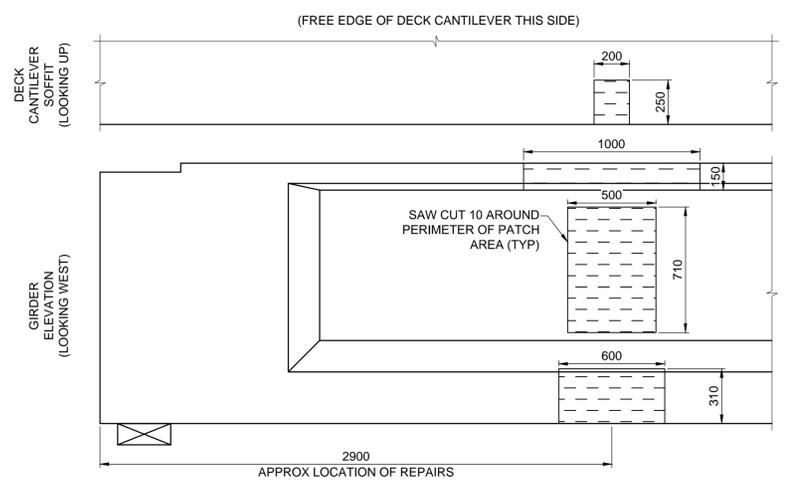


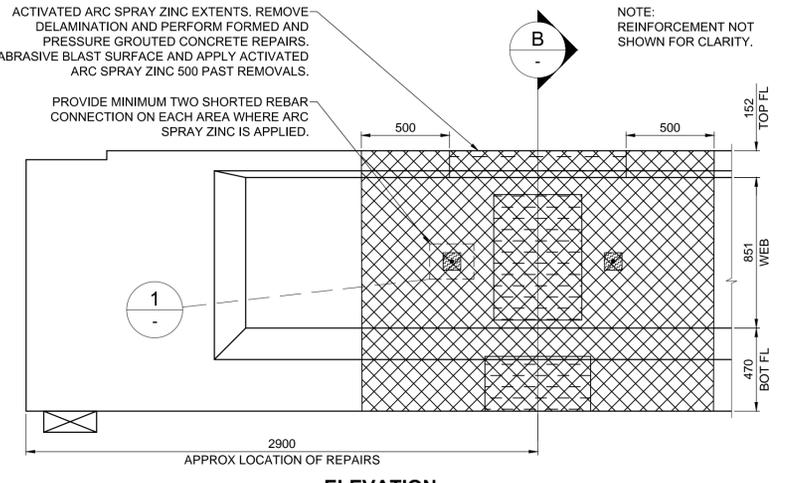
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FILE NAME: 5160850 Bridge works details.dwg, Saved By: aqilarski



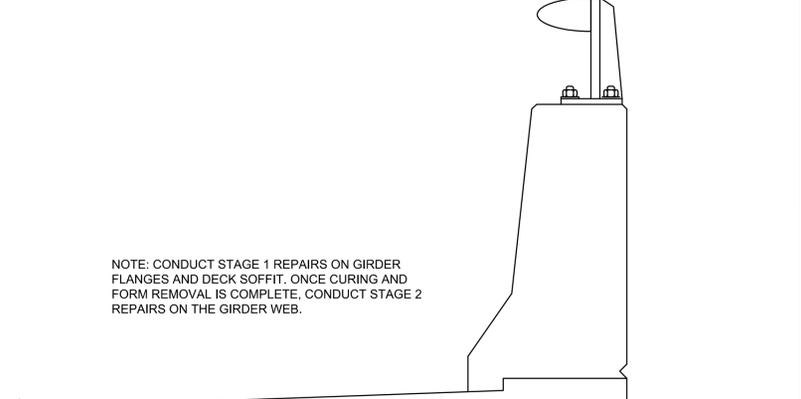
ELEVATION
TYPE 9 EXISTING CONDITIONS - MAP OF DELAMINATION ON EXTERNAL SIDE OF GIRDER W1-2 No.7
SCALE: 1:20



