PALATINE TOWNSHIP ROAD DISTRICT

JOHN D. POWERS
HIGHWAY COMMISSIONER

530 N. SMITH STREET
PALATINE, IL 60067
TEL (847) 358-6336
FAX (847) 358-4056

MAIL

March 16, 2012

Mrs. Gloria Basara
301 Briarwood Lane
Palatine, IL 60067-7701

RE: Bridge Replacement / Road Improvements

Dear Mrs. Basara,

We would like to inform you of some impending road construction work that will be performed in your area. The Briarwood Bridge, over *the Salt Creek Upper Reach*, is in need of continued maintenance and is near the end of its life cycle. Aware of this situation, we at Palatine Township Road District (PTRD) have been budgeting for a replacement over several years and are able to provide one at no additional cost to the residents. Additionally, we have been in contact with Cook County Highway Department (CCHD) and Illinois Department of Transportation (IDOT) in order to design a replacement for the 60-year old bridge and realign Briarwood Lane to the center of the right of way. Currently, we are close to a final design from these agencies and receiving their approvals with the necessary permits for construction.

At this time we would like to update all of the residents who are most impacted by the forthcoming construction. In order to illustrate these improvements we have prepared an exhibit which outlines the work. Please see the attached plan; the existing conditions are in a grayscale with proposed conditions in a darker weight. Once you review this information and when you have any questions, concerns or need any additional information do not hesitate to contact us at 847.358.6336. If you wish, please stop by our office and speak with Roland Sachs, Jr., he will be pleased to assist you. We understand that this will be an inconvenience to you, your families and your neighbors and we will try to limit the impact as much as we can. Be assured we will continue to be available with assistance during the construction.

Regards,

John D. Powers
Highway Commissioner
Palatine Township Road District

Illinois Department of Transportation
Structures Information Management System
Structure Summary Report

Date: 04/25/2012
Page: 1

Structure Number: 016-4000 **District:** 1

Inventory Data

Facility Carried: BRIARWOOD
Feature Crossed: SALT CR
Bridge Remarks:
Bridge Status: 1 OPEN - NO RESTRICT
Status Remarks:
Maint County: 016 COOK
Maint Responsibility: 09 TOWNSHIP OR ROAD DISTRICT
Service On/Under: 1 HIGHWAY / 5 WATERWAY
Reporting Agency: 3 COUNTY / 19 CULVERT
Main Span Matl/Type: 1 CONCRETE
Nbr Of Main Spans: 3 Nbr Of Approach Spans: 0
Approaches
Near #1 Matl/Type: /
Near #2 Matl/Type: /
Far #1 Matl/Type: /
Far #2 Matl/Type: /
Median Width/Type: 0 Ft. / 0 None
Guardrail Type L/R: 0None / 0 None
Toll Facility Indicator: 0 No Toll
Latitude: 42 D 04 M 16.19 S Longitude: 88 D 02 M 5.17 S
Deck Structure Type: A CIP CON NRMLLY FORM
Sidewalks Under Structure: 0 None

Bridge Name: BRIARWOOD CULVERT
Location: 0.5 E PLUM GR P18
Status Date: 04/1988
Maint Township: 25 PALATINE
Skew Angle: 00 D 00 M 00 S

Sufficiency Rating: 81.0
HBP Eligible: No
Replaced By: 000-0000
Replaces: 000-0000
Last Update Date: 01/06/2011
Parallel Structure: None
Multi-Level Structure Nbr:
Skew Direction: N None
Structure Flared: No
Historical Significance: No
Border Bridge State:
Bdr State SN:
Bdr State % Responsibility: 0
Structural Steel Wt 0
Substructure Material:
Rated By: N N/A
Inventory Rating: 20(236)
Operating Rating: 27.2(249)
Design Load: 99 UNKNOWN
Deck Structure Thickness: 12 SD: N FO: Y

Structure Length: 41.0
AASHTO Bridge Length: 39.0
Length of Long Span: 12.0
Bridge Roadway Width: 20.0
Appr Roadway Width: 20.0
Deck Width: 27.6
Sidewalk Width Right: 0.0
Sidewalk Width Left: 0.0
Navigation Control: 0 No
Navigation Horiz Clear: 0
Navigation Vert Clear: 0
Culvert Fill Depth: 0.3
Number Culvert Cells: 3
Culvert Opening Area: 252.0
Culvert Cell Height: 7.00
Culvert Cell Width: 12.00
Rate Method:
Load Rating Date: 01/01/1901

Railroad Crossing Info
Crossing 1 Nbr:
Crossing 1 Nbr:
RR Lateral Underclear: 00.0
RR Vertical Underclear: 00 Ft 00 In

