

# Public Works Government Services Canada

Architectural and Engineering Services

Ontario Region

# 146 ROSE POINT ROAD, SEGUIN, ON. WASAUKSING SWING BRIDGE HISTORIC SITE OF CANADA



# PIER AND FENDER REHABILITATION WASAUKSING SWING BRIDGE PWGSC Proj. No.: R.089868.004 Canadä

GSC-A1

# Travaux publics Services gouvernementaux Canada

Services d'architecture et de génie

Région de l'Ontario

SITE PLAN

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- B-01 GENERAL ARRANGEMENT
- B-02 SITE PLAN
- B-03 FENDER PIER RECONSTRUCTION DETAILS SHEET 1
- B-04 FENDER PIER RECONSTRUCTION DETAILS SHEET 2
- B-05 EAST TRESTLE TIMBER CRIBBING REPAIRS
- B-06 EAST AND WEST REST PIER TIMBER CRIBBING REPAIRS
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ELECTRICAL

- E-01 FENDER LIGHT SITE PLAN
- E-02 FENDER LIGHT DETAILS



**ISSUED FOR** 

**TENDER** 





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- 3. DESIGN
- 4. DESIGNED TO CSA S6-19 CANAD
  - (CHBDC). 5. THE WASAUKSING SWING BRID

#### TIMBER

- ALL TIMBER USED FOR FENDER TRESTLE TO BE SPF SS. ALL TIM
- 2. ALL WOOD TO BE PRESSURE-TH ACCORDANCE WITH THE REQUI SERIES-15 INCLUDING CUT END

#### STEEL

- STEEL TO BE CAN/CSA G40.20/G 1. 2. STEEL FOR DRIFT PINS TO HAVE ACCORDANCE WITH CAN/CSA G
- 3. DRIFT PIN CONNECTING MEMBE mm INTO THE LOWER MEMBER.
- 4. HOLES FOR DRIFT PINS TO BE P
- MORE THAN 1.0 mm SMALLER TH

#### CONCRETE

- 1. CONCRETE MATERIALS AND ME AND METHODS OF TEST FOR CO 2. SHRINKAGE REDUCING ADMIXT
- CONCRETE IN COMPLIANCE WIT 3. CONCRETE SURFACES TO RECE **ROUGHENED TO A MINIMUM 5 m**

#### CLEAR COVER TO REINFORCI 70±20 UNLESS OTHE

#### **REINFORCING STEEL**

- 1. REINFORCING STEEL SHALL BE
- 2. UNLESS SHOWN OTHERWISE, T
- STEEL BARS SHALL BE CLASS 'E 3. BAR MARKS WITH PREFIX 'G' DE
- BARS BEFORE GALVANIZING. 4. BAR HOOKS SHALL HAVE STAND BEND DIAMETERS, WHILE STIRF
- DIMENSIONS. ALL HOOKS SHAL STRUCTURAL STANDARD SS12-DOWELS SHALL BE GROUTED W IN ACCORDANCE WITH MANUFA APPROVED EPOXY BASED ALTE

#### EMBEDMENT AS FOLLOWS UNLE BAR MIN. EMBEDM

## 15M / G15M 300

WORK DESCRIPTION THE FOLLOWING SCOPE OF WORK LIST OF ALL ITEMS REQUIRED TO CO IS IT INTENDED TO BE A SEQUENCE

- (1) INSTALL TEMPORARY BUOYS FO NAVIGATION CHANNEL
- (2) REMOVE AND SALVAGE ROCK B
- (3) REMOVE EXISTING FENDER SYS FENDER SYSTEM
- (4) PLACE SALVAGED AND NEW RO FENDER SYSTEM
- (5) PERFORM STEEL REPAIRS IN TH (6.) PERFORM CONCRETE REPAIRS
- REPLACING JOINT ARMOURING.
- (7.) INSTALLATION OF TURBIDITY CL JACKETS AND PIERS.
- (8.) INSTALLATION OF PILE JACKETS AND EAST TRESTLE.
- (9.) REPAIR TIMBER TRESTLES INCL BRACES AND REPLACING TIMBE
- (10) INSTALLATION OF HAUL BLOCK
- (11) REPAIR TIMBER CRIBBING BENE (12) REPLACE BENT 12 ON THE EAST
- (13) INSTALLATION OF ADDITIONAL
- EAST TRESTLE. (14) REPLACE LADDER ON TRUSS.
- (15) PERFORM REPAIRS TO TIMBER