DELAMINATION AND CORROSION ON DECK CANTILEVER AND EXTERIOR SIDE OF TOP FLANGE AND WEB ON GIRDER W1-2 No.7



ELEVATION
TYPE 9 - PROPOSED DELAMINATION REPAIR ON EXTERNAL SIDE OF GIRDER W1-2 No.7
SCALE: 1:20 1 LOCATION



SECTION - REPAIR OF GIRDER W1-2 No.7
SCALE: 1:10

NOTE: CONDUCT STAGE 1 REPAIRS ON GIRDER FLANGES AND DECK SOFFIT. ONCE CURING AND FORM REMOVAL IS COMPLETE, CONDUCT STAGE 2 REPAIRS ON THE GIRDER WEB.

REMOVE DELAMINATION MIN 20 MM PAST MILD REINFORCEMENT TO PROVIDE ANCHORAGE FOR PATCH

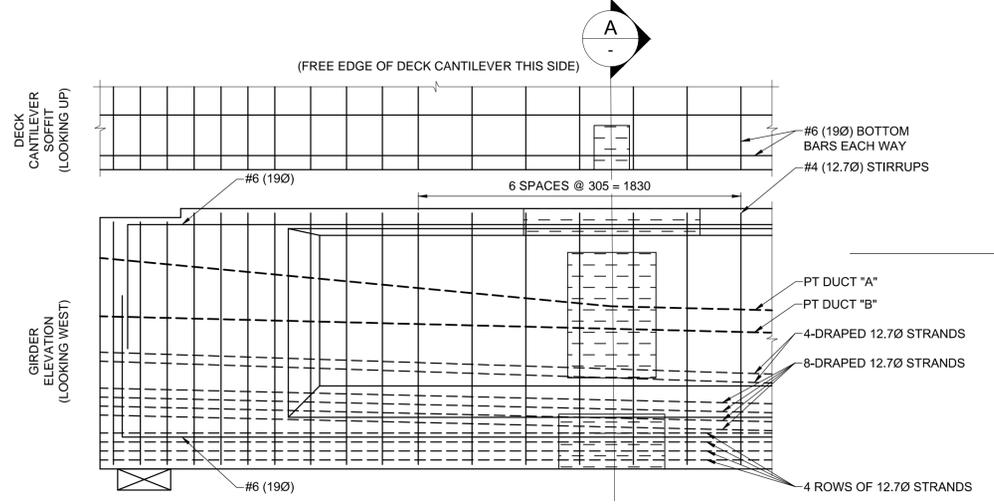
REFER TO REMOVAL NOTES SHEET 02 FOR LIMITS ON REMOVAL EXTENTS

LIMITS OF ARC SPRAY ZINC CATHODIC PROTECTION

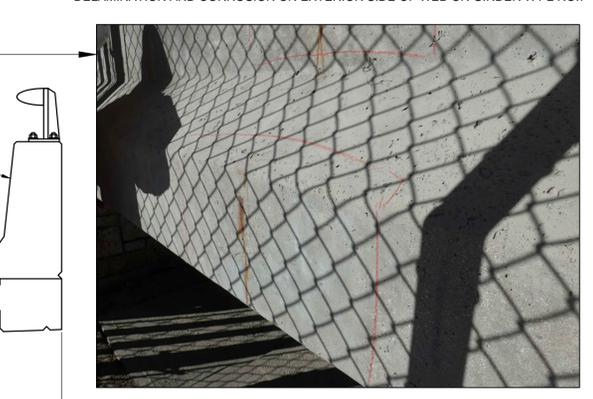
9.5Ø X 75 LONG SS THREADED ROD EMBED WITH EPOXY ADHESIVE SUCH THAT AT 20 TO 25 MM OF CONCRETE COVER IS ACHIEVED. DRILL 3Ø HOLE 6 MM FROM END OF ROD TO PROVIDE ANCHORAGE FOR TIE WIRE FOR TYING WELDED WIRE MESH TO RODS. PROVIDE ONLY AT LOCATIONS WHERE EXISTING MILD STEEL REINFORCEMENT IS NOT PRESENT WITHIN 250 MM TO PROVIDE ANCHORAGE FOR WELDED WIRE REINFORCEMENT.

