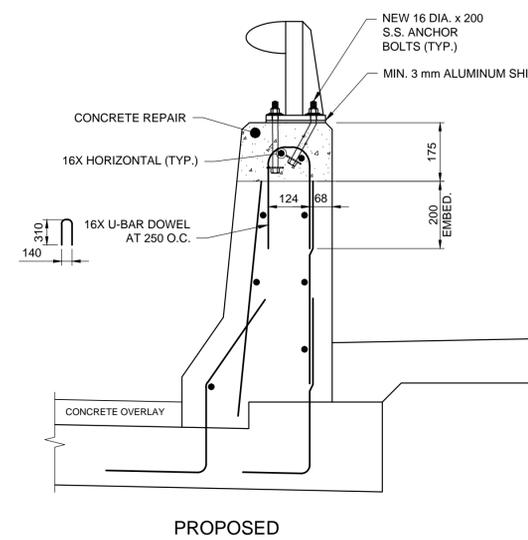
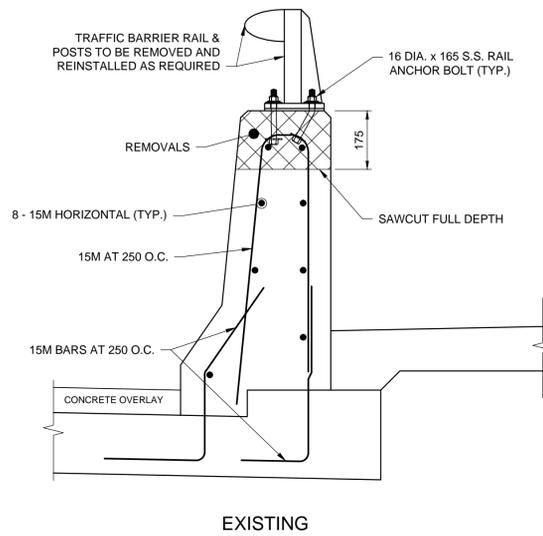
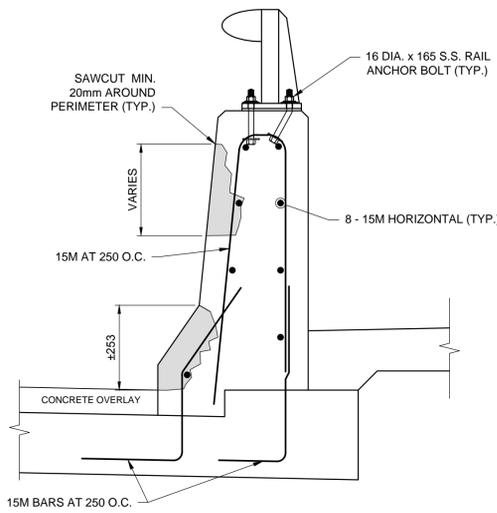


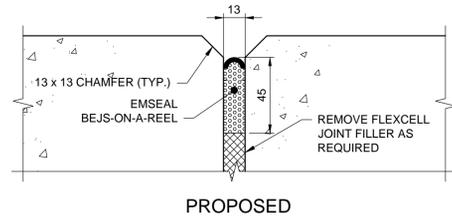
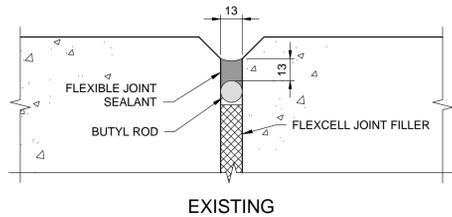
- BARRIER REPAIR METHOD (TYPE 1)**
1. SAWCUT AND REMOVE AFFECTED PORTION OF BARRIER.
 2. INSTALL 16X U-BAR DOWELS WITH MIN. 200 mm EMBEDMENT.
 3. PLACE NEW REINFORCING AS SHOWN.
 4. INSTALL GALVASHIELD XPT - ANODE TYPE 1A CLASS P*
 - 4.1. IN ACCORDANCE WITH MANUFACTURERS GUIDELINES.
 - 4.2. MAX 400 mm O/C.
 5. CLEAN CONCRETE REPAIR AREA AS SPECIFIED.
 6. PLACE NEW BARRIER RAIL POST ANCHOR BOLTS.
 7. APPLY BONDING AGENT TO SURFACES IN CONTACT WITH REPAIR CONCRETE.
 8. PLACE REPAIR CONCRETE.

