend Trail terminates just west of the bridge at Reserve Court. The trail splits and runs north a long Otter Creek just east of the bridge. This trail feeds into the residential subdivision at the southeast corner of Steven Road and McDonald Road. The River Bend Trail is anticipated to remain open to travel north just east of the pedestrian bridge. The pedestrian bridge over Otter Creek could be maintained if the roadway bridge is stage constructed. However, the trail over the bridge should be closed when the Contractor is working on the north half of the roadway bridge for safety reasons.

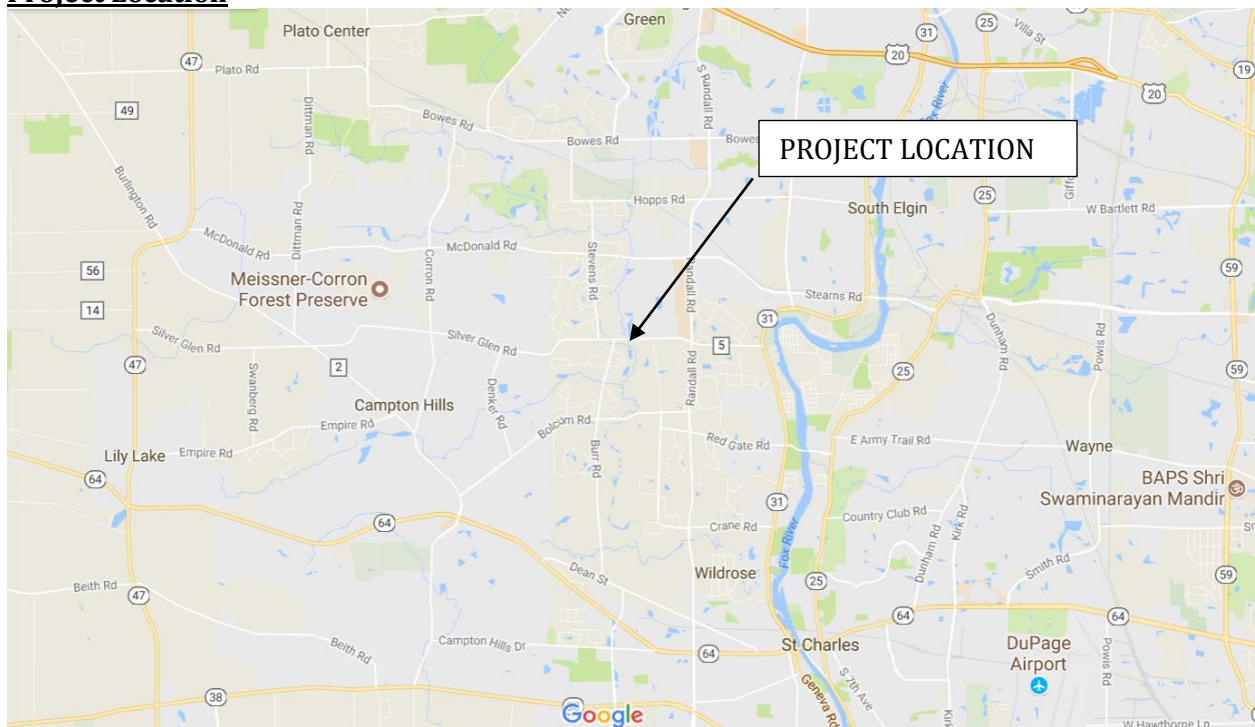
#### **Schedule**

The Phase I study has been initiated and the letting is anticipated to be in January 2019 with construction beginning in spring of 2019.

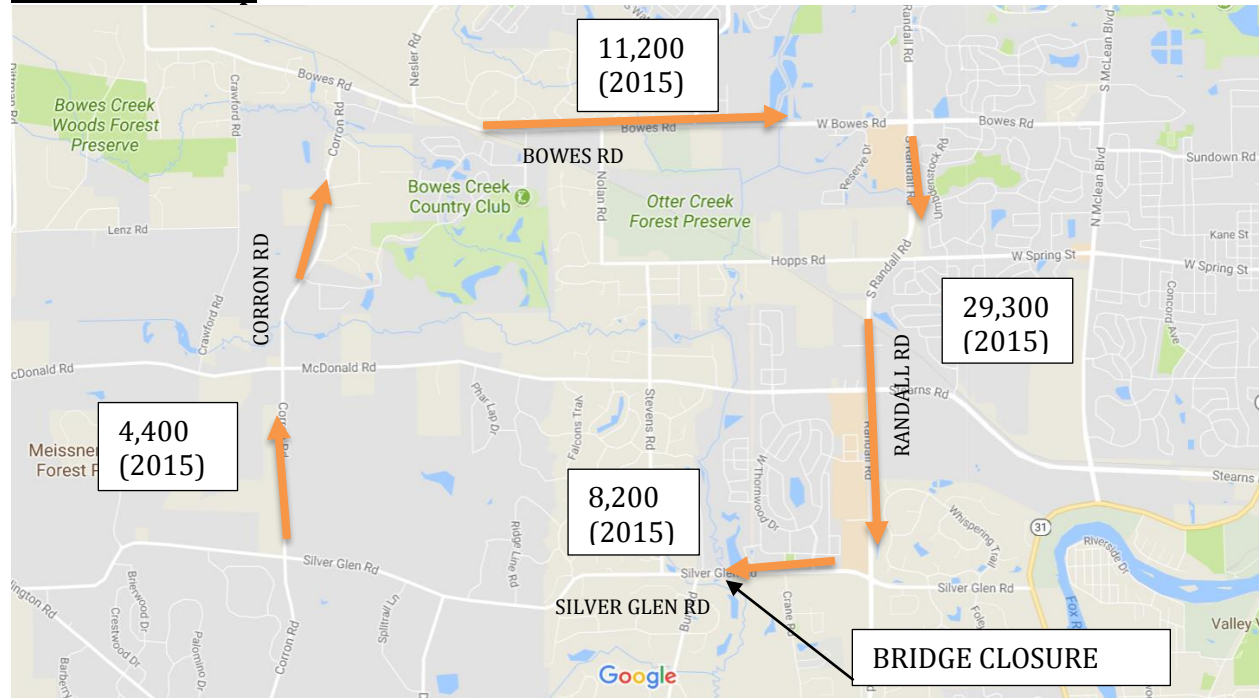
**Recommendation**

Generally, it is preferable to replace a bridge under a full closure to minimize cost and construction duration, when there is a suitable detour route. However, based on the relatively high existing ADT of 8,200 vehicles a long Silver Glen Road and that there is adequate tangent distance between the existing traffic signal at the intersection of Silver Glen Road and Randall Road, maintaining alternate two-way traffic, is a viable alternative and should be considered. Maintaining one way traffic is also a viable alternative, but is not as desirable as maintaining alternating two-way traffic.

**Project Location**

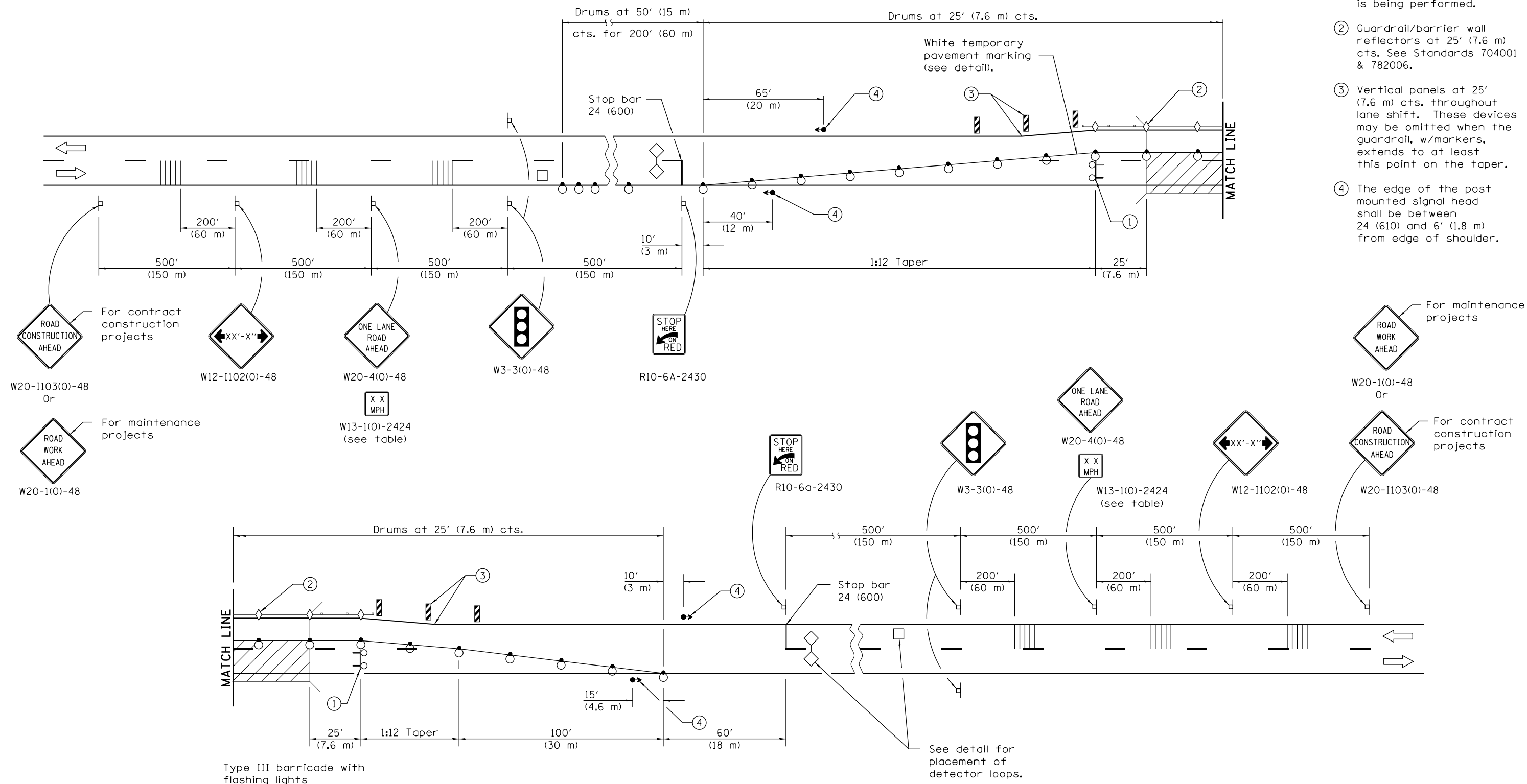


**Detour Route Map**



**LEGEND**  
 XXX AVERAGE DAILY TRAFFIC  
 ← DETOUR ROUTE

- ① Type III barricade to be placed when no work is being performed.
- ② Guardrail/barrier wall reflectors at 25' (7.6 m) cts. See Standards 704001 & 782006.
- ③ Vertical panels at 25' (7.6 m) cts. throughout lane shift. These devices may be omitted when the guardrail, w/markers, extends to at least this point on the taper.
- ④ The edge of the post mounted signal head shall be between 24' (610) and 6' (1.8 m) from edge of shoulder.



Type III barricade with flashing lights

**SYMBOLS**

- Work area
- Sign
- Traffic signal
- Detector loops
- Type III barricade with flashing lights
- Drum with steady burning light
- Temporary rumble strip (when specified)
- Crystal, bidirectional guardrail/barrier wall reflector
- Double vertical panel (see detail)

See Sheet 2 for GENERAL NOTES.

DATE	REVISIONS
1-1-17	Revised note ③.
4-1-16	Changed Standard reference from 635011 to 782006 in note ②.

