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**THE CITY OF BLUE ISLAND  
COOK COUNTY, ILLINOIS**

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**RESOLUTION  
NUMBER 2020-033**

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**A RESOLUTION APPROVING AND AUTHORIZING A  
CONTRACT WITH H.W. LOCHNER, INC. FOR INSPECTION OF  
THE CHATHAM STREET BRIDGE**

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**DOMINGO F. VARGAS, Mayor  
Randy Heuser, City Clerk**

**DEXTER JOHNSON  
FRED BILOTTO  
NANCY RITA  
TOM HAWLEY  
MICHAEL MECH  
CANDACE CARR  
JAMES KLINKER**

**ANNETTE ALEXANDER  
WILLIAM CAZARES  
KEVIN DONAHUE  
BILL FAHRENWALD  
JOHNNY RINGO HILL  
RAEANN CANTELO-ZYLMAN  
ALLAN STEVO**

**Aldermen**

**RESOLUTION NO. 2020-033**

**A RESOLUTION APPROVING AND AUTHORIZING A CONTRACT WITH  
H.W. LOCHNER, INC. FOR INSPECTION OF THE CHATHAM STREET BRIDGE**

WHEREAS, the City of Blue Island has the authority to contract and be contracted with pursuant to 65 ILCS 5/2-2-12;

WHEREAS, the City plans to enter into a contract with H.W. Lochner, Inc. for an inspection of the Chatham Street Bridge at a cost of \$17,500.00;

WHERE AS, the appropriate city officials have considered and reviewed the contract and scope of services attached as Exhibit A and find it to be in the best interests of the City;

NOW AND THEREFORE, BE IT RESOLVED by the City Council of the City of Blue Island, Cook County, Illinois, as follows:

**SECTION 1: AGREEMENT FORM AND TERMS AUTHORIZED**

The terms and conditions as shown in the Contract attached as Exhibit A to this Resolution are hereby approved.

**SECTION 2: AUTHORIZATION OF MAYOR & AGENT TO EXECUTE AND ACT IN  
ACCORDANCE WITH AGREEMENT**

The City Council approves a contract with H.W. Lochner, Inc. for inspection of the Chatham Street Bridge at a cost of \$17,500.00 and authorizes the Mayor or his designee to execute any and all documentation that may be necessary to carry out the intent of this Resolution. The officers, employees, and/or agents of the City shall take all action necessary or reasonably required by the City to carry out, give effect to, and consummate the intent of this Resolution.

### SECTION 3: EFFECTIVE DATE

This resolution shall be in full force and effect upon its passage, approval and publication as required by law.

*Intentionally left blank*

**ADOPTED** this 11th day of August, 2020, pursuant to roll call as follows:

|                         | YES | NO | ABSENT | PRESENT | ABSTAIN |
|-------------------------|-----|----|--------|---------|---------|
| Alderman JOHNSON        | X   |    |        |         |         |
| Alderman ALEXANDER      | X   |    |        |         |         |
| Alderman BILOTTO        | X   |    |        |         |         |
| Alderman CAZARES        | X   |    |        |         |         |
| Alderman RITA           | X   |    |        |         |         |
| Alderman DONAHUE        | X   |    |        |         |         |
| Alderman HAWLEY         | X   |    |        |         |         |
| Alderman FAHRENWALD     | X   |    |        |         |         |
| Alderman MECH           | X   |    |        |         |         |
| Alderman HILL           | X   |    |        |         |         |
| Alderman CANTELO-ZYLMAN | X   |    |        |         |         |
| Alderman CARR           | X   |    |        |         |         |
| Alderman STEVO          | X   |    |        |         |         |
| Alderman KLINKER        | X   |    |        |         |         |
| Mayor DOMINGO F. VARGAS |     |    |        |         |         |
|                         |     |    |        |         |         |
|                         | 14  |    |        |         |         |

