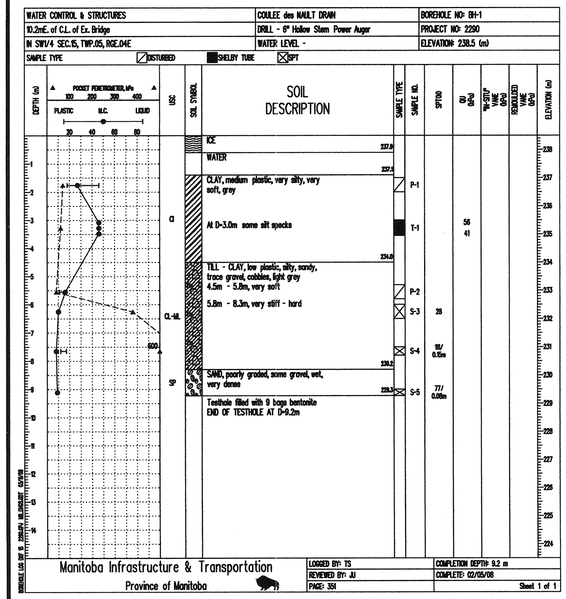
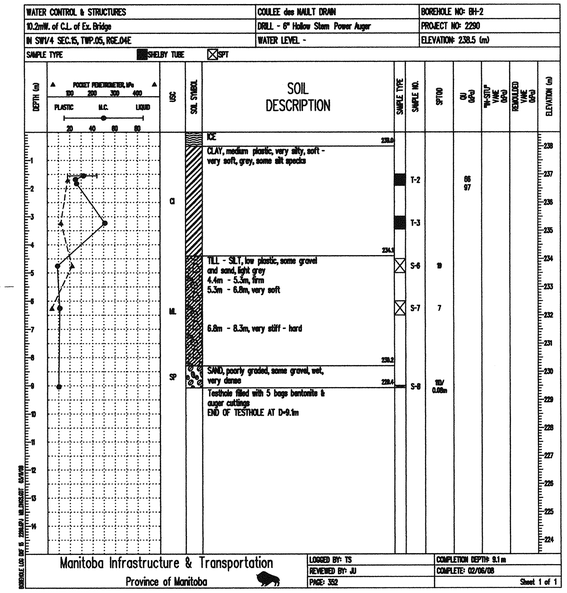
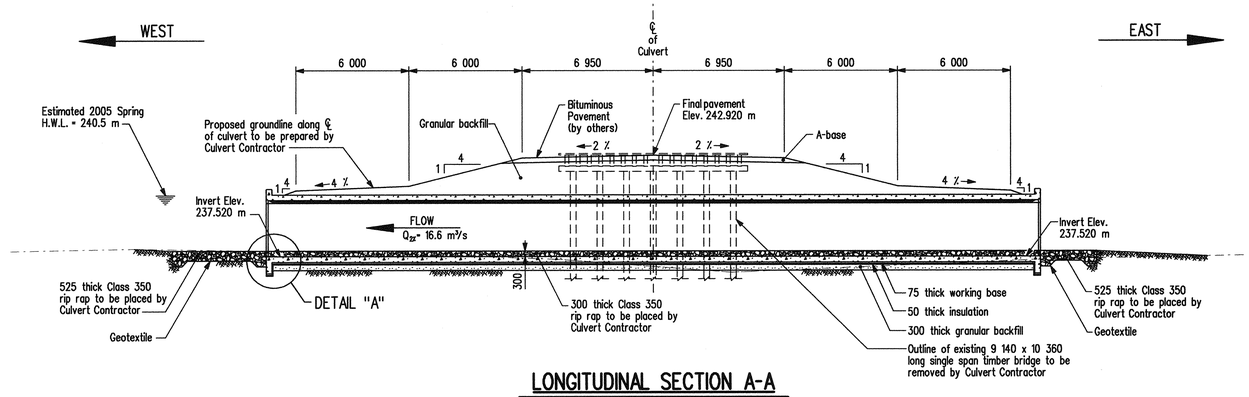
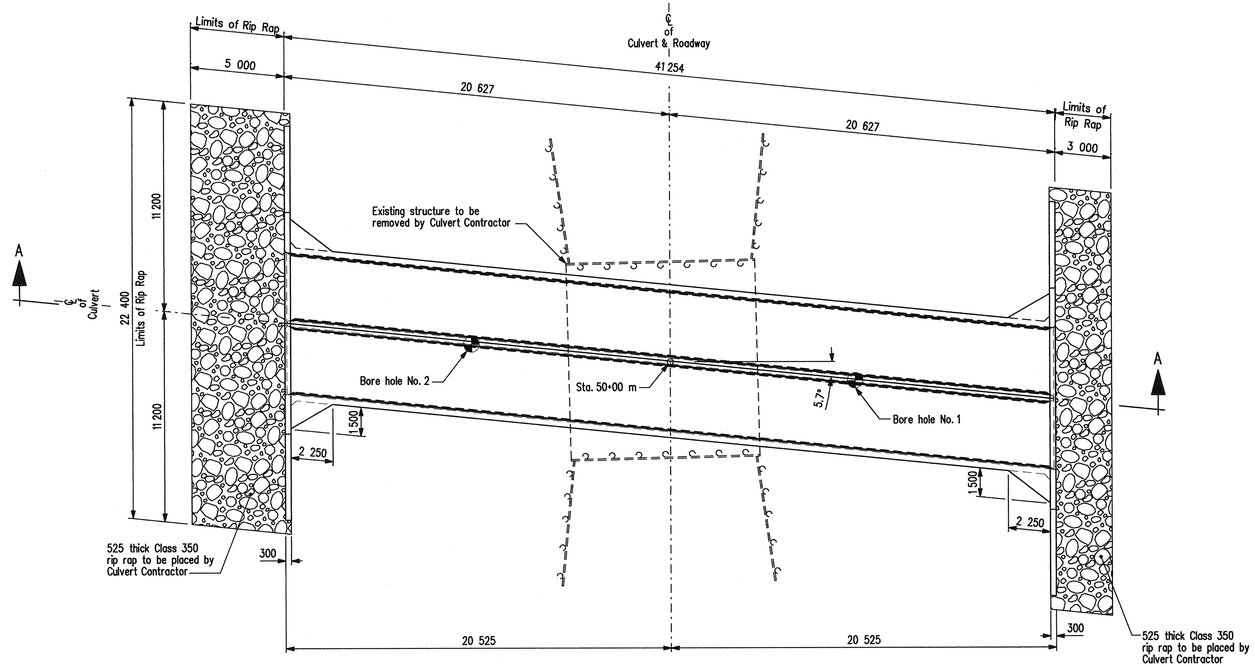