**LANE CLOSURE, 2L, 2W,  
BRIDGE REPAIR,  
FOR SPEEDS > 45 MPH**  
(Sheet 1 of 2)

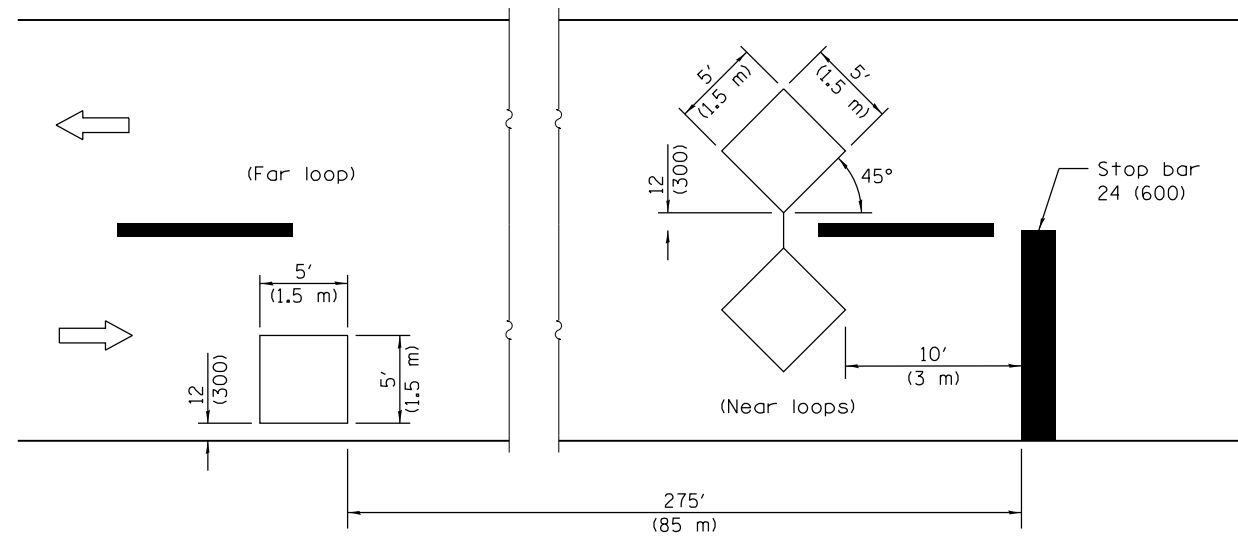
**STANDARD 701316-11**

Illinois Department of Transportation

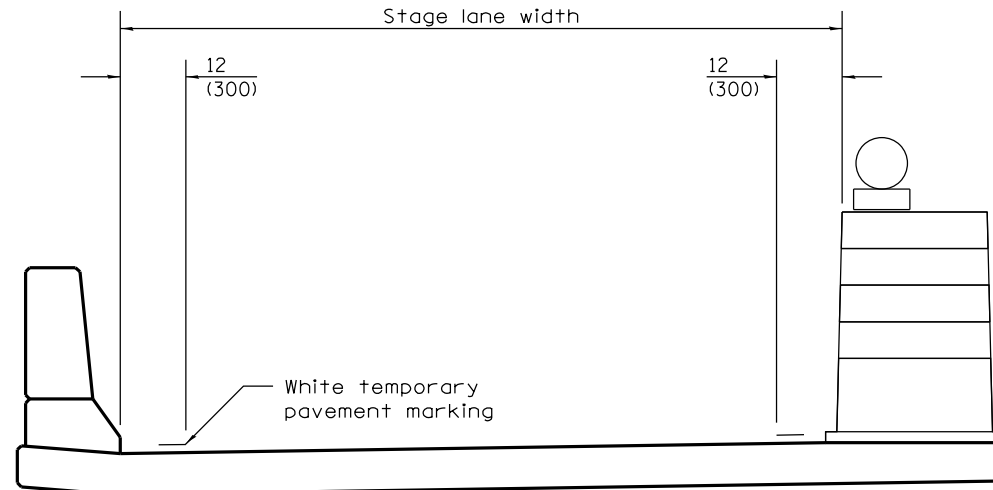
APPROVED January 1, 2017  
  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2017  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



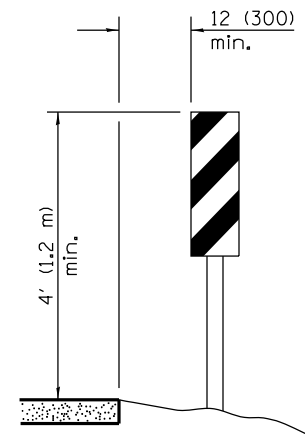
**DETECTOR LOOPS**



**TEMPORARY PAVEMENT MARKING**

TRAFFIC SIGNAL SEQUENCE						
PHASE	A			B		
INTERVAL	1	2	3	4	5	6
NORTHBOUND OR EASTBOUND	G	Y	R	R	R	R
SOUTHBOUND OR WESTBOUND	R	R	R	G	Y	R

ADVISORY SPEED LIMIT	
NORMAL POSTED SPEED	ADVISORY SPEED
55 - 45 mph	40 mph
40 mph	35 mph
35 - 30 mph	30 mph



**VERTICAL PANELS**  
(Post mounted, one each side)

**GENERAL NOTES**

This Standard is used where, at any time any vehicle, equipment, workers or their activities will encroach on one lane of a bridge and traffic signals are required.

When traffic signals are not in operation, flaggers shall be used and traffic control devices shall conform to Standard 701201 or 701206.

Existing or temporary pavement markings shall be on both sides of open lane from stop bar to stop bar.

All dimensions are in inches (millimeters) unless otherwise shown.

**LANE CLOSURE, 2L, 2W,  
BRIDGE REPAIR,  
FOR SPEEDS > 45 MPH**  
(Sheet 2 of 2)

**STANDARD 701316-11**

Illinois Department of Transportation

APPROVED January 1, 2017  
  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2017  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**• EXHIBIT 9- PRELIMINARY  
ESTIMATE OF COST**





**Kane County Division of Transportation  
Silver Glen Road over Otter Creek**

**Engineer's Preliminary Estimate of Cost**

**Base Year: 2017  
Revised:**

**Route: FAU 523  
Section: 16-00115-02-BR  
Project: BRS-0089(191)**

Item	Total Cost
Earthwork and Removal Items	\$ 46,000.00
Roadway	\$ 149,000.00
Parkway Restoration	\$ 32,000.00
Traffic Control & Mobilization	\$ 102,000.00
Bridge	\$ 1,287,000.00
Pedestrian Bridge	\$ 150,000.00
Field Office and Layout	\$ 28,000.00
Contingency (20%)	\$ 270,000.00
<b>Total Construction Cost</b>	<b>\$ 2,064,000.00</b>

Item	Total Cost
Engineering - Phase I	\$ 198,210
Engineering - Phase II	\$ 230,000
Engineering - Phase III	\$ 240,000
Construction	\$ 2,064,000
Wetland Mitigation	\$ 18,945
Permits (SWCD & IDNR)	\$ 5,500
<b>Total Project Cost</b>	<b>\$ 2,756,655</b>

**• EXHIBIT 10- CMAP  
COORDINATION**



February 9, 2017

Mr. Kermit W. Wies, Ph. D.  
Deputy Executive Director for Research Analysis  
Chicago Metropolitan Agency for Planning  
233 South Wacker Drive, Suite 800  
Chicago, Illinois 60606

Attention: Traffic Projections

***Subject: Kane County Division of Transportation – Silver Glen Road Bridge over Otter Creek***

Dear Mr. Wies:

The Kane County Division of Transportation has initiated a Phase I study for the improvement of Silver Glen Road over Otter Creek bridge in St. Charles Township. The bridge is located in a rural area adjacent to the St. Charles Park District and some residential homes (see attached location map).

The cross section consists of a two-lane roadway with an open drainage system. There is no recent or anticipated development in this area to increase demand on the facilities. The proposed improvement will consist of superstructure replacement or complete structure replacement with improved shoulders and grading.

The following is a summary of our traffic data and projections for this location:

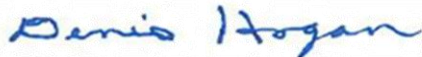
- Silver Glen Road over Otter Creek
- Existing ADT (2015) = 8,200
  - 2040 Projected ADT = 11,000

We are requesting CMAP concurrence on this 2040 projection. Please provide a response letter at your earliest convenience to verify and confirm our findings.

If you have any questions or require additional information, please call me at 815.444.3262.

Sincerely,

BAXTER & WOODMAN, INC.  
CONSULTING ENGINEERS



Denis Hogan, P.E.  
Senior Transportation Manager  
Enc.

C: Candi Thomas, P.E., Kane County Division of Transportation

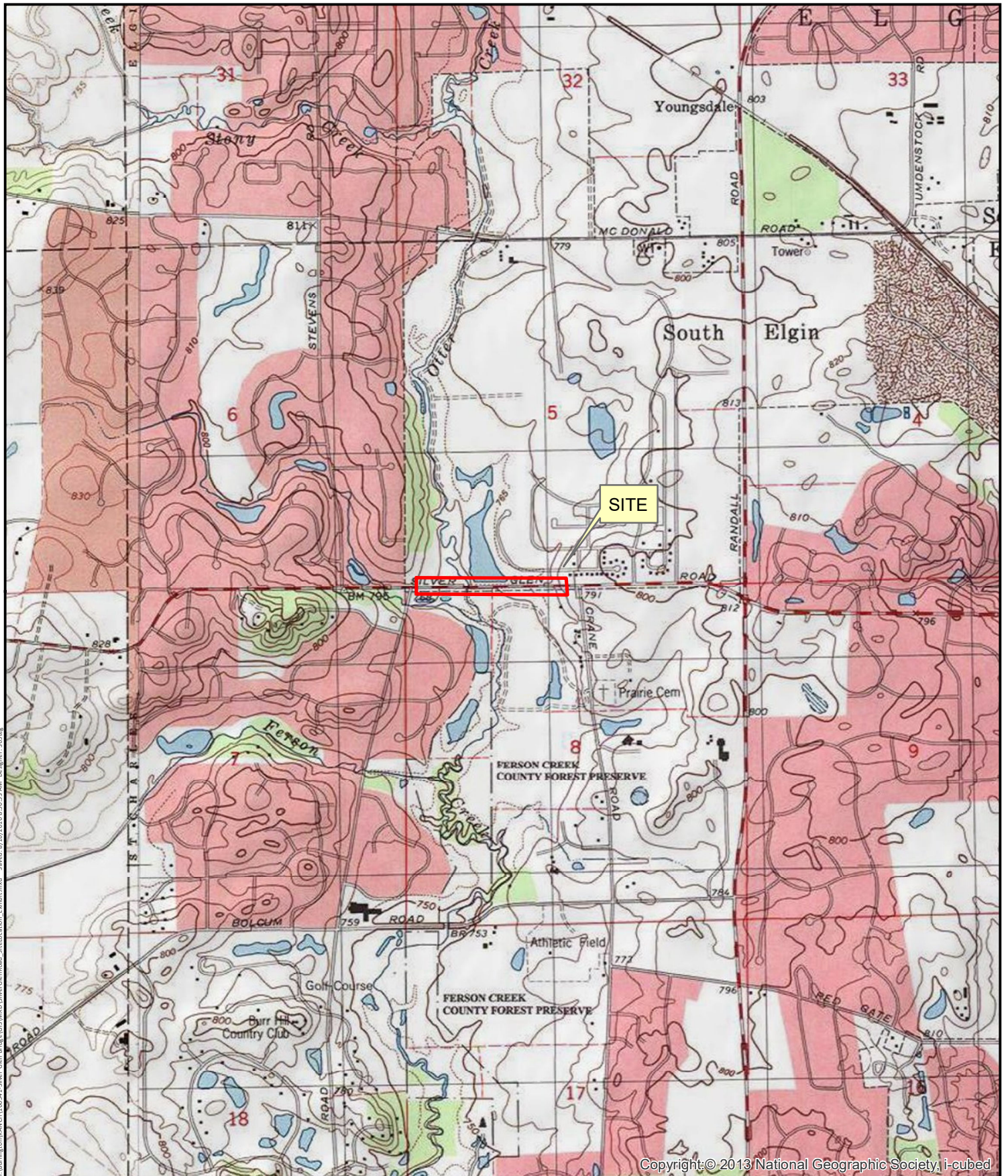


# SITE LOCATION MAP

Silver Glen Road Bridge

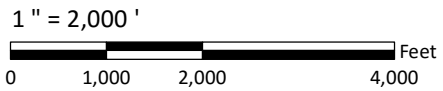
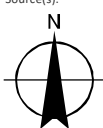
## EXHIBIT A

Kane County, Illinois



Source(s): i:\Burlington\KNO\160541\_Silver\_Glen\_Bridge\GIS\MXD\SilverGlenRoad\_SiteLocation\_Exhibit.mxd. Source: 8/16/2016 8:50:53 AM. Designer: 3/6/2016

Copyright: © 2013 National Geographic Society, i-cubed







Chicago Metropolitan  
Agency for Planning

233 South Wacker Drive  
Suite 800  
Chicago, Illinois 60606  
312 454 0400  
www.cmap.illinois.gov

February 14, 2017

Mr. Carl Schoedel P.E.  
County Engineer  
Kane County Division of Transportation  
41W011 Burlington Road  
St. Charles, IL 60175

**Subject: Silver Glen Road Bridge over Otter Creek**  
Kane County DOT

Dear Mr. Schoedel:

In response to a request made on your behalf and dated February 9, 2017, we have reviewed and concur with your consultant's year 2040 average daily traffic (ADT) projection for the subject location.

Traffic projections are developed using existing ADT data provided in the request letter and the results from the October 2016 CMAP Travel Demand Analysis. The regional travel model uses CMAP 2040 socioeconomic projections and assumes the implementation of the GO TO 2040 Comprehensive Regional Plan for the Northeastern Illinois area.

If you have any questions, please call me at (312) 386-8806.

