

D SIZE 22" x 34" (559mm x 864mm)

LIST OF DRAWINGS

GENERAL DRAWINGS

Table with 2 columns: Drawing ID (B113-05-01 to B113-05-06) and Description (COVER SHEET AND LOCATION PLAN, DESIGN DATA AND DRAWING LIST, etc.)

SUBSTRUCTURES - ABUTMENTS AND PIERS

Table with 2 columns: Drawing ID (B113-05-07 to B113-05-19) and Description (WEST ABUTMENT EXISTING ELEVATIONS, PLANS, SECTIONS, AND DETAILS, etc.)

BEARINGS

Table with 2 columns: Drawing ID (B113-05-20 to B113-05-24) and Description (BEARING LAYOUT PLAN AND BEARING DETAILS, WEST AND EAST ABUTMENTS BEARING DETAILS, etc.)

SUPERSTRUCTURE - END FLOOR BEAMS, SIDEWALK BRACKETS

Table with 2 columns: Drawing ID (B113-05-25 to B113-05-39) and Description (BRIDGE END FLOOR BEAM REPLACEMENT KEY PLAN, BRIDGE SECTION - SPAN 1 WEST END FLOOR BEAM DETAILS, etc.)

BRIDGE DECK, SIDEWALKS, DECK DRAINS, EXPANSION JOINTS AND WEST APPROACH SLAB

Table with 2 columns: Drawing ID (B113-05-40, B113-05-41) and Description (SPAN 1, 2 AND 3 DECK SLAB REINFORCING DETAILS, SPAN 4 AND 5 DECK SLAB REINFORCING DETAILS)

Table with 2 columns: Drawing ID (B113-05-42 to B113-05-49) and Description (DECK SLAB REINFORCING DETAILS I, DECK SLAB REINFORCING DETAILS II, etc.)

BRIDGE SHOULDER BARRIER, PEDESTRIAN RAILINGS AND ACCESS LADDERS

Table with 2 columns: Drawing ID (B113-05-50 to B113-05-57) and Description (NORTH ALUMINUM BRIDGE SHOULDER BARRIER POST LAYOUT ELEVATIONS, SOUTH ALUMINUM BRIDGE SHOULDER BARRIER POST LAYOUT ELEVATIONS, etc.)

SURFACE PREPARATION AND COATING OF EXISTING STRUCTURAL STEEL

Table with 2 columns: Drawing ID (B113-05-58, B113-05-59) and Description (SURFACE PREPARATION AND COATING OF EXISTING STRUCTURAL STEEL OPTION I, SURFACE PREPARATION AND COATING OF EXISTING STRUCTURAL STEEL OPTION II)

MISCELLANEOUS REPAIRS

Table with 2 columns: Drawing ID (B113-05-60) and Description (MISCELLANEOUS BRIDGE REPAIRS PLAN, SECTIONS AND DETAILS)

REINFORCING SCHEDULES

Table with 2 columns: Drawing ID (B113-05-61 to B113-05-68) and Description (WEST ABUTMENT REINFORCING STEEL SCHEDULE, WEST ABUTMENT AND EAST ABUTMENT REINFORCING STEEL SCHEDULE, etc.)

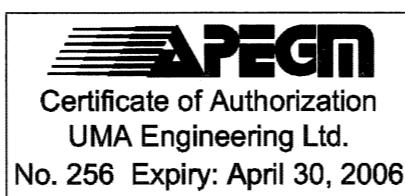
ELECTRICAL

Table with 2 columns: Drawing ID (B113-05-69) and Description (ELECTRICAL PLAN, SECTIONS AND DETAILS)

ROADWORKS

Table with 2 columns: Drawing ID (B113-05-70 to B113-05-74) and Description (WEST APPROACH PAVEMENT RECONSTRUCTION REMOVALS, HORIZONTAL & VERTICAL ALIGNMENT 0+100 TO WEST EXPANSION JOINT, EAST APPROACH PAVEMENT RESURFACING REMOVALS, HORIZONTAL & VERTICAL ALIGNMENT EAST EXPANSION JOINT TO 0+500, etc.)

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES



DESIGN DATA

DESIGN SPECIFICATIONS

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 1998, 2ND EDITION PLUS 2002 INTERIMS

LIVE LOADING

36500 Kg G.V.W. END-DUMP BULK TRUCK

CONCRETE

f_c = 35 MPa SUPERSTRUCTURE f_c = 30 MPa SUBSTRUCTURE

REINFORCING STEEL

CSA G30.18 - M92, GRADE 400W ALL REINFORCING STEEL WITH SUFFIX "G" IS GALVANIZED

Table with 2 columns: Description (CLEAR COVER TO REINFORCING STEEL, TOP OF BRIDGE DECK, U/S BRIDGE DECK, etc.) and Value (50mm, 60mm, 25mm, etc.)