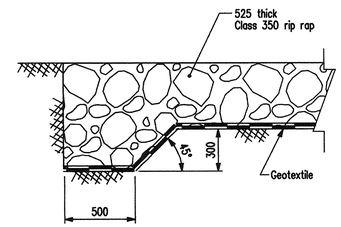


LONGITUDINAL SECTION A-A

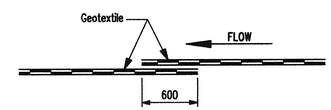
All dimensions shown are normal to ℄ of roadway



PLAN



EDGE TREATMENT



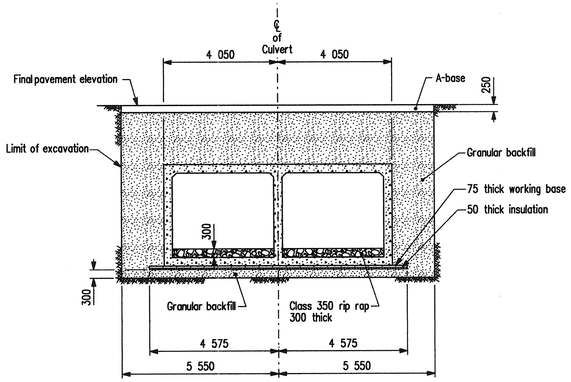
OVERLAPPING DETAILS

RIP RAP DETAILS

Not To Scale

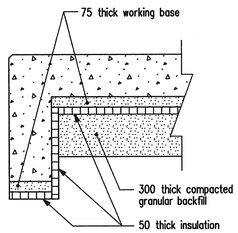
NOTES - re Boring Logs

1. The Department provides log boring information shown on the Plans. This information may not be representative of the soil conditions throughout the site. Contractors may peruse all available soil information in the Bridges and Structures Branch located at 6th floor, 215 Garry Street, Winnipeg.
2. The following abbreviations apply to bore hole information:
   - Qu - Laboratory unconfined compressive strength in kPa.
   - SPT (N) - Number of blows per 300 mm - Standard Penetration Test
   - USC - Unified Soil Classification
   - M.C. - Moisture content
3. All stations, elevations, offsets and depths as shown are in meters.
4. Elevations on boring logs are at a vertical scale of 1:100.



CROSS SECTION

Scale 1 : 100



DETAIL "A"

Scale 1 : 20

NOTES:

1. Granular backfill shall be used within minimum limits as shown on "CROSS SECTION".
2. Insulation shall be supplied and placed by Culvert Contractor as follows:
   a) Insulation shall be placed under all working base concrete including headwalls and shall extend vertically behind cut off wall as shown in DETAIL "A".
   b) Insulation shall be 50 mm thick extruded polystyrene placed with staggered joints.
   c) Insulation shall be completely enclosed in 6 mil. polyethylene with all joints poly-vinyl taped.
3. Working base shall be lean mix concrete 75 mm thick.
4. All geotextile shall be Non-Woven Geotextile, Class II (Heavy Duty) from the Department of Infrastructure and Transportation Approved Product list.
5. Geotextile shall be placed under all rip rap, overlapping 600 mm in direction of flow.

REVISIONS		
DATE	BY	DESCRIPTION

PROVINCE OF MANITOBA — I. UMADAT — Nov 10/07 — REGISTERED PROFESSIONAL ENGINEER

PROVINCE OF MANITOBA — A. H. PANKRATZ — Nov 9/2007 — REGISTERED PROFESSIONAL ENGINEER

GENERAL ELEVATION

FOR DOUBLE 3 600 x 3 000 R.C. BOX CULVERT
IN COULEE DES NAULT - 5.7° SKEW
ON P.T.H. No. 59 S.E. 1/4 SEC. 16-05-04E

R.M. of DE SALABERRY

Manitoba Infrastructure and Transportation
Water Control & Structures

RELEASED FOR CONSTRUCTION BY:
for DIRECTOR — DATE
STRUCTURES, DESIGN AND CONSTRUCTION BRANCH

DESIGN	BY: A.H.P. / J.U.	
	CHECKED:	
DETAILS	BY: M.S.	
	CHECKED: A.H.P. / J.U.	

SCALE: 1 : 150 or As Shown
SHEET No. 2
SITE No. 2290-10

\2290\02290\CulverDetails.dgn 2009-11-07 9:52:39 AM