Key Route On Data

Key Route Nbr: TOWNSHIP OR ROAD DISTRICT 3512
Appurtenances Main Route 00.000
Inventory County: 016 COOK
Township/Road Dist 25 PALATINE
Municipality 0000
Urban Area: 1051 1051
Functional Class: 90 LOCAL STREET, (URBAN)

** CLEARANCES **	South/East	North/West
Max Rdwy Width:	000.0	
Horizontal:	021.4	000.0
Lateral:		

Station: 000.500
Segment: 25
Linked: Y
Natl. Hwy System: Not on NHS
Inventory Direction:
Curr AADT Yr/Count: 2010 / 650
Est Truck Percentage: 3
Number Of Lanes: 2
One Or Two Way: 2 Two-Way
Bypass Length: 1
Future AADT Yr/Cnt: 2032 / 670
Designated Truck Rte: NONE
Special Systems: No

*** Marked Route On Data ***

	Designation	Kind	Number
Route #1:	1 Mainline	4 FAS, CH, or TR's Unmarked	3512
Route #2:			
Route #3:			

Key Route Under Data

	South/East	North/West
Station:		
Segment:		
Linked:		
Natl. Hwy System:		
Inventory Direction:		
Curr AADT Yr/Count:	/	
Est Truck Percentage:		
Number Of Lanes:		
One Or Two Way:		
Bypass Length:		
Future AADT Yr/Cnt:	/	
Designated Truck Rte:		
Special Systems:		

*** Marked Route Under Data ***

Designation	Kind	Number

Illinois Department of Transportation
Structures Information Management System
Structure Summary Report

Structure Number: 016-4000 **District:** 1

Data Related to Inspection Information

*** Inspection Intervals ***

Routine NBIS: 24 MOS Underwater: 0 MOS Special: N

*** Maximum Allowable Posting Limits ***

One Truck At A Time:
Single Unit Vehicles: Tons
Combination Type 3S-1: Tons
Combination Type 3S-2 Tons

Bridge Posting Level: 5 No Posting Required

Inspection/Appraisal Information

Inspection Date: 05/14/2010 Inspection Temperature: 60Deg. F

Deck:	N	NOT APPLICABLE
Superstructure:	N	NOT APPLICABLE
Substructure:	N	NOT APPLICABLE
Culvert:	6	SATISFACTORY CONDITION - MINOR DETERIORATION
Channel and Protection:	7	GOOD CONDITION - SOME MINOR PROBLEMS
Structural Evaluation:	6	EQUAL TO PRESENT MINIMUM CRITERIA
Deck Geometry:	3	INTOLERABLE - HIGH PRIORITY FOR CORRECTION
Underclearance-Vert/Lat.:	N	NOT APPLICABLE
Waterway Adequacy:	7	BETTER THAN PRESENT MINIMUM CRITERIA
Approach Roadway Align:	6	EQUAL TO PRESENT MINIMUM CRITERIA
Bridge Railing Appraisal:	2	Doesn't Meet Standards
Approach Guardrail:	111	Does Not Exist Does Not Exist Does Not Exist
Pier Navig Protection:	N	N/A

** Actual Posted Limits **
Single Unit Vehicles: Tons
Combination Type 3S-1: Tons
Combination Type 3S-2: Tons
One Truck At A Time:

Deck Wearing Surf: G BITUMINOUS OVERLAY
Deck Membrane: F NONE
Deck Protection: J NONE
Total Deck Thick: 14.0
Last Paint Date:
Last Paint Type:

Underwater Inspection/Appraisal Information

Inspection Date:
Temperature:
Inspection Category:
Inspection Method:
Appraisal Rating:

Scour Critical Information

Rating: 8 CALCULATED SCOUR ABOVE FOOTING
Analysis Date: 04/10/2006
Evaluation Method: 8 Rational Analysis

Construction Information

Year: 1954 Original
Route:
Section Nbr:
Contract Nbr:
Fed Aid Pr#:
Built By: 0 UNKNOWN
Sta:
Reconstructed
Sta:

Miscellaneous

Microfilm Data Recorded: No

Waterway Information

Flood Design Frequency: 0 YRS
Flood Design Q (CFS): 0
Flood Design Nat H W E: 0
Flood Des Open Prop: 0 SF
Drainage Area: 0 Acre
Flood Base Q (CFS): 0
Flood Base Nat H W E: 0

HISTORY KEPT YES ☒ NO ☐	**ILLINOIS HIGHWAY INFORMATION SYSTEM** **STRUCTURE INFORMATION AND PROCEDURE MANUAL**	
NBIS REQUIRED YES ☒ NO ☐	ITEM NAME **DECK GEOMETRY APPRAISAL**	ITEM NO. **68** PAGE **1 of 4** EFF. DATE **07/01/07**
	ISIS	
RESPONSIBLE FOR UPDATE	**Computer Generated**	
STRUCTURES	**All**	
UPDATE SCREENS	**None**	
INQUIRY SCREENS	**(4) Inspection / Appraisals**	

DESCRIPTION AND PURPOSE OF ITEM

The overall rating for deck geometry includes two evaluations:

(a) The curb-to-curb or face-to-face of rail bridge width using Table 2A, B, C or D, and

(b) The minimum vertical clearance over the bridge roadway using Table 2E.