Sincerely,

Jose Rodriguez, PTP, AICP  
Senior Planner, Research & Analysis

cc: Hogan (Baxter & Woodman)  
S:\AdminGroups\ResearchAnalysis\TrafficForecasts\_CY2017\StCharlesTwp\ka-08-17\ka-08-17.docx

**• EXHIBIT 11-USACE  
COORRESPONDENCE**



November 8, 2017

Mr. Keith Wozniak  
Chief, CELRC-TS-RW  
U.S. Army Corp of Engineers  
Chicago District, Regulatory Branch  
231 South LaSalle Street, Suite 1500  
Chicago, Illinois 60604

***Subject: Kane County Division of Transportation – Silver Glen Road over Otter Creek -  
Proposed Bridge Rehabilitation***

Attention: Julie Rimbault, Project Manager

Dear Mr. Wozniak:

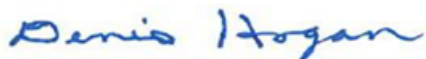
The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is currently completing the preliminary engineering and environmental studies phase for the rehabilitation of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, a new pedestrian bridge, new guardrail, and minor roadway work on the approaches. See enclosed plan and profile sheet.

A final Project Development Report is scheduled to be submitted in December with approval anticipated in March 2018. The wetland impact evaluation form was submitted to IDOT on September 18, 2017. We anticipate submitting the permit application and a copy of the wetland report to your office during Phase II. Construction is anticipated to occur in 2019 and will last approximately 4-6 months.

If you have any questions or special concerns that need to be addressed regarding the proposed improvements of this project, please contact me at dhogan@baxterwoodman.com or 815.444.3262.

Sincerely,

BAXTER & WOODMAN, INC.  
CONSULTING ENGINEERS



Denis Hogan, P.E.

Enc.

C: Candi Thomas, P.E.- Kane County Division of Transportation



**From:** Kubiak, Kimberly J CIV USARMY CELRC (US)  
**To:** [Denis T. Hogan](#)  
**Cc:** [Rimbault, Julie CIV USARMY CELRC \(US\)](#); [Wozniak, Keith L CIV USARMY CELRC \(US\)](#); [Carl Schoedel \(schoedelcarl@co.kane.il.us\)](#)  
**Subject:** Silver Glen Road over Otter Creek (UNCLASSIFIED)  
**Date:** Monday, November 20, 2017 2:52:07 PM

---

CLASSIFICATION: UNCLASSIFIED

Hello Mr. Hogan,

I am the project manager for Kane County, and Julie Rimbault handles IDOT projects. If KDOT is the applicant, I will be the project manager. I did a permit at this exact location for KDOT last year, the project number for this is LRC-2016-372. We will use this same project number for your proposed project.

Some concerns for this area - the north side of the road is mapped as High Functional ADID wetland, and the South side is mapped as High Habitat ADID wetland. This makes these wetlands designated as High Quality Aquatic Resources, which require higher mitigation ratios, if mitigation is required. Also, nearby is a known historic or archaeology site. The south side of the road is owned by the St. Charles Park District, and that would count as a conservation organization here.

I recommend you look at all requirements in the application checklist/General Condition 23 (notification requirements). Approval from the Kane/DuPage SWCD would also be required. This would be processed as RP3, category II. Individually address all items under RP3 and also the notification requirements.

When reviewing projects such as these, I'm looking especially looking for: amount of wetland impacts, proper vegetation seeding lists and buffer areas marked on the plans, possible BMPs (permanent ones, NOT meaning temporary SESC measures), and fish and mussel passage in the river. I also check to see if there is any other work within wetlands such as temporary access, temporary stockpiles, comp storage creation, etc. I like to see the stream channel remain as natural and untouched as possible and make sure it's not being overwidened. We would certainly need to have a conversation about any proposed changes to the stream channel here.

Here's a link about our Regional Permit Program.

<http://www.lrc.usace.army.mil/Missions/Regulatory/Regional-Permit-Program/>

We have also gone electronic with our filing system. Electronic submittals can be sent to [ChicagoRequests@usace.army.mil](mailto:ChicagoRequests@usace.army.mil), and large attachments can be sent through <https://safe.amrdec.army.mil/SAFE/>. If you choose to send anything in on paper, please also send us electronic copies of everything.

Thank you,

Kimberly Kubiak  
United States Army Corps of Engineers  
Biologist/Project Manager, Chicago District  
231 South LaSalle Street, Suite 1500  
Chicago, Illinois 60604  
Office: (312) 846-5541  
[Kimberly.J.Kubiak@usace.army.mil](mailto:Kimberly.J.Kubiak@usace.army.mil)  
<http://www.lrc.usace.army.mil/Missions/Regulatory.aspx>

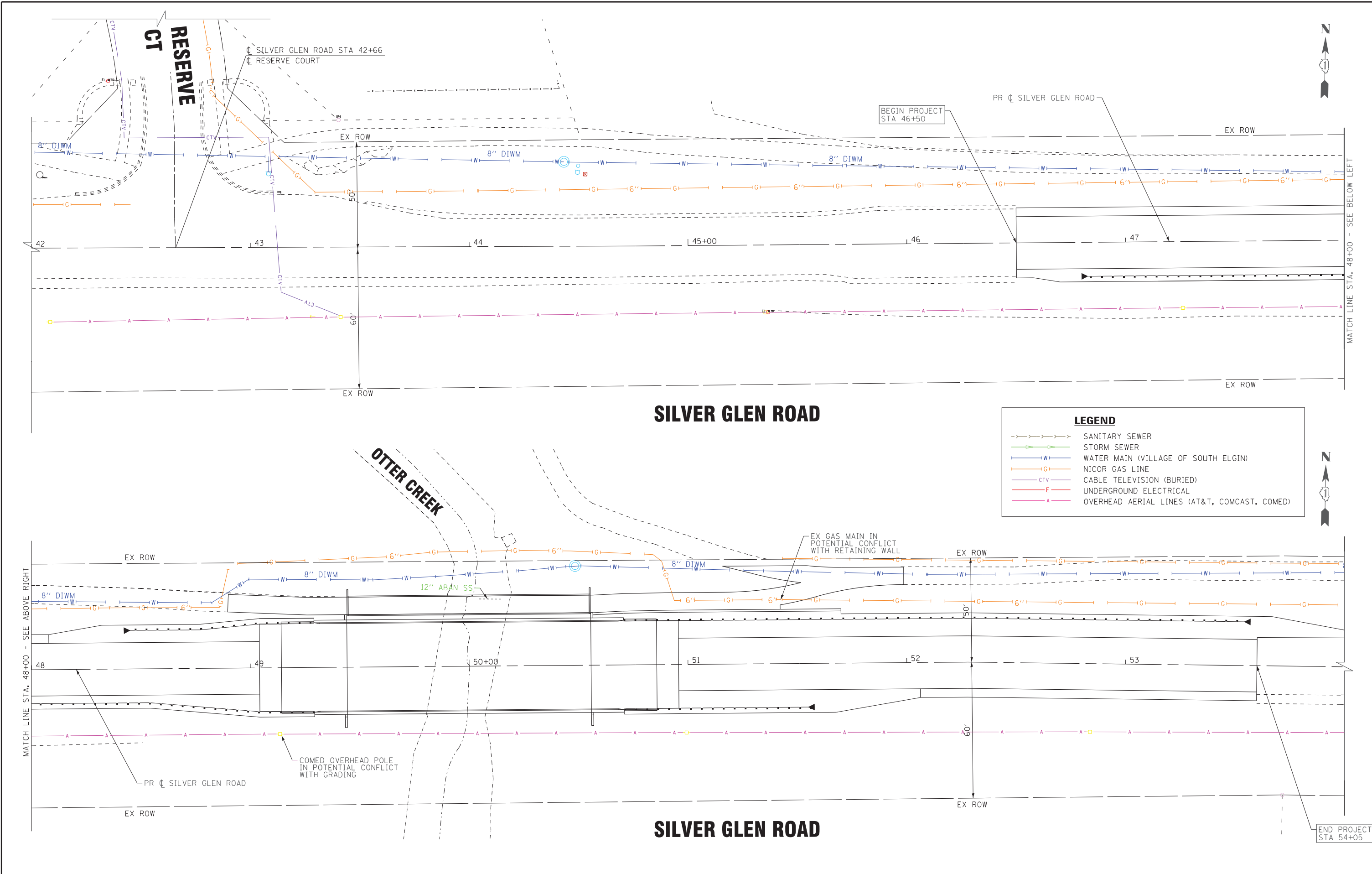
Chicago USACE Web Site: <http://www.lrc.usace.army.mil>

Facebook: <http://www.facebook.com/usacechicago>

**• EXHIBIT 12-EXISTING UTILITY  
PLAN AND COORDINATION**



COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.  
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 LICENSE NO. - 184-00121 - EXPIRES 4/30/2019  
 7654ks  
 ...plotdrv\pdf-BW\_Default.pit  
 ...CADD\Plots\B&W-exhib1.tbl  
 i:\CrystalLake\KANCH\160541-Silver Glen over Otter Creek Sheets-PHN\160541SHT\_DU1.dgn  
 1/3/2018 2:41:36 PM



LEGEND	
	SANITARY SEWER
	STORM SEWER
	WATER MAIN (VILLAGE OF SOUTH ELGIN)
	NICOR GAS LINE
	CABLE TELEVISION (BURIED)
	UNDERGROUND ELECTRICAL
	OVERHEAD AERIAL LINES (AT&T, COMCAST, COMED)

DESIGNED - AKS	REVISED -
DRAWN - CJC	REVISED -
CHECKED - DTH	REVISED -
DATE - 01-02-18	FILE - 160541SHT_DU1.dgn

**KANE COUNTY DIVISION OF TRANSPORTATION  
 SILVER GLEN ROAD OVER OTTER CREEK**

**EXISTING UTILITY PLAN**

SCALE: 1" = 20'

STA. 42+00 TO STA. 54+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	1	1
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**From:** [Jonathan D. Miller](mailto:Jonathan.D.Miller)  
**To:** [Denis T. Hogan](mailto:Denis.T.Hogan)  
**Subject:** FW: JULIE EMLCFM 2017/02/07 #00235 X0380996-00X NORM NEW DSGN  
**Date:** Tuesday, February 07, 2017 2:21:47 PM

---

Here you go

Jonathan

-----Original Message-----

From: OCARS\_Pro@Julie1Call.com [[mailto:OCARS\\_Pro@Julie1Call.com](mailto:OCARS_Pro@Julie1Call.com)]  
Sent: Tuesday, February 07, 2017 2:20 PM  
To: Jonathan D. Miller <[jmiller@baxterwoodman.com](mailto:jmiller@baxterwoodman.com)>  
Subject: JULIE EMLCFM 2017/02/07 #00235 X0380996-00X NORM NEW DSGN

EMLCFM 00235 JULIEx 02/07/17 14:19:45 X0380996-00X DESIGN

Thank you for contacting JULIE, Inc. regarding your upcoming digging project.

Please review and print your locate request ticket below for your records. If any of the information is incorrect, please contact a JULIE call center agent by simply dialing 811 or 800-892-0123 and refer to the locate request number. The agents are available 24/7.

For information about the next steps in the process, a copy of JULIE's Homeowner's Guide, and an explanation of the color-code markings, visit [www.illinois1call.com/homeowners/whatnext.html](http://www.illinois1call.com/homeowners/whatnext.html)

Dig No : X0380996 Rev : 00X Digstart: 08/07/17 14:16  
Rcvd : 02/07/17 14:19 Priority: 2 Expires : 01/01/00 00:00  
Org Dig: X0380996 Rcvd: 02/07/17 14:16

Firm : BAXTER & WOODMAN CONSULT. ENG. Caller: JONATHAN MILLER  
CoAddr1: 8678 RIDGEFIELD RD.  
City,St: CRYSTAL LAKE, IL Zip : 60012  
Phone : 815-459-1260 Ext : Fax: 815-455-0450  
Call Bk: Done For : KANE COUNTY D.O.T.  
SiteCnt: SAME AS ABOVE  
Email : [JMILLER@BAXTERWOODMAN.COM](mailto:JMILLER@BAXTERWOODMAN.COM)

County : KANE Place: S.ELGIN CIT  
Address: SILVER GLEN RD  
Subdiv : Cross: BURR RD

Grids : T40NR08E05SW T40NR08E08NW

BestFit: 41.970560/-88.358785 41.970637/-88.353973  
: 41.969738/-88.358772 41.969815/-88.353960

PreMark: NO Directional Boring: NO Depth>7Ft: YES  
Locatn : IN THE CITY OF S.ELGIN, \*\* AT THE BRIDGE OVER OTTER CREEK ON SILVER  
: GLEN ROAD, EAST OF BURR ROAD. \*\*\*

WrkType: DESIGN STAGE FOR BRIDGE REPLACEMENT.

Extent : WORK WILL BE DONE ON SILVER GLEN ROAD GOING 500 FEET EAST AND WEST OF  
: THE BRIDGE.

