

LIST OF DRAWINGS

2021

KINGSTON ONTARIO

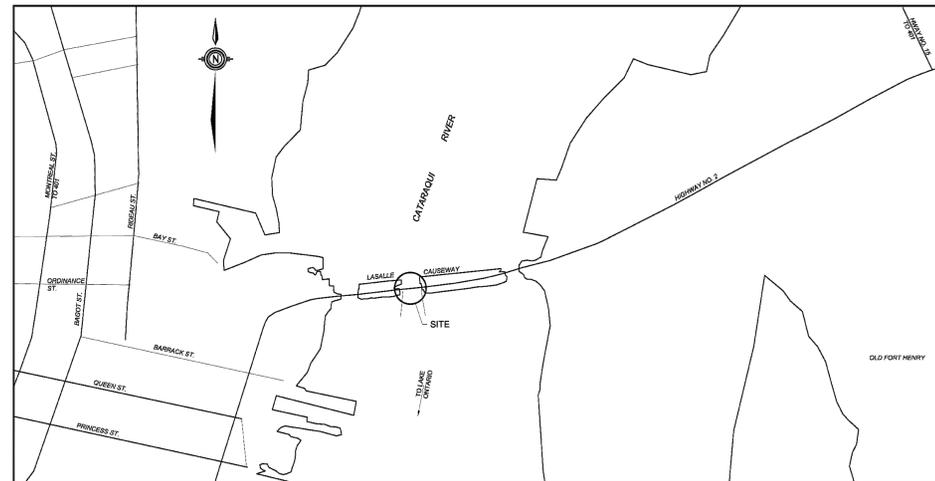
STRUCTURAL

- S00 COVER
- S01 GENERAL ARRANGEMENT
- S02 NOTES
- S03 CONSTRUCTION STAGING
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TRAFFIC MANAGEMENT

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- TCP-2 TRAFFIC AND PEDESTRIAN CONTROL PLAN - WESTBOUND LANE CLOSURE
- TCP-3 TRAFFIC AND PEDESTRIAN CONTROL PLAN - FULL CLOSURE

# LASALLE CAUSEWAY BASCULE BRIDGE - COUNTERWEIGHT INTERIM REPAIR



KEY PLAN / PLAN CLÉ



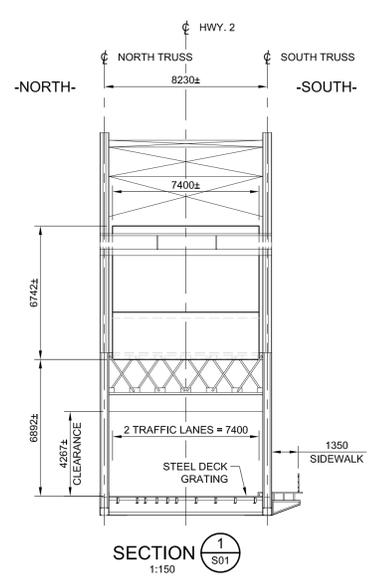
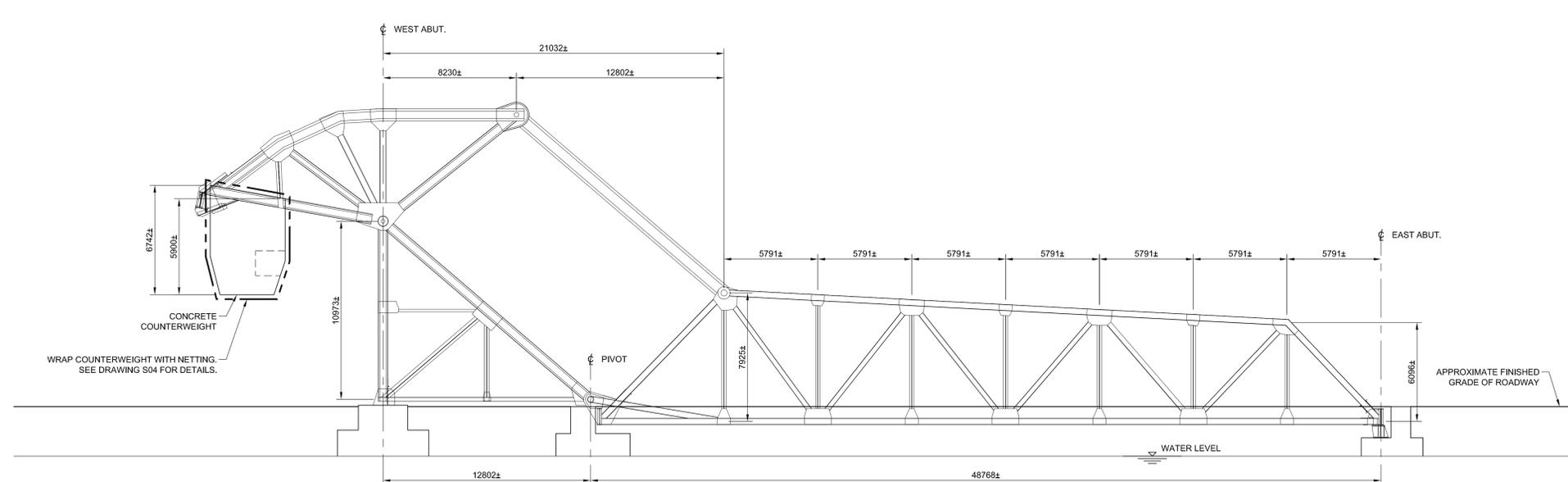
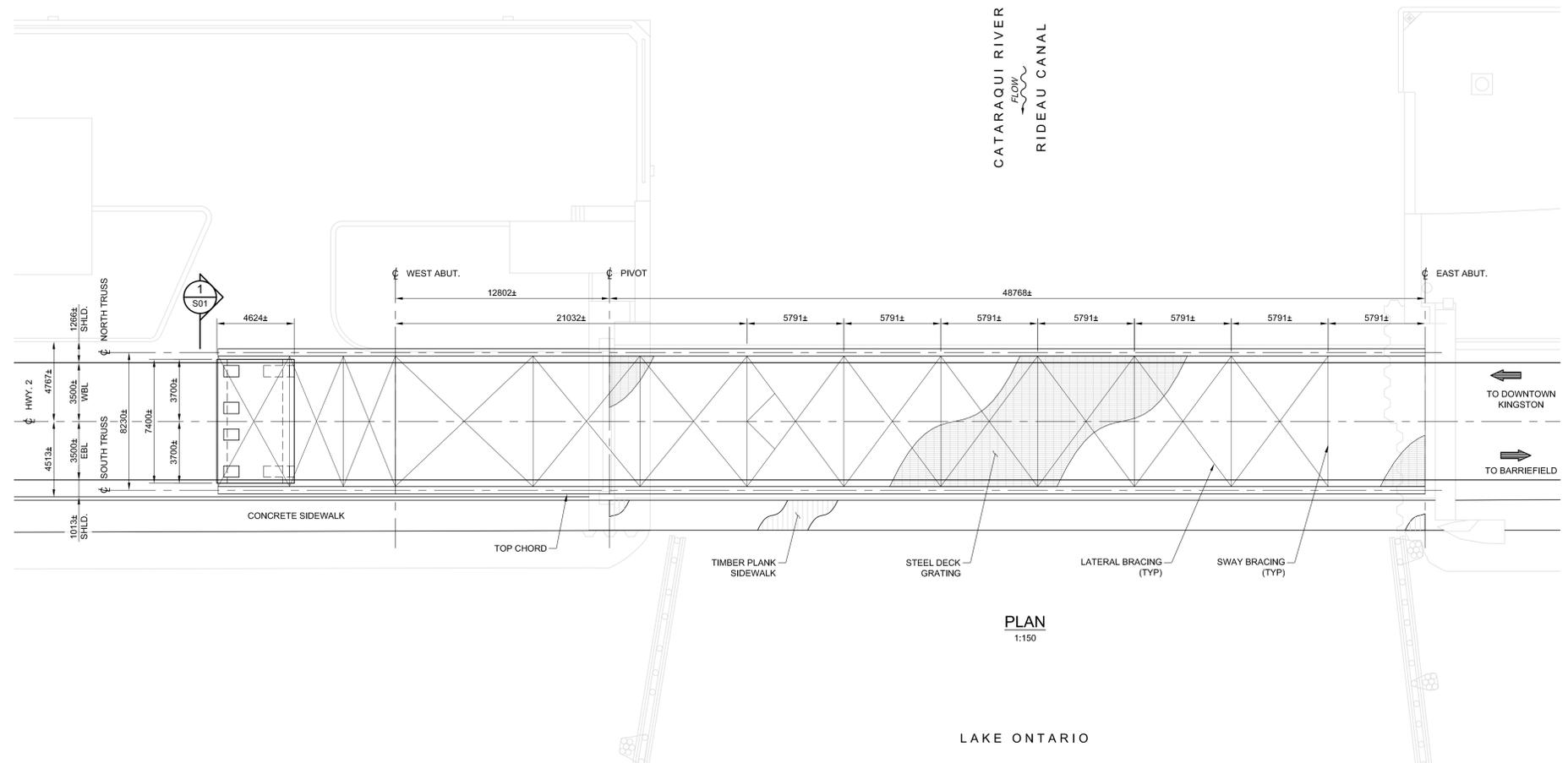
Public Services and  
Procurement  
Canada

Services Publics et  
Approvisionnement  
Canada

PROJECT R.108246.001  
PROJET

ISSUED FOR TENDER  
2021/02/10

NORTH FOR CONSTRUCTION



NOTES:  
1. SEE DRAWING S02 FOR NOTES.