**APPROVED:** this 11th day of August, 2020.

**MAYOR OF THE CITY OF BLUE ISLAND,  
COUNTY OF COOK AND STATE OF ILLINOIS**

**ATTESTED** and Filed in my office this  
11<sup>th</sup> day of August, 2020.

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**CITY CLERK**

**EXHIBIT A**

**CONTRACT WITH H.W. LOCHNER, INC. FOR  
INSPECTION OF THE CHATHAM STREET BRIDGE**

# LOCHNER

H.W. Lochner, Inc.  
225 West Washington Street  
12th Floor  
Chicago, IL 60606

June 20, 2020

T 312.372.3011  
F 312.372.5974

hwlochner.com

Mr. Erik Alvarez, PE  
Robinson Engineering  
17000 South Park Avenue  
South Holland, IL 60473

RE: Professional Inspection Services for Chatham Street over the Cal Sag Channel in Blue Island, Illinois

Dear Mr. Alvarez:

H.W. Lochner, Inc. is pleased to submit to the City of Blue Island our proposal for professional inspection services for the above referenced project. Please find the following items:

- Proposal for Scope of Services
- Manhour and Direct Cost Estimates

The proposed lump sum fee for the attached scope of services is \$17,500.00.

We hope the enclosed proposal meets with your approval. Should you have any questions regarding the contents of the proposal, please call me. If this proposal is found to be acceptable we will send the appropriate contract documents to you for execution.

Sincerely,  
**H.W. LOCHNER, INC.**



Brad L.J. Noack, SE, PE  
Project Manager

/lg  
Enclosure  
cc: Project File

**PROJECT DESCRIPTION  
SCOPE OF SERVICES**

**FOR  
CITY OF BLUE ISLAND  
CHATHAM STREET BRIDGE INSPECTION  
STRUCTURE NO.: 016-6620**

H.W. Lochner, Inc. (Lochner) will provide engineering inspection services to the City of Blue Island (Client) under this scope of work consisting of various field inspections for the structure carrying Chatham Street over the Cal Sag Channel, located in Blue Island, Illinois.

A detailed description of the scope of services for the proposed work is provided below:

**General Description**

The existing bridge is a four (4) span structure originally constructed in 1964. The main span over the channel consists of a camelback Warren through truss. Total length of the structure is approximately 385 ft. The overall width of the structure is approximately 15 ft following conversion to pedestrian use in 2016. The bridge carries two lanes of traffic north and south over the channel.

Because this structure is a pedestrian bridge and does not carry traffic, it is not strictly subject to the inspection requirements of the National Bridge Inspection Standards (NBIS). However, a routine inspection schedule adhering to standard practice (including NBIS and IDOT practices) is recommended by IDOT due to the inherent concerns with fracture critical truss bridge spans.

Scope of services for this project will include all field inspection work and report documentation to meet IDOT recommendations. Work items will include the following:

- Coordination
- Field Inspection
  - ✓ National Bridge Inspection Standards (NBIS) Routine Inspection
  - ✓ NBIS Fracture Critical Inspection
- Bridge Inspection Report
- Project Management, Administration and QC/QA

**Coordination**

Lochner will coordinate project requirements with the City of Blue Island and IDOT as required. The “hands-on” inspection access will be achieved by use of rigging meeting the requirements of Society of Professional Rope Access Technicians (SPRAT) Level 3 to support Lochner’s SPRAT Level 1 certified inspector. The rope access inspection beneath the bridge will be coordinated as required with the U.S. Coast Guard.

**Routine NBIS Safety Inspection**

Field Inspection work will include a visual inspection of all bridge elements as required to verify and update condition ratings. Additionally, a hands-on close-up inspection will be performed for all primary structural members. Any potential critical findings will be immediately reported to the City of Blue Island. Other non-critical findings regarding repair and/or maintenance needs will be documented and included in the report.

