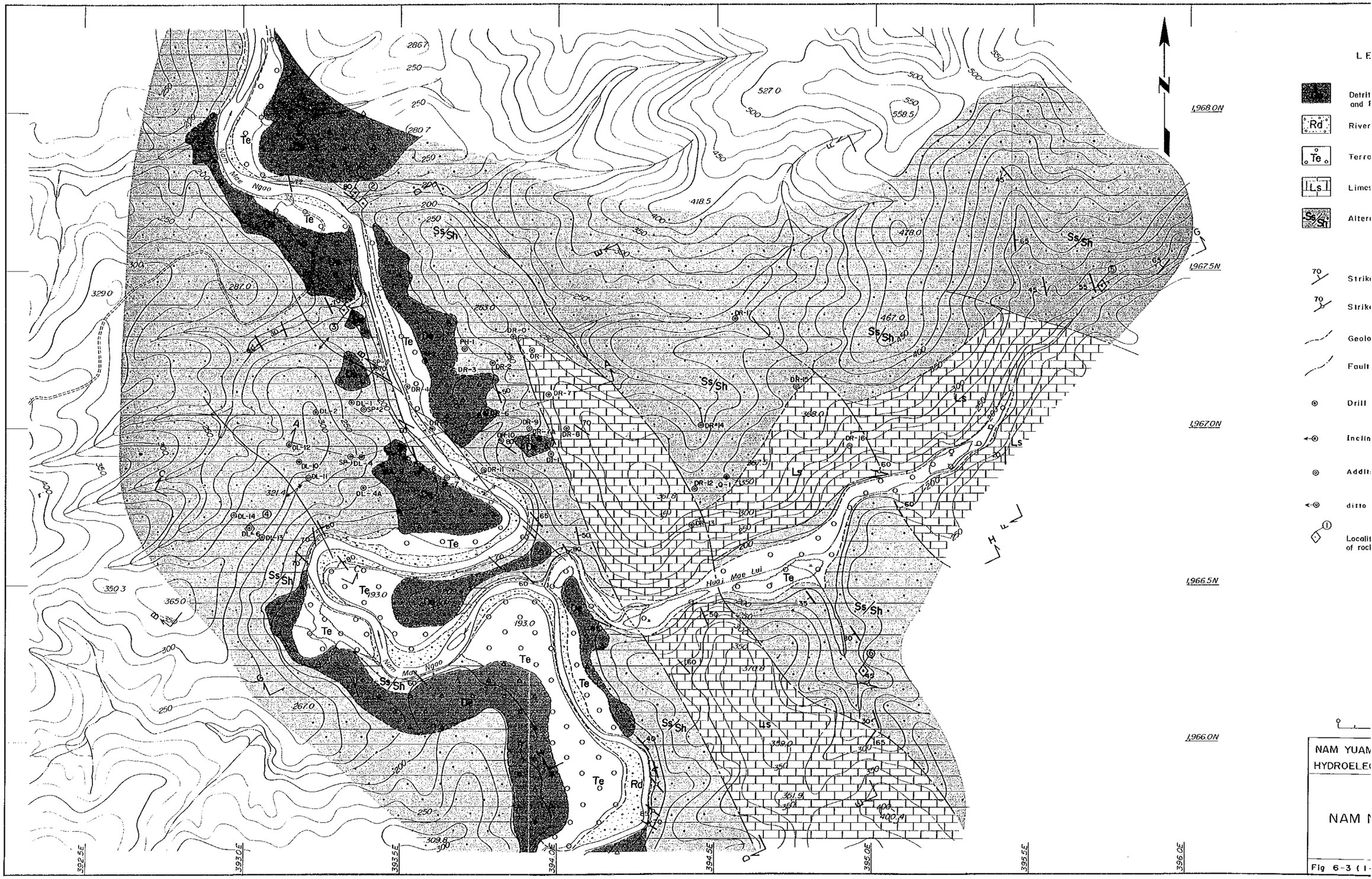
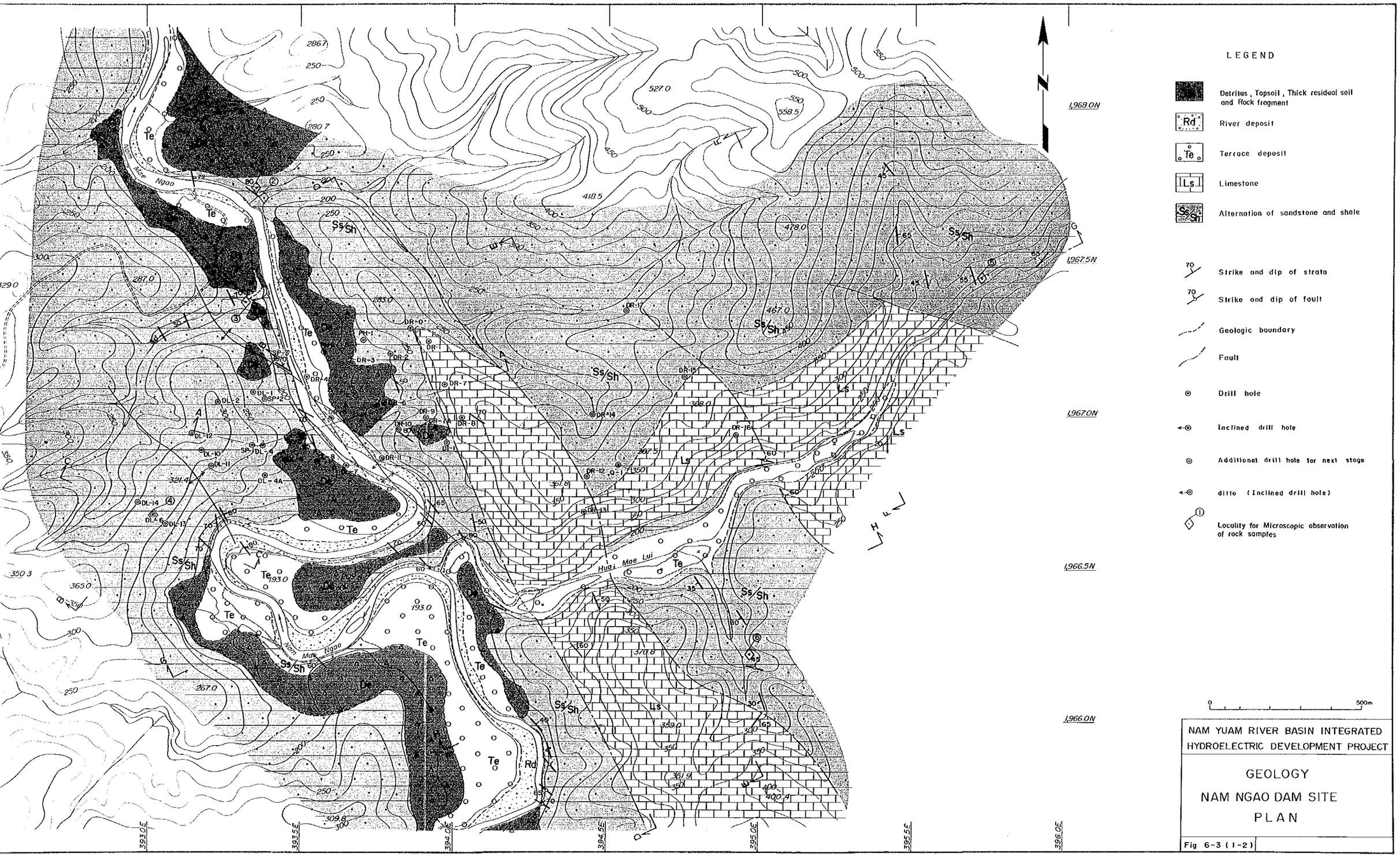