Public Services and Procurement Canada  
Architectural and Engineering Services Ontario Region  
Services Publics et Approvisionnement Canada  
Services d'architecture et de génie Région de l'Ontario



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Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.  
Ne pas mettre à l'échelle les plans. Vérifier les dimensions et conditions sur le site et en avisant l'ingénieur immédiatement de toute divergence.

A	Detail No. No. du détail
B	drawing no. - where detail required dessin no. - où détail exigé
C	drawing no. - where detailed dessin no. - où détaillé

project title / titre du projet: Ontario  
LASALLE CAUSEWAY BASCULE BRIDGE - COUNTERWEIGHT INTERIM REPAIR

drawing title / titre du dessin: GENERAL ARRANGEMENT

drawn by / dessiné par: B. REESE  
designed by / conçu par: Z. BROTH

approved by / approuvé par: M. MANSFIELD

tender submission / project manager / soumission / administrateur de projets

project date / date du projet: 2021/02/10

project no. / no. du projet: R.108246.001

drawing no. / dessiné no.: S01

CAD FILE LOCATION AND NAME: \\NAE\1\2021-01\325-00\Lasalle\_Causeway\_Bridge\Sheets\02 EMERGENCY COUNTERWEIGHT REPAIR\20M-01325-00-02-001\_L04.dwg  
 MODIFIED: 2/10/2021 4:14:27 PM BY: REESEB  
 DATE PLOTTED: 2/10/2021 4:15:10 PM BY: REESEB

GENERAL NOTES:

- 1. DO NOT SCALE DRAWINGS.
2. WORK TO BE COMPLETED OUTSIDE OF NAVIGATION SEASON.
3. PSPC COMMUNICATIONS DEPARTMENT TO COORDINATE CONTACTING CONCERNED PARTIES.
4. THE CONTRACTOR SHALL EXAMINE THE SITE AND SATISFY HIMSELF OF THE ACTUAL CONDITIONS AND REQUIREMENTS OF THE WORK.
5. THE LATEST VERSION OF ALL REFERENCED DOCUMENTS SHALL APPLY.
6. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE CSA S6-19.
7. DIMENSIONS RELATING TO EXISTING CONSTRUCTION MUST BE FIELD VERIFIED BY CONTRACTOR BEFORE STARTING ANY WORK OR FABRICATION.
8. STABILITY AND INTEGRITY OF STRUCTURE AND INDIVIDUAL COMPONENTS SHALL BE MAINTAINED AT ALL STAGES OF CONSTRUCTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY ON THE JOB SITE AND FOR THE DESIGN, INSTALLATION AND SUPERVISION OF ALL TEMPORARY BRACING, LOADS AND SUPPORTS.
10. ACCESS, WORK AND STORAGE AREAS SHALL BE LIMITED TO THOSE AREAS DELINEATED ON THE DRAWINGS.
11. ALL DISPOSALS SHALL BE IN ACCORDANCE WITH THE RELEVANT SECTION OF THE SPECIFICATIONS.
12. REINSTATE AND MAKE GOOD ALL DISRUPTED AREAS TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE AFTER COMPLETION OF THE WORK.
13. WORK CONSIDERED TO BE COMPLETE AFTER THE BRIDGE HAS BEEN SUCCESSFULLY COMMISSIONED IN ACCORDANCE WITH SECTION 01 91 13 - GENERAL COMMISSIONING REQUIREMENTS AND IS FULLY OPERATIONAL.

DESIGN LOADS:

- 1. THE SIZE OF CONCRETE SPALL IS NOT DIRECTLY PREDICTABLE. THE INTERIM REPAIR HAS BEEN DESIGNED BASED ON A THEORETICAL DEPTH OF CONCRETE LOSS FROM THE BOTTOM OF THE COUNTERWEIGHT IN ITS VERTICAL SUSPENDED POSITION.
2. FOR AN ASSUMED DEPTH OF 600:
- APPROXIMATE VOLUME OF SPALL: 15.5 m³
- ACTUAL LOAD: 373 kN
- FACTOR OF SAFETY: 3
- TOTAL DESIGN LOAD: 1120 kN
3. FOR AN ASSUMED DEPTH OF 300:
- APPROXIMATE VOLUME OF SPALL: 7.6 m³
- ACTUAL LOAD: 182 kN
- FACTOR OF SAFETY: 5
- TOTAL DESIGN LOAD: 912 kN

DURING OPERATION:

- 1. DURING OPERATION OF THE BRIDGE (OPENING AND CLOSING) THE AREA UNDER THE BRIDGE AND IMMEDIATELY ADJACENT TO THE BRIDGE SHOULD NOT HAVE ANY HUMAN OCCUPANCY.

STRUCTURAL STEEL:

- 1. ALL NEW STRUCTURAL STEEL SHALL CONFORM TO CSA G40.20 AND CSA G40.21 GRADE 350W FOR ROLLED SHAPES.
2. GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM A123/A123M-17. MINIMUM WEIGHT OF ZINC COATING SHALL BE 600g/m².
3. STEEL IS DESIGNED AND SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH CSA S6-19.
4. FOR EACH REPAIR DETAIL SHOWN, DETAILS MAY DEPICT ONE LOCATION AND ARE INCLUDED TO INDICATE DESIGN INTENT AT SIMILAR LOCATIONS. THE DIMENSIONS CAN VARY FROM ONE LOCATION TO ANOTHER. DIMENSIONS SHOWN ARE APPROXIMATE AND MAY VARY DEPENDING ON CONTRACTOR'S MEANS AND METHODS.
5. ALL CUTTING OF STEEL IN THE FIELD SHALL BE BY MECHANICAL CUTTING WHEEL UNLESS OTHERWISE DIRECTED. THE CUT SURFACES MUST BE GROUND SMOOTH.
6. NO FIELD WELDING IS PERMITTED, UNLESS NOTED OTHERWISE.
7. THE SHOP FABRICATOR SHALL BE CERTIFIED TO THE REQUIREMENTS OF CSA STANDARD W47.1 (DIVISION 1 OR 2.1).
8. SHOP DRAWINGS SHALL BE SUBMITTED TO DEPARTMENTAL REPRESENTATIVE FOR THE APPROVAL FOR ALL ITEMS.
9. ALL WELDING SHALL BE IN ACCORDANCE WITH CSA STANDARD W59.
10. UNLESS OTHERWISE NOTED, THE MINIMUM FILLET WELD SHALL BE AS FOLLOWS:

Table with 2 columns: MATERIAL THICKNESS OF THICKER PART JOINED (mm) and MINIMUM SIZE OF SINGLE PASS FILLET WELD (mm). Rows include TO 12 INCLUSIVE, OVER 12 TO 20, OVER 20 TO 40, OVER 40 TO 60.

MATERIALS:

- 1. MATERIALS FOR INTERIM REPAIR SHALL BE AS LISTED BELOW OR AN EQUIVALENT APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
2. ALL MATERIALS SHALL BE NEW AND FREE OF DEFECTS.
3. WIRE ROPE: 1/2" DIAMETER 6x19, GALVANIZED, RIGHT REGULAR LAY, EXTRA IMPROVED FLOWED STEEL (EIPS), INDEPENDENT WIRE ROPE CORE (IWRC).
4. THIMBLE END TREATMENT: 1/2" DIAMETER, HOT DIP GALVANIZED, CROSBY® G-411 STANDARD WIRE ROPE THIMBLES.
5. TURNBUCKLES: 7/8" DIAMETER x 18" TAKE-UP LENGTH, HOT DIP GALVANIZED, CROSBY® HG-226 EYE & EYE TURNBUCKLE.
6. U-BOLTS: 1/2" DIAMETER, GALVANIZED, CROSBY® G-450 "RED-U-BOLT" WIRE ROPE CLIPS.
7. CONSTRUCTION DEBRIS NETTING: 10,000 POUND WEIGHT RATED ALCO CONSTRUCTION COVERS (RB-10000).
8. MISCELLANEOUS MATERIALS (INCLUDING HSS, EYE BOLTS AND ALL ASSOCIATED HARDWARE): TO CSA G40.20/G40.21 (WHERE APPLICABLE), HOT DIP GALVANIZED, AND AS NOTED ON CONTRACT DRAWINGS.
9. THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDED PROCEDURES FOR THE USE OR INSTALLATION OF THE REPAIR MATERIALS. SPECIFICATIONS FROM THE MANUFACTURER, AS WELL AS DESIGN MANUALS AND STANDARDS, SHALL BE CONSULTED WHEREVER APPLICABLE.