Remarks:

Members:

ATTD5A ATT/DISTRIBUTION	.	630-573-5450
CECO0A COMED	DESIGN STAGE LOCATE LINE	630-576-7094
COMC0A COMCAST	MARTHA GIERAS	224-229-5862
NICR0A NICOR GAS	UTILITY CONSULTANT GO3W	630-388-2362
SELG0A SOUTH ELGIN, VILLAGE OF	DAN MANN	847-695-2742
USIC0A USIC LOCATING SERVICES	Information not provided	

## Denis T. Hogan

---

**From:** ATT CIVIC PROJECT ENG IL <g11629@att.com>  
**Sent:** Wednesday, March 15, 2017 10:15 AM  
**To:** Denis T. Hogan  
**Cc:** MENDOZA, JUAN R; FREDRICK, JAMES T; STEVIC, MLADEN; GERDES, TIM C  
**Subject:** AT&T Facility Map Request JULIE Ticket # XXXX / Silver Glen over Otter Creek Improvement, South Elgin- Kane County  
**Attachments:** SilverGlenRoad\_SiteLocation\_Exhibit.pdf;  
BAXTER\_KaneSilverglenAndRandallSoElginDs2674\_56850.zip

Mr. Hogan,

I have attached maps with the type of facilities AT&T has within your project location. AT&T does not have as-built drawings or atlases that we can provide with accurate locations of our facilities. If you include these facilities on your plans please note that they are SUE Quality Level D.

Once you have scalable plans available please forward to us so we may call in design locates and provide you with a SUE Quality Level B drawing.

AT&T Ref # will be provided once AT&T receives the plans. Please include your Julie Ticket # with your reply until we provide an AT&T reference #.

Mail all related plans to:  
AT&T Legal Mandate Engineering  
1000 Commerce Drive  
Oak Brook, IL 60523

As always, call J.U.L.I.E. 48 hours prior to any digging.

Any questions or concerns, please contact me directly.

Kind Regards,

Donna Szpytek  
Manager - OSP Planning & Engineering Design  
AT&T Technology Operation, Construction & Engineering - MW

**AT&T**  
1000 Commerce Drive, Oak Brook, Illinois 60523  
Office 630.573.5530 | [ds2674@att.com](mailto:ds2674@att.com)

MOBILIZING YOUR WORLD

**From:** GARCIA, HECTOR  
**Sent:** Tuesday, February 14, 2017 7:45 AM  
**To:** SZPYTEK, DONNA M <ds2674@att.com>  
**Subject:** FW: KDOT Silver Glen over Otter Creek Improvement- Utility Coordination

Donna,

Please process this TOPO Request.

Thank you for considering this matter.  
Regards,

**Hector Garcia**

MGR OSP Planning & Engineering Design  
AT&T Technology Operation, Construction & Engineering - MW

**AT&T**

1000 Commerce Dr, Oak Brook IL 60523  
o 630-573-5465 | m 630-639-8372 | [hg2929@att.com](mailto:hg2929@att.com)

**MOBILIZING YOUR WORLD**

---

**From:** Denis T. Hogan [<mailto:DHogan@baxterwoodman.com>]  
**Sent:** Monday, February 13, 2017 11:56 AM  
**To:** [bkoppan@aglresources.com](mailto:bkoppan@aglresources.com); Seidel, Richard:(ComEd) <[Richard.Seidel@exeloncorp.com](mailto:Richard.Seidel@exeloncorp.com)>; Martha Gieras ([martha\\_gieras@cable.comcast.com](mailto:martha_gieras@cable.comcast.com)) <[martha\\_gieras@cable.comcast.com](mailto:martha_gieras@cable.comcast.com)>; Dan Mann ([dmann@southelgin.com](mailto:dmann@southelgin.com)) <[dmann@southelgin.com](mailto:dmann@southelgin.com)>; GARCIA, HECTOR <[hg2929@att.com](mailto:hg2929@att.com)>  
**Cc:** Thomas, Candance <[ThomasCandance@co.kane.il.us](mailto:ThomasCandance@co.kane.il.us)>  
**Subject:** KDOT Silver Glen over Otter Creek Improvement- Utility Coordination

The purpose of this e-mail is to inform you that the Kane County Division of Transportation (KDOT) has initiated a preliminary design and environmental study for the superstructure replacement or full replacement of the Silver Glen Road over Otter Creek Bridge just west of Randall Road in the Village of South Elgin. KDOT has hired Baxter & Woodman to provide these services. A Project Development Report is scheduled to be submitted in December with approval anticipated in March 2018. Preparation of contract plans is scheduled to begin in the Spring of 2018 with construction anticipated to occur in 2019.

As part of preliminary study, please provide the following information to identify the location of your facilities (underground or aerial) within the project limits:

- Atlas Pages
- As-builts
- Other available information

Attached is a regional location map for your reference. B&W will be surveying the project in a couple weeks.

Thank you for your cooperation on this matter and please feel free to call me if you have any questions.

Respectfully,

Denis

**Denis T. Hogan, P.E.**  
**Senior Transportation Project Manager**



main: 815.459.1260 | direct: 815.444.3262

email: [dhogan@baxterwoodman.com](mailto:dhogan@baxterwoodman.com)

[www.baxterwoodman.com](http://www.baxterwoodman.com)

8678 Ridgofield Road, Crystal Lake, IL 60012

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## Denis T. Hogan

---

**From:** Koppang, Bruce A. <BKoppan@southernco.com> on behalf of gasmaps  
<gasmaps@aglresources.com>  
**Sent:** Tuesday, July 18, 2017 7:58 AM  
**To:** Denis T. Hogan  
**Subject:** Eng. # SC13916 - KDOT Silver Glen over Otter Creek  
**Attachments:** 3131053.pdf; 3131081.pdf

Denis,

I apologize for the delayed reply to your request. It was missed on my end. Attached are Nicor's atlas pages for the requested area. Please note that Nicor has a 30" Transmission pipeline the runs across Silver Glen in a North-South corridor. Nicor generally owns in fee the row for this pipeline. Any construction activity within the row and/or adjacent to the pipeline will need to be reviewed and approved prior to construction to ensure its integrity is not compromised.

Below is our correspondence for atlas page requests:

Your project has been assigned Engineering #SC13916. Please refer to this number in all future correspondence to assist with expediting any future inquiry.

Details are shown in noted 'boxes'. These details will be provided upon specific request through email if needed. The box title noted on the bottom is required.

With reference to your request received for main details, I am sending atlas page(s) indicating the location of our gas main(s) in the area of your proposed project. The dimensions and location of Nicor Gas utility facilities as shown on these plans are an estimate for design purposes only, and are not intended for use as field locations for construction. Nicor Gas does not warrant accuracy. These pages are considered confidential. Please handle these pages accordingly. Review and verify that the page(s) attached is the area of your request. If this is not the page you have requested or you require additional pages, please advise and correction will be made. Please feel free to contact me if you need assistance in reading the attached pages. The date of this email represents the date of the attached page(s) most recent version and should be considered the applicable date/time stamp.

If potential conflicts are anticipated, please supply us with a large set of pre-final/final plans including right-of-way and cross-sections and ample time for design and relocation of our mains and services (if necessary) to adhere to your tentative scheduled letting date. Ample time requires a minimum of 6 months for design and planning. This time does not take into consideration the installation our mains and services or reimbursable requirements if applicable.

Utility rights are generally documented through permit, license or easement and in some cases, Nicor Gas may own property. It is up to the requesting/design party(s) to research existing land rights of their proposed project. Nicor Gas will perform its own investigation to determine if any portion is reimbursable when construction is requested to relocate gas main.

Please phone JULIE at 811 OR 1-800-892-0123, 48 hours prior to construction for location of our facilities within your proposed improvement.

Thanks,

**Bruce Koppang**  
DOT Liaison  
Nicor Engineering Department

Nicor Gas  
1844 Ferry Rd.  
Naperville, IL 60563

630-388-3046 office  
708-243-5136 mobile  
bkoppan@southernco.com



## Denis T. Hogan

---

**From:** Seidel, Richard:(ComEd) <Richard.Seidel@exeloncorp.com>  
**Sent:** Tuesday, February 14, 2017 7:51 AM  
**To:** Denis T. Hogan  
**Subject:** RE: KDOT Silver Glen over Otter Creek Improvement- Utility Coordination  
**Attachments:** 442-07N.pdf; 442-08N.pdf

Denis,

Good morning, I have attached a copy of our Area Maps that are within the scope of the project limits per your request. Please let me know if you have any additional questions. Thanks

Rick Seidel  
Sr. Project Manager  
Facility Relocation Dept.  
630-723-2101  
[Richard.Seidel@ComEd.com](mailto:Richard.Seidel@ComEd.com)



---

**From:** Denis T. Hogan [mailto:DHogan@baxterwoodman.com]  
**Sent:** Monday, February 13, 2017 11:56 AM  
**To:** bkoppan@agresources.com; Seidel, Richard:(ComEd); Martha Gieras (martha\_gieras@cable.comcast.com); Dan Mann (dmann@southelgin.com); GARCIA, HECTOR (hg2929@att.com)  
**Cc:** Thomas, Candance  
**Subject:** [EXTERNAL] KDOT Silver Glen over Otter Creek Improvement- Utility Coordination

The purpose of this e-mail is to inform you that the Kane County Division of Transportation (KDOT) has initiated a preliminary design and environmental study for the superstructure replacement or full replacement of the Silver Glen Road over Otter Creek Bridge just west of Randall Road in the Village of South Elgin. KDOT has hired Baxter & Woodman to provide these services. A Project Development Report is scheduled to be submitted in December with approval anticipated in March 2018. Preparation of contract plans is scheduled to begin in the Spring of 2018 with construction anticipated to occur in 2019.

As part of preliminary study, please provide the following information to identify the location of your facilities (underground or aerial) within the project limits:

- Atlas Pages
- As-builts
- Other available information

Attached is a regional location map for your reference. B&W will be surveying the project in a couple weeks.

Thank you for your cooperation on this matter and please feel free to call me if you have any questions.

Respectfully,

Denis

**Denis T. Hogan, P.E.**  
**Senior Transportation Project Manager**



main: 815.459.1260 | direct: 815.444.3262

email: [dhogan@baxterwoodman.com](mailto:dhogan@baxterwoodman.com)

[www.baxterwoodman.com](http://www.baxterwoodman.com)

8678 Ridgely Road, Crystal Lake, IL 60012

This email and any attachments are confidential and are intended solely for the use of the intended addressee(s). If you have received this email in error, please notify the sender immediately or call 815-459-1260 and delete this email. If you are not the intended recipient(s), any use, retention, dissemination, forwarding, printing, or copying of this e-mail is strictly prohibited. The integrity and security of this message cannot be guaranteed on the Internet. Thank You.

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March 8, 2017

Baxter & Woodman  
8678 Ridgely Rd  
Crystal Lake, IL 60012  
Attn: Denis Hogan, P.E.

MAR 13 2017  
BAXTER & WOODMAN, INC.  
CRYSTAL LAKE


**Re: Utility Information Request  
Silver Glen over Otter Creek  
South Elgin, Illinois**

Dear Mr. Hogan:

As requested, enclosed is Comcast atlas information that has been highlighted to indicate the approximate location of our aerial (yellow) and underground (magenta) facilities within and/or adjacent to the referenced project limits.

Feel free to contact us if you have any questions about this information.

Very truly yours,

  
Robert L. Schuller, Jr.  
Central Division Director of Construction

By: 

Thomas Munar  
Right-of-Way Engineer  
(224) 229-5851

Encl: 1 Drawing

• EXHIBIT 13-LOCAL PESA



**Kane County, Illinois**

---

# **Preliminary Environmental Site Assessment – Reconstruction of the Silver Glen Road Bridge Crossing Otter Creek**

---



*Prepared by:*

**BAXTER & WOODMAN**  
Consulting Engineers

[www.baxterwoodman.com](http://www.baxterwoodman.com)

June 2017

**Kane County, Illinois**  
**Preliminary Environmental Site Assessment – Reconstruction of the**  
**Silver Glen Road Bridge Crossing Otter Creek**

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- 1 Site Location Map
- 2 Project Location Map
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- 6 Project Sites

