

County of Elgin Rehabilitation of King George VI Lift Bridge

Public Information Centre
Wednesday, November 20, 2019

Port Stanley Arena & Community Centre, 332 Carlow Road, Port Stanley
6:00 pm – 8:00 pm

Welcome!

Please sign in and take a comment sheet.

Meeting is a “drop-in” format with display materials.

Take an information bulletin and review the display materials.

Members of the project team are available to answer questions.

We welcome your feedback as your opinion will influence this project.

Please place comment sheets in the box provided.

Topics

Background Information & History

Existing Conditions

Recommended Rehabilitation Scope

Estimated Project Schedule

Estimated Construction Costs

Traffic Impact and Detour



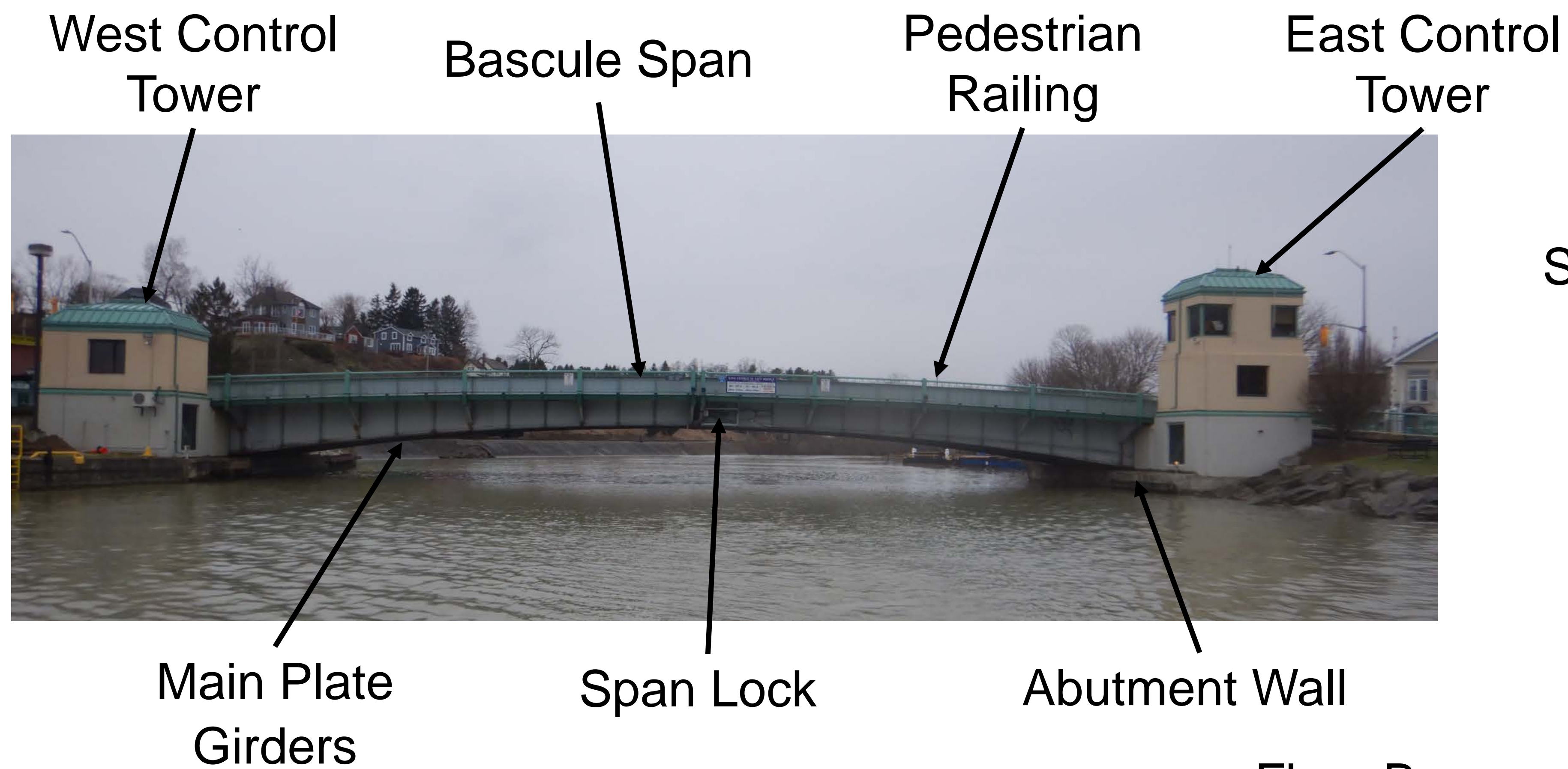
Background Information & History

- ❖ Single-span double leaf bascule bridge was constructed in 1938
- ❖ East-west orientation spanning Kettle Creek
- ❖ Span of 42.7m and an overall deck length of 68.3m
- ❖ Known mechanical and electrical upgrades completed in the 1970's, early 2000's and miscellaneous inspections and repairs in recent years