The lower of the codes obtained from these tables is used.

The curb-to-curb or face-to-face of rail dimension is taken from Item 51 - Bridge Roadway Width. Item 53A & B - Minimum Vertical Clearance Over Bridge Roadway is used to evaluate the vertical clearance.

The values provided in the tables are for rating purposes only. Current design standards must be used for structure design or rehabilitation.

History is retained for this item based on each Inspection Date - Item 90. Daily calculated values are not retained.

CODE AND SCREEN ENTRY INSTRUCTIONS

DO NOT CODE - This item is computer generated utilizing the discussion above and the following tables.

ILLINOIS HIGHWAY INFORMATION SYSTEM
STRUCTURE INFORMATION AND PROCEDURE MANUAL

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Table 2E. Rating by Comparison of Minimum Vertical Clearance over Bridge Roadway - Item 53 and Functional Classification - Item 26

Deck Geometry Rating Code	Minimum Vertical Clearance		
	Functional Class (FC) For Route On Structure		
	Interstate and Other Freeway (FC = 10,20) All Routes - Except as Noted for Urban Areas	Other Principal and Minor Arterials (FC = 21, 30, 40, 70)	Major and Minor Collectors and Locals (FC = 50, 55, 60, 80, 90)
9	> 17'-0"	> 16'-6"	> 16'-6"
8	= 17'-0"	= 16'-6"	= 16'-6"
7	≥ 16'-9"	≥ 15'-6"	≥ 15'-6"
6	≥ 16'-6"	≥ 14'-6"	≥ 14'-6"
5	≥ 15'-9"	≥ 14'-3"	≥ 14'-3"
4	≥ 15'-0"	≥ 14'-0"	≥ 14'-0"
3	Vertical clearance less than value in rating code of 4 and requiring corrective action. (See Item 75A)		
2	Vertical clearance less than value in rating code of 4 and requiring replacement. (See Item 75A)		
0	Bridge closed.		

Notes:

1. Use the lower rating code for values between those listed in the table.
2. If the structure's Functional Class = 20 and the urban area code is "0000", the structure is evaluated in Table 2E as if its Functional Class = 21.

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STRUCTURE INFORMATION AND PROCEDURE MANUAL

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Table 2C & 2D. Rating by Comparison of Number of Lanes - Item 28 and Bridge Roadway Width, Curb-to-Curb - Item 51

Deck Geometry Rating Code	TABLE 2C: Bridge Roadway Width 2 or More Lanes Each Direction				TABLE 2D: Bridge Roadway Width 1-Way Traffic	
	Interstate and Other Divided Freeways		Other Multilane Divided Facilities		Ramps Only	
	2 Lanes	3 or More Lanes	2 Lanes	3 or More Lanes	1 Lane	2 or More Lanes
9	> 42	> 12N+24	> 42	> 12N+18	> 26	> 12N+12
8	= 42	= 12N+24	= 42	= 12N+18	= 26	= 12N+12
7	≥ 40	≥ 12N+20	≥ 38	≥ 12N+15	≥ 24	≥ 12N+10
6	≥ 38	≥ 12N+16	≥ 36	≥ 12N+12	≥ 22	≥ 12N+8
5	≥ 36	≥ 12N+14	≥ 33	≥ 11N+10	≥ 20	≥ 12N+6
4	≥ 34 (29) *	≥ 11N+12 (11N+7) *	≥ 30	≥ 11N+6	≥ 18	≥ 12N+4
3	≥ 33 (28) *	≥ 11N+11 (11N+6) *	≥ 27	≥ 11N+5	≥ 16	≥ 12N+2
2	< 33 (28) *	< 11N+11 (11N+6) *	< 27	< 11N+5	< 16	< 12N+2
0	Bridge closed.					

* Use value in parentheses for bridges longer than 200 feet.
N = number of lanes of traffic

Notes:

1. Use the lower rating code for values between those listed in the table.
2. Dimensions are in feet.
3. Use Table 2C, "Other Multilane Divided Facilities", for 3 or more undivided lanes of 2-way traffic.