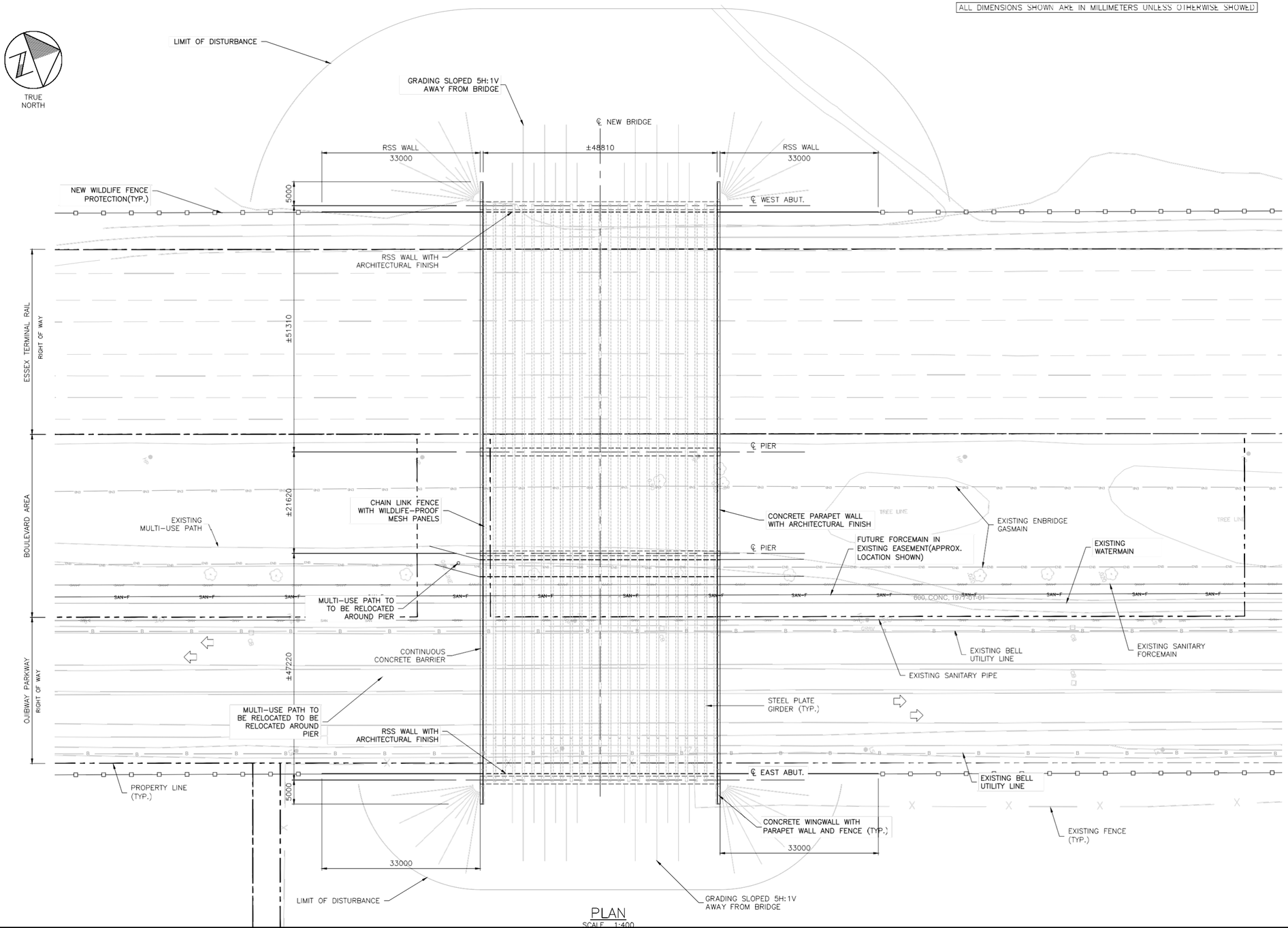
APPENDIX

G

General Arrangement Drawings

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE SHOWED



PLAN
SCALE 1:400

No.	DATE	BY	REVISIONS	MAN	CAD

APPROVALS

Municipal	Regional
Engineer	Engineer
Date	Date

Design	N.K.	Checked	N.K.
Drawn	M.E./N.H.	Checked	M.G.
Scale	AS SHOWN		
Date	MAY 2024		