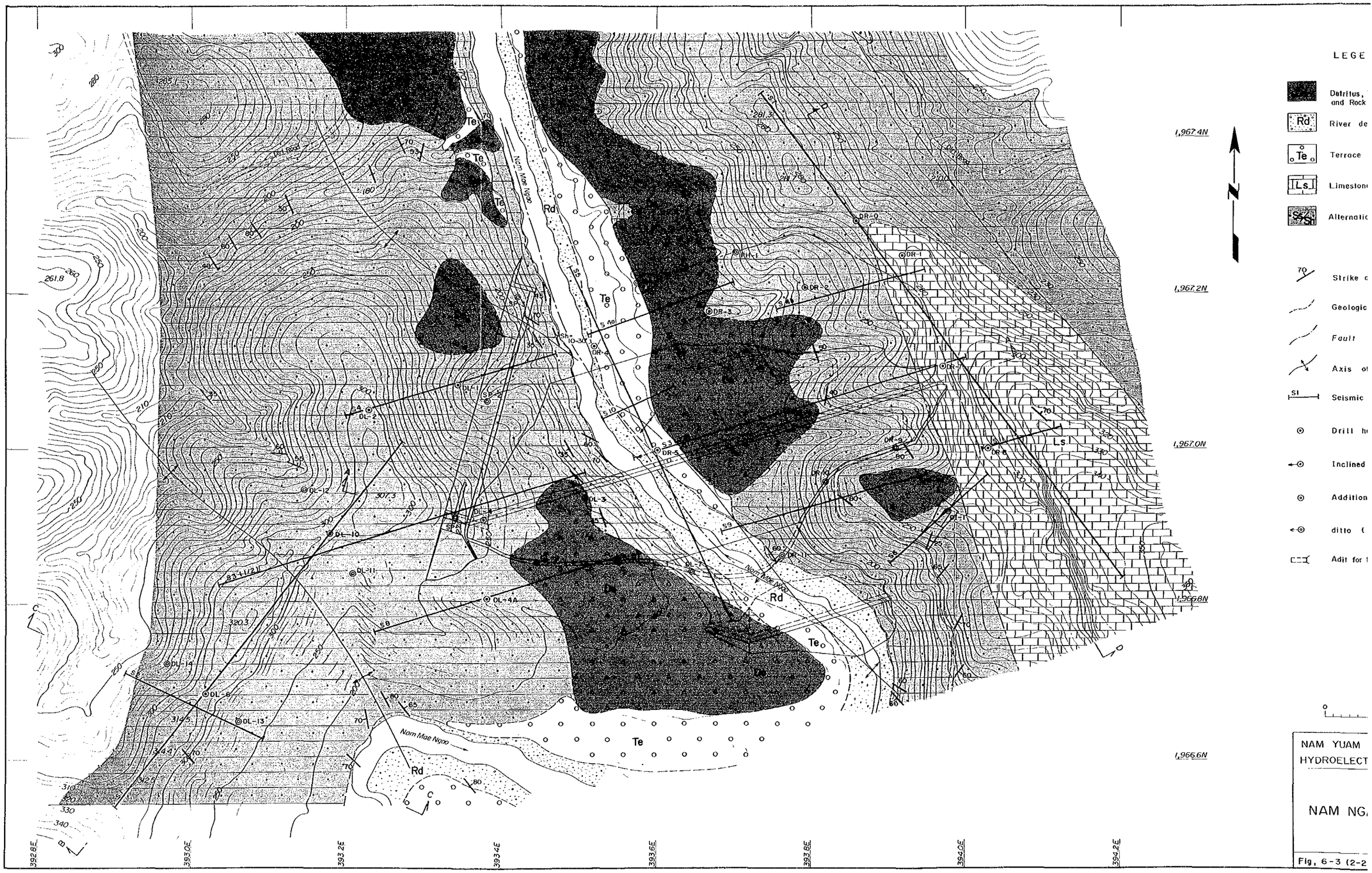
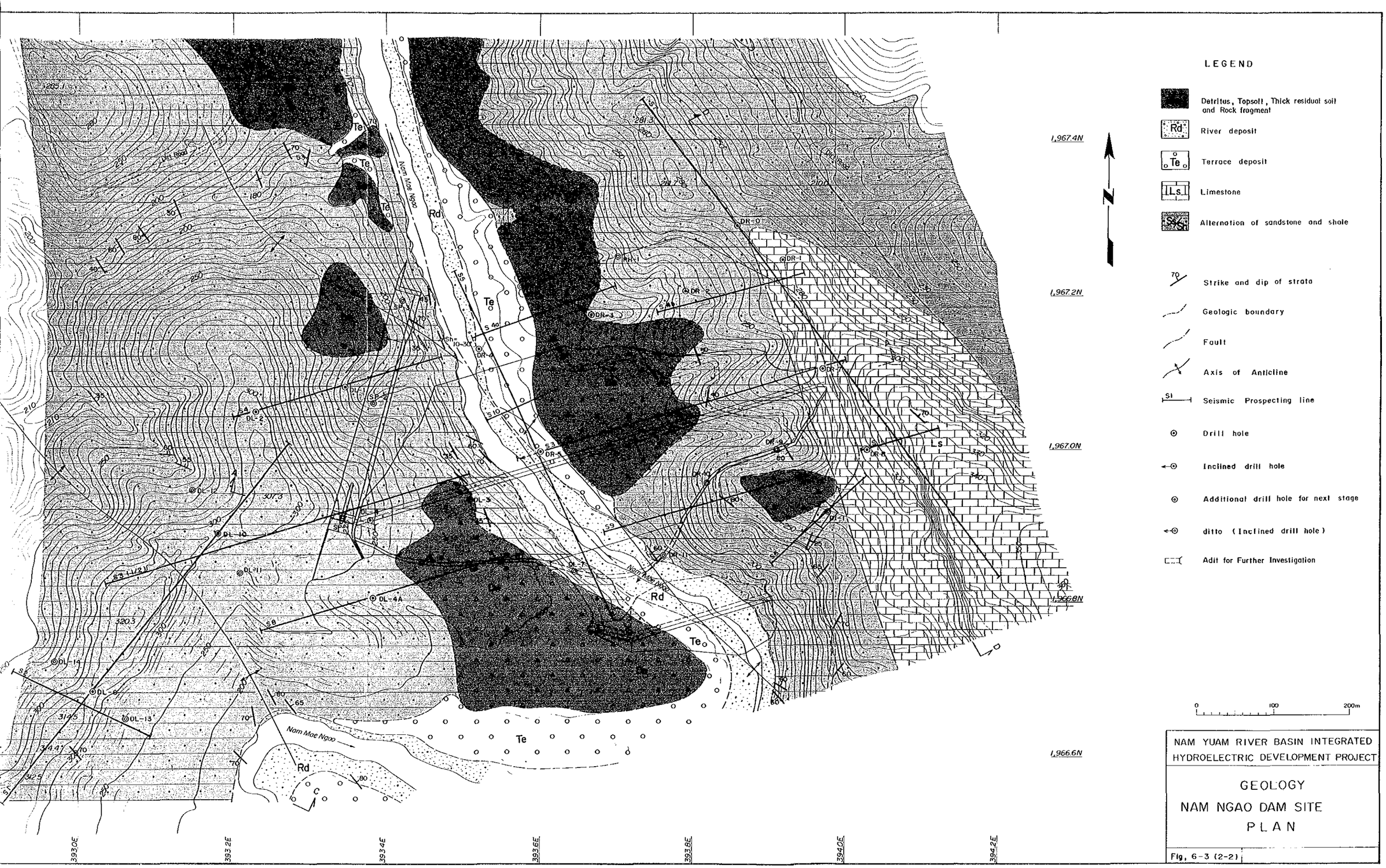
