

NOTES

CONSTRUCTION INFORMATION

- IN GENERAL ALL EFFORTS SHALL BE MADE TO LIMIT THE DISRUPTION OF NATURAL VEGETATION AND GROUND COVER.
 - NO WORK IS PERMITTED WITHIN 10 m FROM ϕ OF AQUEDUCT.
1. BRIDGE ABUTMENTS:
 - 1.1. BOTH ABUTMENTS WILL BE ON PIPE PILES INSTALLED TO BEDROCK WITH A REINFORCED CONCRETE PILE CAP.
 2. APPROACHES:
 - 2.1. THE APPROACHES SHALL BE CONSTRUCTED WITH CLEAN GRANULAR FILL, WITH A TOP WIDTH OF 8.112 m AS SHOWN.
 - 2.2. PROVIDE 25 m TRANSITION AT BRIDGE APPROACH TO ACHIEVE CHANGE IN CROWN FROM 0% TO 4%.
 3. SUPERSTRUCTURE:
 - 3.1. SUPERSTRUCTURE WILL BE A CLEAR SPAN ACROW PANEL BRIDGE AND SHALL BE CONSTRUCTED WITHOUT AFFECTING THE SHOAL LAKE AQUEDUCT IN ANY WAY.
 4. EXCAVATIONS TO BE CARRIED OUT IN ACCORDANCE WITH MANITOBA WORKPLACE SAFETY AND HEALTH DIVISION'S GUIDELINES FOR EXCAVATION WORK. FLATTER SLOPES THAN THOSE SHOWN MAY BE REQUIRED TO MAINTAIN EXCAVATION STABILITY.

GPS INFORMATION

COORDINATES PROVIDED TAKEN FROM SURVEY DATA TYING INTO THE SHOAL LAKE AQUEDUCT CONTROL SURVEY WHICH IS REFERENCED TO ZONE 14 N, ACTUAL LOCATION OF BRIDGE IS IN ZONE 15 N.

- UTM COORDINATES: AT ϕ OF BRIDGE 14 N EASTING = 767632.66, NORTHING = 5503438.74
- LATITUDE = 49°37'26.83"N, LONGITUDE = 95°17'38.46"W

BRIDGE INFORMATION

- BRIDGE DIMENSIONS: 33.528 m LONG (110'), 5.79 m WIDE (19'-0") ϕ INSIDE TRUSS TO ϕ INSIDE TRUSS.