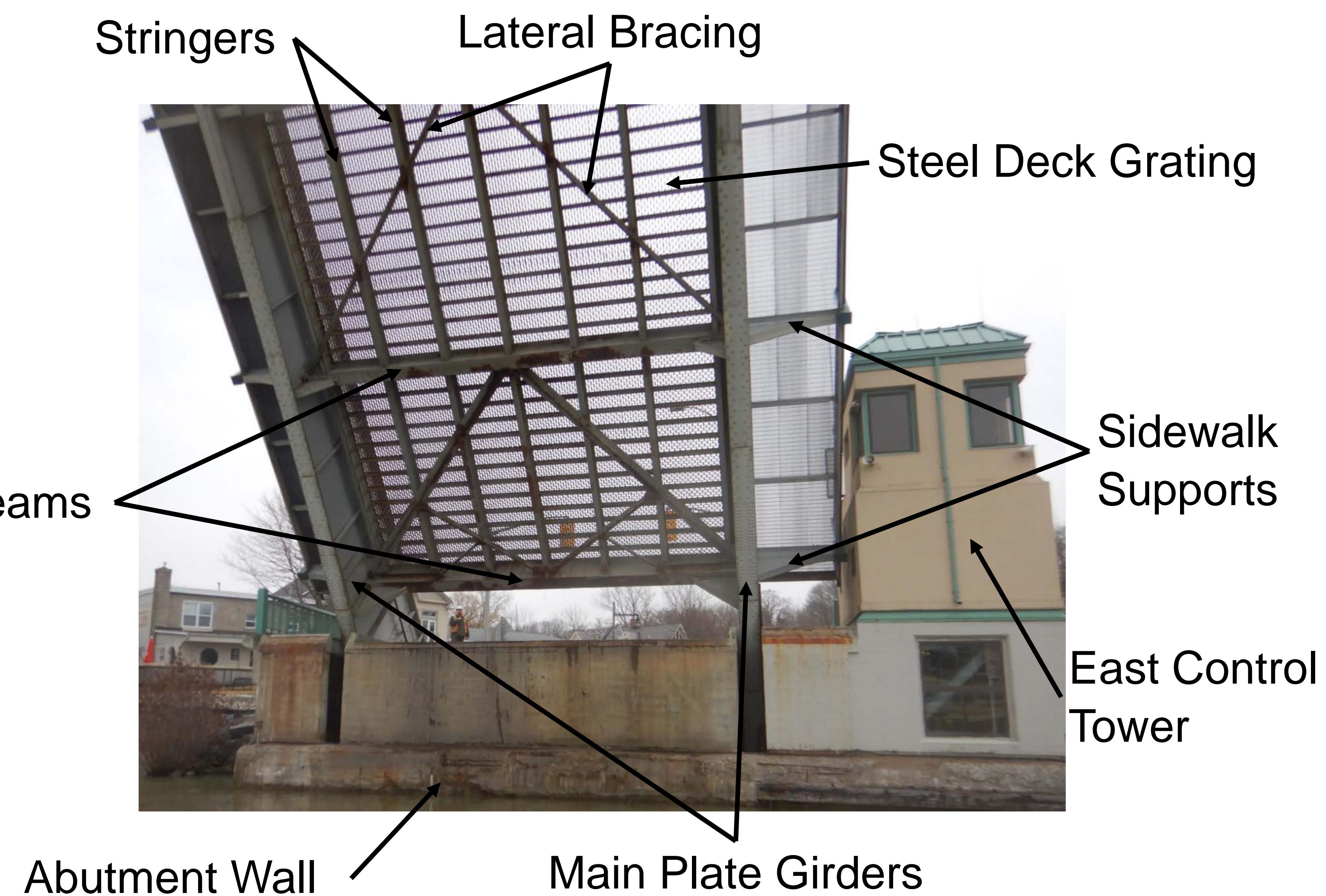


Existing Conditions

Bridge Element Identification



Bascule Span



Existing Conditions

Inspection Results

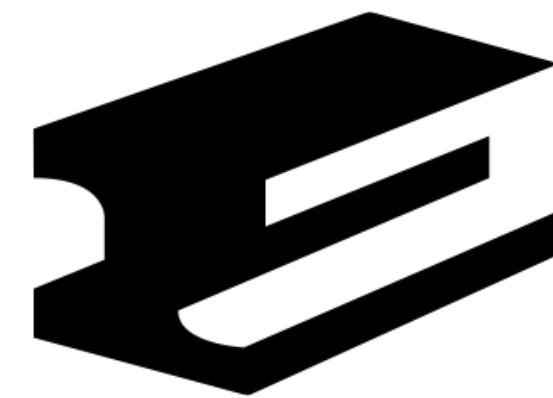
- ❖ Poor condition coatings and steel corrosion
- ❖ Concrete elements requiring repair
- ❖ Bridge requires re-balancing
- ❖ Span drive machinery is aged and in poor condition
- ❖ Electrical equipment including motor control centre (MCC) and system