

# LEGEND

## INTRUSIVE AND METAMORPHIC ROCKS

- 26 NELSON BAY GNEISS DOME: FELSIC GRANOBLASTIC GNEISS;  
26a FELSIC ORTHOGNEISS, POSSIBLY METAVOLCANIC
- 20, 23, 24 TONALITE, GRANODIORITE AND GRANITE
- 9 METAGABBRO, AMPHIBOLITE
- 18a, 18b JOSLAND LAKE GABBRO: DIFFERENTIATED ZONED GABBRO INTRUSIONS;  
18a PRE-F<sub>1</sub> INTRUSIONS; 18b POST-F<sub>1</sub> INTRUSIONS

## MISSI GROUP

- 16(3) THICK-BEDDED META-ARKOSE
- 16(2) THICK-BEDDED METASUBGREYWACKE
- 16(1) LAMINATED METASUBGREYWACKE

## AMISK GROUP

### METASEDIMENTARY ROCKS

#### FILE LAKE FORMATION (13-15):

- 15 CORLEY LAKE MEMBER: MUDSTONE
- 14 MAFIC VOLCANIC ROCKS
- 13 GREYWACKE, SILTSTONE AND MUDSTONE

- 12 YAKYMIW FORMATION: LAMINATED MUDSTONE, SILTSTONE AND FINE SANDSTONE INTERBEDDED WITH PEBBLY VOLCANICLASTIC SANDSTONE

- 1 PARISIAN FORMATION: POLYMICTIC VOLCANICLASTIC PARA-CONGLOMERATE

### META-INTRUSIVE ROCKS

- 10 QUARTZ- AND PLAGIOCLASE-PHYRIC TONALITE
- 9 DIORITE

### METAVOLCANIC ROCKS

- 8 FELSIC VOLCANIC ROCKS
- 7 MAFIC FLOW AND FRAGMENTAL VOLCANIC ROCKS
- 6 DACITE FRAGMENTAL
- 5 BASALT AND ANDESITE FLOWS
- 4 DACITE FLOWS
- 3 STOROZUK FORMATION: BASALT AND ANDESITE FLOWS AND BRECCIA, MINOR DACITE AND RHYOLITE FLOWS AND TUFF
- 2 DICKSTONE FORMATION: RHYOLITE AND DACITE FLOWS, BRECCIA AND TUFF
- 1 PREASTON FORMATION: BASALT AND ANDESITE FLOWS

## SYMBOLS

- GEOLOGICAL BOUNDARY; GRADATIONAL OR ARBITRARY BOUNDARY
- XX ANTICLINE, SYNCLINE
- TRACE OF AXIAL SURFACE (F<sub>1</sub> FOLD, F<sub>2</sub> FOLD)
- ~ FAULT
- A—A' SECTION LINE, LOCATION GIVEN ON FIGURE 94.

