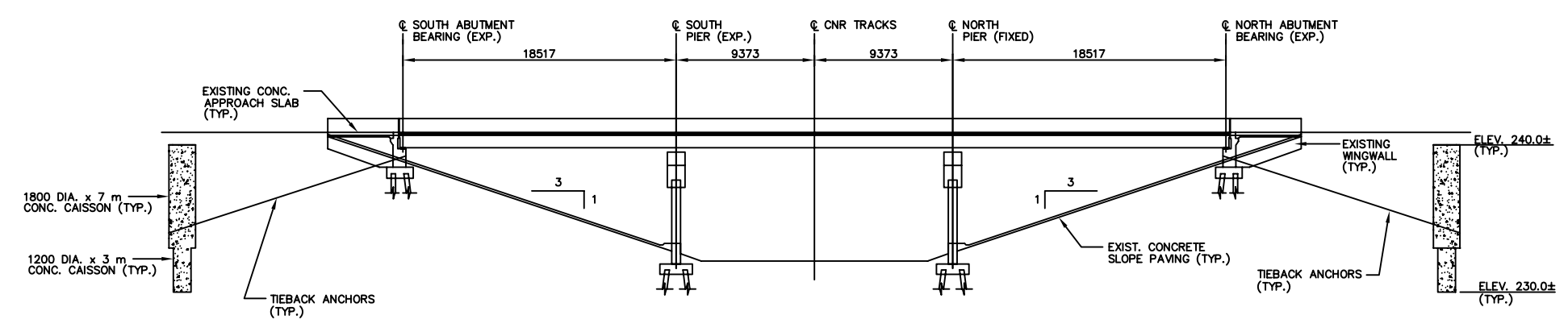


GENERAL ARRANGEMENT
SCALE 1:200

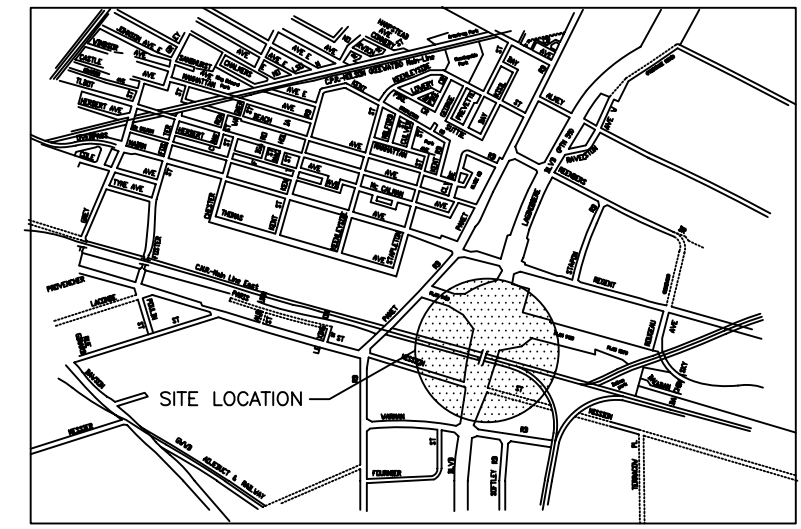
- GENERAL NOTES:**
1. WORK INVOLVES RETIGHTENING ABUTMENT TIE-BACK ANCHORS TO MOVE ABUTMENTS. WORK TO REMOVE OR LESSEN POSSIBLE RESTRAINTS TO MOVEMENTS NOT INCLUDED.
 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WORKS WITH CN RAIL AND OBTAIN ANY REQUIRED PERMISSIONS PRIOR TO COMMENCING CONSTRUCTION. WORK SHOULD NOT EFFECT THEIR OPERATIONS.
 3. VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO COMMENCING WORK.
 4. REPORT ANY UNSOUND CONDITIONS TO THE CONTRACT ADMINISTRATOR IMMEDIATELY.

- TIEBACK ANCHORS:**
1. TIEBACK ANCHORS ARE 26 DIA. DYWIDAG THREADBAR CSA G279-M1982 GRADE 1043 MPa (150 ksi) WITH DOUBLE CORROSION PROTECTION.
 2. DESIGN SERVICE LOAD (UNFACTORED) PER ANCHOR = 160 kN.

- RETIGHTENING SEQUENCE:**
1. REMOVE CORROSION PROTECTION AT ABUTMENT END OF TIEBACK ANCHORS.
 2. ESTABLISH MOVEMENT MONITORING POINTS.
 3. JACK ANCHORS TO DETERMINE EXISTING TENSION.
 4. JACK ANCHORS IN SEQUENCE INDICATED TO 250 kN, MONITORING BAR ELONGATION AND MOVEMENTS.
 5. AFTER 4 HOURS MIN., CHECK AND RECORD. RESET LOAD TO 160 kN.
 6. INSTALL CORROSION PROTECTION AT THE ABUTMENT END OF TIEBACK ANCHORS.



ELEVATION LOOKING WEST
SCALE 1:200



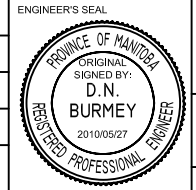
LOCATION PLAN

ITEM NO.	SCOPE OF WORKS
1	RETIGHTEN TIE-BACK ANCHORS (24 THUS)

NOTE:

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

B.M. ELEV.	DESIGNED BY: D.N.B.
	DRAWN BY: M.R.T.
	CHECKED BY: D.N.B.
	APPROVED BY: D.N.B.
	AUTHORIZED BY:
	ORIGINAL SIGNED BY: D.N. BURMEY
0 ISSUED FOR TENDER	27/05/10 M.T.
REVISION	DATE BY



CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

ROUTE 20 TWIN OVERPASS (CNR REDDITT)
BRIDGE ABUTMENT TIE-BACK ANCHOR
RETIGHTENING

GENERAL ARRANGEMENT AND SCOPE OF WORK

SHEET 1 OF 2
HORIZONTAL: N.T.S.
VERTICAL: N.T.S.
CITY DRAWING NUMBER: B122-10-05

BID OPPORTUNITY NO.: 338-2010