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### Appendix

- 1 Site Photographs
- 2 Field Survey Checklist
- 3 EDR Report

## GLOSSARY OF ACRONYMS

AAI	- All Appropriate Inquiries	mg/l	- milligrams per liter (ppm)
ACM	- asbestos-containing material	M.M.	- mile marker
AST	- aboveground storage tank	M.P.	- mile post
ASTM	- American Society for Testing and Materials	MSDS	- material safety data sheet
AULs	- activity and use limitations (includes institutional controls, engineered barriers, and HAAs)	MTBE	- methyl tertiary butyl ether
bgs	- below ground surface	NFPA	- National Fire Protection Association
BOL	- Bureau of Land (IEPA)	NFR	- No Further Remediation
BTEX	- benzene, toluene, ethylbenzene, and total xylenes	NPL	- National Priorities List
CDPH	- Chicago Department of Public Health	NRCS	- Natural Resources Conservation Service
CCDD	- Clean construction and demolition debris	OSFM	- Office of the State Fire Marshal
CERCLIS-	Comprehensive Environmental Response, Compensation, and Liability Information System	PAA	- Permit Access Agreement
CTA	- Chicago Transit Authority	PAH/PNA-	polynuclear aromatic hydrocarbons
ERNS	- Emergency Response Notification System	PCB	- polychlorinated biphenyls
FEMA	- Federal Emergency Management Agency	PESA	- Preliminary Environmental Site Assessment
FIRM	- Flood Insurance Rate map	P.G.	- Professional Geologist
FOIA	- Freedom of Information Act	ppb	- parts per billion (equivalent to $\mu\text{g}/\text{kg}$ for solids, and $\mu\text{g}/\text{l}$ in liquids)
GIS	- Geographic Information System	ppm	- parts per million (equivalent to $\text{mg}/\text{kg}$ in solids, and $\text{mg}/\text{l}$ in liquids)
GRO	- Groundwater Remediation Objective	PRP	- Potentially Responsible Party
HAA	- Highway Authority Agreement	RCRA	- Resource Conservation and Recovery Act
IDNR	- Illinois Department of Natural Resources	REC	- recognized environmental condition
IDOT	- Illinois Department of Transportation	ROW	- right-of-way
IEMA	- Illinois Emergency Management Agency	SIC	- Standard Industrial Classification
IEPA	- Illinois Environmental Protection Agency	SPLP	- synthetic precipitation leaching procedure
IMD	- Illinois Manufacturers Directory	SRO	- Soil Remediation Objective
ISGS	- Illinois State Geological Survey	SRP	- Site Remediation Program
ISTC	- Illinois Sustainable Technology Center (formerly Waste Management and Research Center)	SSTS	- Section Seven Tracking System (USEPA)
ISWS	- Illinois State Water Survey	SVOCs	- semi-volatile organic compounds
LUST	- leaking underground storage tank	TACO	- Tiered Approach to Cleanup Objectives (IEPA)
$\mu\text{g}/\text{kg}$	- micrograms per kilogram (ppb)	TCLP	- toxicity characteristic leaching procedure
$\mu\text{g}/\text{l}$	- micrograms per liter (ppb)	TPH	- total petroleum hydrocarbons
$\text{mg}/\text{kg}$	- milligrams per kilogram (ppm)	TRI	- Toxics Release Inventory
		TVOC	- Total volatile organic compounds
		USDA	- United States Department of Agriculture
		USEPA	- United States Environmental Protection Agency
		USGS	- United States Geological Survey
		UST	- underground storage tank
		VOC	- volatile organic compounds

## EXECUTIVE SUMMARY

---

This report presents the results of a preliminary environmental site assessment (PESA) for the Reconstruction of the Silver Glen Road Bridge Crossing Otter Creek, Village of South Elgin, Kane County, Illinois. This report was prepared on behalf of Kane County by Baxter & Woodman, Inc.

The project site includes the existing Silver Glen Road right-of-way (ROW), in District 2, Section 6, Township 41 North, Range 8 East, Kane County, Illinois. The project does not include acquisition of additional property surrounding the existing Silver Glen ROW (Exhibit 2).

The following sites were examined for this project. The tables below list sites along the project for which:

1. There were no recognized environmental conditions (RECs) identified for sites adjoining the project (Table 1);
2. All sites adjoining the project are considered to have de minimis conditions (Table 2)
3. No RECs were identified for sites not adjoining the project (Table 3);

Based on review of the Environmental Data Resources Inc. (EDR) report, the on-site field investigation conducted on June 1, 2017 and evaluation of the engineering plans for the proposed Silver Glen Bridge Reconstruction project, no further investigation is recommended.

**TABLE 1**

**Sites Adjoining the Project Site Determined to Contain REC's**

Property Name	Address	REC(s)	Regulatory databases	Land Use
N/A	N/A	N/A	N/A	N/A

TABLE 2

**Sites Adjoining the Project Site Determined to Contain de minimis Conditions Only**

Site	Address	Property Name	Land Use
N/A	Silver Glen Rd	South Side of the Silver Glen Road Bridge	Transportation Corridor

TABLE 3

**Sites not Adjoining the Project Site Determined to Contain RECs**

Site	Relative Elevation	Database	Address	Distance From Site (Miles)
N/A	N/A	N/A	N/A	N/A

EDR prepared a Radius Map Report for the Silver Glen Road Bridge Reconstruction project (Appendix B). Based on review of the EDR report; available environmental records data; current and past land use; adjoining land uses; on-site reconnaissance; and review of published soils and geologic maps; No sites adjoining the Silver Glen Road Bridge Reconstruction project have been identified that contain RECs as referenced in (Table 1). Additionally, no sites not adjoining or in close proximity to the Silver Glen Bridge Reconstruction project site have been identified that contain RECs as referenced in (Table 3). Due to the normal usage of the transformer on the west side of the bridge, the adjoining property contains de minimis conditions, shown in (Table 2). Table 4 shows all sites within one half mile of the project site identified on environmental databases. An REC is defined as the presence or likely presence of any regulated substances on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any regulated substances into structures on the property or into the ground, groundwater, or surface water of the property. The term includes regulated substances even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment; and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Potential hazards were not verified by Baxter & Woodman testing. Radon, biological hazards (such as mold, medical waste or septic waste), non-agricultural pesticides and/or herbicides may also be

of concern. No further investigation concerning the presence or use of these factors was conducted for this PESA.

Where RECs are not indicated as present, radon; biological hazards (such as mold, medical waste or septic waste); non-agricultural pesticides and/or herbicides may still be of concern. No further investigation concerning the presence or use of these factors was conducted for this PESA.

For the purposes of this report, the following are considered to be de minimis conditions:

- Normal use of lead-based paint on exteriors and interiors of buildings and structures.
- Use of asbestos-containing materials in building construction.
- Transformers in normal use, unless the transformers were observed to be leaking; appear on an environmental regulatory list; or were otherwise determined to pose a hazard not related to normal use.
- Agricultural use of pesticides and herbicides. In addition, most land in Illinois was under agricultural use prior to its conversion to residential, industrial or commercial development. Pesticides, both regulated and otherwise, may have been used throughout the project area at any time. Unless specifically discussed elsewhere in this report, no information regarding past pesticide use that would be subject to enforcement action was located for this project, and such use is considered a de minimis condition.

Radon and biological hazards are not considered in this PESA unless specifically noted.

Although potential natural hazards and undermining, if present, are described in this report, they are not considered as RECs or de minimis conditions for the purposes of this report, and are, therefore, not listed in the tables above.

- **EXHIBIT 14-PROJECT OVERVIEW  
AND ENVIRONMENTAL  
CLEARANCES**





# Project Overview

**Submittal Date:** 03/17/2017 **Sequence No:** 20647  
**District:** 1 **Requesting Agency:** Local Kane County DOT **Project No:**   
**Contract #:**  **Job No.:** P-91-022-17  
**Counties:** Kane  
**Route:** FAP 526 **Marked:**   
**Street:** Silver Glen Road **Section:** 16-00115-02-BR  
**Municipality(ies):**  **Project Length:** 0.1609 km 0.1 miles  
**FromTo (At):** Bridge over Otter Creek  
**Quadrangle:** Geneva **Township-Range-Section:** T40N R08E S05 & S08  
**Survey Target Date:** 09/30/2017 **Anticipated Design Appr.:** 01/31/2018 **Anticipated Processing:** CE  
**Funding:**  Federal  State  TBP  MFT  Local Non-MFT

**Consultant:**   
**PTB No.:**  **Item No.:**  **PTB Date:**  **Prequal Level:**

<b>Sequence No:</b> 20647	<b>Biological</b>	<b>Wetlands</b>	<b>Cultural</b>	<b>Special Waste</b>
<b>Entered By</b>	BDE	BDE	BDE	
<b>Cleared for DA</b>	10/5/2017	10/5/2017	3/24/2017	
<b>Cleared for Letting</b>	11/5/2017	10/5/2017	3/24/2017	
<b>Resubmittal</b>				
<b>ResubmittalCleared</b>				
<b>Section:</b> 16-00115-02-BR	<b>Job No.:</b> P-91-022-17			
<b>FromTo (At):</b> Bridge over Otter Creek				

Notice of Intent	Project Initiation Ltr to FHWA	Public Info Meeting(s)		Notice of Availability		Public Hearing	Draft	ROD/FONSI Approved
		1st	2nd	Draft	Final			

**Project Phase Comments:**

**• EXHIBIT 15- FLOODWAY PERMIT**





# Illinois Department of Transportation

Office of Highways Project Implementation / Region 1 / District 1  
201 West Center Court / Schaumburg, Illinois 60196-1096

LOCAL ROADS AND STREETS  
Regulated Floodway Construction Permit Approval  
County of Kane  
Location: Silver Glen Rd. over Otter Creek  
Section No.: 16-00115-02-BR  
Project No.: BRS-0089 (194)  
Job No.: C-91-022-17  
File No.: 514  
Existing Structure No.: 045-3122  
Proposed Structure No.: 045-3161

October 27, 2017

Mr. Carl Schoedel, P.E.  
County Engineer/Director of Transportation  
Kane County  
Division of Transportation  
41W011 Burlington Road  
St. Charles, IL 60175

Dear Mr. Schoedel:

Attached is the Regulated Floodway Construction Permit No. D1L-17-014 for the above-referenced project authorizing the construction of Silver Glen Rd. over Otter Creek.

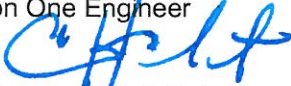
The project consists of Silver Glen Road Bridge Replacement over Otter Creek in Kane County. The bridge replacement will consist of a 20" Depth Three- Span Reinforced Concrete Slab Bridge (Roadway) & Steel Truss (Pedestrian). The project is located in the Section 5, Township 40 North, Range 8 East of the 3<sup>rd</sup> Prime Meridian, Kane County, as part of Section Number 16-00115-02-BR, Structure 045-3161.

This Permit grants permission to the County to only perform construction activities in a floodway.

If you have any questions or need additional information, please contact Alex Househ, Field Engineer, at extension 4410.

Very truly yours,

Anthony J. Quigley, P.E.  
Region One Engineer

By:   
Christopher J. Holt, P.E.  
Bureau Chief of Local Roads and Streets

Attachment

cc: Mr. Denis T. Hogan, P.E., Baxter & Woodman Consulting Engineers w/att.

STATE OF



ILLINOIS

Permit No.: DIL-17-014

Department of Transportation

Division of Highways
2300 South Dirksen Parkway
Springfield, IL 62764

REGULATED FLOODWAY CONSTRUCTION PERMIT
RIVERS, LAKES AND STREAMS ACT "615 ILCS 5"

PERMISSION IS HEREBY GRANTED TO: Kane County Division of Transportation
41W011 Burlington Road
St. Charles, IL 60175

FOR CONSTRUCTION OF: Silver Glen Road Bridge Replacement over Otter Creek in Kane County.
The bridge replacement will consist of a 20" Depth Three - Span Reinforced Concrete Slab Bridge
(Roadway) & Steel Truss (Pedestrian). The project is located in the Section 5, Township 40 North,
Range 8 East of the 3rd Prime Meridian, Kane County, as part of Section Number 16-00115-02-BR,
Structure 045-3161.

IN ACCORDANCE WITH THE Application and Plan
DATED July 25, 2017 AND MADE A PART HEREOF, AND SUBJECT TO THE
TERMS SHOWN ON THE BACK HEREOF AND THE SPECIAL CONDITIONS ATTACHED
HERETO AS EXHIBIT.

EXAMINED AND APPROVED

Regional Engineer Central Bureau Chief (with signature)

10/24/17
DATE

**• EXHIBIT 16- LOCAL AGENCY  
INFORMATIONAL LETTERS**



# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer

41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265



August 9, 2017

South Elgin Police Department  
10 Water Street  
South Elgin, Illinois 60177

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Sir/Madam:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

Based on the Average Daily Traffic (ADT) and existing roadway geometry within this area, the preferred method for Traffic Control for the subject improvement will be to maintain alternating two-way traffic with a temporary traffic signal during construction to allow access for emergency vehicles, minimize impacts to school bus routes, and relieve congestion for local residents. Maintaining one-way traffic is also a viable alternative; however, it is not as desirable as maintaining alternating two-way traffic. Enclosed is a project location map for your reference.

A Project Development Report is scheduled to be submitted at the end of 2017, with Design Approval anticipated in early 2018. Construction is anticipated to occur in 2019 and is estimated to last approximately 4-6 months.

If you have any questions or concerns about this project or the proposed traffic control during construction, please feel free to contact me at (630) 406-7355 or via email at [thomascandance@co.kane.il.us](mailto:thomascandance@co.kane.il.us).

Sincerely,

A handwritten signature in cursive script that reads "Candi Thomas".

Candi Thomas, P.E.  
Senior Project Manager

Enc.

# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer



41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265

August 9, 2017

South Elgin & Countryside Fire  
Protection District Station 22  
2055 McDonald Road  
South Elgin, Illinois 60177

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Sir/Madam:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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A Project Development Report is scheduled to be submitted at the end of 2017, with Design Approval anticipated in early 2018. Construction is anticipated to occur in 2019 and is estimated to last approximately 4-6 months.

If you have any questions or concerns about this project or the proposed traffic control during construction, please feel free to contact me at (630) 406-7355 or via email at [thomascandance@co.kane.il.us](mailto:thomascandance@co.kane.il.us).

Sincerely,

A handwritten signature in cursive script that reads "Candi Thomas".