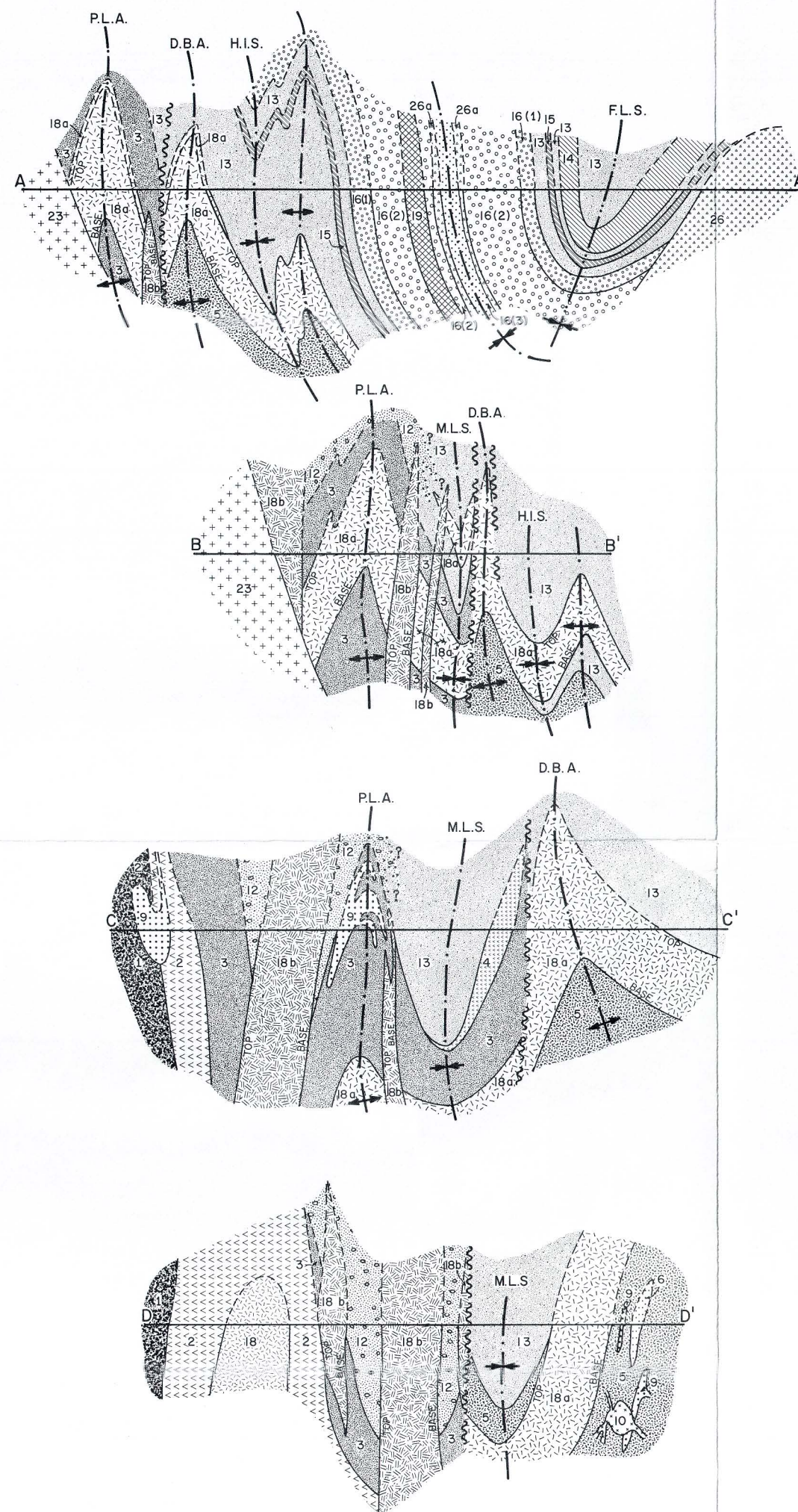
- ① SECTIONS USED TO CONSTRUCT SCHEMATIC RESTORED STRATIGRAPHIC SECTIONS ON FIGURE 3.

- P.L.A. PODRUSKI LAKE ANTICLINE
- M.L.S. MORTON LAKE SYNCLINE
- D.B.A. DUCHARME BAY ANTICLINE
- H.I.S. HYDE ISLAND SYNCLINE
- F.L.S. FILE LAKE SYNFORM