- BARRIER REPAIR METHOD (TYPE 2)**
1. MIN. 20 mm SAWCUT AROUND PERIMETER OF REPAIR AREA.
 2. REMOVE ALL FRACTURED OR DETERIORATED CONCRETE TO:
 - 2.1. SOUND CONCRETE.
 - 2.1. MIN. 30 mm DEEP, AND
 - 2.2. IF REMOVALS EXCEED HALF DEPTH OF REINFORCING BARS, THEN CONTINUE MIN. 20 mm PAST REINFORCING BARS.
 3. CLEAN CONCRETE REPAIR AREA AS SPECIFIED.
 4. INSTALL GALVASHIELD XPT - ANODE TYPE 1A CLASS P*
 - 4.1. IN ACCORDANCE WITH MANUFACTURERS GUIDELINES.
 - 4.2. MAX 400 mm O/C AROUND PERIMETER OF REPAIR AREA.
 - 4.3. MAX 400 mm O/C GRID PATTERN FOR INTERIOR OF REPAIR AREA.
 5. PLACE REPAIR MATERIAL.

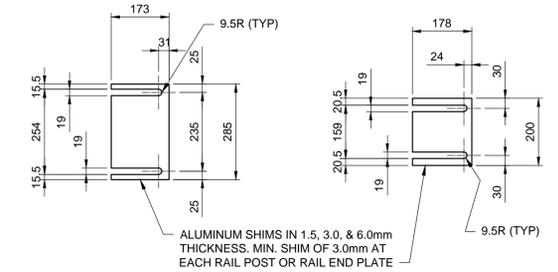
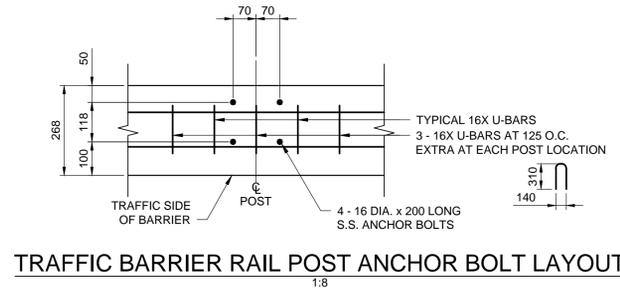
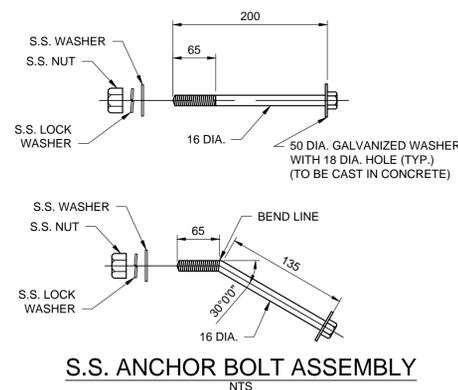
*CONFIRM GALVANIC ANODE LAYOUT WITH CONTRACT ADMINISTRATOR PRIOR TO PLACEMENT OF REPAIR MATERIAL.



- NOTES:**
1. DIMENSIONS SHOWN OF EXISTING BARRIERS ARE APPROXIMATE.
 2. DIMENSIONS SHOWN OF REPAIR AREAS ARE APPROXIMATE. LAYOUT ACTUAL REPAIR AREAS WITH CONTRACT ADMINISTRATOR ON SITE.
 3. SEE SPECIFICATION FOR REPAIR PREPARATION & CONCRETE REPLACEMENT DETAILS.
 4. ALL REINFORCING BARS FOR CONCRETE REPAIR WORKS SHALL BE #16 CHROMX 9000 BARS SHOWN AS 16X.
 5. CURB LANE BARRIER REPAIRS SHOWN. MEDIAN LANE BARRIER REPAIRS SIMILAR.



CONCRETE BARRIER JOINT REPAIR
1:2



- NOTES:**
1. A COMBINATION OF 1.5, 3.0, AND/OR 6.0mm THICK ALUMINUM RAIL POST OR END PLATE SHIMS ARE TO BE USED AS REQUIRED TO SET THE BARRIER RAIL TO THE SPECIFIED HEIGHT. (MINIMUM 3.0mm SHIM REQUIRED AT EACH POST OR PLATE).
 2. BOTTOM SURFACE OF SHIM (SURFACE IN CONTACT WITH CONCRETE) IS TO BE PAINTED WITH TWO COATS OF ALKALI RESISTANCE BITUMINOUS PAINT, EACH COAT BEING 1mm IN THICKNESS.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

APEGM
Certificate of Authorization
Dillon Consulting Limited (MB)
No. 1789 Date: February 25, 2017

B.M. ELEV.	DESIGNED BY DRA		ENGINEER'S SEAL
	DRAWN BY KB		
	CHECKED BY SSR		
	APPROVED BY RJT		2017 BRIDGE MAINTENANCE - MIDTOWN BRIDGE & ST. VITAL BRIDGE REPAIRS
	HOR. SCALE -		CITY DRAWING NUMBER B114-17-02
0 ISSUED FOR TENDER	DATE 02/25/17	BY RJT	SHEET 02 OF 17
NO. REVISIONS	DATE	DATE FEBRUARY 24, 2017	CONSULTANT DRAWING NUMBER --

RELEASED FOR CONSTRUCTION	CONSULTANT PROJECT NUMBER 17-5199
MIDTOWN BARRIER REPAIR DETAILS	