The following documentation will be provided as a means to report the findings:

- Bridge Inspection Report (IDOT Form BBS-BIR)
- Inventory Turnaround Report (IDOT Form S105)
- Inspector's Inventory Report (IDOT Form S114)

**Fracture Critical Member (FCM) Inspection**

A Fracture Critical Member (FCM) Inspection will be performed on all non-redundant steel tension members and tension components of members identified as fracture critical members. The inspections will consist of close-up visual investigations of all fracture critical members. A hands-on inspection will be performed for all FCM welds and connections. If visual inspection indicates the existence or possibility of a crack or significant section loss, Non-Destructive Testing (NDT) will be utilized as required. The NDT methods may include one or more of the following methods:

- Dye Penetrant Testing (PT)
- Magnetic Particle Testing (MT)
- Ultrasonic Testing (UT)

The following documentation will be provided for the Fracture Critical Inspection Report:

- Bridge Inspection Report – Fracture Critical Inspection (IDOT Form BBS BIR-FC1)

**Inspection Procedures and Equipment**

All inspection work will be performed in accordance with NBIS requirements and IDOT criteria. Topside and underside inspections will be performed on foot and by rope access. This access method is not expected to require closure of the bridge to pedestrians.

The following equipment will be utilized for inspection work on this project:

- SPRAT Level 3 rigging support and Level 1 inspection
- Ultrasonic Testing Equipment – Ashtead Technology Inc.
- Dye Penetrate Testing Kit
- Magnetic Particle Testing Equipment
- Miscellaneous Bridge Inspection Equipment

All inspection equipment required for this project will be coordinated by H.W. Lochner, Inc.

**Project Management, Administration and QC/QA**

Project management, administration, and QC/QA will be performed for the field inspection, preparation of the inspection reports and load rating analysis.

**Deliverables**

Lochner will deliver the following items to the City of Blue Island in accordance with the Scope and Schedule described herein:

- Recommended IDOT NBIS Forms
- Final Bridge Inspection Report

**Project Staffing**

Lochner will utilize the services of the following key personnel in the assignments listed for the services to be provided to the City of Blue Island:

|                             |   |
|-----------------------------|---|
| Richard Cholewa, P.E., S.E. | Principal-in-Charge/Structural QC/QA Manager    |
| Brad Noack, P.E., S.E.      | Inspection Team Leader                          |
| Michael Martin, P.E.        | Inspection Team Member/SPRAT Level 1 Technician |

The following pages list the anticipated work items, estimated hours and direct costs included in the Scope of Services for completion of the bridge inspection and report documentation required for this project.

Scope of Services  
(Structures)

Chatham Street Bridge Inspection  
 Cal-Sag Trail  
 Blue Island, Cook County  
 Structure No. 016-6620  
 Description: Chatham St. over Calumet Sag Channel

| Item   | Estimated Man-Hours |
|--|---------------------|
| <b>Field Inspection</b>                                  |                     |
| 1 Inspection Coordination                                | 6                   |
| 2 Deck Inspection  | 2                   |
| 3 Superstructure   | 38                  |
| 4 Substructure   | 2                   |
| 5 General Items  | 2                   |
| <b>Sub-total</b>   | <b>50</b>           |
| <b>Bridge Inspection Reporting</b>                       |                     |
| 1 IDOT Forms   | 6                   |
| 2 Bridge Inspection Report                               | 6                   |
| 3 Structure Photos                                       | 2                   |
| <b>Sub-total</b>   | <b>14</b>           |
| <b>Management, Administration and QC/QA</b>              |                     |
| 1 Project Management and Administration (4% of 64 hours) | 3                   |
| 2 Project QC/QA Reviews (4% of 64 hours)                 | 3                   |
| <b>Sub-total</b>   | <b>6</b>            |
| <b>Total</b>   | <b>70</b>           |

Chatham Street Bridge  
Structure No. 016-6620  
Bridge Inspection

Estimate of Direct Costs

**FIELD INSPECTION**

**Equipment Rental**

SPRAT Level 3 Rigging

\$ 6,660.00

**Inspection Vehicles**

1 car x \$80/day x 4 days

\$ 320.00

**Inspection Equipment Rental - UT Thickness Gauge**

Rental: \$400/week x 1 week

\$ 400.00

**Total FIELD INSPECTION**

\$ 7,380.00

**TOTAL ESTIMATED DIRECT COSTS**

\$ 7,380.00