GENERAL CONSTRUCTION AND PROCEDURES:

- 1. THE CONTRACTOR SHALL PLAN AND CONTROL THE PROCESS/PROCEDURES TO THE EXTENT NECESSARY TO ENSURE THAT TOLERANCES IN THE CONTRACT DOCUMENTS ARE COMPLIED WITH. THE DEPARTMENTAL REPRESENTATIVE SHALL BE ENTITLED TO DEMAND THAT ANY SPECIFIC WORKING/INSPECTION PROCEDURE BE ADJUSTED IF SUCH PROCEDURE APPEARS NOT TO PROVIDE ADEQUATE SECURITY AGAINST EXCEEDING OF TOLERANCES.
2. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATION TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS FOLLOWING WRITTEN APPROVAL FROM DEPARTMENTAL REPRESENTATIVE.
3. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN ON THE STRUCTURE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE DEPARTMENTAL REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL TAKE PRECAUTIONS SO AS NOT TO LEAVE DEBRIS, MATERIALS, TOOLS, ETC. ON THE BRIDGE SURFACE WHEN LEAVING THE WORK AREA ON A DAILY BASIS.
5. HORIZONTAL, VERTICAL AND DETAIL DIMENSIONS AND ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM THE ORIGINAL DESIGN DRAWINGS, SHOP DRAWINGS, AND SUBSEQUENT MODIFICATION DRAWINGS OF THE EXISTING STRUCTURES. THE CONTRACTOR SHALL PERFORM FIELD MEASUREMENTS TO ESTABLISH CONTROL POINTS AND TO VERIFY ALL EXISTING DIMENSIONS AFFECTING FABRICATION AND CONSTRUCTION. SHOP AND CONSTRUCTION DRAWINGS SHALL SHOW DESIGN DIMENSIONS AND FIELD DIMENSIONS WHENEVER THEY DIFFER.
6. THE CONTRACTOR SHALL PRODUCE SHOP DRAWINGS USING COMPUTER AIDED DRAFTING & DESIGN (CADD). THE SUBMISSIONS SHALL MEET PSPC CADD STANDARDS FOR ONTARIO AND WILL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.
7. RECORD DRAWINGS OF THE EXISTING STRUCTURE ARE ON FILE AT THE OFFICES OF PSPC. RECORD DRAWINGS OF THE EXISTING STRUCTURE WILL BE MADE AVAILABLE TO THE SUCCESSFUL BIDDER FOR REFERENCE, BUT MAY NOT BE REMOVED.
8. THE CONTRACTOR SHALL SUBMIT CONSTRUCTION SEQUENCING WITH A DETAILED WRITTEN PLAN OF OPERATIONS COINCIDENT WITH THE PROJECT SCHEDULE AND EACH SUBSEQUENT SCHEDULE UPDATE TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW PRIOR TO IMPLEMENTATION, AS DEFINED WITHIN THE CONTRACT SPECIFICATIONS. FOR WORK RESTRICTIONS AND OPERATIONAL CONSTRAINTS REFER TO SPECIFICATION SECTIONS 01 14 00 - WORK RESTRICTIONS AND 05 12 33 - STRUCTURAL STEEL FOR BRIDGES.
9. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE PERMITTED LANE CLOSURES AS DEFINED IN THE CONTRACT SPECIFICATIONS. WORK THAT DOES NOT AFFECT THE TRAFFIC OR PEDESTRIANS MAY BE PERFORMED OUTSIDE THE TIMES OF THE RESTRICTIVE LANE CLOSURES BUT MUST REMAIN IN CONFORMANCE WITH THE ACCEPTED WRITTEN PLAN OF OPERATIONS AND DEPARTMENTAL REPRESENTATIVE'S APPROVALS.
10. DURING REMOVAL AND CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT BE PERMITTED TO DROP MATERIAL OR DEBRIS FROM THE BRIDGE NOR SHALL ANY WATER WHICH IS USED FOR WASHING PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSES IT TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL OR OTHER IMPURITIES BE DEPOSITED INTO THE CATARAQUI RIVER.
11. PROTECTIVE SHIELDS SHALL BE USED TO CATCH POTENTIAL FALLING MATERIAL AND SHIELD THE AREA BELOW THE WORK. THE LOAD CARRYING CAPACITY OF THE PROTECTIVE SHIELDS SHALL BE CONSISTENT WITH THE NATURE OF THE WORK BEING PERFORMED IN ANY PARTICULAR LOCATION. IF THE DEPARTMENTAL REPRESENTATIVE DETERMINES THAT ADEQUATE PROTECTIVE SHIELDS ARE NOT BEING PROVIDED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE WORK SHIELD ARE EMPLOYED.
12. THE CONTRACTOR SHALL SUBMIT TO THE DEPARTMENTAL REPRESENTATIVE FINAL DESIGN DRAWINGS OF ALL TEMPORARY ACCESS AND CONSTRUCTION PLATFORMS AND PROTECTIVE SHIELDS. THESE DRAWINGS SHALL BE FULLY DIMENSIONED AND SHALL SHOW ALL ATTACHMENTS TO THE EXISTING BRIDGE MEMBERS. DRAWINGS SHALL BEAR THE SIGNATURE AND SEAL OF THE DESIGNER WHO SHALL BE A LICENSED PROFESSIONAL ENGINEER IN ONTARIO. ATTACHMENTS TO THE EXISTING STRUCTURE, THAT IN THE OPINION OF DEPARTMENTAL REPRESENTATIVE, COULD BE DAMAGING TO ANY COMPONENT OF THE BRIDGE STRUCTURE SHALL NOT BE USED.
13. THE CONTRACTOR SHALL OBTAIN HIS OWN ELECTRICAL POWER SOURCE FOR ALL CONSTRUCTION OPERATIONS AND SHALL NOT BE PERMITTED TO USE ANY EXISTING UTILITIES ON THE BRIDGE AS A SOURCE OF POWER.
14. EXCEPT WHILE INCLUDED WITHIN A PARTICULAR PHASE OF CONSTRUCTION, THE BRIDGE MAINTENANCE WALKS, THE ROADWAY, AND ANY BRIDGE EASEMENT SHALL NOT BE USED FOR STORAGE OF MATERIALS OR EQUIPMENT AND SHALL NOT BE COVERED OR BLOCKED IN ANY WAY WITHOUT WRITTEN AUTHORIZATION BY DEPARTMENTAL REPRESENTATIVE.
15. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A PROJECT PLAN INCLUDING A DETAILED SCHEDULE IN GANTT CHART FORMAT OUTLINING THE PATH AND STEPS TO COMPLETE THE INTERIM COUNTERWEIGHT REPAIRS. THIS PLAN MUST BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE AT LEAST 14 DAYS PRIOR TO THE COMMENCEMENT OF WORK.
16. CONTRACTOR TO SUBMIT SITE-SPECIFIC HEALTH AND SAFETY PLAN PER SPECIFICATION REQUIREMENTS.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF ALL TEMPORARY SUPPORT AND PROTECTION REQUIRED TO SAFELY COMPLETE THE INSTALLATION OF THE COUNTERWEIGHT INTERIM REPAIR.

TRAFFIC CONTROL:

- 1. THE CONTRACTOR SHALL PROVIDE SCHEDULE OF LANE CLOSURES FOR APPROVAL AT LEAST 14 DAYS PRIOR TO WORK COMMENCEMENT.
2. THE CONTRACTOR SHALL CONFIRM WORK OR CANCELLATION OF LANE CLOSURES PRIOR TO WORK COMMENCEMENT.
3. THE CONTRACTOR SHALL FOLLOW THE ROAD CLOSURE PROTOCOL AS OUTLINED IN THE SPECIFICATIONS.
4. ALL NIGHTLY DETOUR SIGNAGE AND TEMPORARY BARRIERS TO BE STORED AND/OR PLACED OUT OF TRAFFIC SIGHT LINES BETWEEN CLOSURE PERIODS.
5. REFLECTIVE SIGNS APPROXIMATELY 1200x750mm WITH ADVANCE WARNING OF LANE CLOSURE PERIODS TO BE APPROVED AND PLACED AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
6. ADVANCE WARNING SIGNS SHALL BE PLACED AT HIGHWAY 15 AND HIGHWAY 401.
7. TRAFFIC CONTROL PLAN FOR TEMPORARY CONDITIONS (LANE CLOSURES) SHALL BE PROVIDED BY CONTRACTOR AND BE IN ACCORDANCE WITH OTM-BOOK 7, THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE.
8. THE CONTRACTOR SHALL MAINTAIN SIDEWALK OR PROVIDE A SAFE TEMPORARY WALKWAY 1500mm WIDE MINIMUM THROUGH THE WORK ZONE. THE TEMPORARY WALKWAY SHALL BE PROTECTED FROM ADJACENT TRAFFIC AND WORK ACTIVITIES. AN ACCESSIBLE SURFACE SHALL BE PROVIDED, AND THE TRANSITION TO THE SIDEWALK ON EITHER END SHALL BE ACCESSIBLE.
9. PEDESTRIANS AND CYCLISTS SHALL BE PROVIDED SAFE ACCESS TO SIDEWALK DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE TO MANAGE SIDEWALK TRAFFIC. AT A MINIMUM, FLAGGING OPERATIONS SHALL BE CARRIED OUT DURING CONSTRUCTION TO ALLOW PEDESTRIANS AND CYCLISTS TO CROSS, WHEN SAFE TO DO SO.
10. THE CONTRACTOR SHALL ENSURE THAT EMERGENCY VEHICLES ARE PERMITTED TO SAFELY CROSS THE BRIDGE AT ALL TIMES DURING CONSTRUCTION.

