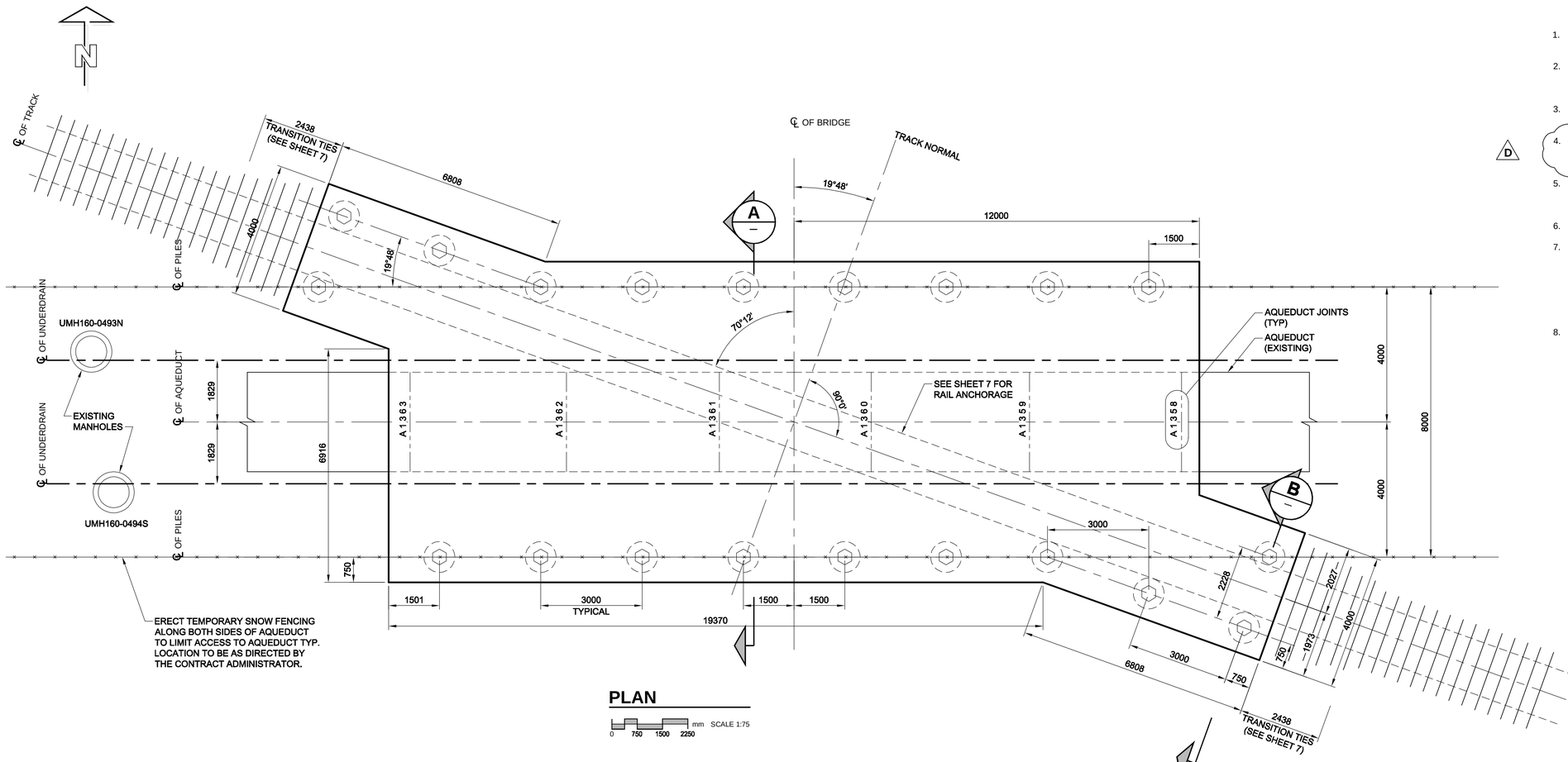
A1 SIZE 23.4" x 33.1" (594mm x 841mm)



PLAN

0 750 1500 2250 mm SCALE 1:75

NOTES:

1. THE CONTRACTOR TO CONFIRM LOCATION OF AQUEDUCT PIPE BY HAND EXCAVATION OR SOFT DIG METHODS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO EXERCISE EXTREME CARE TO PREVENT DAMAGE TO THE GWWD AQUEDUCT. ANY DAMAGE TO THE GWWD AQUEDUCT SHALL BE REPORTED TO THE CITY OF WINNIPEG WATER & WASTE DEPARTMENT 24 HOUR EMERGENCY LINE (204) 986-5000.
3. READ SPECIFICATION "CONDITION, PROTECTION OF AND ACCESS TO THE AQUEDUCT" PRIOR TO PROCEEDING. STRICTLY FOLLOW SPECIFICATIONS.
4. INSTALL FENCING IN ACCORDANCE WITH SPECIFICATIONS TO LIMIT AND CONTROL ACCESS TO THE AQUEDUCT AT THE LOCATIONS AND EXTENT AS INSTRUCTED BY THE CONTRACT ADMINISTRATOR. (D)
5. HIGH DENSITY INSULATION SHALL BE PLACED BY THE CONTRACTOR AS SHOWN. INSULATION SHALL BE 100 mm THICK EXTRUDED POLYSTYRENE CONFORMING TO CAN/ULC-S701 TYPE 4 WITH A MINIMUM COMPRESSIVE STRENGTH OF 275 kPa.
6. WORKING BASE (IF REQUIRED) SHALL BE 50mm-75mm THICK LEAN MIX CONCRETE.
7. CELLULAR CORRUGATED PAPER VOID FORM FOR DECK SLAB CONSTRUCTION SHALL BE VOIDFORM AS MANUFACTURED BY TECHNICOAT LTD., OR EQUIVALENT, AS APPROVED BY THE CONTRACT ADMIINISTRATOR. THE VOID FORM SHALL HAVE SUFFICIENT LOAD CAPACITY TO WITHSTAND ALL CONSTRUCTION LOADS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE VOID FORM SHALL BE PROTECTED WITH 3mm HARDBOARD OR AS OTHERWISE SPECIFIED BY THE MANUFACTURER.
8. ALIGNMENT AND PROFILE GRADE OF THE TRACK & RAILS TO BE FIELD VERIFIED WITH THE EXISTING. BOTTOM OF BRIDGE SLAB ELEVATION AND ADJUSTED TRACK PROFILE WILL BE PROVIDED AFTER EXPOSING THE TOP OF THE AQUEDUCT.