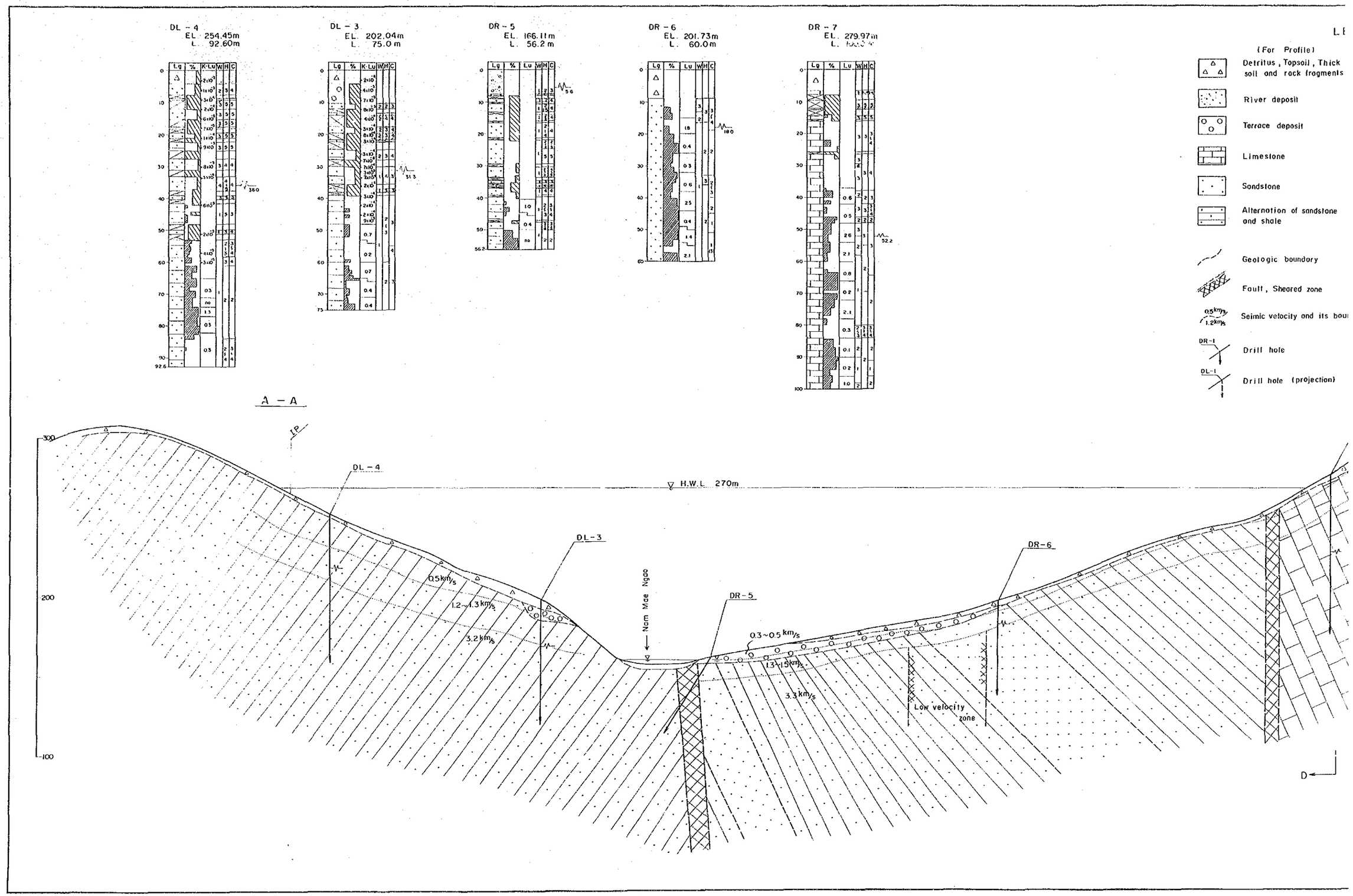
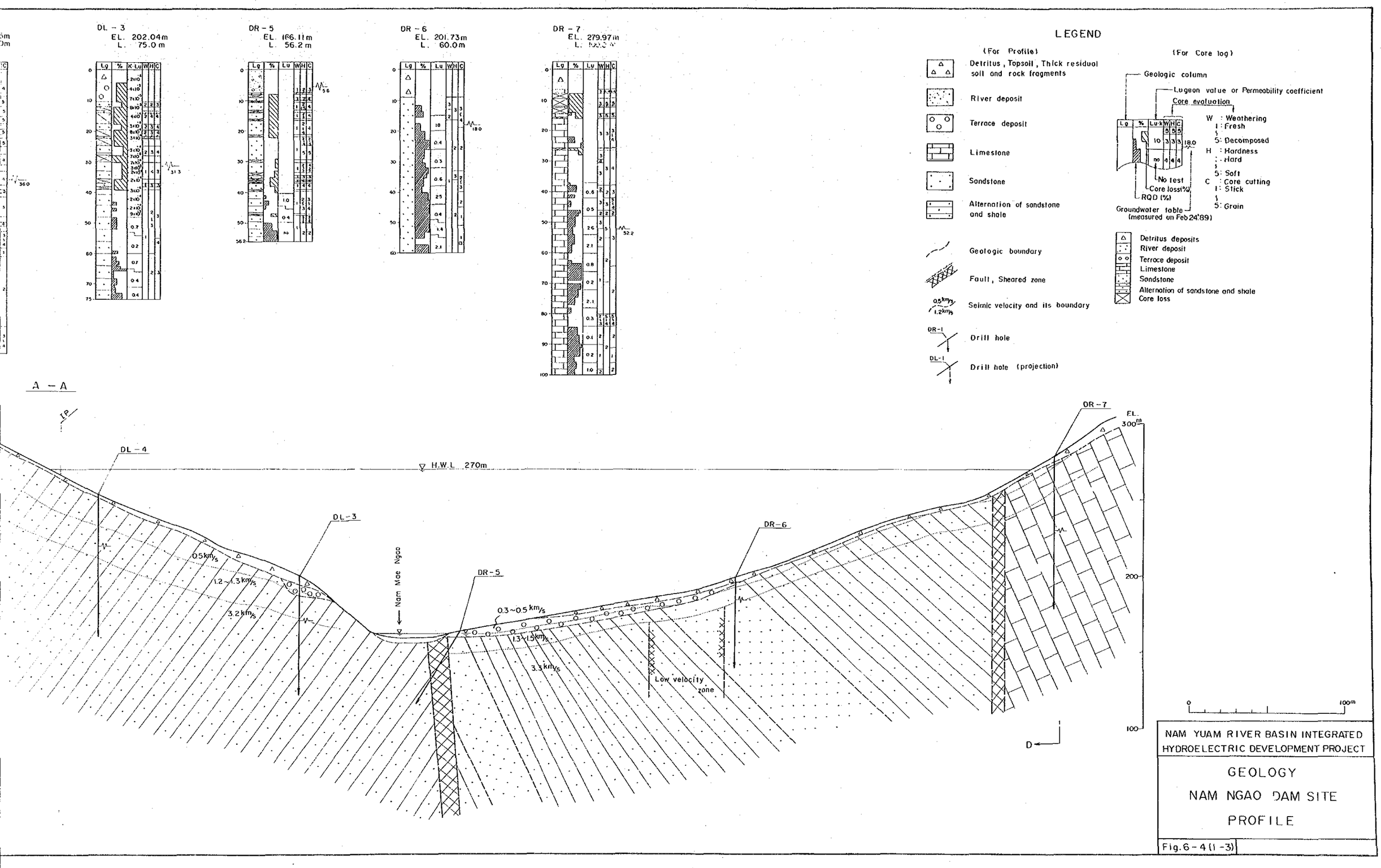