LIST OF ABBREVIATIONS:

Table with 2 columns: ABBREVIATION and MEANING. Rows include ABUT., DIA., EBL., SHLD., TYP., WBL and their corresponding meanings like DENOTES ABUTMENT, DENOTES DIAMETER, etc.

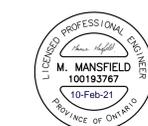
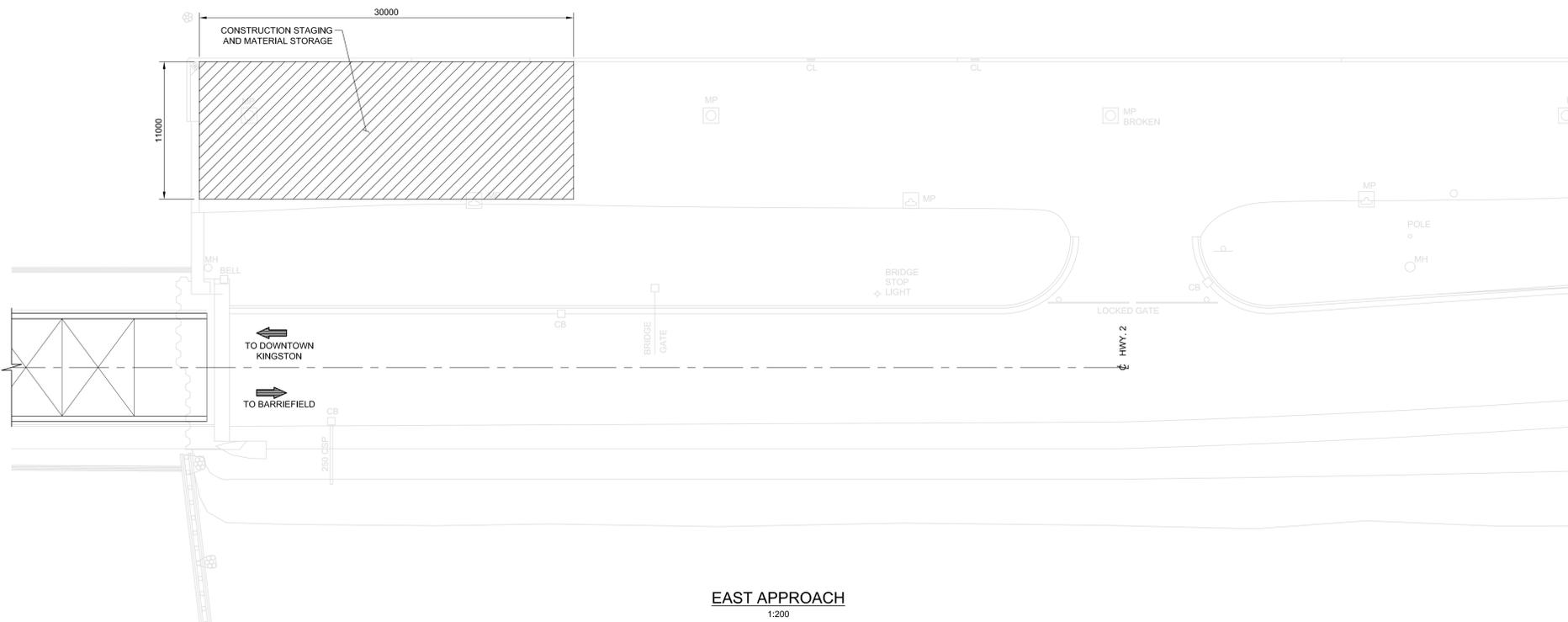
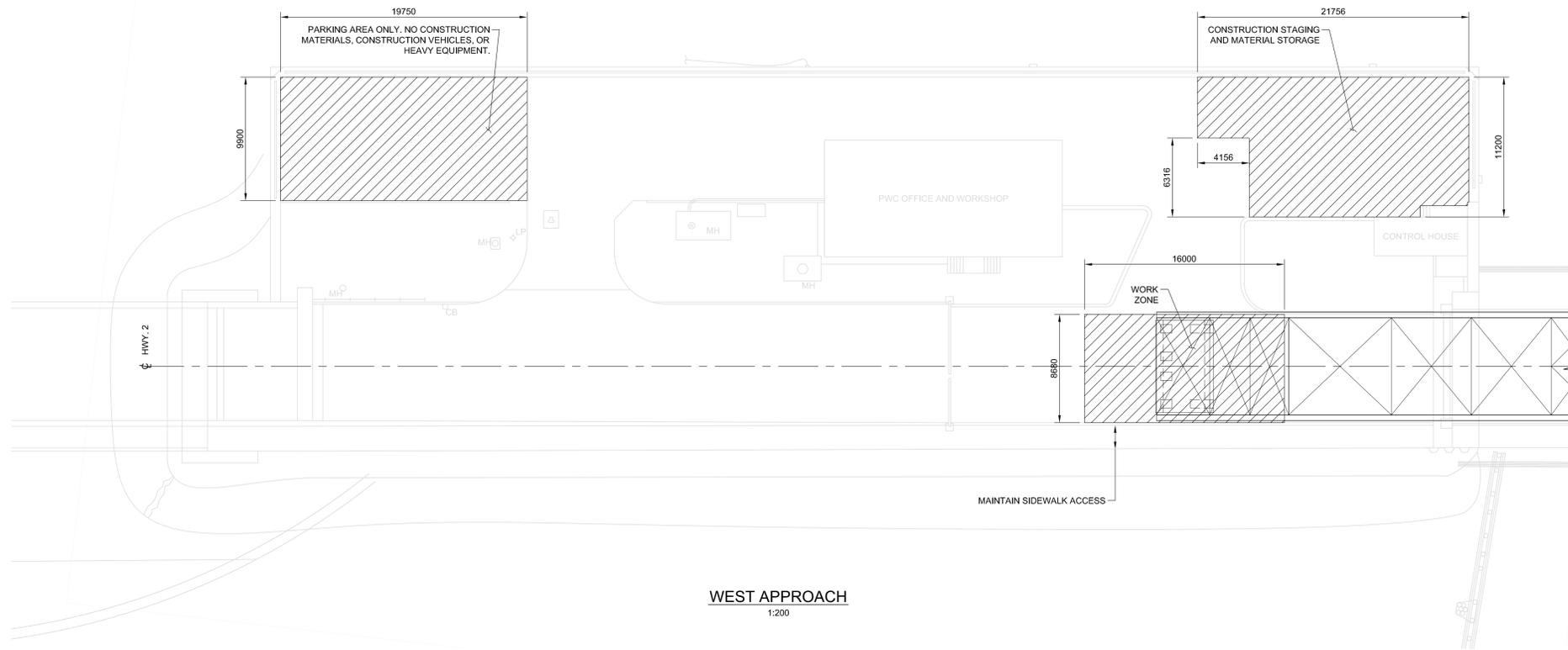


Table with project details including revision (00 ISSUED FOR TENDER), drawing title (LASALLE CAUSEWAY BASCULE BRIDGE - COUNTERWEIGHT INTERIM REPAIR), project manager (M. Mansfield), and drawing no. (R.108246.001, S02).

NORTH FOR CONSTRUCTION



NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWINGS S01 AND S02.
2. CONTRACTOR SHALL ENSURE STAGING AREA IS REINSTATED TO ORIGINAL CONDITIONS UPON PROJECT COMPLETION.

LEGEND:



Public Services and Procurement Canada  
 Architectural and Engineering Services  
 Ontario Region  
 Services Publics et Approvisionnement Canada  
 Services d'architecture et de génie  
 Région de l'Ontario



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revision date  
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A	Detail No. / No. du détail
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project title / titre du projet  
**Ontario**  
**LASALLE CAUSEWAY BASCULE BRIDGE - COUNTERWEIGHT INTERIM REPAIR**

drawing title / titre du dessin  
**CONSTRUCTION STAGING**

drawn by / dessiné par  
**B. REESE**

designed by / conçu par  
**Z. BROTH**

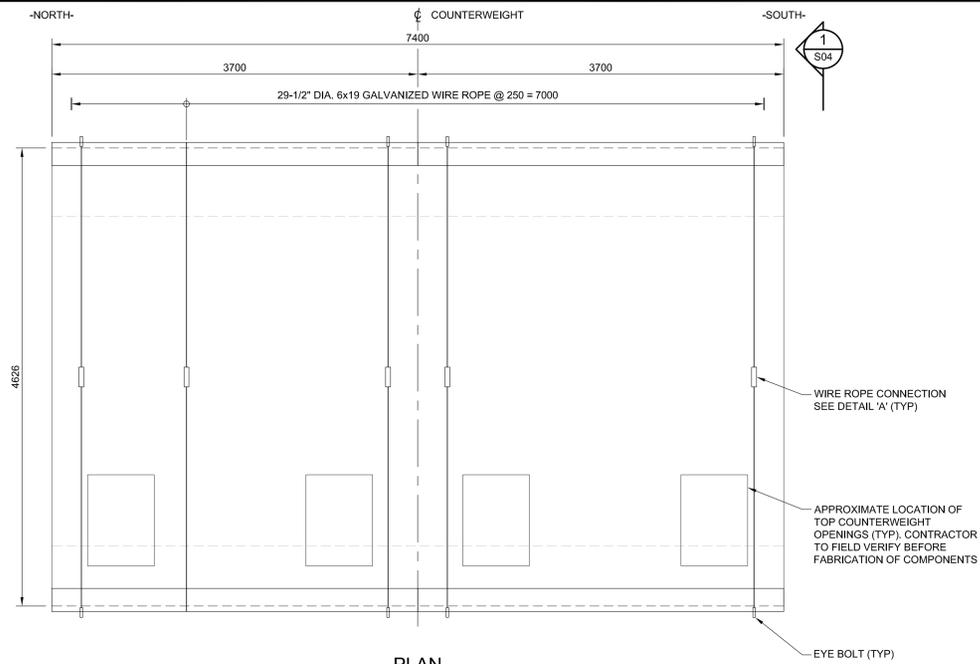
approved by / approuvé par  
**M. MANSFIELD**

tender submission / soumission de projet  
 project manager / administrateur de projet

