

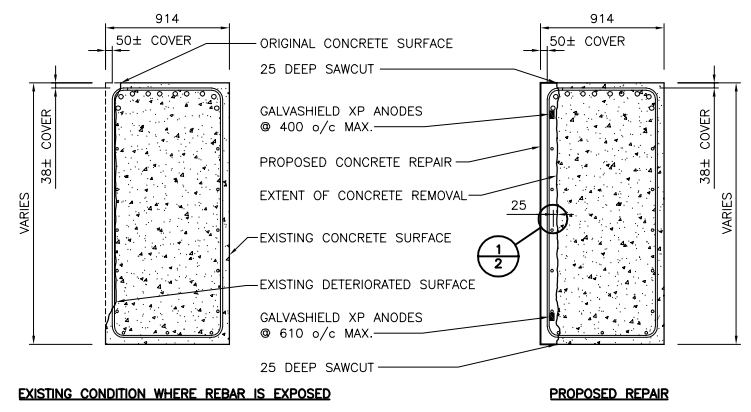
**EXISTING PIER No.8**

**NOTE:**  
 [Hatched Area] - DESIGNATED SURFACE REPAIR AREA  
 TOTAL REPAIR AREA APPROX. 64m<sup>2</sup>  
 [White Area] - MECHANICALLY SOUND CONCRETE

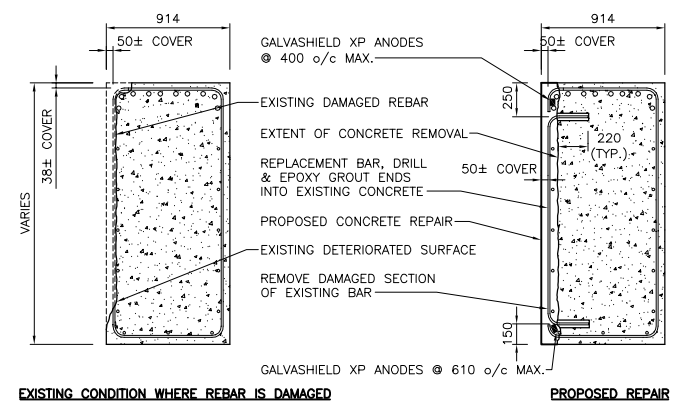
- NOTES:**
- GENERAL**
- REMOVE CONCRETE WITHIN DESIGNATED SURFACE REPAIR AREAS TO MIN. 25mm BEYOND INNERMOST LAYER OF REINFORCEMENT. VERIFY EXTENT OF REPAIR AREAS WITH CONTRACT ADMINISTRATOR ON SITE.
  - DEPENDING UPON THE DEPTH OF THE CONCRETE REMOVAL, THE CONTRACT ADMINISTRATOR MAY REQUEST TEMPORARY SHORING TO BE DESIGNED AND INSTALLED BY THE CONTRACTOR FOR THE CANTILEVER PORTIONS OF THE PIER.
  - FILL IN EXISTING CORE HOLES WITH NON-SHRINK GROUT.
  - LOCATIONS AND CLEAR COVER OF EXISTING REINFORCING STEEL AREA APPROXIMATE ONLY, BASED ON ORIGINAL BRIDGE DRAWINGS. THE CONTRACTOR SHALL DETERMINE ACTUAL REINFORCING STEEL GEOMETRY ON SITE.
  - DO NOT DE-BOND TOP LONGITUDINAL BARS UNLESS APPROVED BY THE CONTRACT ADMINISTRATOR.
  - AFTER REPAIRS AND ANODE INSTALLATIONS ARE COMPLETE, ALL PIER SURFACES SHALL RECEIVE PIGMENTED CONCRETE SEALER.

- EMBEDDED ANODE INSTALLATION FOR CONCRETE SURFACE REPAIRS:**
- ANODES SHALL BE GALVASHIELD XP OR EQUIVALENT.
  - REPLACE / CLEAN CORRODED REINFORCING STEEL.
  - ENSURE ALL EXPOSED REINFORCING STEEL IS SECURELY FASTENED TOGETHER WITH THE WIRE TO PROVIDE GOOD CONTINUITY.
  - ATTACH GALVASHIELD XP ANODES TO CLEAN REINFORCING STEEL AT SPACING OUTLINED IN CONTRACT SPECIFICATION (MAX. 610, EXCEPT TOP SURFACE OF PIER AND SIDE FACES WITHIN 300mm OF TOP SPACE AT MAX. 400mm).
  - FILL IN REPAIR AREA WITH CONCRETE AS PER CONTRACT SPECIFICATION.