L E
Detrit
and
River
Terra
Limes
Alter
Strik
Strik
Geolo
Fault
Drill
Inclin
Addit
ditto
Localit
of rocl
NAM YUAM
HYDROELEC
NAM N
Fig 6-3 (1-
1,968.0N
1,967.5N
1,967.0N
1,966.5N
1,966.0N
392.5E
393.0E
393.5E
394.0E
394.5E
395.0E
395.5E
396.0E
Nam Nae Ngao
Nam Mae Ngao
Huai Mae Lui
Te
Ss/Sh
Ls
Rd
DR-0
DR-1
DR-2
DR-3
DR-4
DR-5
DR-6
DR-7
DR-8
DR-9
DR-10
DR-11
DR-12
DR-13
DR-14
DR-15
DR-16
DL-1
DL-2
DL-4
DL-4A
DL-5
DL-10
DL-11
DL-12
DL-13
DL-14
SP-1
SP-2
PH-1
286.7
280.7
250
527.0
558.5
550
500
450
418.5
478.0
467.0
329.0
287.0
263.0
321.4
350.3
365.0
267.0
309.8
193.0
368.0
367.5
351.9
359.0
370.8
400.4


LEGEND
Detritus, Topsoil, Thick residual soil and Rock fragment
Rd River deposit
Te Terrace deposit
Ls Limestone
Ss/Sh Alternation of sandstone and shale
Strike and dip of strata
Strike and dip of fault
Geologic boundary
Fault
Drill hole
Inclined drill hole
Additional drill hole for next stage
ditto (Inclined drill hole)
Locality for Microscopic observation of rock samples
0 500m
NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT
GEOLOGY
NAM NGAO DAM SITE
PLAN
Fig 6-3 (1-2)
1,968.0N
1,967.5N
1,967.0N
1,966.5N
1,966.0N
393.0E
393.5E
394.0E
394.5E
395.0E
395.5E
396.0E
Nam Mae Ngao
Huai Mae Lui