Candi Thomas, P.E.  
Senior Project Manager

Enc.



# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer

41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265



August 9, 2017

United States Postal Service  
310 N La Fox Street, Suite 5  
South Elgin, Illinois 60177

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Sir/Madam:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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A Project Development Report is scheduled to be submitted at the end of 2017, with Design Approval anticipated in early 2018. Construction is anticipated to occur in 2019 and is estimated to last approximately 4-6 months.

If you have any questions or concerns about this project or the proposed traffic control during construction, please feel free to contact me at (630) 406-7355 or via email at [thomascandance@co.kane.il.us](mailto:thomascandance@co.kane.il.us).

Sincerely,

A handwritten signature in cursive script that reads "Candi Thomas".

Candi Thomas, P.E.  
Senior Project Manager

Enc.

# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer



41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265

August 9, 2017

St. Patrick Catholic School  
787 Crane Road  
St. Charles, Illinois, 60175

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Sir/Madam:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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# KANE COUNTY

DIVISION of TRANSPORTATION

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Director of Transportation  
County Engineer

41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265



August 9, 2017

Mr. Donald Scholmann  
Superintendent  
St. Charles CUSD 303  
201 South 7<sup>th</sup> Street  
St. Charles, Illinois 60174

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Mr. Scholmann:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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Candi Thomas, P.E.  
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# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer



41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265

August 9, 2017

Ms. Holly Cabel  
Director of Parks and Recreation  
St. Charles Park District  
101 S. Second Street  
St. Charles, Illinois 60174

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Ms. Cabel:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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Candi Thomas, P.E.  
Senior Project Manager  
Enc.

# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer

41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265



August 9, 2017

Mr. Steve Ward  
Village President  
Village of South Elgin  
10 N. Water Street  
South Elgin, Illinois 60177

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Mr. Ward:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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Candi Thomas, P.E.  
Senior Project Manager  
Enc.

# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer

41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265



August 9, 2017

Mr. Mark Koenen  
City Administrator  
City of St. Charles  
2 E. Main Street  
St. Charles, Illinois, 60174

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Mr. Koenen:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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Candi Thomas, P.E.  
Senior Project Manager  
Enc.



# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer



41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265

August 9, 2017

Mr. Ron Searl  
Village Administrator  
Village of Campton Hills  
40W270 LaFox Road, Suite B  
Campton Hills, IL 60175

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Mr. Searl:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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Candi Thomas, P.E.  
Senior Project Manager  
Enc.



# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer



41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265

August 9, 2017

Mr. Richard Kozal  
City Manager  
City of Elgin  
150 Dexter Ct.  
Elgin, IL 60120-5570

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Mr. Kozal:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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Candi Thomas, P.E.  
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# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer

41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265



August 9, 2017

Mr. Donald E. Kramer  
Sheriff  
Kane County Sheriff's Office  
37W755 Illinois Route 38  
St. Charles, IL 60175

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Mr. Kramer:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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Candi Thomas, P.E.  
Senior Project Manager  
Enc.

# KANE COUNTY

DIVISION of TRANSPORTATION

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Director of Transportation  
County Engineer

41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265



August 9, 2017

Mr. Terry Primdahl  
Director of Transportation  
CUSD 303 Department of Transportation  
901 South Peck Road  
St. Charles, IL 60175

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Mr. Primdahl:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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Candi Thomas, P.E.  
Senior Project Manager  
Enc.



# KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.  
Director of Transportation  
County Engineer



41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265

August 9, 2017

Mr Steve Frohling  
St Charles Highway Commissioner  
1725 Dean Street  
St Charles, IL 60174

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Mr. Frohling:

The purpose of this letter is to notify you that the Kane County Division of Transportation (KDOT) is presently engaged in the preliminary engineering and environmental studies for the replacement of the Silver Glen Road Bridge over Otter Creek in the Village of South Elgin and unincorporated Kane County. The proposed improvement will consist of the removal and replacement of the structure, new guardrails, and minor roadway work on the approaches.

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# KANE COUNTY

DIVISION of TRANSPORTATION

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Director of Transportation  
County Engineer



41W011 Burlington Road  
St. Charles, IL 60175  
Phone: (630) 584-1170  
Fax: (630) 584-5265

November 7, 2017

Mr. Steve Ward  
Village President  
Village of South Elgin  
10 N. Water Street  
South Elgin, Illinois 60177

**Subject: Silver Glen Road over Otter Creek  
Proposed Bridge Replacement and Traffic Control**

Dear Mr. Ward:

In August, we sent you a letter informing you of the subject project. It is our understanding that the Village of South Elgin has jurisdiction and maintains the River Bend Trail near Silver Glen Road and Otter Creek. The purpose of this letter is to inform you that the Kane County Division of Transportation (KDOT) intends to maintain pedestrian and bicyclist access across the bridge during construction.

During Stage I of construction, we will be shifting the lanes of traffic south on this existing bridge while maintaining alternating two-way traffic with a temporary traffic signal. We will be removing and replacing the existing pedestrian bridge during this stage. We will be installing temporary concrete barrier wall on the existing bridge and be providing a minimum 4 foot pedestrian walkway. After Stage 1, pedestrian traffic will be shifted onto the next pedestrian bridge. During Stages II and III we will be replacing the south and north side of the existing roadway bridge, respectively.

As stated in our previous letter, a Project Development Report is scheduled to be submitted at the end of 2017, with Design Approval anticipated in early 2018. Construction is anticipated to occur in 2019 and is estimated to last approximately 4-6 months.

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Senior Project Manager  
Enc.

**• EXHIBIT 17- IDOT KICK-OFF  
MEETING MINUTES**



## MEETING MINUTES

DATE & TIME: February 15, 2017, 1:30 PM

LOCATION: IDOT District One, Local Roads

SECTION: 16-00115-02-BR

PROJECT: Silver Glen Road Bridge over Otter Creek (SN 045-3122)

ATTENDEES: See Attached Attendance Roster

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The following is a summary of discussion items at the meeting:

1. Baxter & Woodman (B&W) began the meeting by presenting the project. The Silver Glen Road over Otter Creek bridge is under the jurisdiction of and maintained by the Kane County Division of Transportation (KDOT). Silver Glen Road is a major collector with a 2015 ADT of 8,200. The structure has a sufficiency rating of 28.5. There is a pedestrian structure, which runs parallel to the roadway bridge on the north side.
2. Scope of Work—STP Bridge funding has been secured for the rehabilitation of the Silver Glen Road over Otter Creek bridge. The scope of work includes superstructure/bridge replacement and approach roadway work.
3. Typical Section—The existing and proposed bridge typical sections were discussed at the meeting. 12-ft thru lanes and 8-ft shoulders will be provided on the Silver Glen Road Bridge.
4. Structure Type Study and Bridge Condition Report— The structure type alternatives for the main bridge include a single or three span bridge, in reinforced concrete, steel, or prestressed concrete. The Study will also evaluate options for the pedestrian structure including a separate bridge or incorporation into the main structure. An Abbreviated Bridge Condition Report (ABCR) will be prepared and submitted within the next month. The Preliminary Bridge Design and Hydraulic Report (PBDHR) will be submitted after completion of the Structure Type Study.
5. Hydraulics & Permitting— It is anticipated that IDOT will issue a floodway construction permit because the project limits fall within a designated floodway. The Hydraulic report will be submitted for IDOT review and approval.
6. Maintenance of Traffic—As part of the study, B&W will be evaluating maintaining one lane of traffic during construction and implementing a detour versus closing the bridge. The Riverbend Regional Trail crosses the bridge and terminates west at Reserve Court. Maintaining connectivity of the trail will also be evaluated during the Phase I.
7. Utilities- There are overhead electric lines located on the south side of the bridge, which run east-west along the existing right-of-way.



8. Environmental—An Environmental Survey Request will be submitted to IDOT for Biological and Cultural Resources Review. The County hired B&W last fall to delineate the existing wetlands as advance work. B&W will perform the Special Waste Assessment and prepare a wetland report.
9. Right-of-Way— The existing right-of-way is 60 feet south and 50 feet north of the centerline of Silver Glen Road at the bridge. The St. Charles Park District is located on the south side and the Village of South Elgin is on the north side of the bridge. Proposed right-of-way limits, if needed, will be determined based on the preferred bridge type and compensatory storage needs.
10. Project Development Report (PDR)- It is anticipated that the project will be processed as a Categorical Exclusion Group I. After the BCR is approved, the project will be presented to FHWA. FHWA will determine whether the project is a Group I or II.
11. Schedule—B&W provided a proposed design schedule. IDOT indicated that it would take approximately 6 months after the wetland impact evaluation form is submitted to obtain biological clearance. Phase I design approval is targeted for March 2018. Final PS&E is scheduled to be completed in December 2018 with a construction letting in March 2019.



**• EXHIBIT 18- FHWA  
COORDINATION MEETING  
MINUTES**



## MEETING MINUTES

### IDOT/FHWA Coordination Meeting

DATE: October 17, 2017 2:15 pm

LOCATION: IDOT, District 1, 4<sup>TH</sup> Floor Executive Conference Room

LOCAL AGENCY: Kane County Division of Transportation

PROJECT: Silver Glen Road over Otter Creek

SECTION: 16-00115-02-BR

ATTENDEES: See Attached Attendance Roster

- 
1. Scope of Work – Silver Glen Road and the bridge is under the jurisdiction of Kane County Division of Transportation. The existing bridge was constructed in 1984 and has a sufficiency rating of 28.5. It is structurally deficient and functionally obsolete.

The existing roadway is a two lane rural section with 12 foot lanes, one lane in each direction, and varying 4 to 8 foot wide hot-mix asphalt shoulders. Silver Glen Road has an existing 2015 ADT of 8,200 vehicles and projected 2040 ADT of 11,000 vehicles. The Riverbend Trail runs along the north side of Silver Glen Road and crosses Otter Creek. Proposed improvements include total replacement of the bridge with a 20" depth three span reinforced concrete slab bridge, a new steel truss pedestrian bridge, reconstruction of the approach roadway, and resurfacing to match existing grades at the project limits.

Additional improvements include guardrail and drainage ditch grading. The existing profile grade for the Riverbend trail leading up to the east side of the bridge is approximately 11%. IDOT and the FHWA indicated that the maximum profile grade for the Riverbend trail shall be 5% in accordance to BLR standards. Baxter and Woodman (B&W) will evaluate reconstructing the existing trail to provide the required 5% maximum grade. IDOT and FHWA concurred with the scope of work.

2. Land Acquisition—Proposed right-of-way is not anticipated with the project.
3. Termini – The existing profile is being maintained. The project limits extend to the length of need of guardrail. Silver Glen Road is anticipated to be milled and resurfaced to the project limits. The FHWA concurred with the logical termini.
4. Maintenance of Traffic – Alternating two-way traffic along Silver Glen Road will be maintained during construction with a temporary traffic signal in accordance with IDOT Highway Standard 701316 Lane Closure, 2L, 2W, Bridge Repair. IDOT and FHWA also indicated that pedestrian access across the bridge during construction must be maintained. B&W will evaluate stage constructing the bridge and providing a minimum 4 foot wide path across the bridge with temporary concrete barrier wall to shield pedestrians from vehicles. If a 14 foot lane cannot be maintained on the bridge during construction to accommodate trucks, B&W should provide a temporary detour for trucks.

5. Public Involvement – Letters describing the proposed improvement and design and construction schedule have been sent to the Village of South Elgin, St. Charles Park District, local school district, fire department, police department, and post office. IDOT and FHWA suggested posting the project on Kane County DOT's website to fulfill the public coordination element of Phase I and inform the public of the proposed improvement. B&W should determine who has jurisdiction of the Riverbend Trail and send a coordination letter to the owner for input on the project.
6. Environmental Processing – An Environmental Survey Request was submitted on March 9, 2017. B&W has received biological and cultural sign-off. IDOT indicated that B&W should be receiving sign-off for natural resources soon. A special waste assessment was performed, and a PESA prepared for the project. Based on the PESA, a PSI is not required. B&W anticipates preparing an LPC 662 form during Phase II to satisfy IDOT's special waste requirements that there are no hazardous soils, which would need to be disposed of at a special landfill. The Wetland Delineation Report and Wetland Impact Evaluation form was submitted on September 18, 2017. Wetlands will be impacted and will be mitigated at the Blackberry Creek Headwaters mitigation bank. The project was cleared for construction for wetlands on October 5, 2017. The project will involve in-stream work; permits will be obtained from the U.S. Army Corps of Engineers during Phase II Design.

On October 17, 2017, the FHWA and IDOT concluded that the project will not have any significant impacts on the human environment, or involve any unusual circumstances, therefore, it is a State Approved Categorical Exclusion. B&W should utilize BLR Form 19100.