DESIGN DATA

SPECIFICATIONS

1. CSA STANDARD S6-14 "CANADIAN HIGHWAY BRIDGE DESIGN CODE"

VEHICULAR LIVE LOADING

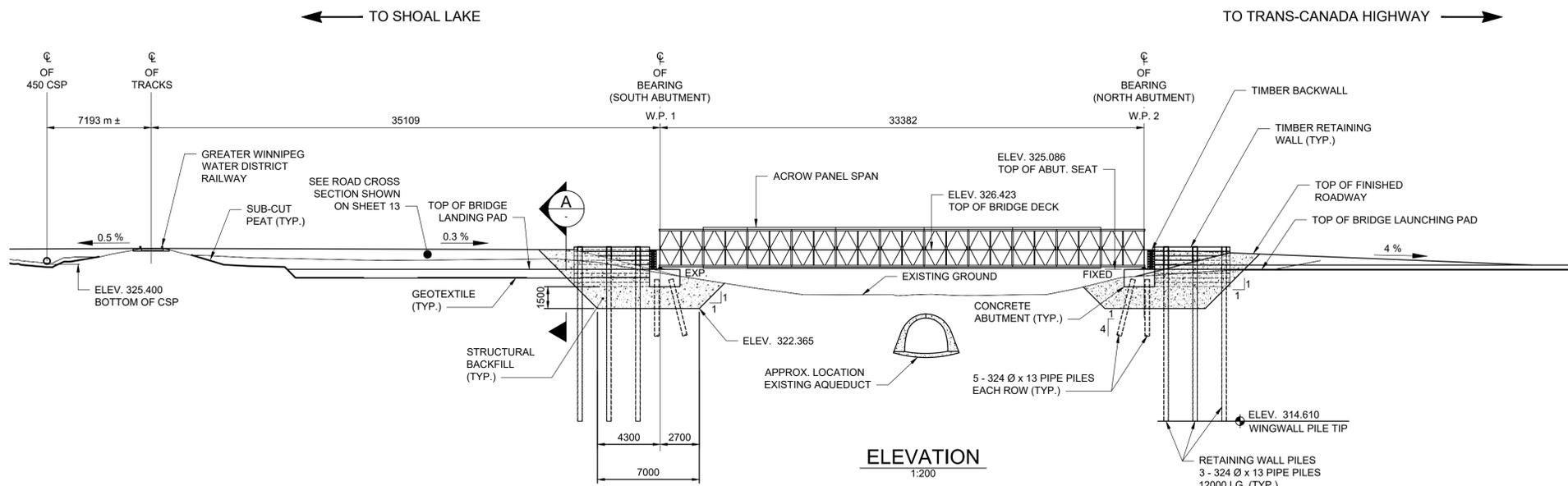
1. CL625
2. JOHN DEERE 300D
3. CAT 740

STEEL

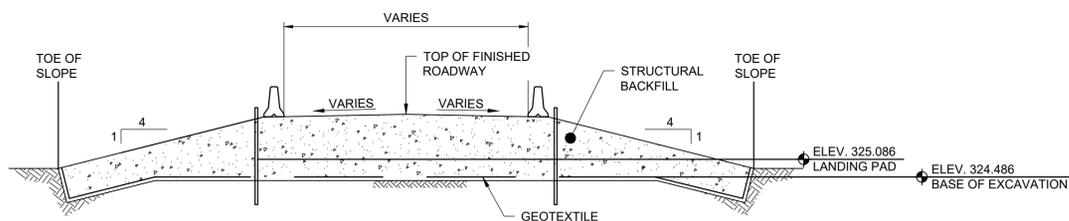
1. ALL STRUCTURAL STEEL SHALL CONFORM TO CSA-G40.21 GRADE 350W UNLESS NOTED OTHERWISE.
2. ALL REINFORCING STEEL SHALL CONFORM TO CSA-G30.18 GRADE 400W UNLESS NOTED OTHERWISE.

STRUCTURAL CONCRETE

1. ALL STRUCTURAL CONCRETE SHALL CONFORM TO CSA A23.1, EXPOSURE CLASS S-1, $f_c = 35$ MPa @ 56 DAYS UNLESS NOTED OTHERWISE.



ELEVATION
1:200



A SECTION
1:100
TYPICAL APPROACH
CROSS-SECTION

WORKING POINT CO-ORDINATES (UTM ZONE 14 N)				
	EASTING	NORTHING	ELEVATION	STATION
W.P. 1	767636.130	5503422.341	325.086	10+058.550
W.P. 2	767629.189	5503455.142	325.086	10+025.168

TEST HOLE CO-ORDINATES (UTM ZONE 14 N)		
TEST HOLE MK. NO.	EASTING	NORTHING
TH12-01	767643.9	5503422.6
TH16-01	767639.0	5503459.4
TP16-02	767623.0	5503483.2

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.

		ENGINEER'S SEAL 			
		DESIGNED BY: KGW CHECKED BY: NR/MBL DRAWN BY: RCB APPROVED BY: GCL HOR. SCALE: AS SHOWN VERTICAL: AS SHOWN RELEASED FOR CONSTRUCTION: DATE		CITY DRAWING NUMBER: 1-0701A-C0001-001 SHEET 2 OF 14 CONSULTANT DRAWING NUMBER: CS-01	
0 ISSUED FOR TENDER NO. REVISIONS		18/01/10 DATE BY		2017.12.01 DATE	
CONSULTANT PROJECT NUMBER: 16-4481		GENERAL ARRANGEMENT		16-4481	