LEGE
Detritus, and Rock
River de
Terrace
Limestone
Alternatic
Strike o
Geologic
Fault
Axis of
Seismic
Drill h
Inclined
Addition
ditto (
Adit for
Nam Mae Ngoo
Rd
Te
Ls
Ss
1,967.4N
1,967.2N
1,967.0N
1,966.8N
1,966.6N
392.8E
393.0E
393.2E
393.4E
393.6E
393.8E
394.0E
394.2E
NAM YUAM
HYDROELECT
NAM NG
Fig. 6-3 (2-2


LEGEND
Detritus, Topsoil, Thick residual soil and Rock fragment
Rd River deposit
Te Terrace deposit
Ls Limestone
Ss Sh Alternation of sandstone and shale
Strike and dip of strata
Geologic boundary
Fault
Axis of Anticline
Seismic Prospecting line
Drill hole
Inclined drill hole
Additional drill hole for next stage
ditto (Inclined drill hole)
Adit for Further Investigation
0 100 200m
1,967.4N
1,967.2N
1,967.0N
1,966.8N
1,966.6N
393.0E
393.2E
393.4E
393.6E
393.8E
394.0E
394.2E
Nam Mae Ngao
Rd
Te
Ls
NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT
GEOLOGY
NAM NGAO DAM SITE
PLAN
Fig. 6-3 (2-2)


DL - 4
EL. 254.45m
L. 92.60m
DL - 3
EL. 202.04m
L. 75.0 m
DR - 5
EL. 166.11m
L. 56.2 m
DR - 6
EL. 201.73m
L. 60.0m
DR - 7
EL. 279.97m
(For Profile)
Detritus, Topsoil, Thick soil and rock fragments
River deposit
Terrace deposit
Limestone
Sandstone
Alternation of sandstone and shale
Geologic boundary
Fault, Sheared zone
Seimic velocity and its boul
Drill hole
Drill hole (projection)
A - A
H.W.L 270m
DL - 4
DL - 3
DR - 5
DR - 6
Nam Mae Ngao
0.5km/s
1.2~1.3km/s
3.2km/s
0.3~0.5 km/s
1.3~1.5km/s
3.3km/s
Low velocity zone
300
200
100
D