ENERAL NOTES DIMENSIONS SHOWN ARE IN MILLIMET UNLESS OTHERWISE NOTED. ALL DIMENSIONS OF EXISTING ELEMEN APPROXIMATE.	RES AND ELE	EVATIONS IN METRES SHALL BE CONSIDERED	•	Public Works and Government Services Travaux publics et Services gouvernemer	Canada Itaux Canada
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<u>MBER</u> ALL TIMBER USED FOR FENDERS SYST TRESTLE TO BE SPF SS. ALL TIMBER SI ALL WOOD TO BE PRESSURE-TREATED ACCORDANCE WITH THE REQUIREMEN SERIES-15 INCLUDING CUT ENDS OF TI	TEM, TIMBER IZES SHOWN O WITH PRES ITS OF THE ( MBER.	CRIBBING AND TIMBER I ARE NOMINAL. SERVATIVE IN CSA STANDARD 080	ENGE	PARSO	SSION AT ST
EEL STEEL TO BE CAN/CSA G40.20/G40.21 3 STEEL FOR DRIFT PINS TO HAVE A YIEL ACCORDANCE WITH CAN/CSA G40.21. DRIFT PIN CONNECTING MEMBERS TO mm INTO THE LOWER MEMBER. HOLES FOR DRIFT PINS TO BE PRE-BOI MORE THAN 1.0 mm SMALLER THAN TH	00W. LD STRENGT HAVE A MINI RED NOT LES IE DRIFT PIN	TH OF 280 MPa IN MUM EMBEDMENT OF 150 SS THAN 0.8 mm NOR DIAMETER.		November 23, 2020 November 23, 2020 November 23, 2020 November 23, 2020	0F 0NTR
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BAR MIN. EMBEDMENT LE 15M / G15M 300	ENGTH (mm)				
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## 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres

## NOTES:

- REPRESENTATIVE.
- SHIFTED ACCORDINGLY.
- BETTER CONDITION.
- REPRESENTATIVE.
- NEW FENDER LIGHTS.

NTS

1. NO WORK ON THE DECONSTRUCTION OF THE FENDER SYSTEM SHALL COMMENCE UNTIL THE WARNING SIGNS HAVE BEEN ERECTED AND THE BUOYS HAVE BEEN INSTALLED TO THE SATISFACTION OF THE DEPARTMENTAL

2. THE ALTERNATE CHANNEL THAN SHOWN CAN BE CLOSED. WARNING SIGNS AND CAUTIONARY BUOYS WILL BE

3. THE LOCATIONS OF CONSTRUCTION STAGING AND STORAGE AREAS ARE SUBJECT TO PUBLIC SERVICES AND PROCUREMENT CANADA (PSPC) AND WASAUKSING FIRST NATIONS (WFN) APPROVAL. AREAS USED FOR STAGING AND STORAGE SHALL BE MINIMIZED.

4. ALL LANDS USED SHALL BE REINSTATED TO ORIGINAL OR

5. ACCESS TO OPERATOR'S HOUSE MUST BE MAINTAINED AT

6. THE EXACT LOCATION OF TURBIDITY CURTIAN AND HEAVY DUTY SILT BARRIER FENCE TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE DEPARTMENTAL

7. REINSTATE EXISTING SIGNS AT THE ENDS OF THE FENDER PIER. SEE DRAWINGS E-01 AND E-02 FOR INSTALLATION OF









### NOTES

- 1. CONTRACTOR TO ENSURE STABIL
- REPAIRS TO THE TIMBER CRIBBIN 2. CONTRACTOR TO TEMPORARILY REMOVE AND REPLACE BALLAST AS
- ACCORDANCE WITH CAN.CSA G40.20.
- 4. HOLES FOR ALL FASTENERS SHALL BE PRE-BORED. HOLES SHALL BE PROPERLY ALIGNED.
- MAKE CONNECTION.
- DIAMETER.
- LOWER MEMBER IN THE CONNECTION.
- ORDERING THE MATERIAL.
- ENTIRE CRIBBING.



REHABILITATION

SOUTH ELEVATION - CRIBBING SOUTH THRESTLE

SCALE: 1:50 0m 1m 2m 3m



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REQUIRED TO COMPLETE THE REPLACEMENT OF THE TOP TIMBERS. 3. THE STEEL FOR DRIFT PINS SHALL HAVE A YIELD STRENGTH OF 280MPA IN

5. DRIFT PINS SHALL BE DRIVEN BY A HAMMER NOT LARGER THAN 0.5KG TO

6. HOLES FOR DRIFT PINS SHALL BE 1.5 mm SMALLER THAN THE PIN

7. ALL DRIFT PINS SHALL HAVE A MINIMUM EMBEDMENT OF 150 mm INTO THE 8. CONTRACTOR TO CONFIRM ALL TIMBER LENGTHS AND SIZES PRIOR TO