DESIGN DATA:

SPECIFICATIONS:

AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA 2010)

DESIGN LIVE LOAD:

COOPER E-60 (SINGLE TRACK)

STRUCTURAL CONCRETE:

STRUCTURAL SLAB
fc = 35 MPa
WATER/CEMENTING MATERIALS RATIO: 0.40 MAXIMUM
CAN/CSA-A23.1-09 SULPHATE RESISTANT

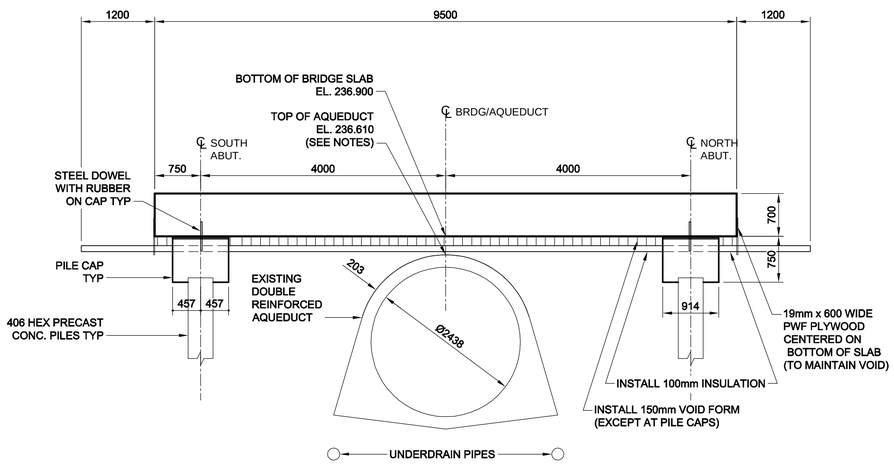
SUBSTRUCTURE:
fc = 35 MPa
WATER/CEMENTING MATERIALS RATIO: 0.40 MAXIMUM
CAN/CSA-A23.1-09 SULPHATE RESISTANT

REINFORCING STEEL:

DEFORMED REINFORCEMENT: CAN/CSA-G30.18-M92 GRADE 400W

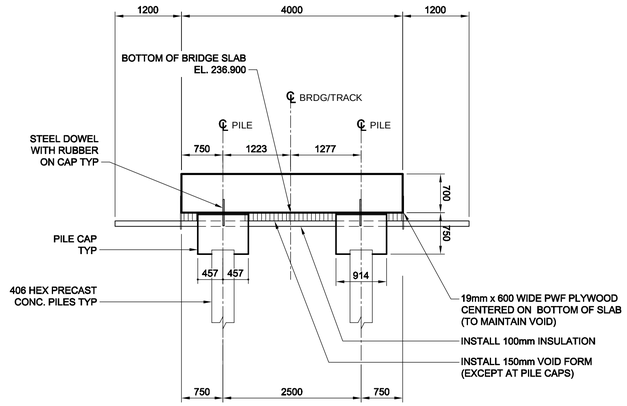
FOUNDATION DATA:

PILE LOADING ABUTMENTS:
406Ø HEX PRECAST CONCRETE PILE
ALLOWABLE SERVICE LOAD = 800 kN
MAXIMUM PILE LOAD (SERVICE LIMIT - NO IMPACT) = 740 kN



SECTION A

0 500 1000 1500 mm SCALE 1:50



SECTION B

0 500 1000 1500 mm SCALE 1:50

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

BID OPPORTUNITY NO. 498-2013

BM 00-000
ELEV 200.000m

NO.	REVISIONS	YY/MM/DD	BY
D	ADDENDUM 2	13/06/18	KC
C	ISSUED FOR TENDER	13/06/04	KC
B	ISSUED FOR TENDER	11/07/04	EDM
A	ISSUED FOR REVIEW	11/05/27	EDM

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DESIGNED BY	AP	CHECKED BY	SBB
DRAWN BY	EDM	APPROVED BY	EBL
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERT. SCALE	AS SHOWN		
DATE	11/04/26	DATE	

PROFESSIONAL'S SEAL
PROVINCE OF MANITOBA
ORIGINALLY SIGNED BY
A. POCHANART
Member 30017
2013-06-04
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.
60196984-01-S-101-R0X.dwg

Winnipeg
THE CITY OF WINNIPEG
WATER & WASTE DEPARTMENT
ENGINEERING DIVISION

GWWD AQUEDUCT BRIDGING STRUCTURE AT MILE 13.19
GENERAL ARRANGEMENT

CITY DRAWING NUMBER D-12473
SHEET 2 OF 7
DRAWING No. 02
REV D

PLOT: 6/18/2013 9:20:57 AM
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