

PLAN
SCALE 1:50

NOTES:

1. THE CONTRACTOR TO CONFIRM LOCATION OF ϕ AQUEDUCT PIPE BY PROBING 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) 986-2626.
3. ALL EXCAVATION SHALL BE LUMP SUM EXCAVATION.
4. HIGH DENSITY INSULATION SHALL BE PLACED BY THE CONTRACTOR AS SHOWN
 - a) INSULATION SHALL BE 100 mm THICK EXTRUDED POLYSTYRENE CONFORMING TO CAN/CSB 51.20-M TYPE 4 WITH A MINIMUM COMPRESSIVE STRENGTH OF 275 kPa
 - b) INSULATION SHALL BE COMPLETELY ENCLOSED IN 6 MIL POLYETHYLENE WITH ALL JOINTS POLY-VINYL TAPED
5. WORKING BASE SHALL BE 75mm THICK LEAN MIX CONCRETE.
6. CELLULAR CORRUGATED PAPER VOID FORM FOR DECK SLAB AND ABUTMENT CONSTRUCTION SHALL BE VOIDFORM AS MANUFACTURED BY TECHNICOAT LTD., OR EQUIVALENT, AS APPROVED BY THE CONTRACT ADMINISTRATOR. 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.
7. SPOT ELEVATIONS SHOWN ARE AT TOP OF ROADWAY SURFACE FOR FINAL STAGE CORRESPONDING TO ASPHALT THICKNESS OF 100 MM.
8. BRIDGE IS ON 0'21'55" SKEW TO AQUEDUCT.

DESIGN DATA

SPECIFICATIONS:

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, THIRD EDITION 2004.

DESIGN LIVE LOAD:

1. AASHTO HS25
2. AASHTO HL93

STRUCTURAL CONCRETE:

STRUCTURAL SLAB AND APPROACH SLABS
 $f_c = 35 \text{ MPa}$
 WATER/CEMENTING MATERIALS RATIO: 0.40 MAXIMUM
 CAN/CSA-A23.1-04 TYPE HE, HIGH EARLY STRENGTH HYDRAULIC CEMENT.

SUBSTRUCTURE:
 $f_c = 35 \text{ MPa}$
 WATER/CEMENTING MATERIALS RATIO: 0.45 MAXIMUM
 CAN/CSA-A23.1-04 TYPE HE, HIGH EARLY STRENGTH HYDRAULIC CEMENT.

REINFORCING STEEL:

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

FOUNDATION DATA:

PILE LOADING ABUTMENTS:
 406# HEX PRECAST CONCRETE PILE
 ULTIMATE LRFD PILE CAPACITY = 1600 kN
 MAXIMUM PILE LOAD (SERVICE 1 LOAD COMBINATION) = 640 kN
 MAXIMUM PILE LOAD (STRENGTH 1 LOAD COMBINATION) = 980 kN

Released to the City of Winnipeg for Tendering Purposes



ORIGINAL SIGNED _____

Eric Christiansen P.Eng.
 Director of Highway Planning & Design
 Manitoba Transportation & Government Services
 Date: MAY 16, 2006
 MTGS Plan No. 7161




Certificate of Authorization
 Earth Tech Canada Inc.
 No. 730 Expiry: April 30, 2007

B.M. ELEV.			
NO.	ISSUED FOR TENDER	06/05/16	KC
NO.	REVISIONS	DATE	BY

Frederickson Cooper ARCHITECTS

DESIGNED BY	AP	CHECKED BY	EBL
DRAWN BY	KC	APPROVED BY	AHL
SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION BY:	R. SOROKOWSKI
DATE	2006/04/07	DATE	May 16, 2006

ENGINEER'S SEAL	 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION		CITY FILE NUMBER
ORIGINAL SIGNED BY			CITY DRAWING NUMBER
ASNEE POCHANART May 16, 2006	WINNIPEG WATER TREATMENT PROGRAM - PROVINCIAL ROAD #207 UPGRADE		SHEET OF
CONSULTANT DRAWING NO. WN-S0150	STRUCTURAL PR #207 BRIDGE PLAN AND NOTES		1-060N-A-80150-001-00D