

**LOCATION PLAN**  
NTS

**NOTES:**

- NAVIGABLE WATER INFORMATION**
- THIS SITE HAS BEEN DEEMED NAVIGABLE BY TRANSPORT CANADA.
  - Q2 ELEVATION 323.1m.
  - 2.5m CLEARANCE PROVIDED: Q2 - UNDERSIDE OF BRIDGE
- CONSTRUCTION INFORMATION**
- IN GENERAL ALL EFFORTS SHALL BE MADE TO LIMIT THE DISRUPTION OF NATURAL VEGETATION AND GROUND COVER.
  - NO WORK PERMITTED IN WATER.
- BRIDGE ABUTMENTS:
    - BOTH ABUTMENTS WILL BE ON STEEL H-PILES DRIVEN DOWN TO BEDROCK WITH A REINFORCED CONCRETE PILE CAP.
  - APPROACHES:
    - THE APPROACHES SHALL BE CONSTRUCTED WITH CLEAN GRANULAR FILL, HAVE A TOP WIDTH OF 8.000m AND A TAPERING LENGTH. RIP RAP WILL BE PLACED ON THE HEAD SLOPES TO PROTECT AGAINST POSSIBLE EROSION.
  - SUPERSTRUCTURE:
    - SUPERSTRUCTURE WILL BE A CLEAR SPAN ACROW PANEL BRIDGE AND WILL BE CONSTRUCTED WITHOUT ENCRANCHING ON THE STREAM BED.

**GPS INFORMATION:**

COORDINATES PROVIDED CORRESPOND WITH THE SHOAL LAKE AQUEDUCT CONTROL SURVEY WHICH IS REFERENCED TO ZONE 14 U. ACTUAL LOCATION OF BRIDGE IS LOCATED IN ZONE 15 U.

- UTM CO-ORDINATES: 14U NORTHING = 5501744.24m, EASTING = 774691.29m
- LATITUDE = 49°36'20.66"N, LONGITUDE = 95°11'51.64"W

**BRIDGE INFORMATION:**

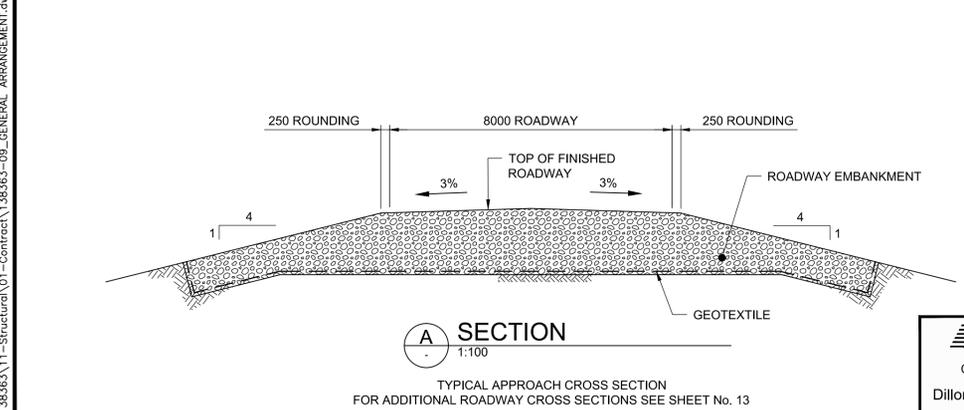
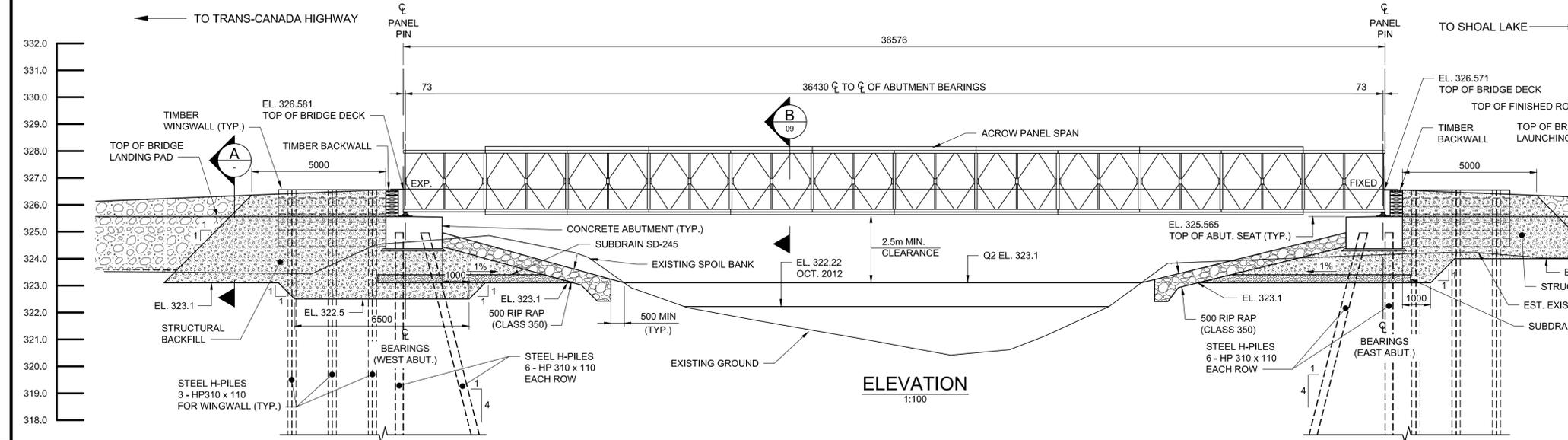
- BRIDGE DIMENSIONS: 36.576m LONG (120'), 5.334m WIDE (17'-6") INSIDE OF TRUSS TO INSIDE OF TRUSS.
- CONTRACTOR TO SUPPLY AND INSTALL 700XS ACROW PANEL BRIDGE FROM ACROW CANADA LIMITED.
- THE 700XS ACROW PANEL BRIDGE SHALL BE DESIGNED ACCORDING TO THE CAN/CSA-S6-06 CANADIAN HIGHWAY BRIDGE DESIGN CODE, INCLUDING ALL INTERIMS FOR THE CL 625 DESIGN LIVE LOAD.

