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

**RESOLUTION
NUMBER 2020-034**

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

**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. 2020-034

**A RESOLUTION APPROVING AND AUTHORIZING A CONTRACT WITH
H.W. LOCHNER, INC. FOR INSPECTION OF THE DIVISION 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 Division Street Bridge at a cost of \$27,500.00;

WHEREAS, 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 Division Street Bridge at a cost of \$27,500.00 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

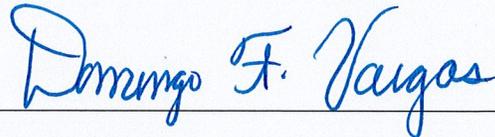
This resolution shall be in full force and effect upon its passage, approval and publication as required by law.

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
11th day of August, 2020.

CITY CLERK

EXHIBIT A

**CONTRACT WITH H.W. LOCHNER, INC. FOR
INSPECTION OF THE DIVISION 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 Division 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 \$26,500.00.

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

Deputy Director of Community Development

☎ (708) 396-7146

☎ (708) 397-1221

www.biueisland.org

**PROJECT DESCRIPTION
SCOPE OF SERVICES**

**FOR
CITY OF BLUE ISLAND
DIVISION STREET BRIDGE INSPECTION
STRUCTURE NO.: 016-5005**

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 Division 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 372 ft. The overall width of the structure is approximately 48 ft. The bridge carries two lanes of traffic north and south over the channel.

Scope of services for this project will include all field inspection work and report documentation to meet NBIS and IDOT requirements. 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 required “hands-on” inspection access will be achieved by use of an underbridge inspection truck (UBIT or “Snooper”) provided by Equipment Rental Company in Duluth, MN and aerial lift equipment (manlift) provided by Illini Hi-Reach in Lemont, IL. Traffic control (provided by Barricade Lites in Addison, IL) will be required to close Division Street in both directions during the two day inspection. Use of the UBIT 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 inaccuracies in inventory data noted during the inspection will also be documented. Any potential critical findings will be immediately reported to the City of Blue Island and to IDOT following IDOT Structural Services Manual guidelines. Other non-critical findings regarding repair and/or maintenance needs will be documented.

The following documentation will be provided for submittal of IDOT NBIS forms:

- 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 inspections will be performed on foot and with a manlift. Underside inspections will be performed utilizing a UBIT. Use of this equipment requires temporary closure of both traffic lanes. The current closure status of the bridge allows for the inspection work to take place without additional traffic control. At this time, the assumed hours for inspection are 7:00 am to 5:00 pm. Final inspection times will be coordinated through the City of Blue Island.

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

- Underbridge Inspection Truck (Reach-All UB40) – Equipment Rental Company
- Manlift (60') – Illini Hi-Reach

- 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 and IDOT in accordance with the Scope and Schedule described herein:

- Required 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

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

Division Street Bridge Inspection
 Municipal Street 1090
 Blue Island, Cook County
 Structure No. 016-5005
 Description: Division St. over Cal Sag Channel

Item	Estimated Man-Hours
Field Inspection	
1 Inspection Coordination	16
2 Deck	2
3 Superstructure	72
4 Substructure	4
5 General Items	4
Sub-total	98
Bridge Inspection Report	
1 IDOT Forms (BBS-BIR, BBS-FC1, S105, S114)	12
2 Inspection Photos	4
3 Repair/Maintenance Recommendations	2
Sub-total	18
Management, Administration and QC/QA	
1 Project Management and Administration (4% of 116 hours)	5
2 Project QC/QA Reviews (4% of 116 hours)	5
Sub-total	10
Total	126

**Division Street Bridge
Structure No. 016-5005
Bridge Inspection**

Estimate of Direct Costs

FIELD INSPECTION

Equipment Rental

Manlift: \$450/day x 2 days + \$300 pick-up/drop-off + \$100 gas \$ 1,300.00

Underbridge Inspection Truck (UBIT, Snooper) \$ 6,000.00

Inspection Vehicles

1 car x \$80/day x 2 days \$ 160.00

Inspection Equipment Rental - UT Thickness Gauge

Rental: \$400/week x 1 week \$ 400.00

Traffic Control

Bridge Lane Closure: \$1,000/day x 2 days \$ 2,000.00

Total FIELD INSPECTION \$ 9,860.00

TOTAL ESTIMATED DIRECT COSTS

\$ 9,860.00

Subject: RE: Blue Island bridge maintenance
Date: 10/13/2016 5:32 PM
From: "Noack, Brad" <bnoack@hwlochner.com>
To: "Jason Berry" <jberry@cityofblueisland.org>

Jason,

A few planned costs to consider:

Routine/Fracture Critical Bridge Inspection – Division Street requires hand-on fracture critical bridge inspection, mandated by federal law every two years. This work requires significant field time as well as heavy duty access equipment rental and traffic control for lane closures. **\$25,000 every two years** should be budgeted for this inspection and the required reporting to IDOT. The first inspection of Division Street Bridge is due by 9/2/2017.

Chatham Street has no federal requirement for inspection since it is not a highway bridge. However, IDOT recommends inspecting since it is a fracture critical bridge. I would recommend inspecting **at least every four years at a cost of \$18,000**, which would be done concurrent with Division every other cycle.

Routine local maintenance – I'd recommend using a power washer to clean out the rubber seals in the 4 bridge deck joints (across the roadway/trail) and the deck drains twice a year. Best to do this once in the spring and once in the fall. This little effort will go a long way to help defer bigger maintenance costs that are typically due to joint/drain clogging/debris.

Longer term repairs - I estimate needing to engage outside labor forces to do repairs on these bridges approximately every 15 years. Cost for Division repairs = **\$70,000 every 15 years**. Cost for Chatham repairs = **\$55,000 every 15 years**. This is estimated to cover joint repairs, minor concrete patching and spot painting.

Caveat is that the above is a gross estimate, since bridge maintenance is not an exact science, but my best guess for now. I would continue to inform on costs of suggested repairs in future inspection years.

Hope this helps – please let me know if you have any questions.

Brad

From: Jason Berry [mailto:jberry@cityofblueisland.org]
Sent: Thursday, October 13, 2016 12:19 PM
To: Noack, Brad
Subject: Blue Island bridge maintenance

Brad,

I know we talked before about it, but help me out again:

How long are our new bridges "maintenance free"? How often should we be planning for maintenance and what do you recommend we budget?

Jason Berry, AICP