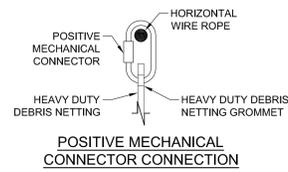
project date / date du projet  
**2021/02/10**

project no. / no. du projet  
**R.108246.001**

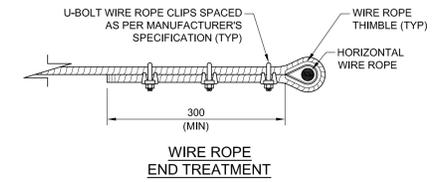
drawing no. / dessiné no.  
**S03**



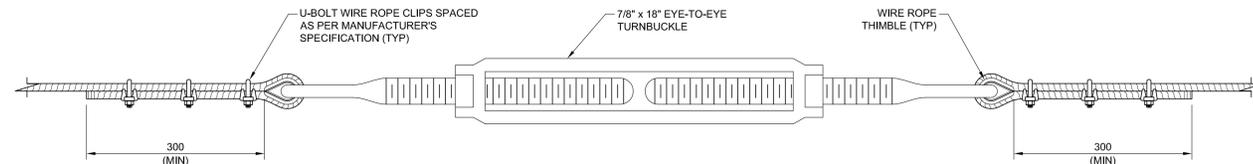
PLAN 1:30 SIDE COUNTERWEIGHT POCKETS NOT SHOWN FOR CLARITY.



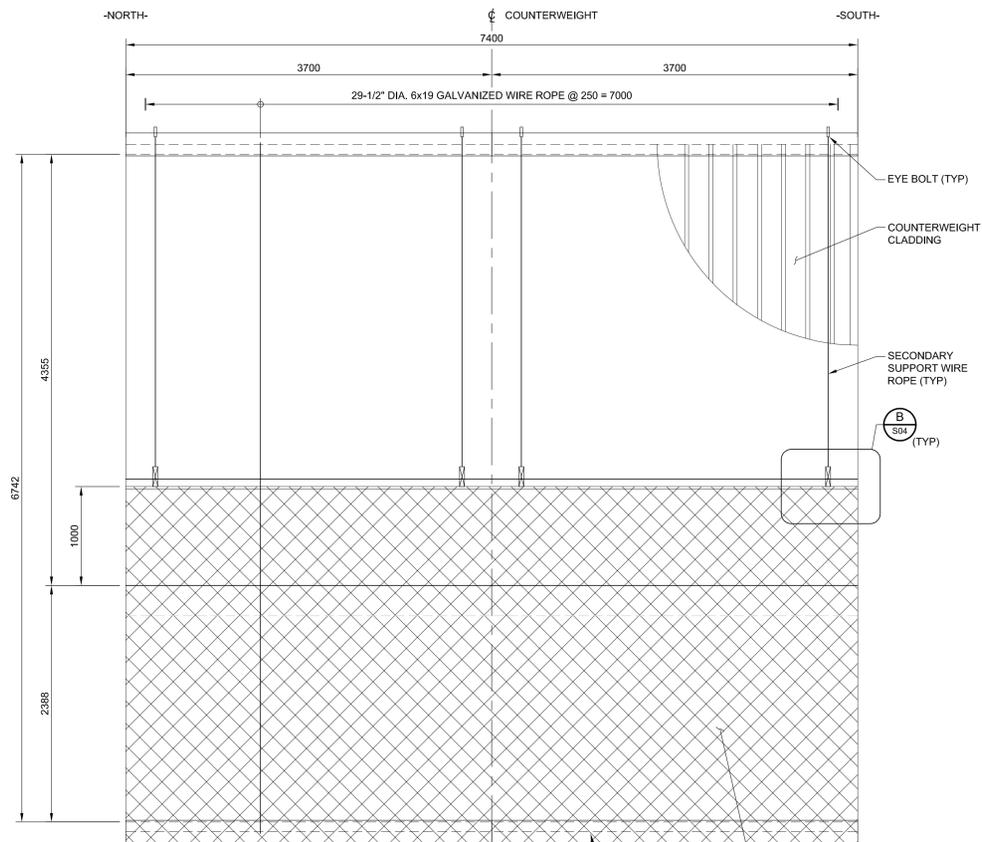
POSITIVE MECHANICAL CONNECTOR MECHANICAL



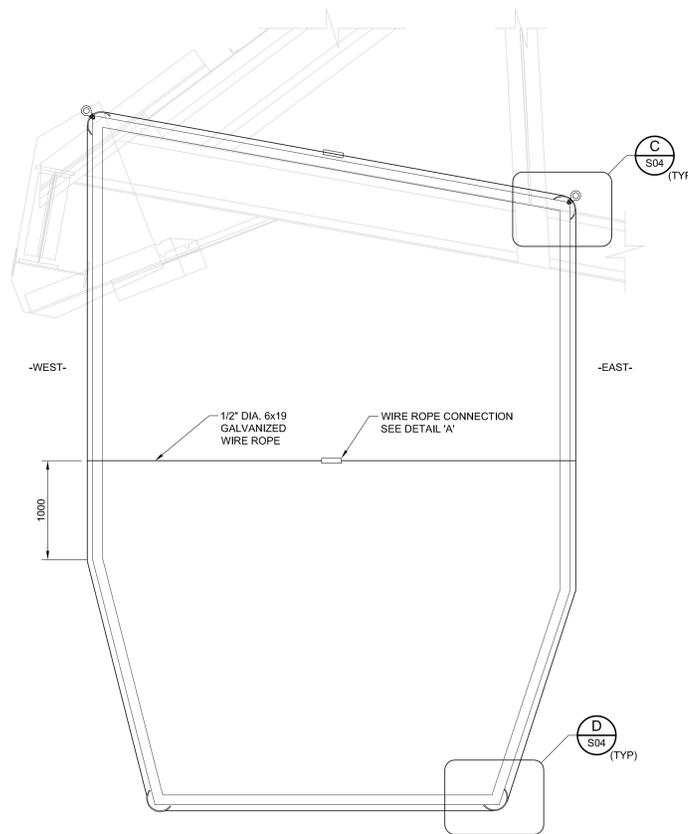
WIRE ROPE END TREATMENT



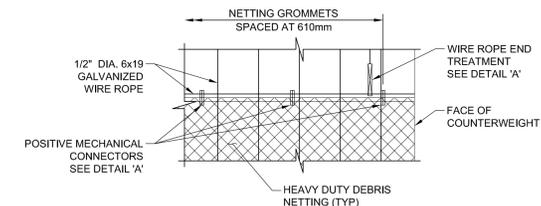
WIRE ROPE CONNECTION CONNECTION DETAILS A S04 N.T.S.



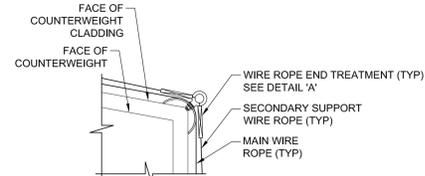
ELEVATION 1:30 TOP AND SIDE COUNTERWEIGHT POCKETS NOT SHOWN FOR CLARITY.



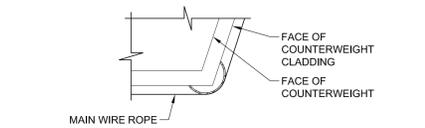
SECTION 1 S04 1:30 COUNTERWEIGHT POCKETS AND SECONDARY SUPPORT WIRE ROPE NOT SHOWN FOR CLARITY.



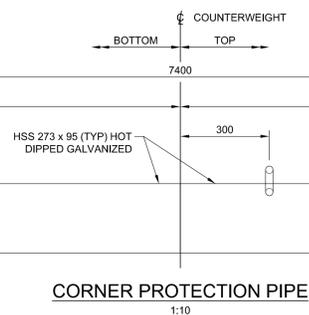
NETTING CONNECTION DETAIL B S04 1:20



TOP CORNER PROTECTION DETAIL C S04 1:20



BOTTOM CORNER PROTECTION DETAIL D S04 1:20



CORNER PROTECTION PIPE 1:10

NOTES: 1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWINGS S01 AND S02.

