

Department of Civil Engineering



Site: BURNABY BUILDING

Instrument: L52

Date: 07/10/98

Observer: M.A.R.

Weather: GOOD

Booker: M.A.R.

BS	IS	FS	HPC	RL	Corr mm	Corr RL	Remarks
1.546			11.546	10.000	0	10.000	TBM 10.00m AAD
1.418		1.562	11.402	9.984	+2	9.986	C.P.
	1.390			10.012	+3	10.015	POINT 1
	1.281			10.121	+3	10.124	G.L. STRUCT. LAB. DOOR
	-2.420			13.822	+3	13.825	TOP STRUCT. LAB. DOOR
1.011		1.321	11.092	10.081	+3	10.084	C.P.
		2.007		9.085	+5	9.090	TBM 9.09m AAD

$\sum BS = 3.975$ $\sum IS = 0.251$ $\sum FS = 4.890$ $\sum RL = 63.105$
(NOT 1st)

CALC CHECK ①

$\sum FS - \sum BS = 1^{st} RL - LAST RL?$

$4.890 - 3.975 = 10.000 - 9.085?$

$0.915 = 0.915 \checkmark$ O.K. \therefore BS & FS CALCS O.K.

CALC CHECK ②

$\sum IS + \sum FS + \sum (RLs \text{ EXCEPT } 1^{st}) = \sum (\text{EACH HPC} \times \text{NUM OF APPLICATIONS})?$

$0.251 + 4.890 + 63.105 = \sum (11.546 \times 1 + 11.402 \times 4 + 11.092 \times 1)?$

$68.246 = 11.546 + 45.608 + 11.092?$

$68.246 = 68.246 \checkmark$ O.K. \therefore IS CALCS O.K.

ACTUAL MISCLOSURE = $9.085 - 9.09 = -0.005m = -5mm$

ALLOWABLE MISCLOSURE = $\pm 5\sqrt{N} mm = \pm 5\sqrt{3} = \pm 9mm$

ACTUAL < ALLOWABLE \checkmark \therefore FIELDWORK O.K.