102 X 102 MW9.1/MW9.1 STAINLESS STEEL WELDED WIRE MESH CUT TO FIT REPAIR AREA, PLACED AT MID-THICKNESS OF PATCH REPAIR. TIE MESH TO EXISTING REINFORCEMENT OR THREADED ROD ANCHORS WITH STAINLESS STEEL WIRE.

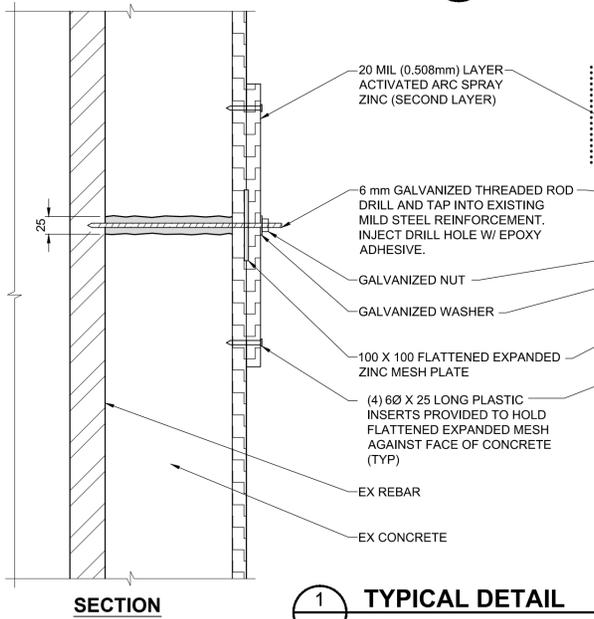
9.5Ø X 75 LONG SS THREADED ROD EMBED WITH EPOXY ADHESIVE SUCH THAT 20 TO 25 MM OF CONCRETE COVER IS ACHIEVED. DRILL 3Ø HOLE 6 MM FROM END OF ROD TO PROVIDE ANCHORAGE FOR TIE WIRE FOR TYING WELDED WIRE MESH TO RODS. PROVIDE ONLY AT LOCATIONS WHERE EXISTING MILD STEEL REINFORCEMENT IS NOT PRESENT WITHIN 250 MM TO PROVIDE ANCHORAGE FOR WELDED WIRE REINFORCEMENT.



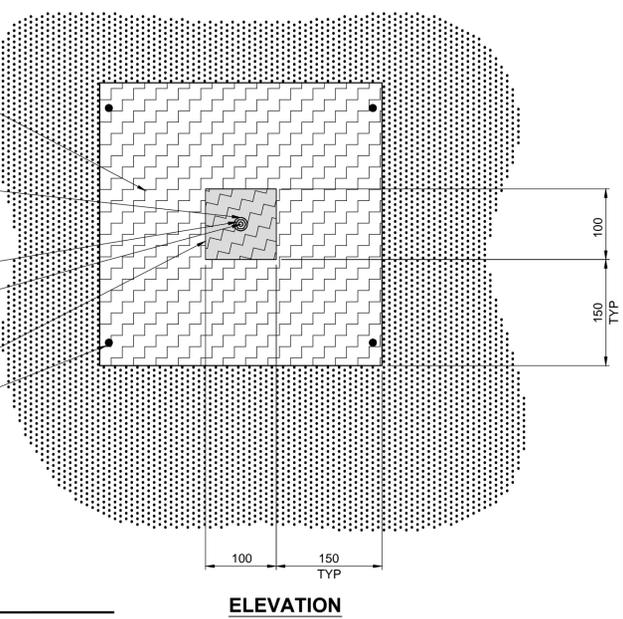
ELEVATION
REINFORCEMENT OF GIRDER W1-2 No.7
SCALE: 1:20



