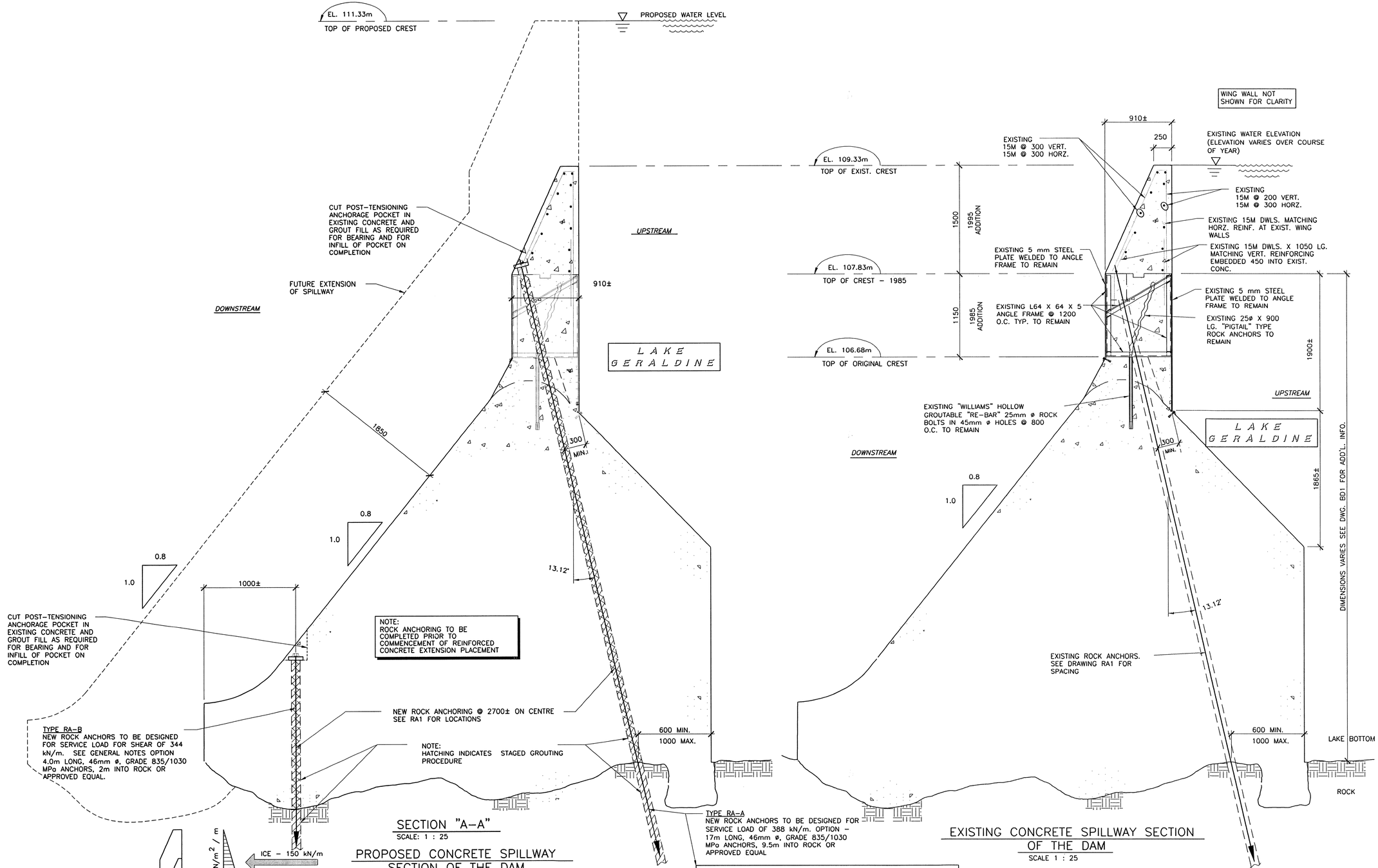

SECTION "A-A"

SCALE: 1 : 25

PROPOSED CONCRETE SPILLWAY SECTION OF THE DAM

FACTORS OF SAFETY

OVERTURNING	1.5
SLIDING	1.93

WHERE F.S (SLIDING) = $\frac{\text{TAN } 40^\circ (Rv) + \text{SHEAR CAPACITY OF ANCHORS}}{Rh}$

Rv = RESULTANT OF VERTICAL LOADS (kN)
Rh = RESULTANT OF HORIZONTAL LOADS (kN)

THE FOLLOWING PROCEDURE SHALL BE USED FOR ALL ROCK ANCHORS.

1. PRE-TENSION ANCHOR TO ACHIEVE SERVICE LOAD OF 388 kN PER METRE LENGTH OF DAM.
2. GROUT ANCHOR IN ROCK ONLY AND ALLOW TO SET.
3. RELIEVE PRE-TENSION LOAD AT TOP END OF ANCHOR.
4. GROUT BALANCE OF LENGTH OF ANCHOR IN CONCRETE DAM.

REFER TO DRAWING RA1 FOR GENERAL NOTES

EXISTING CONCRETE SPILLWAY SECTION OF THE DAM

SCALE 1 : 25

NOTE:
"ORIGINAL DAM AND 1985 ADDITION DIMENSIONS" REPRODUCED FROM DRAWINGS 84-4428-1, 84-4428-2 AND 88-4428-3 DATED 3 MARCH 1986. "1995 ADDITION" DIMENSIONS REPRODUCED FROM DRAWINGS 95-10047-1-2, 94-10047-1-3 & 94-10047-1-4 DATED 19 NOVEMBER 1996 PREPARED BY OLIVER MANGIONE McCALLA & ASSOCIATES LTD. CONTRACTOR TO VERIFY ACCURACY OF DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO ENGINEER BEFORE PROCEEDING WITH WORK.

ISSUED FOR ROCK ANCHOR TENDER	no. 0 date 16/06/05 by KAB	

REVISIONS

NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ENGINEERS OF ANY ERRORS AND / OR OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION. DO NOT SCALE THIS DRAWING.

LICENSED PROFESSIONAL ENGINEER K.A. BAKER LICENSEE 2005 N.W.T.

LICENSED PROFESSIONAL ENGINEER R.W. POTTER PROVINCE OF ONTARIO

PERMIT TO PRACTICE
TROW ASSOCIATES INC.
Signature
Date June 27/2005
PERMIT NUMBER: P184
The Association of Professional Engineers, Geologists and Geophysicists of the NWT/NU

Trow Associates Inc.
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CITY OF IQALUIT

PROJECT
LAKE GERALDINE DAM ROCK ANCHORS - 2005

DRAWING
SECTIONS AND DETAILS

design by	K.A.B.	project no.	OTB500017616C
drawn by	M.N.	drawing no.	RA2
checked by	R.W.P.		
date	MAY 2005		
scale	AS NOTED	revision no.	0