**DESIGN DATA**

- SPECIFICATIONS:**
- AASHTO LRFD BRIDGE DESIGN SPECIFICATION 7th EDITION PLUS INTERIMS
  - AASHTO/AWS BRIDGE WELDING CODE D1.5M 2014.
- VEHICULAR LIVE LOADING (WHICHEVER GOVERNS):**
- MODIFIED AASHTO HSS 25 TRUCK DESIGN LOAD.
  - AASHTO LRFD "HL-93" TRUCK AND LANE LOAD.
- MISCELLANEOUS METAL:**
- ALL STRUCTURAL STEEL SHALL CONFORM TO CSA-G40.21 GRADE 300W UNLESS NOTED OTHERWISE.
  - ALL REINFORCING STEEL SHALL CONFORM TO CSA-G30.18 GRADE 400W UNLESS NOTED OTHERWISE.
- STRUCTURAL CONCRETE**
- ALL STRUCTURAL CONCRETE SHALL CONFORM TO CSA A23.1, CLASS S-1,  $f_c = 35MPa$  @ 56 DAYS UNLESS NOTED OTHERWISE.

**METRIC**

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES



**WORKING POINT COORDINATES (UTM ZONE 14 U)**

	EASTING	NORTHING	ELEVATION
W.P. 1	774708.153	5501751.123	325.565
W.P. 2	774674.421	5501737.366	325.565

**NOTE:**  
TEST HOLE LOCATIONS HAVE BEEN SUPPLIED BY OTHERS AND DILLON CONSULTING DOES NOT GUARANTEE THEIR ACCURACY. REFER TO TREK GEOTECHNICAL REPORT FOR DESCRIPTION OF EACH TEST HOLE.

**TEST HOLE COORDINATES (UTM ZONE 14 U)**

TEST HOLE MK. NO.	EASTING	NORTHING
TH12-02	774697.48m	5501779.46m
TH12-03	774.663.99m	5501757.64m
TH13-01	774678.42m	5501726.80m
TH13-02	774707.01m	5501746.20m
TH13-03	774709.33m	5501744.15m

NOTE: VALUES HAVE BEEN CONVERTED TO REFLECT UTM ZONE 14U COORDINATES.

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B.M. ELEV.	DESIGNED BY	ENGINEER'S SEAL
	GCL	
	DRAWN BY	ENGINEER'S SEAL
	JLD	
	CHECKED BY	
	MBL	
	APPROVED BY	
	MBL	
	HOR. SCALE	
	VERTICAL	
	RELEASED FOR CONSTRUCTION	
	DATE	
	2014/12/17	

**DILLON CONSULTING**

PROVINCE OF MANITOBA  
ORIGINAL SUPPORTED BY  
**G.C. LOEPPKY**  
DECEMBER 17, 2014  
Member  
24656  
REGISTERED PROFESSIONAL ENGINEER

PROVINCE OF MANITOBA  
ORIGINAL SUPPORTED BY  
**K.G. WILLIS**  
DECEMBER 17, 2014  
Member  
33036  
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NUMBER  
**13-8363**

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

BRIDGE OVER THE FALCON RIVER  
DIVERSION & ASSOCIATED ROADWORKS

CITY DRAWING NUMBER  
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SHEET **01** OF **13**

CONSULTANT DRAWING NUMBER

**GENERAL ARRANGEMENT**