controls are antiquated with replacement parts mostly unavailable
- ❖ Recommend the bridge be posted with a 10-14-18 triple load posting



Recommended Rehabilitation Scope

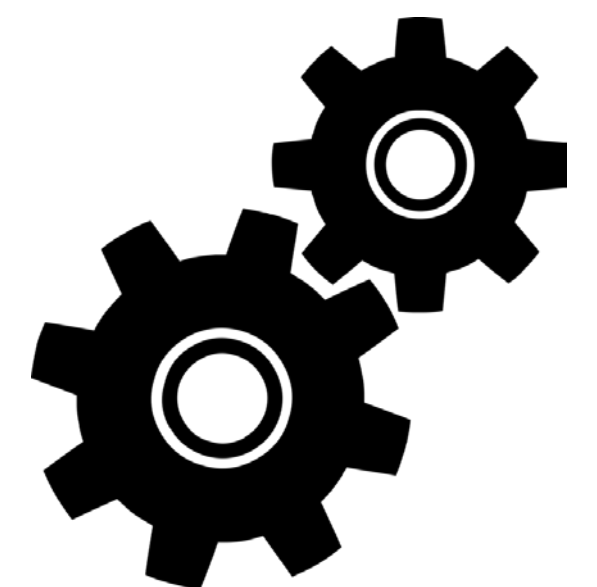
Structural

- ❖ Structural reinforcing on the end beams, main girders and end-bay bracing
- ❖ Partial depth concrete repairs to abutments and wingwalls
- ❖ Replacement of tower windows
- ❖ Surface treatment to sidewalks