9. REPLACE MISSING FILL TO BASED OF SILL BEAM BLOCKING THROUGHOUT

10. ESTIMATED AMOUNT OF ADDITIONAL ROCK BALLAST IS 29 TONNES.

	Public Works and Government Servic Travaux publics e Services gouverne	ces Canada t mentaux Canada
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> project manage administrateur de projets

MEHDI SHABESTARY

2020/11/23

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SHALL BE READ IN CONJUNCTION WITH CTURE DETAILS, ELEVATIONS AND IOWN ARE APPROXIMATE ONLY AND BASED BLE REFERENCE DRAWINGS, AND MUST BE BY THE CONTRACTOR PRIOR TO ANY IOVAL. TAL DEPTH REMOVALS SHOWN ON THE PIER ATE ONLY. LOCATION AND EXTENT OF CRETE REQUIRING REMOVAL SHALL BE THE FIELD BY THE DEPARTMENTAL VE. THE CONTRACTOR SHALL ALLOW E FOR THIS OPERATION IN THEIR WORK CONTRACTOR SHALL PROVIDE ALL FE ACCESS MEASURES IN A TIMELY MANNER THE INSPECTION AND TO COMPLETE THE EMOVALS SHALL BE SAWCUT AT LEAST 25MM E FIRST LAYER OF REINFORCING STEEL, LESS. F PARTIAL DEPTH REMOVALS OF UNSOUND DRAWING B-15. TEEL CHANNELS TO BE COATED WITH ZINC CONCRETE BALLAST WALL AND STEEL BE GOVERNED BY GAP FROM EDGE OF ING OF SWING SPAN PER DETAIL. SEE DWG. ETE BALLAST WALL ELEVATION TO MATCH ARMOURING ON SWING SPAN. VE SHALL BE APPLIED IN ACCORDANCE WITH R'S WRITTEN INSTRUCTIONS. DOWEL IALL BE AS SPECIFIED. HOLES FOR DOWELS	Public Works and Government Services Canada Architectural and Engineering Services Ontario Region         Travaux publics et Services gouvernementaux Canada Services d'architecture et de génie Région de l'Ontario         BARSSONS         OFESSION C.C. WADDELL 100202910 Wormber 23, 2020 De ontribution         Wormber 23, 2020 De ontribution	da
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NOTES:

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![](_page_10_Figure_0.jpeg)

![](_page_11_Figure_0.jpeg)

#### CONSTRUCTION NOTES

- 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS B-10 & B-12.
- 2. LENGTH AND DEPTH OF AFFECTED AREA SHALL BE VERIFIED BY THE
- CONTRACTOR ON SITE PRIOR TO PROCUREMENT OF MATERIAL. 3. REMOVE LOOSE AND DETERIORATED WOOD FIBER FROM PILE EXTERIOR PRIOR TO INSTALLATION OF JACKET AS APPROVED BY THE
- DEPARTMENTAL REPRESENTATIVE. 4. SUPPORT JACKET DURING POURING BY RATCHET STRAPS OR BY OTHER MEANS AS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- 5. TIMBER FOR BRACING SHALL BE EQUIVALENT TO EXISTING. CONTRACTOR TO CONFIRM ALL LENGTHS AND SIZES PRIOR TO ORDERING THE MATERIAL.
- 6. THREADED ROD TO CONFORM TO ASTM A307.
- 7. THREADED ROD HOLES IN WOOD TO BE DRILLED NOT LESS THAN 1.0 mm NOR MORE THAN 2.0 mm LARGER THAN THE THREADED ROD DIAMETER.
- 8. ALL HARDWARE, FASTENERS AND PLATES TO BE HOT -DIP GALVANIZED IN ACCORDANCE WITH CSA G164.

![](_page_11_Figure_12.jpeg)

### LOCATION OF TIMBER BRACING

WEST APPROACH SPAN BENT 15E - LOWER CROSS-BRACING BENT 16E - TRANSVERSE HORIZONTAI BENT 16E - LOWER CROSS-BRACING SPAN 4W - NORTH SIDE LONGITUDINA

### LOCATION OF TIMBER BRACING

EAST APPROACH SPAN BENT 8E - TRANSVERSE CROSS-BRAC WEST APPROACH SPAN BENT 4 - UPPER CROSS - BRACING BENT 6 - UPPER CROSS - BRACING **BENT 8E - TRANSVERSE HORIZONTAL** 