LEGEND: WIRE ROPE CONNECTION, WIRE ROPE END CONNECTION, POSITIVE MECHANICAL CONNECTION

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revision		date

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A Detail No. No. du détail B drawing no. - where detail required dessin no. - ou détail exigé C drawing no. - where detailed dessin no. - ou détaillé

project title titre du projet Ontario LASALLE CAUSEWAY BASCULE BRIDGE - COUNTERWEIGHT INTERIM REPAIR

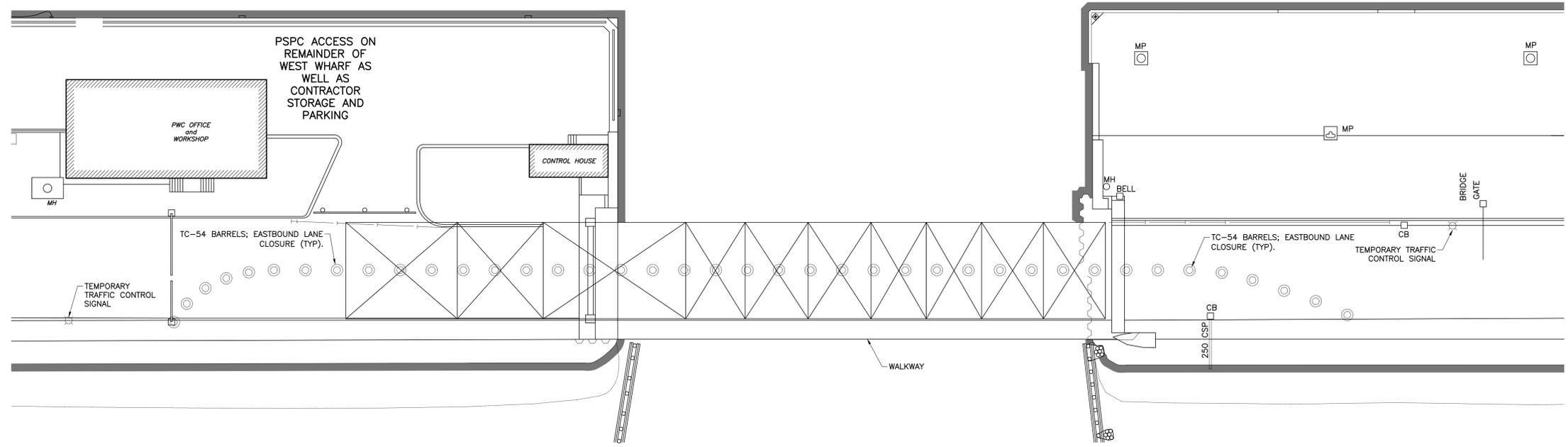
drawing title titre du dessin COUNTERWEIGHT REPAIR DETAILS

drawn by dessiné par B. REESE designed by conc par Z. BROTH

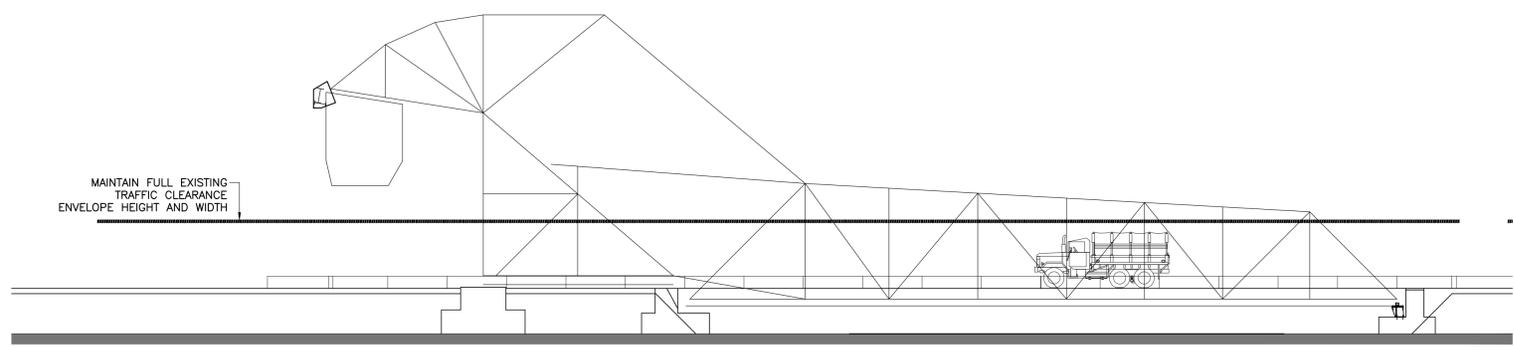
approved by approuvé par M. MANSFIELD

tender submission project manager soumission administrateur de projets project date date du projet 2021/02/10

project no. no. du projet R.108246.001 drawing no. dessiné no. S04



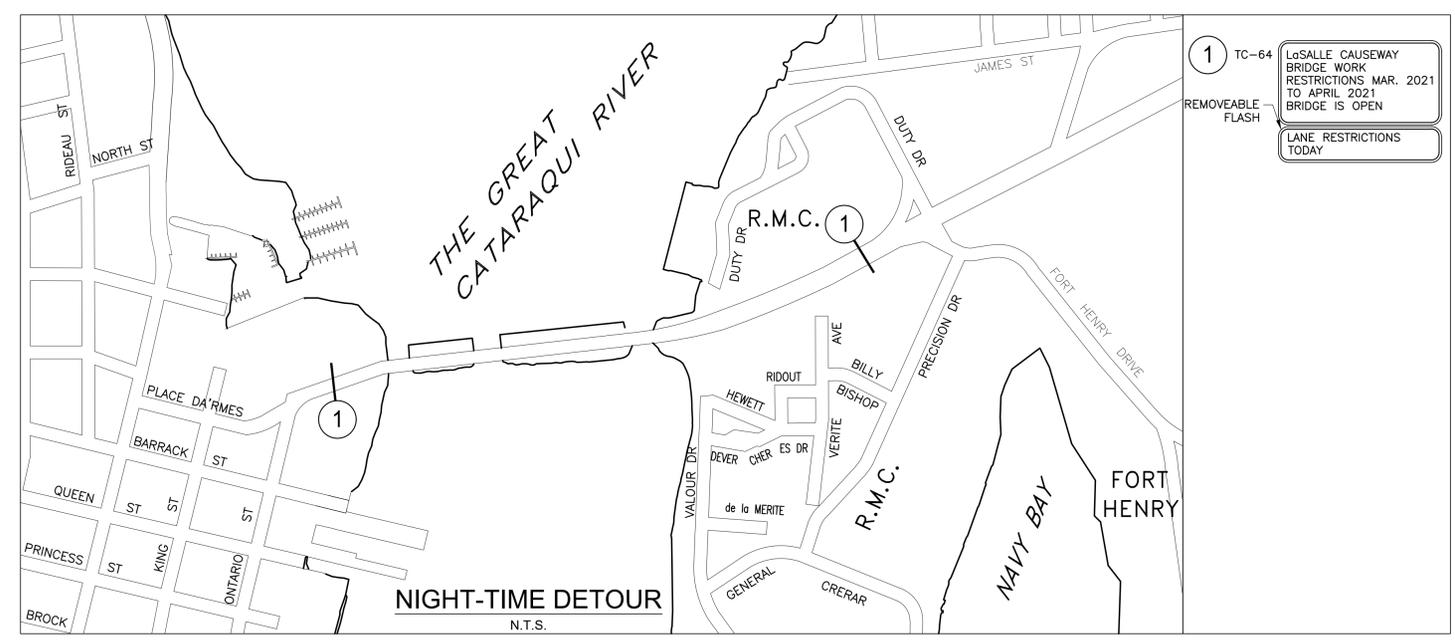
PLAN: EASTBOUND SINGLE LANE CLOSURE (MINUS SIGNAGE)  
 1:200



SOUTH ELEVATION  
 1:200

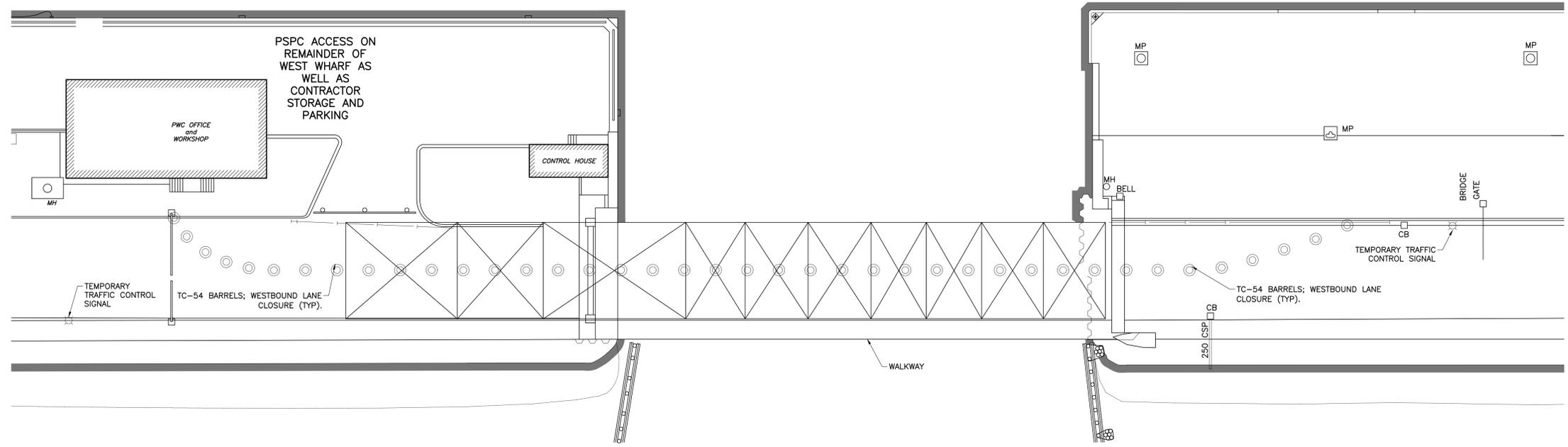
NOTES:

- THE PURPOSE OF THIS DRAWING IS TO ILLUSTRATE THE GENERAL METHOD OF TRAFFIC CONTROL DURING CONSTRUCTION. IT IS NOT A COMPREHENSIVE TRAFFIC CONTROL PLAN OR DETAILED STAGING DRAWINGS, NOR A COMPREHENSIVE LIST OF ALL THE WORKS. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO THE CLOSURE AS PER THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL SUPPLY AND INSTALL ALL SIGNAGE AND TRAFFIC CONTROL DEVICES PER OTM BOOK 7 TL-21.
- ALL DETOUR SIGNAGE AND TC-54 BARRELS TO BE STORED AND/OR PLACED OUT OF TRAFFIC SIGHT LINES DURING NON DETOUR HOURS. ALL DELINEATORS AND SIGNAGE/FLAGGING SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL, BOOK 7. DETOUR SIGNING, ADVISORY SPEED, AND LANE CLOSURE SIGNS (INCLUDING ADVANCE WARNING OR CLOSURE SIGNS) SHALL BE PROVIDED, INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
- TEMPORARY TRAFFIC CONTROL SIGNALS TO BE PLACED IN THE CAUTION MODE (FLASHING YELLOW) DURING NON DETOUR DAYLIGHT HOURS.
- EXISTING PERMANENT SIGNALS SHALL BE BAGGED WHEN TEMPORARY SIGNALS AND THIS PLAN ARE IN OPERATION.
- REFLECTIVE SIGNS APPROXIMATELY 1200x750mm WITH ADVANCE WARNINGS OF LANE CLOSURES TO BE APPROVED AND PLACED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.
- SPEED LIMIT SIGNS TO BE INSTALLED TO REDUCE SPEED TO 40KM/H.
- CONTRACTOR SHALL FOLLOW THE ROAD CLOSURE PROTOCOL AS OUTLINED IN THE SPECIFICATIONS.
- ACCOMMODATE AND GUIDE PEDESTRIANS THROUGH SITE DURING DETOURS.
- STRUCTURE OF ALL CONTAINMENT SYSTEMS TO BE DESIGNED BY CONTRACTOR.

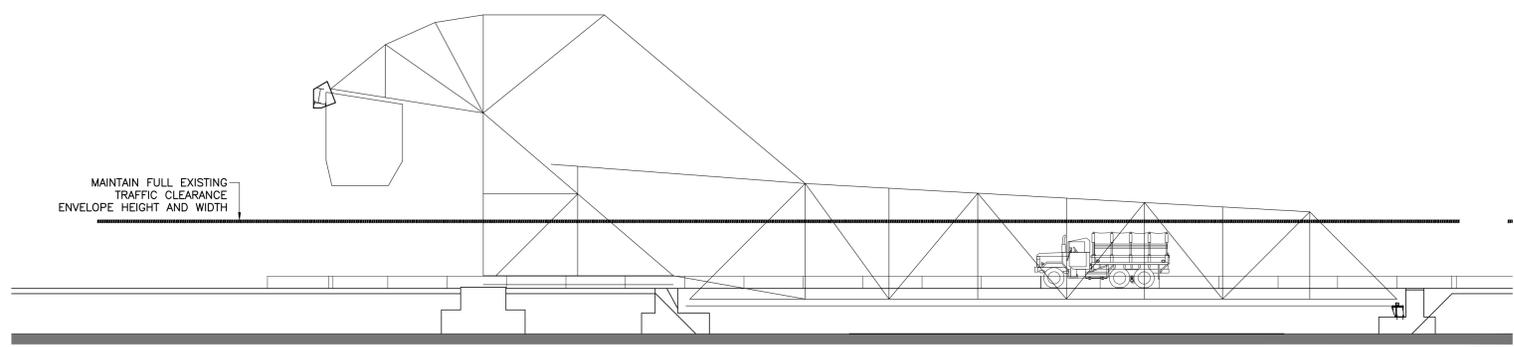


NIGHT-TIME DETOUR  
 N.T.S.

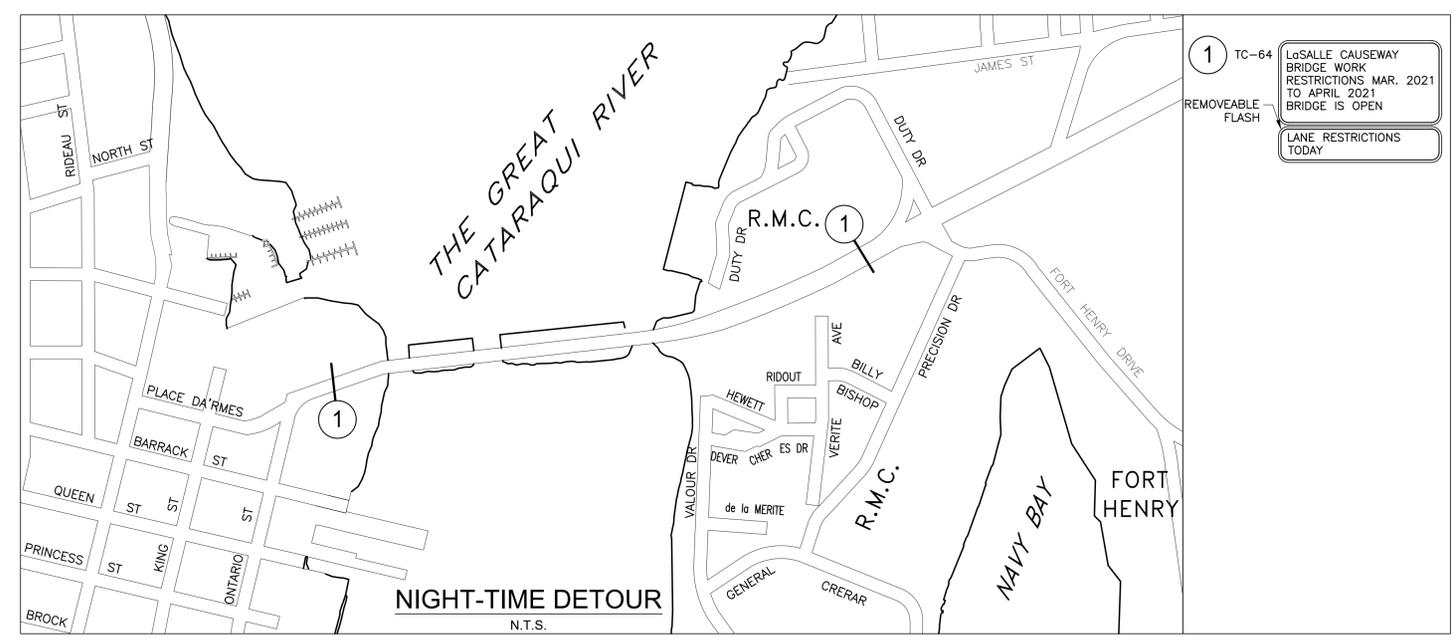
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revision		date
Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies. Ne pas mettre à l'échelle les plans. Vérifier les dimensions et conditions sur le site et en aviser l'ingénieur immédiatement de toute divergence.		
A	A	A Detail No. / No. du détail
C	B/C	B drawing no. - where detail required / dessin no. - où détail exigé
		C drawing no. - where detailed / dessin no. - où détaillé
project title / titre du projet Ontario LASALLE CAUSEWAY BASCULE BRIDGE—COUNTERWEIGHT INTERIM REPAIR		
drawing title / titre du dessin TRAFFIC AND PEDESTRIAN CONTROL PLAN—EASTBOUND LANE CLOSURE		
drawn by / dessiné par C. ZANDER		
designed by / conc par S. DAVIDSON		
approved by / approuvé par M. MANSFIELD		
tender submission / soumission de projet		project manager / administrateur de projets
project date / date du projet 2021/02/10		
project no. / no. du projet R.108246.001		
drawing no. / dessin no. TCP-1		



PLAN: WESTBOUND SINGLE LANE CLOSURE (MINUS SIGNAGE)  
 1:200



SOUTH ELEVATION  
 1:200

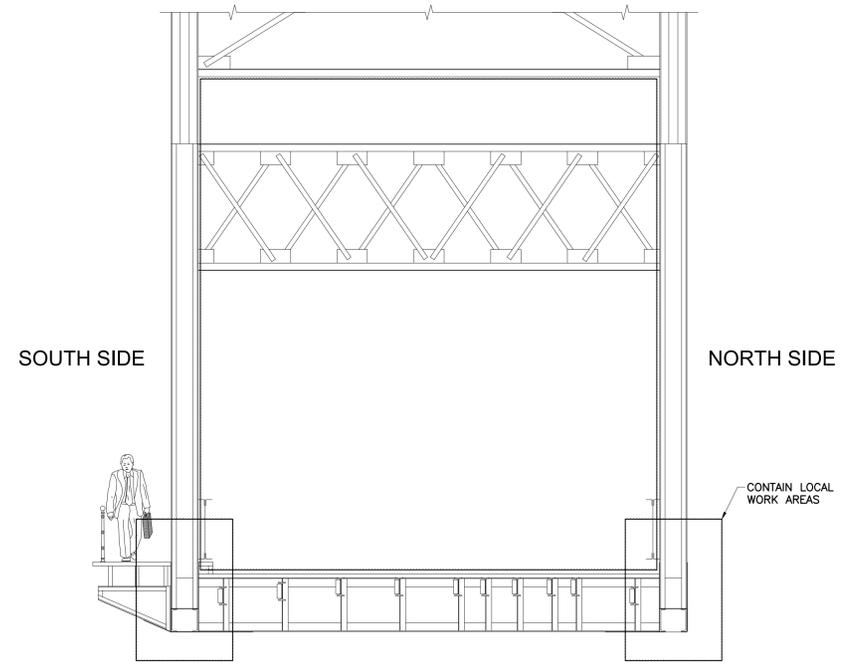


NIGHT-TIME DETOUR  
 N.T.S.