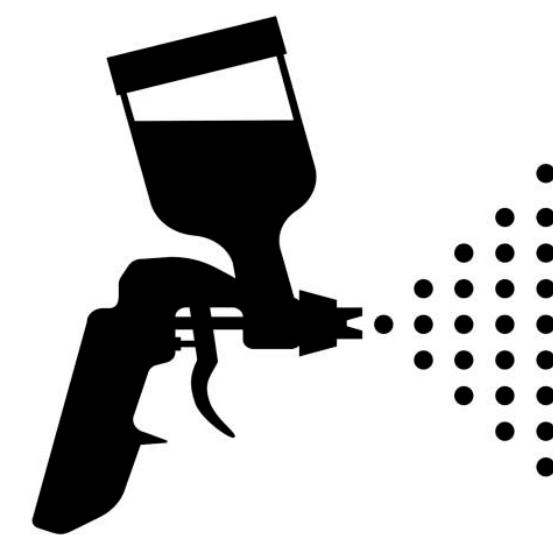
Mechanical

- ❖ Replacement of span drive machinery (match existing size)
- ❖ New span lock actuators
- ❖ Bridge balancing



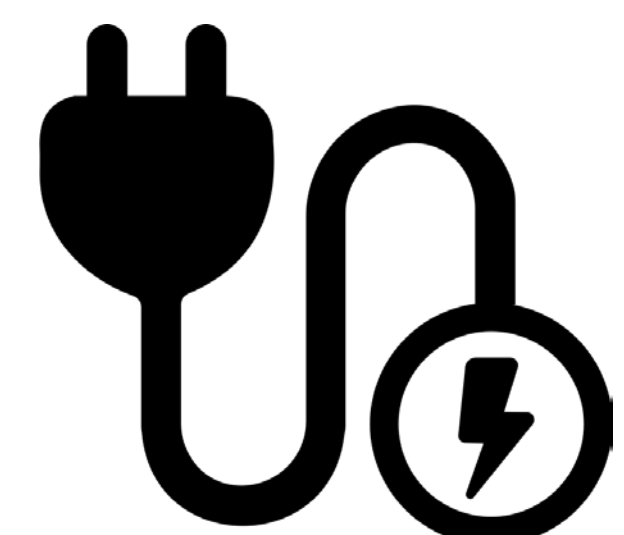
Coatings

- ❖ Abrasive blast clean and remove existing coating system on all exposed structural steel
- ❖ Coat structural steel with a three-part coating – an inorganic primer, an epoxy mid-coat and a urethane top coat
- ❖ Partial clean and paint exposed steel in the trunnion pits
- ❖ Clean and paint interior tower walls