**Illinois Department  
of Transportation**

**FHWA/Local Coordination Meeting  
Attendance Roster**

<b>Agency Name:</b>	Kane County		
<b>Project &amp; Topic:</b>	Silver Glen Road over Otter Creek; Superstructure Bridge replacement; Scope, termini, environmental processing		
<b>Section No.:</b>	16-00115-02-BR		
<b>Date:</b>	October 17, 2017	<b>Time:</b>	2:15 PM
<b>Location:</b>	Region/District One	<b>Room:</b>	Executive Conference Room

IDOT - DISTRICT ONE			
Chris Holt (847) 705-4201	CH	Alex Househ (847) 705-4410	Zubair Haider (847) 705-4206
Marilyn Solomon (847) 705-4407	MS	Kevin Stallworth (847) 705-4169	Gerardo Fierro (847) 705-4236
Michelle Davis-Byrd (847) 705-4795		Jim Skvarla (847) 705-4520	Moud Ahmad (847) 705-4409
Jason Salley (847) 705-4085		Hannah Knight (847) 705-4205	Joy Gustafson (847) 705-4334
		Jennifer Williams (847) 705-4229	David Herman (847) 705-4487
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**• EXHIBIT 19-  
GUARDRAIL ANALYSIS**





# Silver Glen over Otter Creek

AMM 12-20-17

## NE Corner: Bridge/Retaining Wall (Approach side)

L1=170 ft = 14 sections at 12.5 ft = 175 ft (see attached NE exhibits)

Need starts at Sta 51+70 Lt (retaining wall at 22' Lt)

Traffic Barrier Terminal Type 6 (TBT T-6) at Bridge (Sta 50+70 to Sta 51+06.9 Lt): 36.9 ft long

Traffic Barrier Terminal Type 1 (Special) Tangent (TBT T-1 (Spl) Tan): (50 ft long; 37.5 ft included in Need)  
(Sta 53+06.9 to Sta 53+56.9 Lt)

## Steel Plate Beam Guardrail Type A 6 Foot Posts (SPBGR T-A 6FT POSTS):

Starts at Sta 51+06.9 (end of TBT T-6); need additional because Need starts at Sta 51+70

Additional = 63.1 ft

L1 = 175 ft

Subtract TBT T-1 (Spl) Tan Need allowance of 37.5 ft

Required = 200.6 ft; use 16 sections of 12.5 ft = 200 ft

200 ft guardrail between TBT T-6 and TBT T-1 (Spl) Tan (Sta 51+06.9 to Sta 53+06.9 Lt)

## NW Corner: Bridge (Departure side)

L1=40 ft

TBT T-6 at Bridge (Sta 48+92.1 to Sta 49+29 Lt) = 36.9 ft (use in Need)

TBT T-1 (Spl) Tan (Sta 48+42.1 to Sta 48+92.1 Lt) with 37.5 ft included in Need

SPBGR T-A 6FT POSTS = 0 ft; Need satisfied with TBTs (36.9+37.5=74.4 ft > 40 ft)

NE Corner Silver Glen

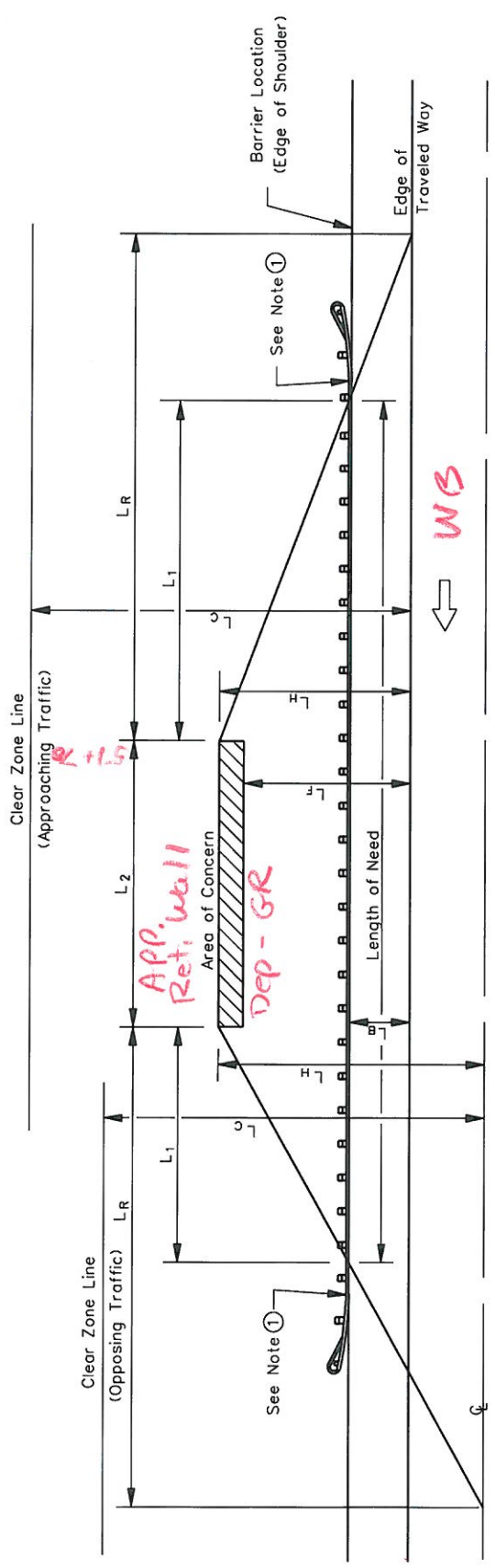
AMM 12-20-17

2/3

# BUREAU OF LOCAL ROADS & STREETS ROADSIDE SAFETY

35-4(12)

Aug 2006



- App.
- $L_B$  = Distance to barrier = 9 ft (1:4)
  - $L_C$  = Clear zone = 29 ft = 22 ft
  - $L_H$  = Distance to back of hazard = 22 ft
  - $L_F$  = Distance to front of hazard
  - $L_R$  = Runout length (see Figure 35-4G) = 260 ft
  - $L_1$  = Length needed for approach end = 170 ft
  - $L_2$  = Length of hazard NA - BRIDGE RAIL

Dep  
 $L_B = 3.5$  ft  
 $L_H = 18'$  = C.Z.  
 $L_R = 260$  ft  
 $L_1 = 40$  ft

Note:  
 ① Use appropriate crashworthy terminal. See Section 35-4.02.

**BARRIER LENGTH OF NEED LAYOUT**  
 (Hazard Within Clear Zone of Opposing Traffic)

Figure 35-4F



# Silver Glen over Otter Creek

AMM 12-20-17

## SW Corner: Bridge (Approach)

$L1=230 \text{ ft} = 19 \text{ sections at } 12.5 \text{ ft} = 237.5 \text{ ft}$  (see attached SW exhibits)

Need starts at Sta 49+29 Rt (bridge and wetlands at 30' Lt)

Traffic Barrier Terminal Type 6 (TBT T-6) at Bridge (Sta 48+92.1 to Sta 49+29): 36.9 ft long

Traffic Barrier Terminal Type 1 (Special) Tangent (TBT T-1 (Spl) Tan): (50 ft long; 37.5 ft included in Need)

(Sta 46+79.6 to Sta 47+29.6 Rt)

Steel Plate Beam Guardrail Type A 6 Foot Posts (SPBGR T-A 6FT POSTS):

Starts at Sta 49+29 where Need starts at bridge

$L1 = 230 \text{ ft}$

Subtract TBT T-6, within Need = 36.9 ft

Subtract TBT T-1 (Spl) Tan Need allowance of 37.5 ft

Required = 155.6 ft; use 13 sections of 12.5 ft = 162.5 ft

162.5 ft guardrail between TBT T-6 and TBT T-1 (Spl) Tan (Sta 47+29.6 to Sta 48+92.1 Rt)

## SE Corner: Bridge (Departure side)

Bridge/Guardrail at 20 ft from Edge of Traveled Way for Westbound Traffic

Clear Zone = 18 ft for pavement cross slope flatter than 1:6

Therefore; Guardrail outside of clear zone by 2 ft: No L1 to calculate

Guardrail required to shield bridge rail

TBT T-6 at Bridge (Sta 50+70 to Sta 51+06.9 Rt) = 36.9 ft

TBT T-1 (Spl) Tan (Sta 51+06.9 to Sta 51+56.9 Rt) = 50 ft

SPBGR T-A 6FT POSTS = 0 ft

SW corner Bridge

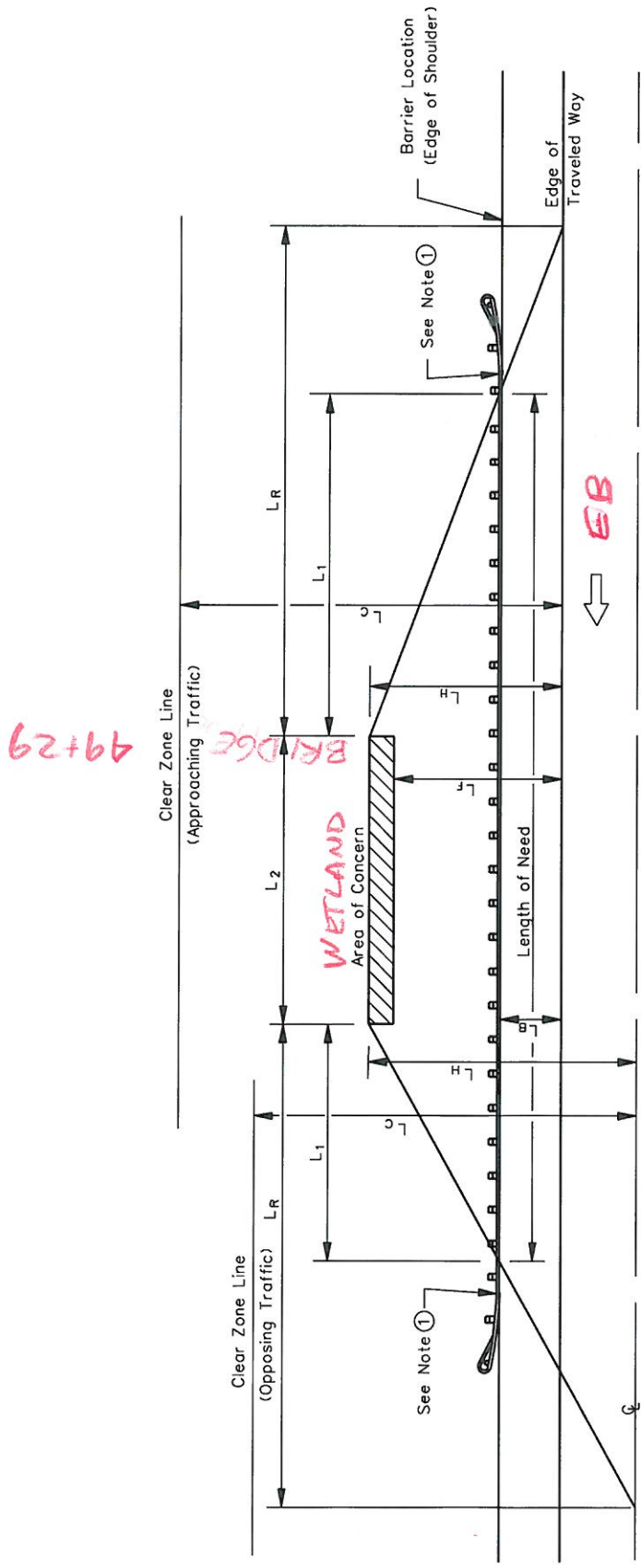
AMM 12-19-17

2/3

BUREAU OF LOCAL ROADS & STREETS  
ROADSIDE SAFETY

35-4(12)

Aug 2006



$L_B =$  Distance to barrier = 35 ft  
 $L_C =$  Clear zone = TOE + 10ft = 40ft  
 $L_H =$  Distance to back of hazard = 30 ft - wetlands 3 ft @ 49+29  
 $L_F =$  Distance to front of hazard  
 $L_R =$  Runout length (see Figure 35-4G) = 260 ft  
 $L_1 =$  Length needed for approach end = 230 ft  
 $L_2 =$  Length of hazard - MPA - Bridge rail

Dep  $L_C = 18$  ft  
 Dep  $L_B = 8$  ft

Departure @  
 Barrier @ 20ft > 18ft  
 TGT only

Note:

① Use appropriate crashworthy terminal. See Section 35-4.02.

