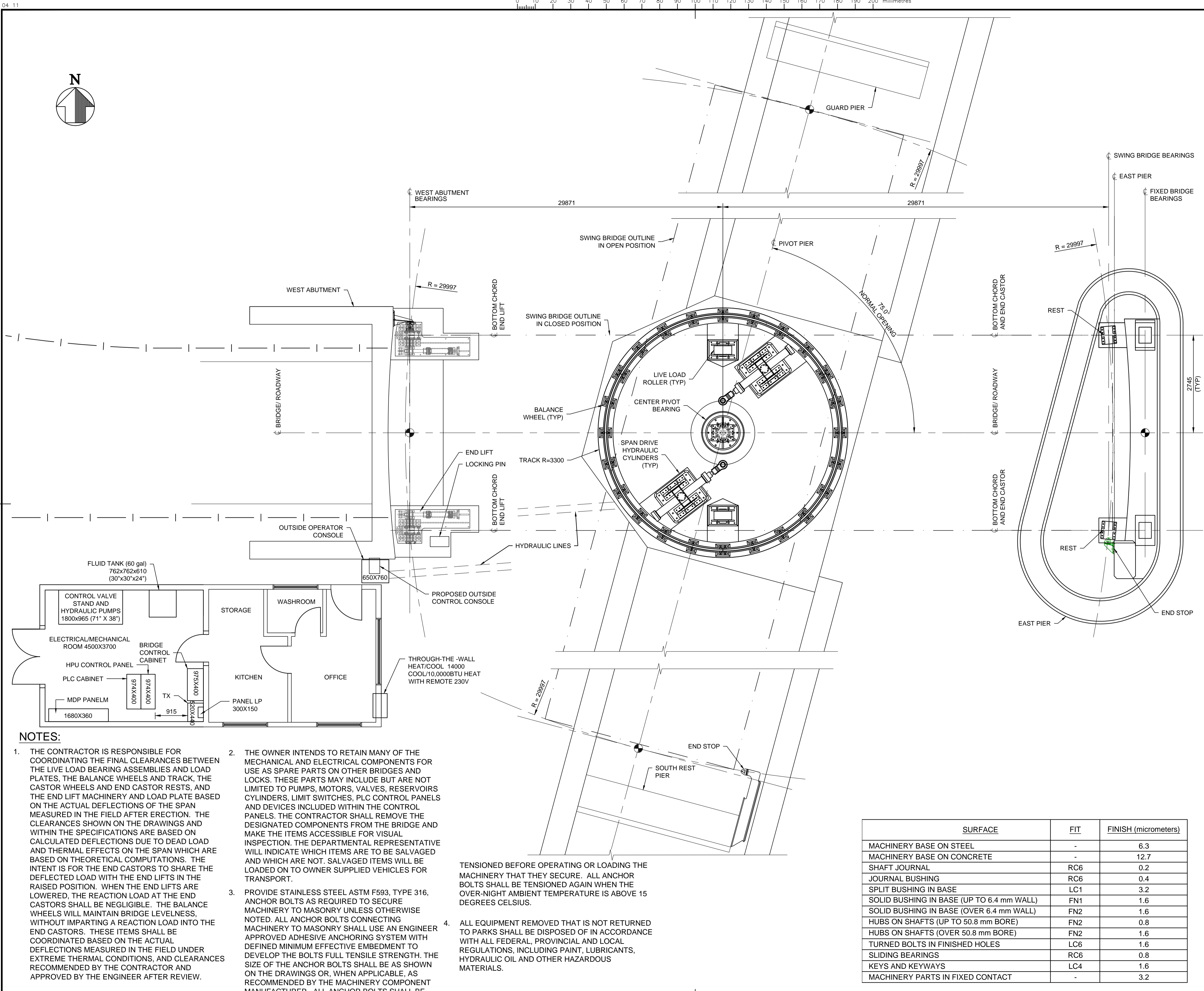


DRAWING NAME: J:\TOR\76122_Hamlet\B7\Drawings\Mechanical Engineering Final Design Drawings (Begins March 23 2018)\M-01.dwg
REVISED BY: AKL
MODIFIED: Jul 21, 2018 - 9:32pm



NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE FINAL CLEARANCES BETWEEN THE LIVE LOAD BEARING ASSEMBLIES AND LOAD PLATES, THE BALANCE WHEELS AND TRACK, THE CASTOR WHEELS AND END CASTOR RESTS, AND THE END LIFT MACHINERY AND LOAD PLATE BASED ON THE ACTUAL DEFLECTIONS OF THE SPAN MEASURED IN THE FIELD AFTER ERECTION. THE CLEARANCES SHOWN ON THE DRAWINGS ARE WITHIN THE SPECIFICATIONS ARE BASED ON CALCULATED DEFLECTIONS DUE TO DEAD LOAD AND THERMAL EFFECTS ON THE SPAN WHICH ARE BASED ON THEORETICAL COMPUTATIONS. THE INTENT IS FOR THE END CASTORS TO SHARE THE DEFLECTED LOAD WITH THE END LIFTS IN THE RAISED POSITION. WHEN THE END LIFTS ARE LOWERED, THE REACTION LOAD AT THE END CASTORS SHALL BE NEGLIGIBLE. THE BALANCE WHEELS WILL MAINTAIN BRIDGE LEVELNESS, WITHOUT IMPARTING A REACTION LOAD INTO THE END CASTORS. THESE ITEMS SHALL BE COORDINATED BASED ON THE ACTUAL DEFLECTIONS MEASURED IN THE FIELD UNDER EXTREME THERMAL CONDITIONS, AND CLEARANCES RECOMMENDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AFTER REVIEW.
2. THE OWNER INTENDS TO RETAIN MANY OF THE MECHANICAL AND ELECTRICAL COMPONENTS FOR USE AS SPARE PARTS ON OTHER BRIDGES AND LOCKS. THESE PARTS MAY INCLUDE BUT ARE NOT LIMITED TO PUMPS, MOTORS, VALVES, RESERVOIRS CYLINDERS, LIMIT SWITCHES, PLC CONTROL PANELS AND DEVICES INCLUDED WITHIN THE CONTROL PANELS. THE CONTRACTOR SHALL REMOVE THE DESIGNATED COMPONENTS FROM THE BRIDGE AND MAKE THE ITEMS ACCESSIBLE FOR VISUAL INSPECTION. THE DEPARTMENTAL REPRESENTATIVE WILL INDICATE WHICH ITEMS ARE TO BE SALVAGED AND WHICH ARE NOT. SALVAGED ITEMS WILL BE LOADED ON TO OWNER SUPPLIED VEHICLES FOR TRANSPORT.
3. PROVIDE STAINLESS STEEL ASTM F593, TYPE 316, ANCHOR BOLTS AS REQUIRED TO SECURE MACHINERY TO MASONRY UNLESS OTHERWISE NOTED. ALL ANCHOR BOLTS CONNECTING MACHINERY TO MASONRY SHALL USE AN ENGINEER APPROVED ADHESIVE ANCHORING SYSTEM WITH DEFINED MINIMUM EFFECTIVE EMBEDMENT TO DEVELOP THE BOLTS FULL TENSILE STRENGTH. THE SIZE OF THE ANCHOR BOLTS SHALL BE AS SHOWN ON THE DRAWINGS OR, WHEN APPLICABLE, AS RECOMMENDED BY THE MACHINERY COMPONENT MANUFACTURER. ALL ANCHOR BOLTS SHALL BE

TENSIONED BEFORE OPERATING OR LOADING THE MACHINERY THAT THEY SECURE. ALL ANCHOR BOLTS SHALL BE TENSIONED AGAIN WHEN THE OVER-NIGHT AMBIENT TEMPERATURE IS ABOVE 15 DEGREES CELSIUS.

ALL EQUIPMENT REMOVED THAT IS NOT RETURNED TO PARKS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, PROVINCIAL AND LOCAL REGULATIONS, INCLUDING PAINT, LUBRICANTS, HYDRAULIC OIL AND OTHER HAZARDOUS MATERIALS.

SURFACE	FIT	FINISH (micrometers)
MACHINERY BASE ON STEEL	-	6.3
MACHINERY BASE ON CONCRETE	-	12.7
SHAFT JOURNAL	RC6	0.2
JOURNAL BUSHING	RC6	0.4
SPLIT BUSHING IN BASE	LC1	3.2
SOLID BUSHING IN BASE (UP TO 6.4 mm WALL)	FN1	1.6
SOLID BUSHING IN BASE (OVER 6.4 mm WALL)	FN2	1.6
HUBS ON SHAFTS (UP TO 50.8 mm BORE)	FN2	0.8
HUBS ON SHAFTS (OVER 50.8 mm BORE)	FN2	1.6
TURNED BOLTS IN FINISHED HOLES	LC6	1.6
SLIDING BEARINGS	RC6	0.8
KEYS AND KEYWAYS	LC4	1.6
MACHINERY PARTS IN FIXED CONTACT	-	3.2



04		
03		
02		
01	ISSUED FOR TENDER	2018-07-20
revision		date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately
notify the Departmental Representative of all discrepancies.

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

project title
titre du projet

Ontario

HAMLET BRIDGE
(BRIDGE 57 & 58)
SWING AND FIXED BRIDGES

drawing title
titre du dessin

MACHINERY LOCATION PLAN
AND NOTES

drawn by dessiné par	GREG TAYLOR	
designed by conc par	JEFF KEYT	
approved by approuvé par	JEFF KEYT	
bid offre	JULIO LEON	project manager administrateur de projets
project date date du projet	2018-07-20	
project no. no. du projet	R.073593.001	
drawing no. dessiné no.	M-01	