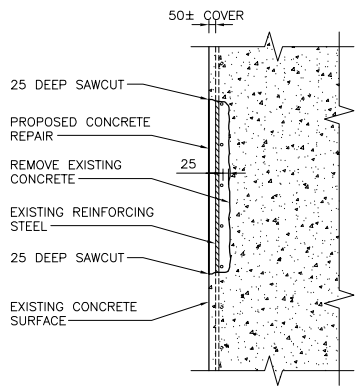
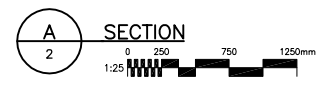
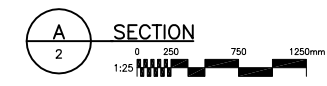
- EMBEDDED ANODE INSTALLATION IN MECHANICALLY SOUND CONCRETE:**
- ANODES SHALL BE GALVASHIELD CC OR EQUIVALENT.
  - DRILL OR CHIP HOLE FOR REINFORCING STEEL CONNECTION.
  - DRILL HOLE FOR ANODE PLACEMENT.
  - MAKE SAWCUT FOR WIRE CONNECTION AS REQUIRED.
  - CONNECT WIRE LEAD TO REINFORCING WITH HOSE CLAMP OR EXPANSION SET LEAD PLUG.
  - ENSURE ALL CONNECTIONS OF DISSIMILAR METALS ARE COATED WITH SILICONE TO PREVENT CORROSION.
  - INSTALL ANODE AND GROUT HOLES AND SAWCUT.



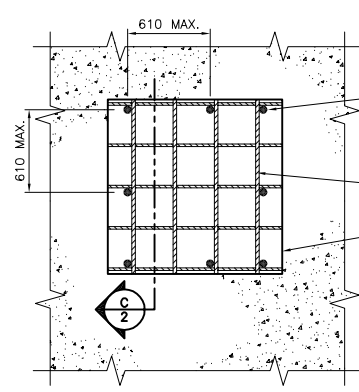
**EXISTING CONDITION WHERE REBAR IS EXPOSED**      **PROPOSED REPAIR**



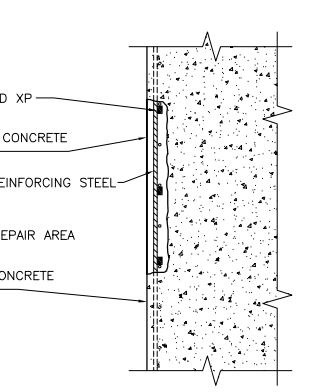
**EXISTING CONDITION WHERE REBAR IS DAMAGED**      **PROPOSED REPAIR**



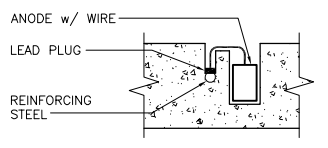
**SECTION B AT LOCALIZED SURFACE REPAIR**



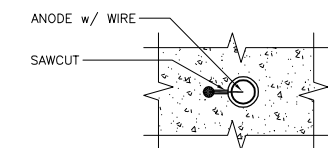
**GALVASHIELD XP DETAIL**



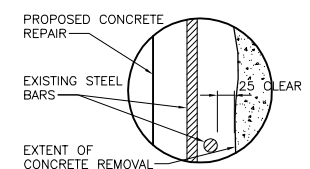
**SECTION C 2**



**TYPICAL LEAD PLUG REINFORCING CONNECTION**  
N.T.S.



**TYPICAL HOSE CLAMP REINFORCING CONNECTION**  
N.T.S.



**SECTION 1 2 DETAIL**  
1:5

**APECM**  
 Certificate of Authorization  
 Stantec Consulting Ltd.  
 No. 1301 Expiry: April 30, 2005

<b>LOCATION APPROVED UNDERGROUND STRUCTURES</b> SUPV. U/G STRUCTURES COMMITTEE DATE NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	B.M. ELEV.	<b>Stantec Consulting Ltd.</b> 905 Waverley Street, Winnipeg, Manitoba Tel 204-489-5900 Fax 204-453-9012	ENGINEER'S SEAL ORIGINAL SEALED BY M.J. BOISSONNEAULT P. ENG. 04/05/11	<b>THE CITY OF WINNIPEG</b> PUBLIC WORKS DEPARTMENT <b>Winnipeg</b> <b>ENGINEERING DIVISION</b> <b>DISRAELI OVERPASS</b> SUBSTRUCTURE REHABILITATION <b>PIER 8 REHABILITATION WORKS</b>	SHEET OF <b>2</b> OF <b>4</b> CAD FILE DRAWING NUMBER COW-5-615 CITY DRAWING NUMBER <b>B112-04-05</b>
	NO. REVISIONS    DATE    BY		DESIGNED BY: K.S.B. CHECKED BY: M.J.B. DRAWN BY: J.M.B. APPROVED BY: M.J.B. HOR. SCALE: AS SHOWN VERTICAL: ACCEPTED BY:		CONSULTANT DRAWING NO. <b>COW-5-615</b>

V:\117\winn\11720070 - Disraeli Overpass Rehab\Coord\03 - Revised Set - 04/10/04\5-615.dwg  
 2004-05-11 04:01PM By: jhannons