CITY OF WINDSOR
OJIBWAY PARKWAY WILDLIFE CROSSING STRUCTURE

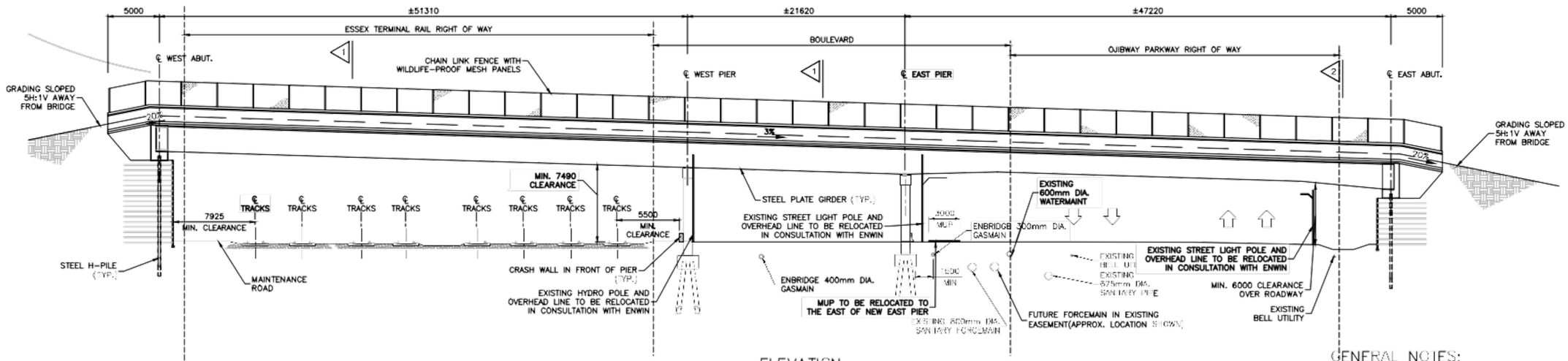
PRELIMINARY GENERAL ARRANGEMENT I PREFERRED DESIGN

wsp

Contract No. XX - XX
Consultant File No. IM20104013
Drawing No. SHEET S1 OF S2

AutoCAD drawing: C:\Users\cdp127529\OneDrive - WSP O365\Desktop\New folder\IM20104013-Concept Design 3_updated APR 2024 - Copy.dwg Jun 11/24 9:17am cdp127529

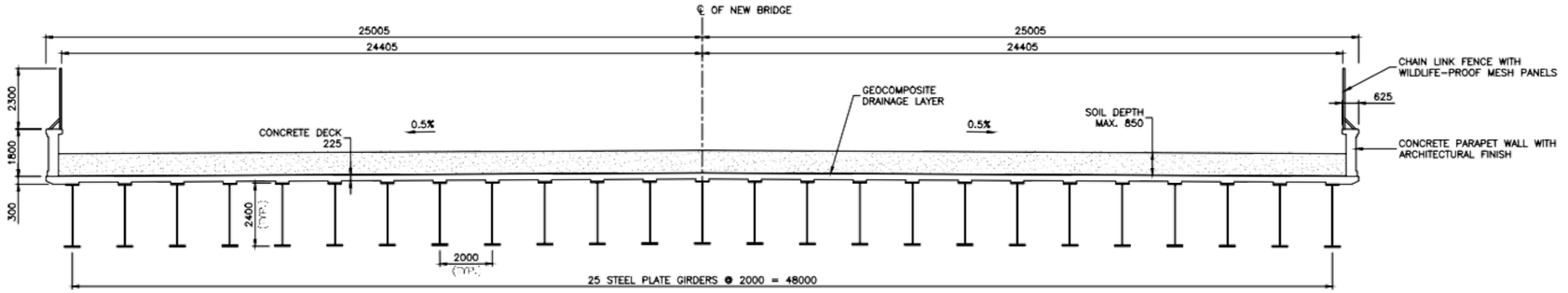
ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE STATED



ELEVATION

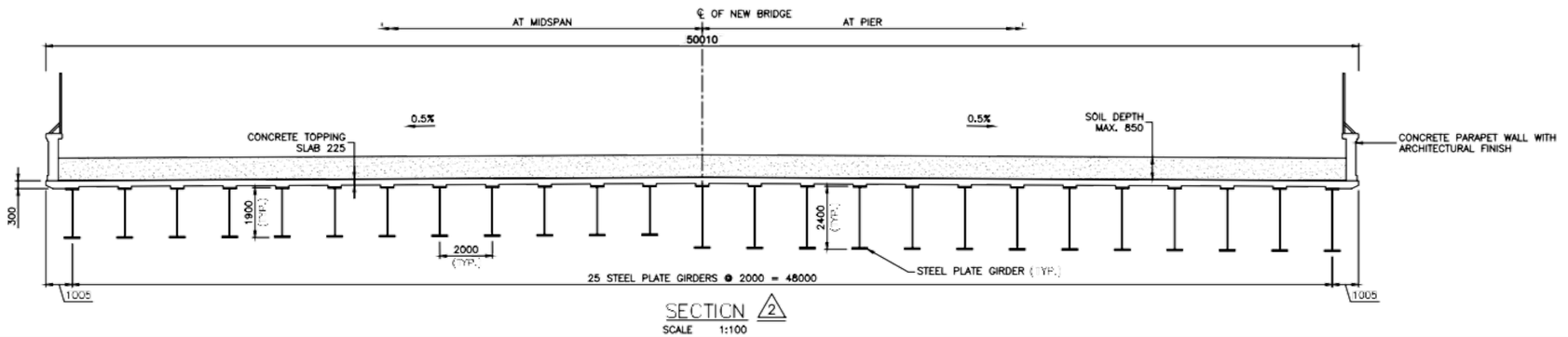
SCALE 1:100

*UTILITIES SHOWN ALONG ℄ NEW BRIDGE. IN APPROXIMATE LOCATIONS



SECTION 1

SCALE 1:100



SECTION 2

SCALE 1:100

GENERAL NOTES:

1. CLASS OF CONCRETE:
   - N ..... 35 MPa.
   - UNLESS OTHERWISE SPECIFIED.
2. CLEAR COVER TO REINFORCING STEEL:
   - DECK : TOP ..... 70±20
   - BOTTOM ..... 40±10
   - FOOTING ..... 100±25
   - REMAINDER ..... 70±20
   - UNLESS OTHERWISE SPECIFIED.
3. REINFORCING STEEL:
   - REINFORCING STEEL SHALL BE GRADE 400W UNLESS OTHERWISE SPECIFIED.
   - STAINLESS REINFORCING STEEL SHALL BE TYPE 316LN, OR DUPLEX 2205 AND HAVE A MINIMUM YIELD STRENGTH OF 500 MPa. UNLESS OTHERWISE SPECIFIED. BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.
   - TENSION LAP LENGTHS NOT INDICATED ON THE CONTRACT DRAWINGS SHALL BE CLASS B.
   - GLASS FIBER REINFORCED POLYMER REINFORCING BARS SHALL BE GRADE III AS SPECIFIED IN THE CONTRACT DRAWINGS. THE NOMINAL DIAMETER, TENSILE MODULUS OF ELASTICITY AND AND GUARANTEED MINIMUM TENSILE STRENGTH SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS.
     - BAR MARKS WITH A PREFIX GIII DENOTES GRADE III GLASS FIBRE REINFORCED POLYMER BARS.
   - BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12-1 UNLESS INDICATED OTHERWISE.
4. ROADWAY PROTECTION SYSTEMS SHALL BE DESIGNED FOR PERFORMANCE LEVEL 2.

CONSTRUCTION NOTES:

1. NO BACKFILL SHALL BE PLACED UNTIL CONCRETE IN THE DECK HAS REACHED A STRENGTH OF 25 MPa.
2. BACKFILL SHALL BE PLACED SIMULTANEOUSLY BEHIND BOTH ABUTMENTS, KEEPING THE HEIGHT OF THE BACKFILL APPROXIMATELY THE SAME. AT NO TIME SHALL THE DIFFERENCE IN ELEVATION BE GREATER THAN 500mm.

STRUCTURAL STEEL NOTES:

1. ALL STRUCTURAL STEEL FOR PRIMARY MEMBER SHALL CONFORM TO CSA STANDARD CAN/CSA-G40.20/G40.21 GRADE 350WT. THE CHARPY IMPACT ENERGY REQUIREMENTS SHALL BE 27 JOULES AND THE TEST TEMPERATURE SHALL BE -20° C. SECONDARY MEMBERS SHALL CONFORM TO CSA STANDARD CAN/CSA-G40.20/G40.21 GRADE 350W.
2. BOLTS ON COATED STEEL SHALL BE GALVANIZED ASTM A325M TYPE 1, M22. BOLTS THREADS SHALL BE EXCLUDED FROM THE SHEAR PLANES.
3. STUD SHEAR CONNECTORS SHALL BE 22mm DIA. AND CONFORM TO ASTM STANDARD A108 AND CSA W59.
4. STRUCTURAL STEEL SHALL BE METALLIZED OR GALVANIZED AS PER CONTRACT SPECIFICATIONS.
5. CONTRACTOR SHALL ENSURE THE STABILITY OF ALL COMPONENTS DURING ERECTION, TRANSPORTATION AND ERECTION AND UNTIL THE STRUCTURAL STEEL IS IN ITS FINAL LOCATION WITH ALL PERMANENT BRACING, CONNECTIONS AND SUPPORTS IN PLACE AND THE CONCRETE IN THE DECK HAS REACHED 75% OF ITS SPECIFIED STRENGTH.

No.	DATE	BY	REVISIONS	MAN	CAD

APPROVALS					
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Engineer		Engineer			
Date		Date			

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Drawn	M.E./N.H.	Checked	M.G.
Scale	AS SHOWN		
Date	MAY 2024		

CITY OF WINDSOR
OJIBWAY PARKWAY WILDLIFE CROSSING STRUCTURE

PRELIMINARY GENERAL ARRANGEMENT II PREFERRED DESIGN

wsp

Contract No. XX - XX
Consultant File No. IM20104013
Drawing No. SHEET S2 OF S2

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