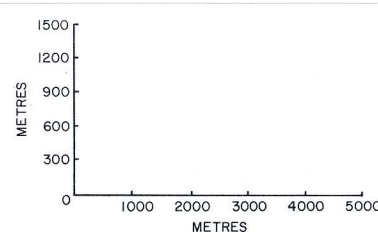
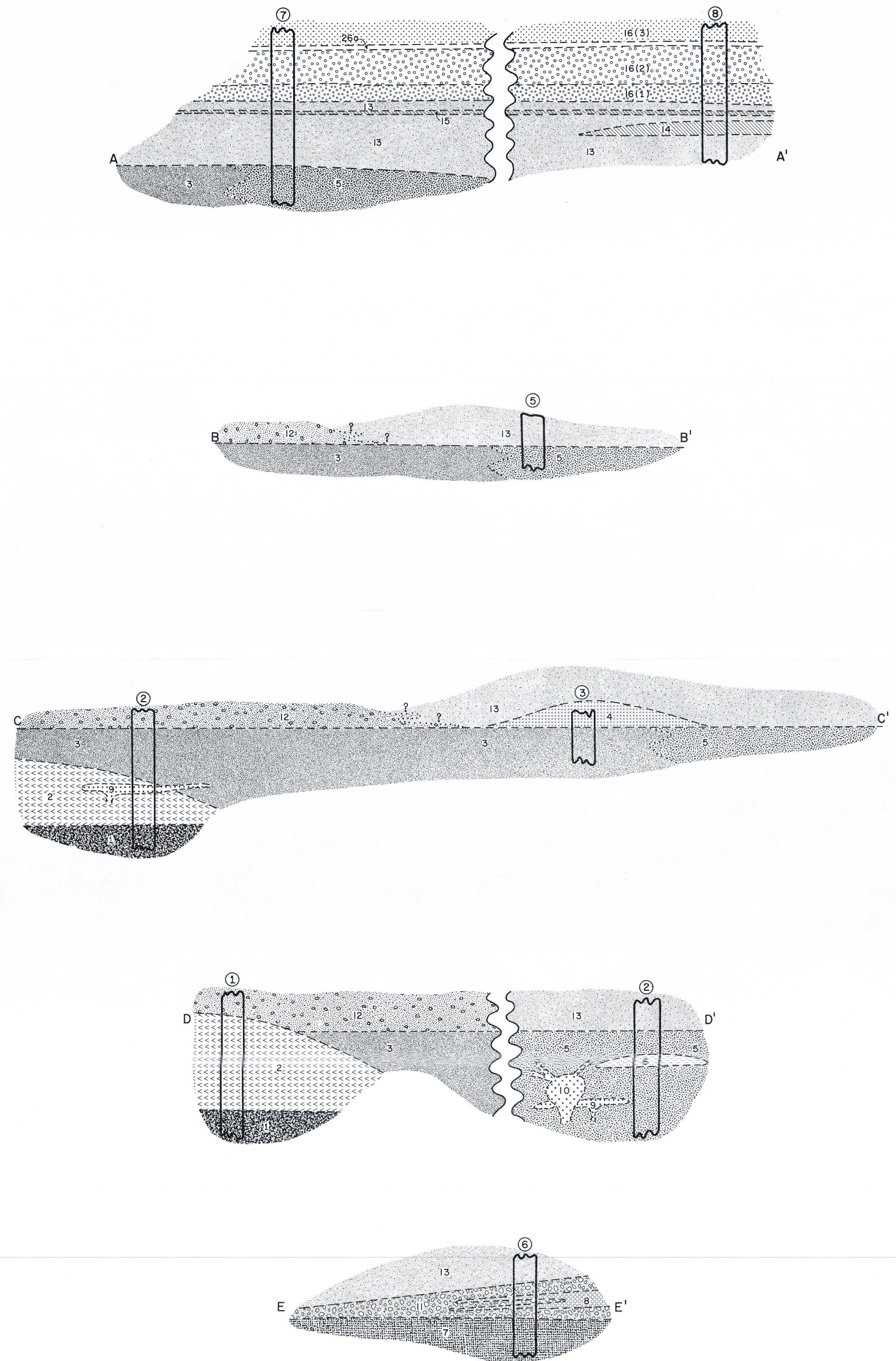
NOTE: 1. THE GEOMETRY OF F<sub>1</sub> FOLDS IS UNKNOWN, IN PARTICULAR THE LENGTH OF THEIR LIMBS. THUS, REPRESENTATIONS OF F<sub>1</sub> FOLDS IN CROSS SECTION ARE ONLY SCHEMATIC AND THE HORIZONTAL DISTANCES IN RESTORED STRATIGRAPHIC SECTION, WHICH DEPENDS ON UNFOLDING OF F<sub>1</sub> FOLDS, ARE APPROXIMATE.

2. RESTORED STRATIGRAPHIC SECTIONS HAVE BEEN CONSTRUCTED BY REMOVAL OF POST-MISSI INTRUSIVE ROCKS AND BY UNFOLDING OF F<sub>1</sub> AND F<sub>2</sub> FOLDS. THE BASE OF THE FILE LAKE FORMATION WAS USED AS A REFERENCE LINE FOR UNFOLDING. IT IS ASSUMED TO HAVE BEEN APPROXIMATELY HORIZONTAL, WITH THE EXCEPTION THAT FELSIC VOLCANIC SEQUENCES MAY HAVE FORMED TOPOGRAPHIC DOMES.

## STRUCTURAL CROSS SECTIONS<sup>1</sup>



## RESTORED STRATIGRAPHIC SECTIONS<sup>2</sup>



Cartography by U. FRASER

FIGURE 95: Selected structural cross-sections and restored stratigraphic sections.