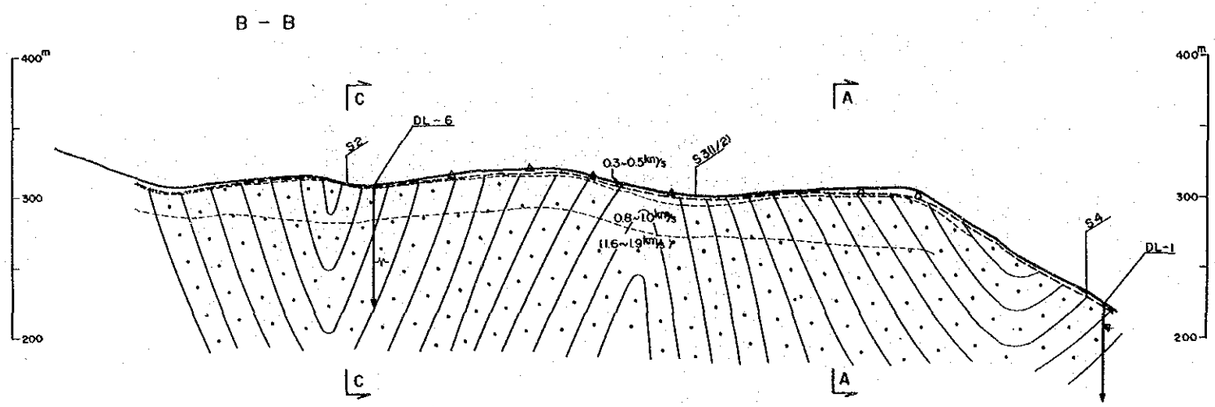
NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT

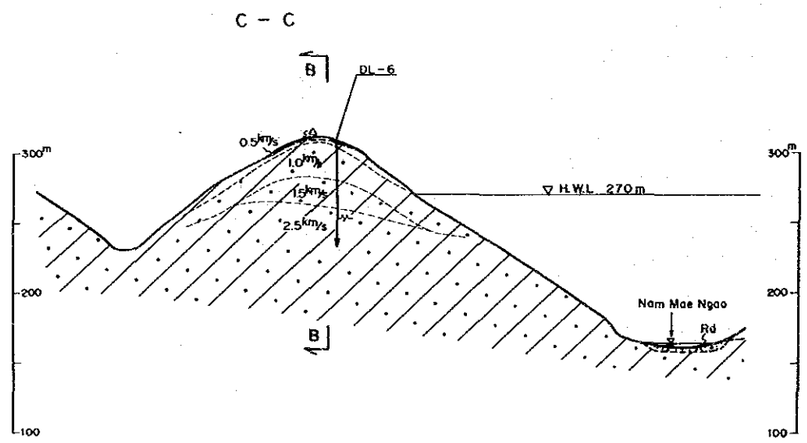
GEOLOGY

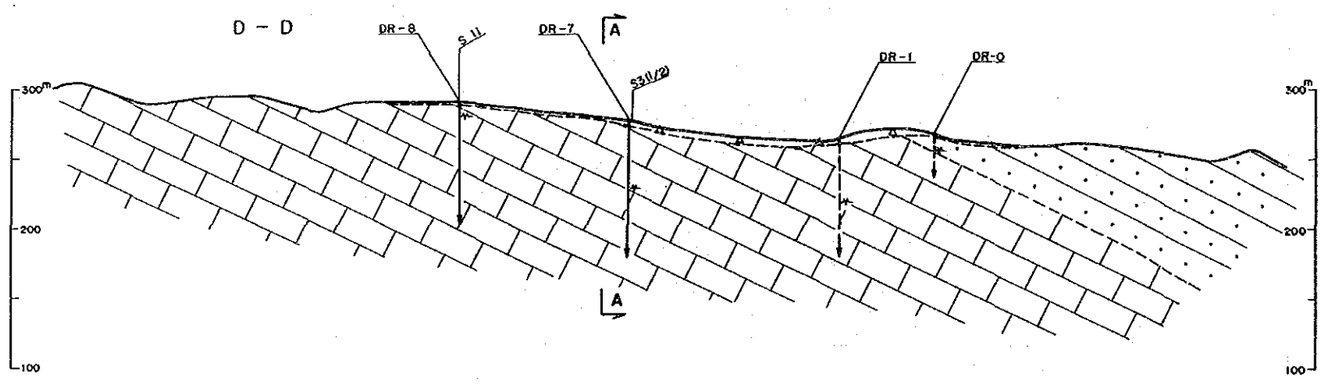
NAM NGAO DAM SITE

PROFILE

Fig. 6 - 4 (1 - 3)







LEGEND

- Detritus, Topsoil, Thick residual soil and Rock fragment
- River deposit
- Terrace deposit
- Limestone
- Alternation of sandstone and shale
- *Geologic boundary*
- 1.0km/s / 2.5km/s — Seismic velocity and its boundary
- DL-6 — Drill hole
- Groundwater table in drill hole
- DR-0 — Drill hole (projection)

