SOOKE RIVER

Project # 9207F019

Code # 020019

Requested by : R.W. Nichols, P. Eng.
Sr. Hydraulic Engineer
Special Projects Section

Field : April 13-27, 1992
Office : January-February, 1993

The field survey was carried out under favourable conditions by a five man crew under the supervision of T.M. Dignan. Standard Floodplain survey practices were observed throughout.

SURVEY LOGISTICS:

Twenty four cross sections were obtained on the Sooke River, commencing at the river mouth in Sooke Harbour, and extending upstream to Sooke Potholes Park. Twenty two high water marks from the flood of November, 1990 were identified and confirmed.
Bridge data and highway profile of the Sooke Highway Bridge was obtained as required and incorporated into cross section plots.

SURVEY DATA:

Horizontal control for cross sections and profiles was established by EDM traverse using a total station theodolite. Vertical control was established by standard differential levelling and reciprocal height traversing using a total station theodolite. Data recorded in Field Book #2596-L1 and disc labelled #2596-D. Data reduced, compiled and plotted using PC/Vax and HP Table Plotter by M.S. Spencer.

DATUM:

Horizontal control of cross sections is based on British Columbia Control Survey Posts for Integrated Survey Area of Sooke as obtained from Surveys and Resource Mapping Branch data bank listing dated December 10. 1991. Coordinates are Universal Transverse Mercator (UTM) for Zone 10, NAD27.
Vertical control is based on Geodetic Datum (NAD27) and referred to Bench Marks established by Geodetic Survey of Canada. Elevations as listed are in metres and have been revised to conform with 1989 line adjustment. Revised elevations were received from G.S.C. Apr. 26, 1993.

DATA RETURNS:

Special Projects Section: 1 Volume Containing

-Profile statements and plots of all cross sections
-Photographs
-Listing of G.R. Data on all cross sections
-copy of floodplain mapping, scale 1-5000, showing cross section locations, high water marks, spot heights and geodetic and integrated monument locations.
-3.5 inch computer disc with decimal and non-decimal G.Rs.

Technical Support Section: 1 Volume Containing

-Complete data for file
-Original Mylar, Drawing #92-6-1, and #92-6-2.

April 13, 1993

for T.M. Dignan,
Projects Manager,
Technical Support Section