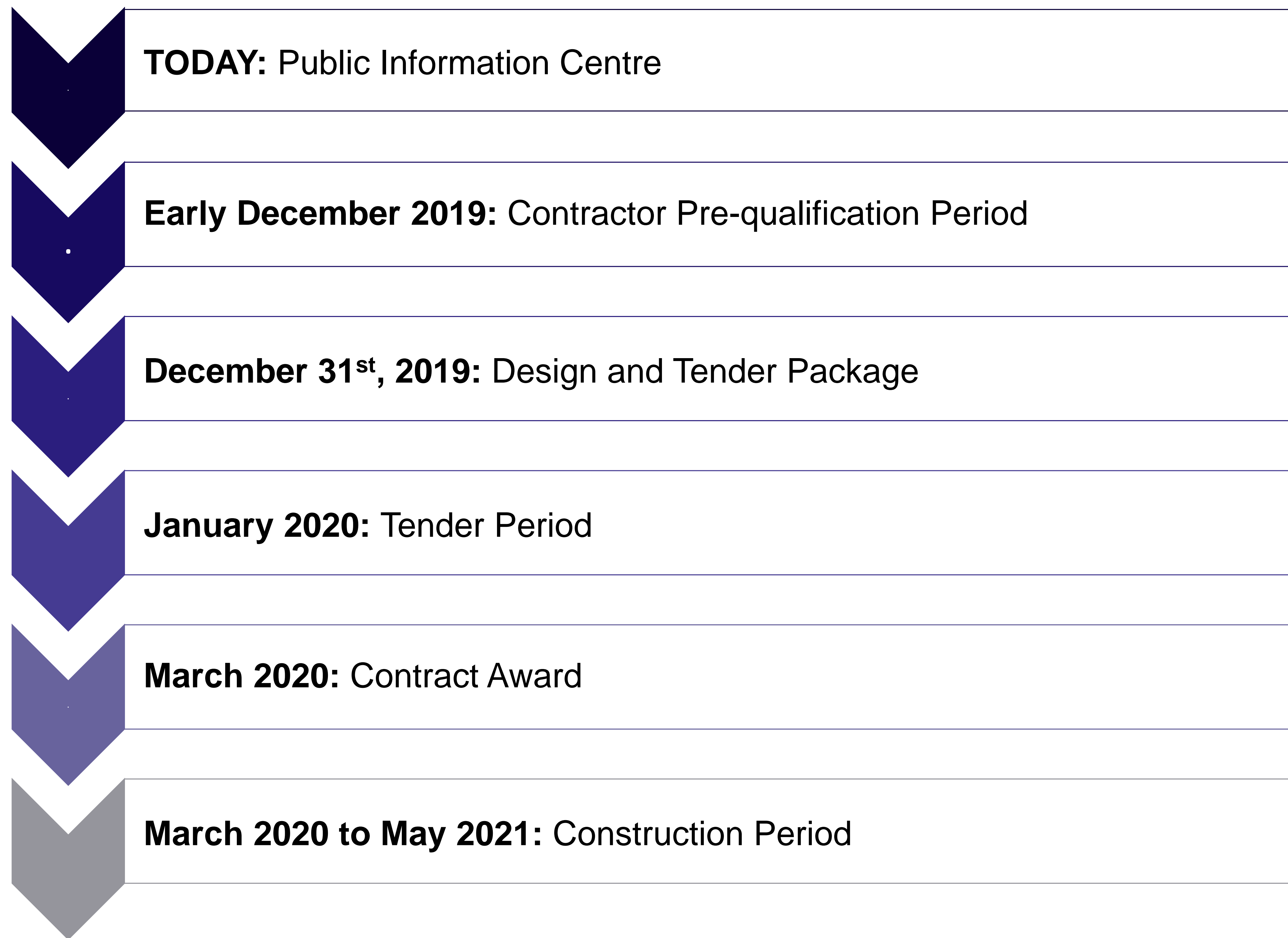


Electrical

- ❖ Replace the motor control centre (MCC) and system controls
- ❖ Install back-up power generators
- ❖ Add redundant span drive motors
- ❖ Replace traffic gates
- ❖ Upgrade facility and bridge lighting



Estimated Project Schedule



Estimated Construction Costs

Rehabilitation Category	Estimated Construction Cost
A – Compulsory Items	\$780,000.00
B – Structural Rehabilitation Scope	\$490,000.00
C – Coating Rehabilitation	\$750,000.00
D – Mechanical Rehabilitation	\$690,000.00
E – Electrical Rehabilitation	\$1,670,000.00
Contingency (20%)	\$870,000.00
REHABILITATION SUB-TOTAL	\$5,250,000.00

Next Steps

Following this PIC, the project team will:

- ❖ Review and consider your input received during the PIC and comment sheets
- ❖ Complete the Design and Tender Package
- ❖ Continue to work with review agencies and stakeholders
- ❖ Tender and award the construction contract
- ❖ Work with the retained contractor to develop a construction plan to minimize impact. (Including but not limited to: Traffic Management Plan, Noise and Dust Control Strategy)
- ❖ County Staff will continue to work with a communication/marketing firm to establish a comprehensive communication strategy in consultation with various community stakeholders

Visit our Website


<https://www.elgincounty.ca/kinggeorge/>

How to Get Involved

Please ...

Fill out the comment sheet provided

Contact the project team with your input



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