NOTES:

1. THE PURPOSE OF THIS DRAWING IS TO ILLUSTRATE THE GENERAL METHOD OF TRAFFIC CONTROL DURING CONSTRUCTION. IT IS NOT A COMPREHENSIVE TRAFFIC CONTROL PLAN OR DETAILED STAGING DRAWINGS, NOR A COMPREHENSIVE LIST OF ALL THE WORKS. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO THE CLOSURE AS PER THE CONTRACT DOCUMENTS
2. CONTRACTOR SHALL SUPPLY AND INSTALL ALL SIGNAGE AND TRAFFIC CONTROL DEVICES PER OTM BOOK 7 TL-21.
3. ALL DETOUR SIGNAGE AND TC-54 BARRELS TO BE STORED AND/OR PLACED OUT OF TRAFFIC SIGHT LINES DURING NON DETOUR HOURS. ALL DELINEATORS AND SIGNAGE/FLAGGING SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL, BOOK 7. DETOUR SIGNING, ADVISORY SPEED, AND LANE CLOSURE SIGNS (INCLUDING ADVANCE WARNING OR CLOSURE SIGNS) SHALL BE PROVIDED, INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
4. TEMPORARY TRAFFIC CONTROL SIGNALS TO BE PLACED IN THE CAUTION MODE (FLASHING YELLOW) DURING NON DETOUR DAYLIGHT HOURS.
5. EXISTING PERMANENT SIGNALS SHALL BE BAGGED WHEN TEMPORARY SIGNALS AND THIS PLAN ARE IN OPERATION.
6. REFLECTIVE SIGNS APPROXIMATELY 1200x750mm WITH ADVANCE WARNINGS OF LANE CLOSURES TO BE APPROVED AND PLACED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.
7. SPEED LIMIT SIGNS TO BE INSTALLED TO REDUCE SPEED TO 40KM/H.
8. CONTRACTOR SHALL FOLLOW THE ROAD CLOSURE PROTOCOL AS OUTLINED IN THE SPECIFICATIONS.
9. ACCOMMODATE AND GUIDE PEDESTRIANS THROUGH SITE DURING DETOURS.
10. STRUCTURE OF ALL CONTAINMENT SYSTEMS TO BE DESIGNED BY CONTRACTOR.

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A	Detail No.	
C	No. du détail	
A	B drawing no. - where detail required	
B	dessin no. - où détail exigé	
C	C drawing no. - where detailed	
C	dessin no. - où détaillé	
project title / titre du projet		
Ontario		
LASALLE CAUSEWAY BASCULE BRIDGE—COUNTERWEIGHT INTERIM REPAIR		
drawing title / titre du dessin		
TRAFFIC AND PEDESTRIAN CONTROL PLAN—WESTBOUND LANE CLOSURE		
drawn by / dessiné par		
C. ZANDER		
designed by / conc par		
S. DAVIDSON		
approved by / approuvé par		
M. MANSFIELD		
tender submission / project manager / administrateur de projets		
project date / date du projet		
2021/02/10		
project no. / no. du projet		
R.108246.001		
drawing no. / dessiné no.		
TCP-2		



NOTE:  
GUIDE PEDESTRIANS THROUGH  
WORK SITE

SECTION A-A  
1:50



- NOTES:**
1. STRUCTURE OF ALL CONTAINMENT SYSTEMS TO BE DESIGNED BY CONTRACTOR.
  2. CONTRACTOR SHALL PROVIDE FLAGGERS ON EITHER SIDE OF THE BRIDGE IN ORDER TO DIRECT EMERGENCY VEHICLES AND PEDESTRIANS ACROSS THE BRIDGE DURING INVESTIGATION WORK.
  3. THE CONTRACTOR SHALL NOT RESTRICT ACCESS TO BOAT TRAFFIC; HOWEVER, BOATERS WILL ONLY BE ABLE TO CROSS BY APPOINTMENT ONLY. BOATERS ARE REQUIRED TO CONTACT THE BRIDGE OPERATOR TOM VILNEFF TO MAKE AN APPOINTMENT:  
TOM.VILNEFF@PWGSC-TPSGC.GC.CA  
OFFICE 613-545-8359  
CELL 343-551-5145
  4. FULL CLOSURE SHALL BE LIMITED TO NIGHTLY OPERATIONS BETWEEN THE HOURS OF 0:00 AND 06:00. FULL CLOSURES OUTSIDE OF THIS TIME WILL REQUIRE WRITTEN APPROVAL FROM THE CITY OF KINGSTON



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Vérifier les dimensions et conditions sur le site et en aviser l'ingénieur immédiatement de tous divergences.

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project title  
titre du projet

Ontario

LASALLE CAUSEWAY BASCULE BRIDGE—  
COUNTERWEIGHT INTERIM REPAIR

drawing title  
titre du dessin

TRAFFIC AND PEDESTRIAN  
CONTROL PLAN — FULL  
CLOSURE

drawn by  
dessiné par J. LEGROS

designed by  
conc par S. DAVIDSON

approved by  
approuvé par M. MANSFIELD

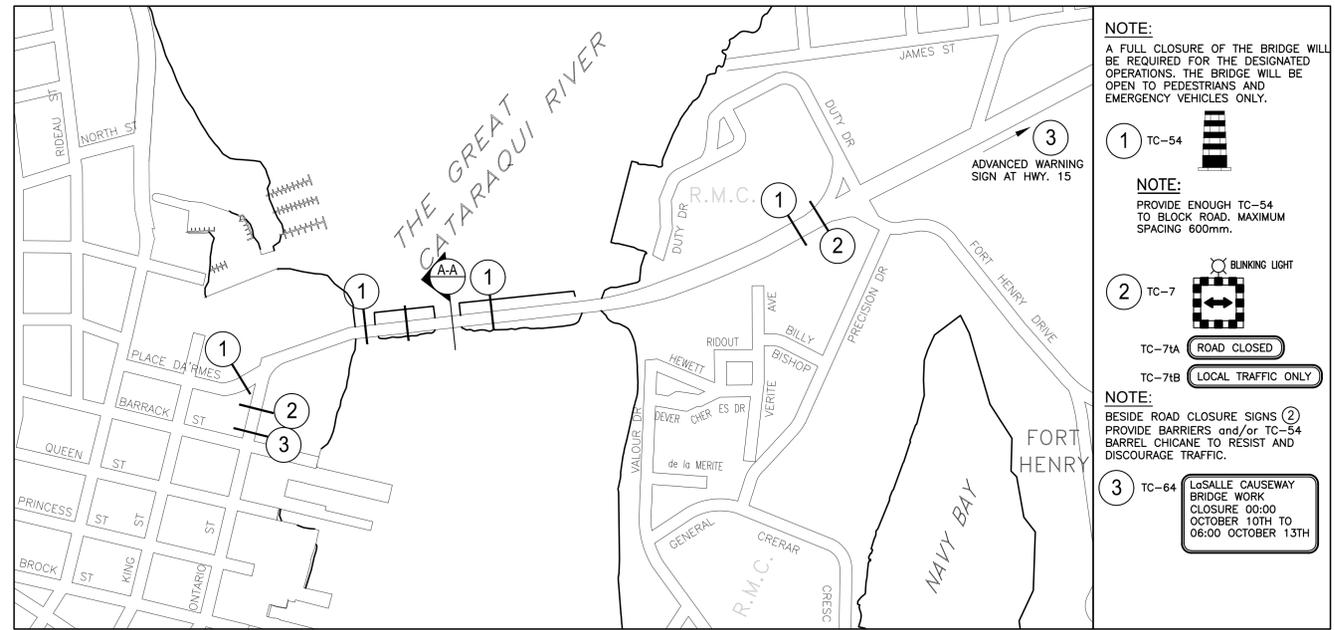
tender  
soumission

project manager  
administrateur de projets

project date  
date du projet 2021/02/10

project no.  
no. du projet R.108246.001

drawing no.  
dessiné no. TCP-3



CAD FILE LOCATION AND NAME: \\1020\1020\2021\02-10-2021\02-10-2021-00-Traffic Control Plan - New title block.dwg  
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