#### PILES THAT REQUIRE SHIMMING

WEST APPROACH SPAN BENT 1E - PILES C, D & F BENT 2E - PILES A & F BENT 3E - PILES B BENT 4 - PILE C BENT 8E - PILES A

BENT 9E - PILES A & B

#### STRINGERS THAT REQUIRE SH

EAST TRESTLE SPAN BENT 3E - ALL STRINGERS BENT 6E - STRINGER B

WEST TRESTLE SPAN BENT 1E - STRINGERS D & G SPAN 6W - STRINGER C SPAN 7W - STRINGER D SPAN 9W - STRINGERS E & G

#### PILES THAT REQUIRE JACKETS

EAST TRESTLE SPAN BENT 9 - PILE D (375), PILE E (350) - WA WEST TRESTLE SPAN BENT 1 - PILE B - LAND BENT 2 - PILE B - LAND BENT 3 - PILE C - LAND BENT 7E - PILE D (270) - WATER BENT 10E - PILE A (370) - WATER BENT 11E - PILE A (270), PILE B (340), I BENT 12E - PILE B (290), PILE C (250) -BENT 14E - PILE D (230) - WATER BENT 15E - PILE B (280) - WATER BENT 16E - PILE E (280) - WATER BENT 17W - PILE C (250) - WATER

![](_page_11_Figure_24.jpeg)

REPLACEMENT	Public Works and Government Services ( Travaux publics et	Canada
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IM SIMILAR)		
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	designed by	
	conc par CARA WADDELL	
/ITH GALVANIZED NUTS /ASHERS, LENGTH VARIES.	approved by approuve par MICHAEL HOFTYZER	
	bid offre MEHDI SHABESTARY	project manager administrateur de projets
	project date <sup>date du projet</sup> 2020/11/23	
STING POST/PILE R CAP BEAM)	project no. no. du projet	
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) 700 800 9001000mm	dessine no. B-11	

![](_page_12_Figure_0.jpeg)

CONJUNCTION WITH DRAWINGS B-10 &	Public Works and Government Services Co Travaux publics et	anada
E TIMBER TIES CAN BE REMOVED TO THE STRINGER WITH DEPARTMENTAL	Services gouvernemento	lux Canada
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![](_page_13_Figure_0.jpeg)

![](_page_14_Picture_0.jpeg)

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![](_page_14_Figure_5.jpeg)

 ALL COMPONENTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH CSA G164-18. ANY WELDING AFTER GALVANIZING SHALL BE COATED WITH 2 COATS OF ZINC RICH PAINT FOLLOWING CLEANING OF THE WELD AND HEAT AFFECTED AREA AS PER ASTM A790-20.
 ALL STRUCTURAL STEEL SHALL BE CSA G40.21 GRADE

 ALL BOLTS SHALL BE A325 GALVANIZED HIGH STRENGTH BOLTS OF THE SIZE INDICATED ON THE DRAWINGS.
 ALL WELDS SHALL BE SEAL WELDS (WELDS ALL AROUND) TO FACILITATE GOOD GALVANZING PRACTICES.
 FIELD WELDING IS NOT PERMITTED WITHOUT THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

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![](_page_15_Figure_4.jpeg)

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2. WHENEVER TEMPORARY STEEL ROAD PLATES AND RAMPS ARE IN PLACE THE CONTRACTOR SHALL BE RESPONSIBLE FOR SNOW REMOVAL ALONG THE ENTIRE

3. RAMP TO REMAIN IN PLACE UNTIL CONCRETE REACHES A MINIMUM COMPRESSIVE STRENGTH OF 25MPa.

4. REFER TO CONTRACT SPECIFICATIONS FOR ALLOWABLE ROAD CLOSURES AND OPERATIONAL RESTRAINTS ASSOCIATED WITH CONTRACTOR'S REQUIREMENTS TO AVOID CONFLICTS WITH CHANNEL NAVIGATION.

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NEW CHANNEL MARKING NAVIGATION LIGHTS SHALL BE INSTALLED AT THE LOCATION AS INDICATED. "PL" DENOTES PIER LIGHT, "PL-BM" DENOTES BRACKET MOUNTED PIER LIGHT. ALL NAVIGATION LIGHTS SHALL USE

2. 3#12AWG, 1#12 AWG GND TECK CABLE, ONE ON EACH SIDE OF THE BRIDGE APPROACH SHALL CONNECT TO THE CORRESPONDING SUBMARINE CABLE JUNCTION BOX AS INDICATION AND UTILIZE THE SPARE CONDUCTORS IN THE JUNCTION BOX FOR THE NAVIGATION LIGHT CIRCUIT. ALL CHANNEL GROUND. ONE OF THE THREE CONDUCTORS INSIDE THE TECK CABLE TO

4. CONTRACTOR TO PROVIDE ALL STAINLESS STEEL MOUNTING HARDWARE

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