**BARRIER LENGTH OF NEED LAYOUT**  
(Hazard Within Clear Zone of Opposing Traffic)

Figure 35-4F

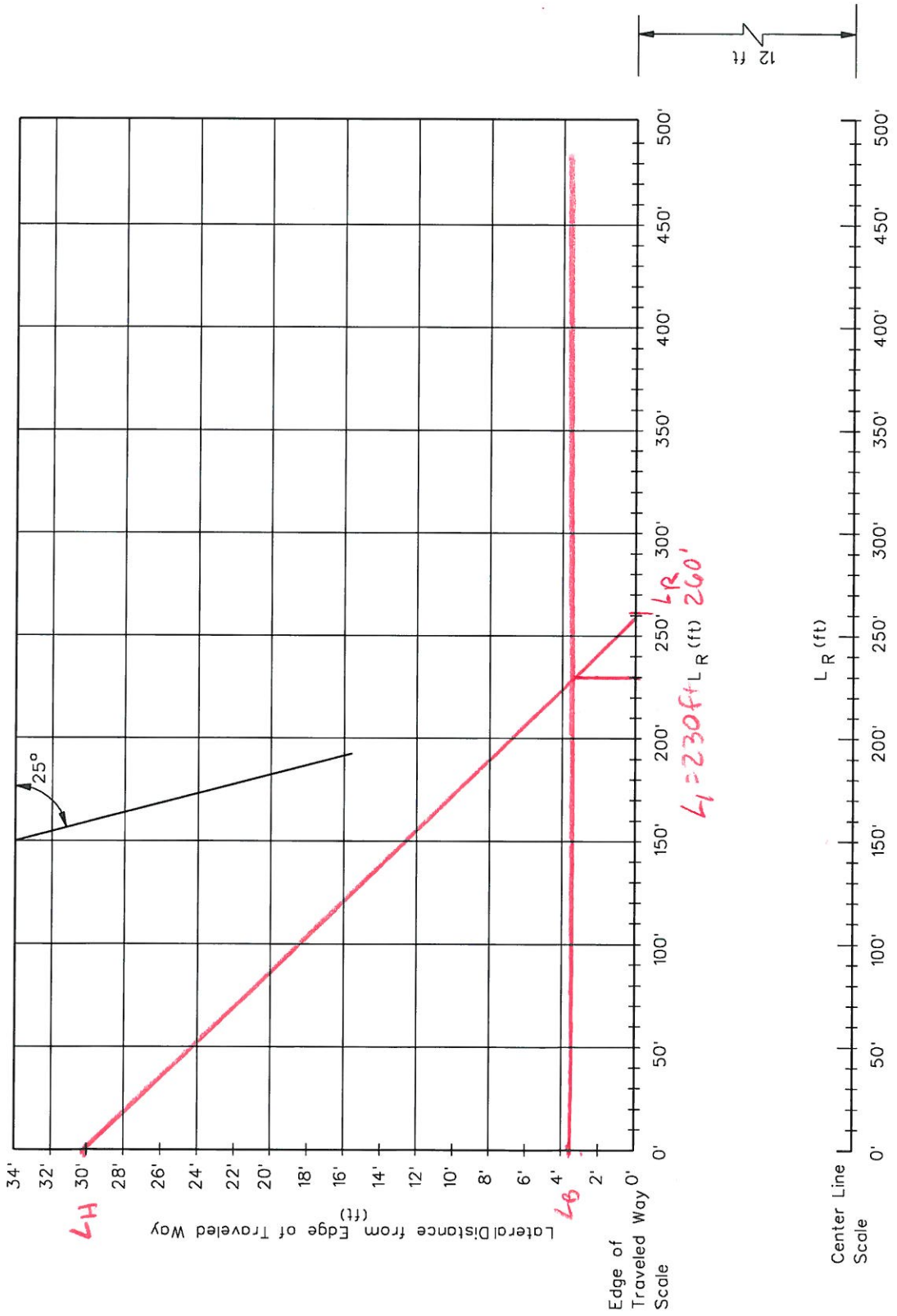
BUREAU OF LOCAL ROADS & STREETS  
ROADSIDE SAFETY

35-4(14)

Aug 2006

AMM 12-19-17

SW Corner Bridge



Note: Centerline scale assumes a 12 ft lane width. For other lane widths, appropriate adjustments must be made.

BARRIER LENGTH OF NEED CALCULATION

(US Customary)

Figure 35-4H

Silver Glen Road: ADT = 8,200  
Speed = 45mph

BUREAU OF LOCAL ROADS & STREETS  
ROADSIDE SAFETY

Feb 2008

35-2(3)

Design Speed	Design Year ADT <sup>(1)</sup>	Front Slopes <sup>(2)</sup>		Back Slopes <sup>(3)</sup>		
		1V:6H or Flatter	1V:5H to 1V:4H	1V:3H	1V:5H to 1V:4H	1V:6H or Flatter
40 mph or less	Under 750	7 <sup>(7)</sup>	7 <sup>(7)</sup>	7 <sup>(7)</sup>	7 <sup>(7)</sup>	7 <sup>(7)</sup>
	750 or Over	10	10	10	10	10
45 – 50 mph	Under 750	10 <sup>(7)</sup>	12 <sup>(7)</sup>	10 <sup>(7)</sup>	10 <sup>(7)</sup>	10 <sup>(7)</sup>
	750 – 1500	12	16	10	12	14
	1500 – 6000	16	20	12	14	16
	Over 6000	18	24	14	18	20
55 mph	Under 750	12 <sup>(7)</sup>	14 <sup>(7)</sup>	10 <sup>(7)</sup>	10 <sup>(7)</sup>	10 <sup>(7)</sup>
	750 – 1500	16	20	10	14	16
	1500 – 6000	20	24	14	16	20
	Over 6000	22	26	16	20	22
60 mph	Under 750	16 <sup>(7)</sup>	20 <sup>(7)</sup>	10 <sup>(7)</sup>	12 <sup>(7)</sup>	14 <sup>(7)</sup>
	750 – 1500	20	26	12	16	20
	1500 – 6000	26	30	14	18	24
	Over 6000	30	30	20	24	26

SE departure NE approach

Notes: 1. The "Design Year ADT" will be the total ADT for both directions of travel for the design year. Traffic volumes will normally be based on a 20-year projection from the anticipated date of construction unless current ADT < 400. This applies to both divided and undivided facilities.

SW approach

NW departure

2. For 1V:3H and 1V:2H front slopes, see Sections 35-2.03(b) and 35-2.03(c). For roads functionally classified as local with an ADT ≤ 400, see Section 35-2.02(d).

3. The values for "back slopes" only apply to a section where the toe of the back slope is adjacent to the shoulder (see Figure 35-2B(c)). For sections with roadside ditches, see Section 35-2.05.

4. All distances are measured from the edge of the traveled way.

5. The values in the figure apply to tangent sections of highway. See the discussion in Section 35-2.02(e) for possible adjustments on horizontal curves.

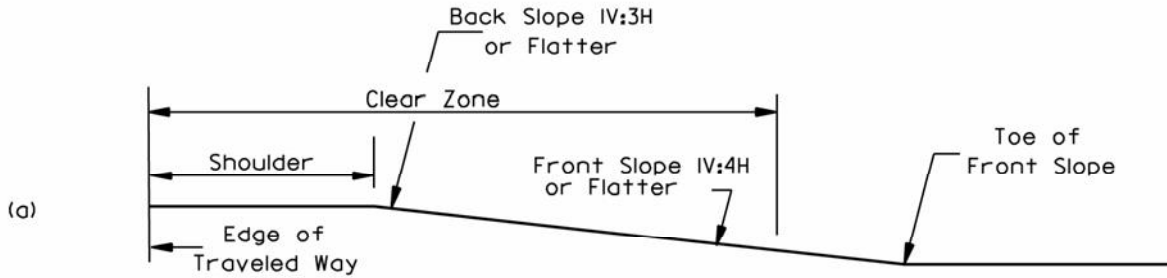
6. The values in the figure apply to all uncurbed sections and to curbed sections in rural areas. See Section 35-2.02(f) for curbed sections in urban areas.

7. For roads functionally classified as local with an ADT ≤ 400, see Section 35-2.02(d).

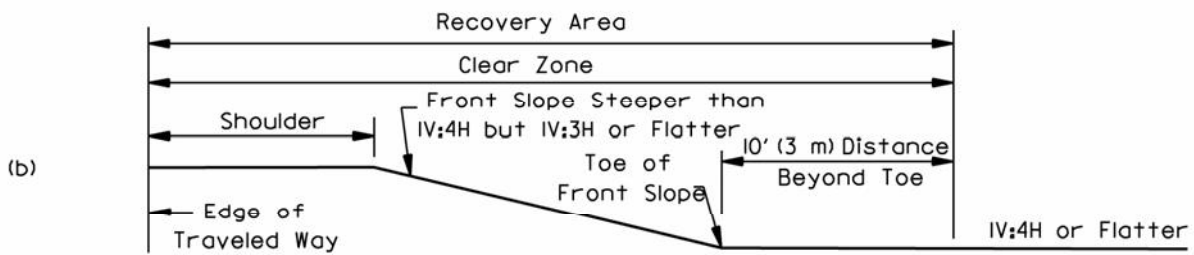
MINIMUM CLEAR ZONE DISTANCES (ft)  
(New Construction/Reconstruction)

Figure 35-2A (US Customary)

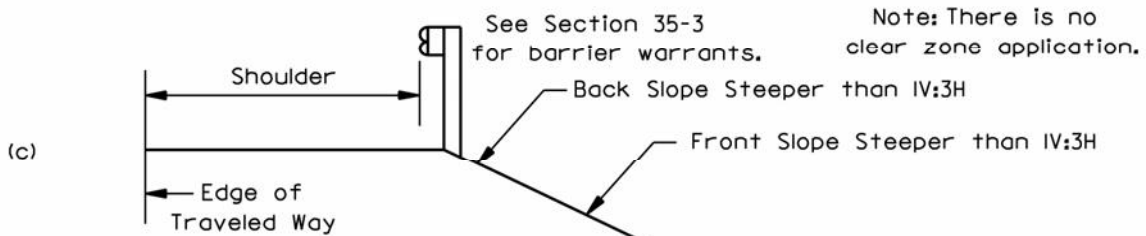




RECOVERABLE PARALLEL SLOPE



NON-RECOVERABLE PARALLEL SLOPE



CRITICAL PARALLEL SLOPE

**CLEAR ZONE APPLICATION FOR SLOPES  
(Uncurbed)**

**Figure 35-2C**

Silver Glen Road: ADT = 8,200  
 Speed = 45mph

**BUREAU OF LOCAL ROADS & STREETS**

Aug 2006

ROADSIDE SAFETY

35-4(13)

Design Speed		Traffic Volume (ADT)*							
		Over 6000	2000-6000	800-2000	Under 800				
Mph	(km/h)	Runout Length $L_R$		Runout Length $L_R$		Runout Length $L_R$		Runout Length $L_R$	
		ft	(m)	ft	(m)	ft	(m)	ft	(m)
60	(100)	425	(130)	400	(120)	345	(105)	330	(100)
55	(90)	360	(110)	345	(105)	315	(95)	280	(85)
50	(80)	330	(100)	300	(90)	260	(80)	245	(75)
45	(70)	260	(80)	245	(75)	215	(65)	200	(60)
40	(60)	230	(70)	200	(60)	180	(55)	165	(50)
35		200		185		165		150	
30	(50)	165	(50)	165	(50)	150	(45)	130	(40)

\*Based on a 10 year projection from the anticipated date of construction.

**RUNOUT LENGTHS FOR BARRIER DESIGN**

**Figure 35-4G**

- b. From this point, draw a line parallel to the 25° line in Figure 35-4H until it intersects the  $L_B$  line (Step 1).
  - c. Move down vertically to the  $L_R$  "Edge of Traveled Way Scale" and read  $L_3$ .
  - d. As illustrated on Figure 35-4E, the  $L_3$  distance is omitted from the length of need.
8. A barrier flare may be used to reduce the barrier length of need. Example 35-4.07(3) illustrates how to use Figure 35-4B to determine  $L_1$  when the barrier is flared.
  9. The length of need determined in the above steps must be adjusted to provide full 12'-6" (3.81 m) panels of guardrail. The length of guardrail required in advance of the hazard as determined in Steps 1 through 6 is always rounded up. The length to be omitted as determined in Step 7 is always rounded down.

The various traffic terminal end treatments may allow a portion of the terminal to be included in the length of need. Include any applicable portion when determining the location of the terminal.

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- **EXHIBIT 20-PUBLIC  
INVOLVEMENT- KANE COUNTY  
WEBSITE**



# KANE COUNTY DIVISION OF TRANSPORTATION

Carl Schoedel, P.E., Director of Transportation, County Engineer

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## Silver Glen over Otter Creek

### PROJECT OVERVIEW

Silver Glen Road over Otter Creek (approximately 0.75 miles west of Randall Road) in South Elgin, Illinois is undergoing Phase I/II Engineering Design and Environmental Studies for structural improvements to the existing bridge crossing (SN 045-3161). Additionally, the River Bend Trail runs along the north side of Silver Glen Road and crosses Otter Creek within the proposed improvement area. Proposed improvements will include total replacement of both the roadway bridge and pedestrian bridge, reconstruction of the approach roadway, guardrail improvements and drainage ditch grading.

Silver Glen Road and the Otter Creek Bridge are under the jurisdiction of Kane County Division of Transportation. The existing bridge was constructed in 1984 and has a sufficiency rating of 28.5, due to advanced deterioration of the precast deck beams.

Proposed right-of-way is not anticipated with the project.

During construction, alternating two-way traffic along Silver Glen Road will be maintained with a temporary traffic signal. Pedestrian access will also be maintained during construction.

Maintenance work to repair several precast deck beams was performed in 2017 and more repairs will be performed in early 2018 to ensure the structure can adequately maintain traffic loads until the full structure replacement can be implemented in 2019.

[Project Location Map](#)

["Draft" Project Development Report](#)

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