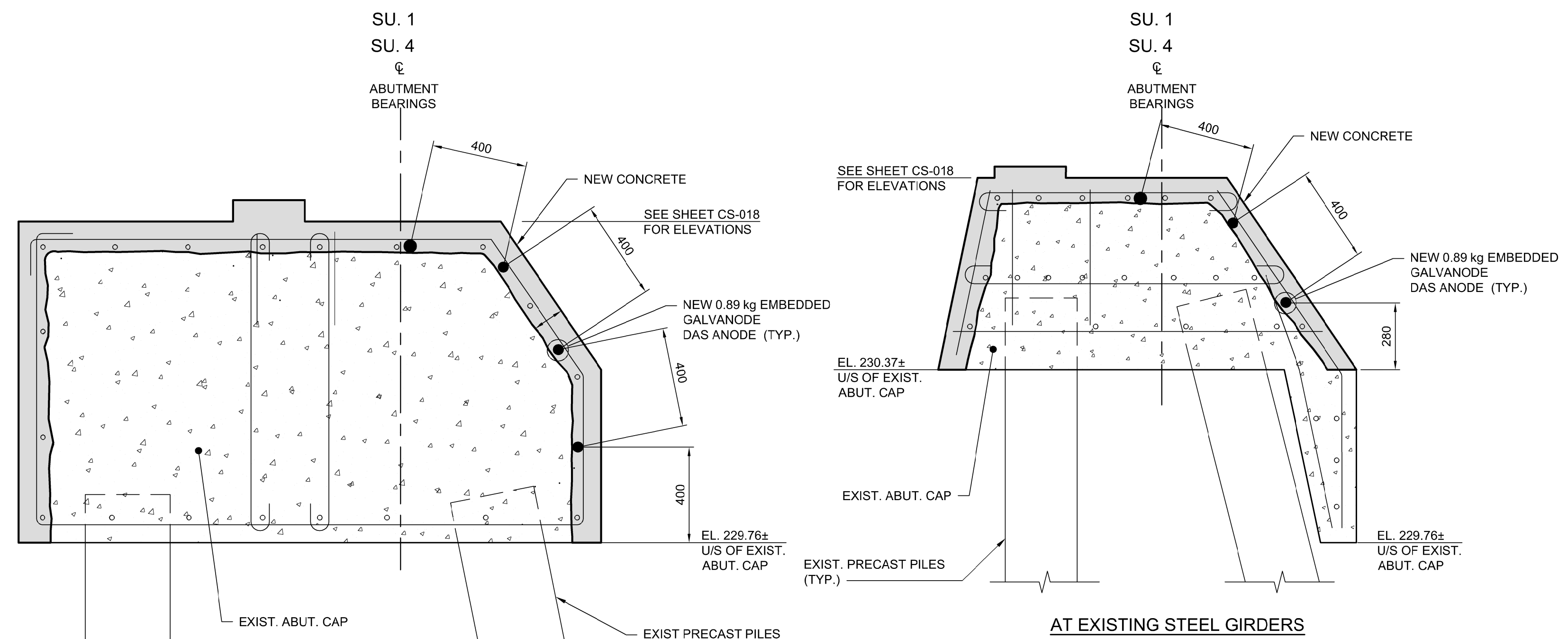


GALVANIC STRIP ANODES INSTALLATION LAYOUT
 1:40
 WEST ABUTMENT CAP SHOWN
 EAST ABUTMENT CAP SIMILAR



- NOTES:**
- THIS DRAWING GENERALLY PROVIDES AN ACCEPTABLE DESIGN FOR A PASSIVE CATHODIC PROTECTION SYSTEM FOR THE EXISTING ABUTMENTS.
 - THE GALVANIC ANODE SUPPLIER SHALL CONFIRM THE TYPE, LENGTH AND SPACING OF THE ANODES TO MEET THE PARAMETERS DEFINED BELOW.
 - THE CONTRACTOR MAY PROPOSE AN ALTERNATE CATHODIC PROTECTION SYSTEM WITH THE FOLLOWING PARAMETERS:
 - MINIMUM 40-YEAR ANODE SERVICE LIFE
 - PROVISION OF A SIMPLE MONITORING SYSTEM COMPLETE WITH A REFERENCE ELECTRODE
 - INSTALLATION:
 - COMPLETE ABUTMENT CONCRETE REMOVALS AND SANDBLASTING OF EXISTING REINFORCING BARS
 - ENSURE ALL EXPOSED EXISTING REINFORCING STEEL IS SECURELY FASTENED TOGETHER WITH TIE WIRE TO PROVIDE GOOD CONTINUITY.
 - SECURE GALVANIC STRIP ANODES TO EXISTING REINFORCING STEEL WITH NYLON CABLE TIES OR AS SPECIFIED BY THE MANUFACTURER.
 - COMPLETE ALL ELECTRICAL CONNECTIONS TO THE MONITORING BOX.
 - COMPLETE ABUTMENT CONCRETE REPAIRS USING A LOW RESISTIVITY SCC MEETING THE SPECIFICATION REQUIREMENTS.
 - THE NEW ANODES SHALL NOT BE IN CONTACT WITH THE EXISTING CONCRETE ABUTMENT. AN AIR GAP OF 15 mm OR THE USE OF A LOW RESISTIVITY BRIDGING MORTAR SHALL BE PROVIDED BETWEEN THE ANODE AND THE EXISTING ABUTMENT CONCRETE.
 - GALVANIC ANODE SUPPLIER SHALL INSPECT THE INSTALLATION OF THE PROTECTION SYSTEM TO ENSURE PROPER INSTALLATION PRIOR TO COMPLETING THE ABUTMENT CONCRETE REPAIRS.

A SECTION
1:15

B SECTION
1:15

APEGM
 Certificate of Authorization
 Dillon Consulting Limited (MB)
 No. 1789 Date: 2018/02/09

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	18/02/09	DRA

DESIGNED BY	DRA	CHECKED BY	SSR
DRAWN BY	NBG	APPROVED BY	MBL
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERTICAL	AS SHOWN	DATE	2018/02/09

ENGINEER'S SEAL
 PROVINCE OF MANITOBA
D.R.C. AMORIM
 Member
 33215
 REGISTERED PROFESSIONAL ENGINEER
 CONSULTANT PROJECT NUMBER
 17-5932

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT

Winnipeg

FERMOR AVENUE BRIDGE OVER SEINE RIVER
 BRIDGE RE-ABILITATION, PEDESTRIAN-CYCLIST UNDERPASS STRUCTURE AND ROADWORKS FROM ST. ANNE'S ROAD TO ARCHIBALD STREET

CITY DRAWING NUMBER
 B-118-2017-CS-019

SHEET
 019 OF 100

CONSULTANT DRAWING NUMBER
 CS-019

ABUTMENT MODIFICATIONS 3 OF 5
 CATHODIC PROTECTION DETAILS

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