0 100 200m

NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT

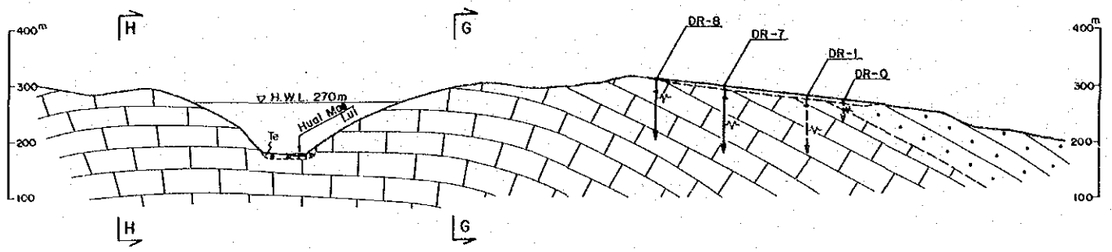
GEOLOGY

NAM NGAO DAM SITE

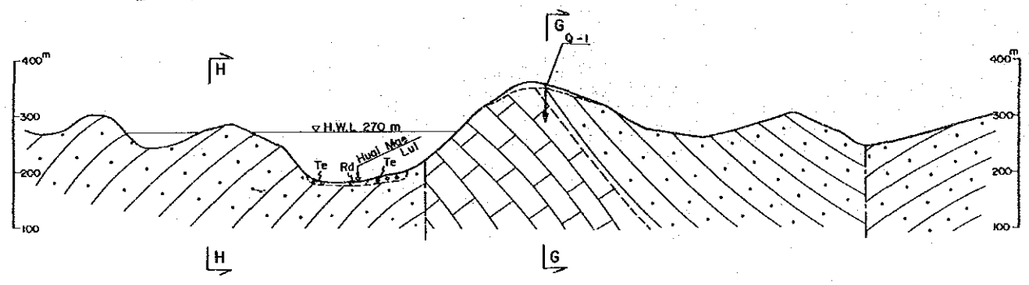
PROFILE

Fig 6-4 (2-3)

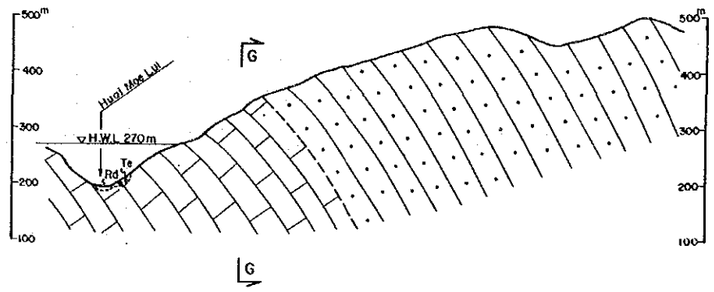
D – D



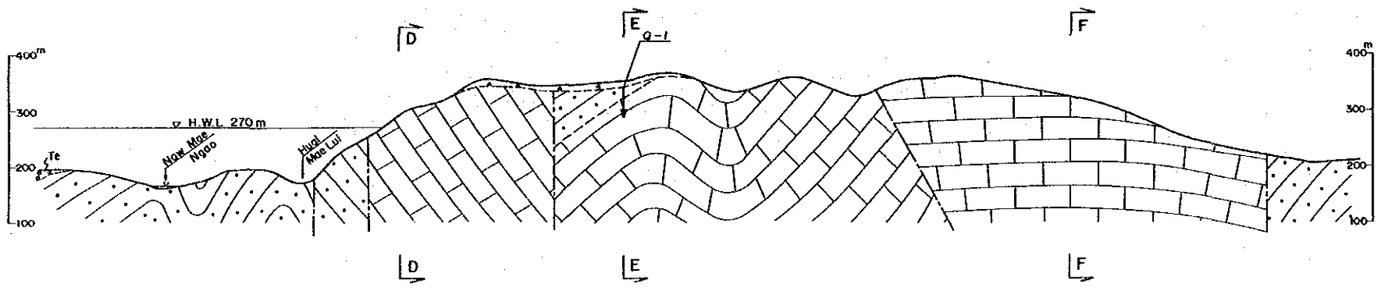
E – E



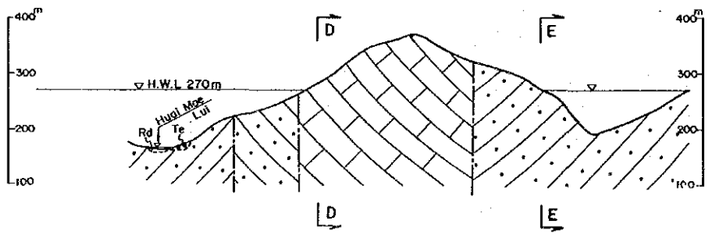
F – F



G – G



H – H



LEGEND

- Detritus, Topsoil, Thick residual soil and Rock fragment
- River deposit
- Terrace deposit
- Limestone
- Alternation of sandstone and shale
- Geologic boundary
- Fault
- 1.0 km/s, 2.5 km/s — Seismic velocity and its boundary
- DL-6 — Drill hole
- Groundwater table in drill hole
- DR-0 — Drill hole (projection)