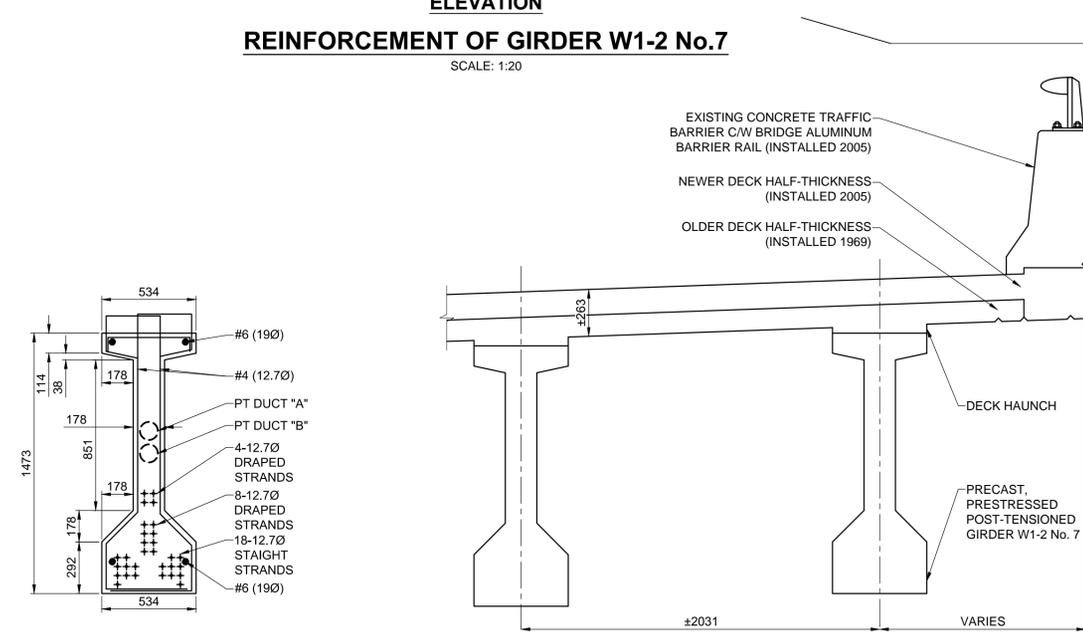
DELAMINATION AND CORROSION ON EXTERIOR SIDE OF BOTTOM FLANGE ON GIRDER W1-2 No.7



SECTION
1 TYPICAL DETAIL
SCALE: N.T.S.



ELEVATION



PARTIAL DECK SECTION
SCALE: 1:20

A SECTION - GIRDER W1-2 No.7
SCALE: 1:20

DRAWING NOTE: SEE SHEET 03 FOR DETAILS OF END GIRDER AND END DIAPHRAGM REINFORCEMENT.

LEGEND	
	DELAMINATION
	CONCRETE REPAIR
	SPALL
	ARC SPRAY ZINC EXTENTS

**ENGINEERS
GEOSCIENTISTS**
MANITOBA
Certificate of Authorization
MORRISON HERSHFIELD
No. 1736

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

LOCATION APPROVED UNDERGROUND STRUCTURES

BM ELEV

DESIGNED BY AGG CHECKED BY DAN

DRAWN BY MS APPROVED BY BE

HOR SCALE AS SHOWN

VERT SCALE AS SHOWN

1 ISSUED FOR TENDER 17/05/12 DAN

No. REVISIONS YYMMDD BY 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.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR TENDER	17/05/12	DAN

MORRISON HERSHFIELD

PROFESSIONAL'S SEAL

D.A. NEILSON
ORIGINAL SIGNED
17/05/12
37248

CONSULTANT FILE NAME
5160850 Bridge works details.dwg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

MARYLAND TWIN BRIDGES
2017 MAINTENANCE WORKS

MAINTENANCE WORKS DETAILS IV

CITY DRAWING NUMBER
B108-17-07

SHEET 07 OF 07

DRAWING No. REV
07 1

BID OPPORTUNITY No. 377-2017