WELDED FABRIC WIRE:

G30.5-M1983 (R1998) ALL WELDED FABRIC WIRE IS GALVANIZED

ALUMINUM BRIDGE SHOULDER BARRIER RAILS AND POSTS

ASTM B221-M83 ALLOY 6061-T6 OR ALLOY 6351-T6

STRUCTURAL STEEL

CSA G40.21 - M92 GRADE 350WT UNLESS NOTED OTHERWISE

ROADWAY GEOMETRY

CONFORMS TO REQUIREMENTS OF THE LATEST CITY OF WINNIPEG STREETS AND TRANSPORTATION STANDARD MANUAL AND 1999 TRANSPORTATION ASSOCIATION OF CANADA GEOMETRIC DESIGN GUIDE

DESIGN NOTES

ALL DIMENSIONS SHOWN ON THESE DRAWINGS ARE BASED ON AVAILABLE INFORMATION AND RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION, OR PRIOR TO PREPERATION OF SHOP DRAWINGS, AND SHALL MAKE APPROPRIATE ADJUSTMENTS TO THE APPLICABLE DETAILS AND DIMENSIONS ACCEPTABLE TO THE CONTRACT ADMINISTRATOR. THE CONTRACTOR SHALL THEN FABRICATE AND CONSTRUCT THE WORKS IN ACCORDANCE WITH THE CORRECTED DIMENSIONS, INCIDENTAL TO THE WORKS AND AT NO ADDITIONAL COST.

SURVEY BAR CONTROL POINTS

Table with 5 columns: CONTROL POINT, LOCATION, NORTHING, EASTING, ELEVATION. Rows for #1 and #2.

LIST OF ABBREVIATIONS

Large table with 4 columns: Abbreviation (ABUT, APPROX, @, AL, ALT, &, B TO B, BC, BOT, BRG, BRKT, CL, C TO C, CLR, CONC, CTR, C/W, DBA, Ø, DL), Description (ABUTMENT, APPROXIMATE, AT, ALUMINUM, ALTERNATE, AND, BACK TO BACK, BEGIN CURVE, BOTTOM, BEARING, BRACKET, CENTRE LINE, CENTRE TO CENTRE, CLEAR, CONCRETE, CENTRE, COMPLETE WITH, DEFORMED BAR ANCHOR, DIAMETER, DEAD LOAD), Abbreviation (DWG, DWL, E, EC, EF, ES, E & W, EXP, EXST, FF, F/S, FXD, FL, FTG, GALV, GA, HEX, HLS, HORIZ, HSS, ID), Description (DRAWING, DOWEL, EAST, END CURVE, EACH FACE, EACH SIDE, EAST AND WEST, EXPANSION, EXISTING, FAR FACE, FAR SIDE, FIXED, FLOOR, FOOTING, GALVANIZED, GAUGE, HEXAGONAL, HOLES, HORIZONTAL, HOLLOW STRUCTURAL STEEL, INSIDE DIAMETER), Abbreviation (IF, INT, J, LL, LG, LLH, MAX, MID, MIG, MIN, N, NF, NO, NTS, OC, OD, OF, OPT, OSL, PCS, PERP, PL), Description (INSIDE FACE, INTERMEDIATE, EXPANSION JOINT GAP, LIVE LOAD, LONG, LONG LEG HORIZONTAL, MAXIMUM, MIDDLE, METAL INERT GAS, MINIMUM, NORTH, NEAR FACE, NUMBER, NOT TO SCALE, ON CENTER, OUTSIDE DIAMETER, OUTSIDE FACE, OPTIONAL, OUTSTANDING LEG, PIECES, PERPENDICULAR, PLATE), Abbreviation (PTFE, PREP, PROP, R, RAD, RDWY, REQ, S, SPS, SST, STD, SU, T, T&B, TO, TYP, U/N, UNO, U/S, VERT, W), Description (POLYTETRAFLUORETHYLENE, PREPARATION, PROPOSED, RADIUS, RADIAL, ROADWAY, REQUIRED, SOUTH, SPACES, STAINLESS STEEL, STANDARD, SUBSTRUCTURE UNIT, TOP, TOP & BOTTOM, TOP OF, TYPICAL, UNLESS NOTED, UNLESS NOTED OTHERWISE, UNDER SIDE, VERTICAL, WEST)

Bid Opportunity No. 257-2005



REDWOOD BRIDGE REHABILITATIVE MAINTENANCE AND RELATED WORKS DESIGN DATA AND DRAWING LIST

Table with 2 columns: CITY DRAWING NUMBER (B113-05-02), SHEET (02 OF 74), REV (02 OF 0)

UMA Engineering Ltd. logo and contact information. Includes fields for DESIGNED BY (BLL), CHECKED BY (SBB), DRAWN BY (DL), APPROVED BY (signature), HOR. SCALE, VERT. SCALE, AS SHOWN, DATE (2005-07-07).

ENGINEER'S SEAL: B.L. LAU, July 6, 2005, CONSULTANT DRAWING NO. 02, 0265-376-00

PLT: 05/15/05 1:41 AutoCAD File P:\02653765-03\AutoCAD\05-11 Working Drawings\0265-376-03_01-54-002_RX.dwg, 2003-08-20 10:28am CSG