0 — 500m

NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT

GEOLOGY

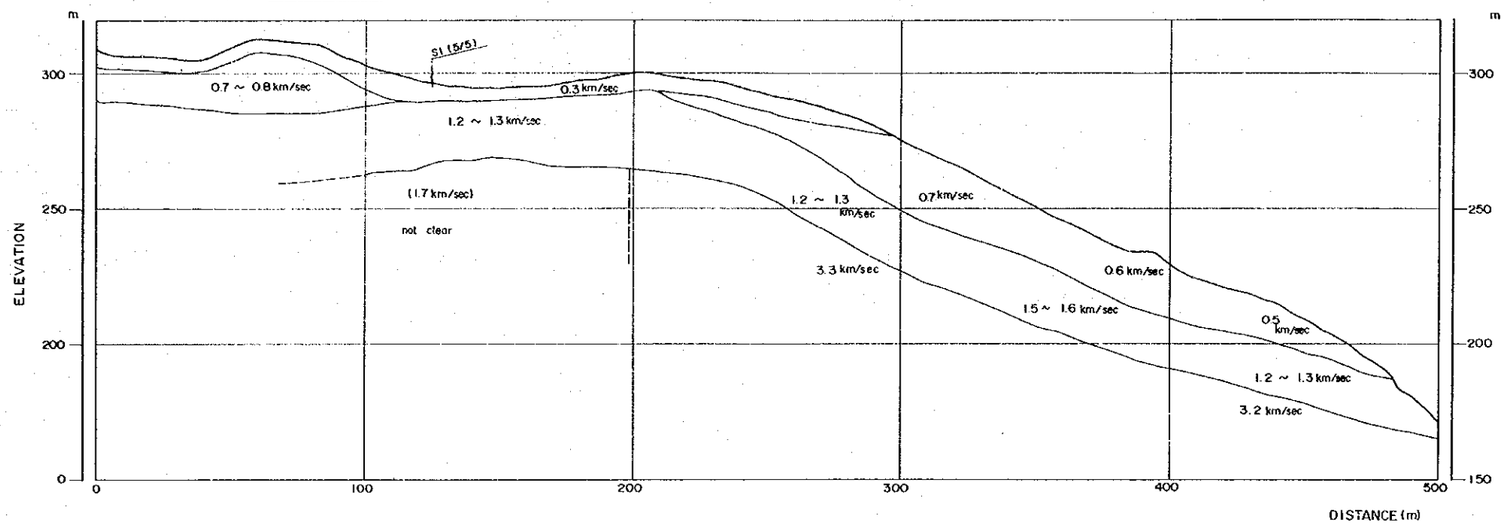
NAM NGAO DAM SITE

PROFILE

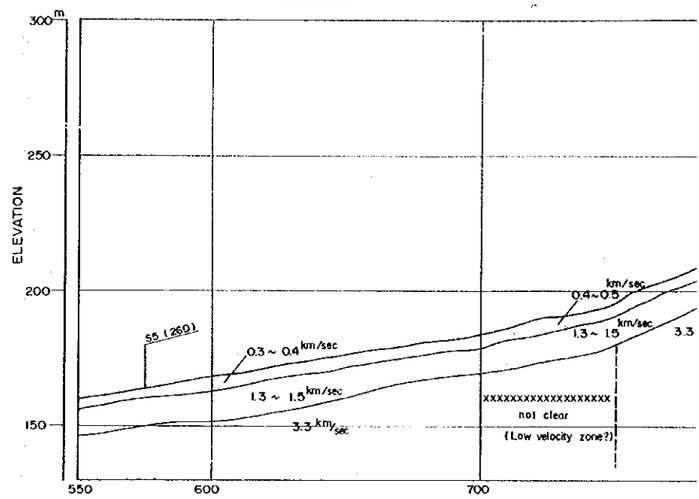
Fig 6-4 (3-3)

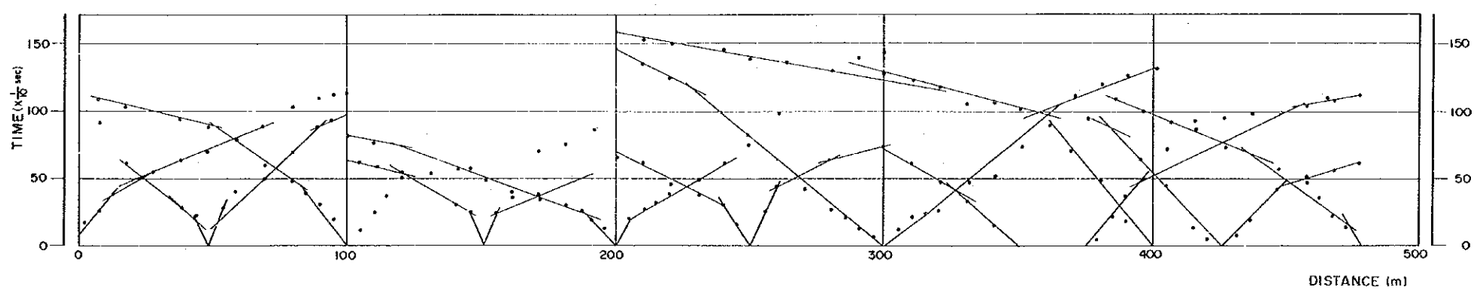
S3 (1/2)

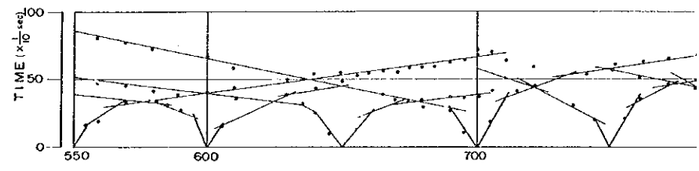
(UNIT) km /sec

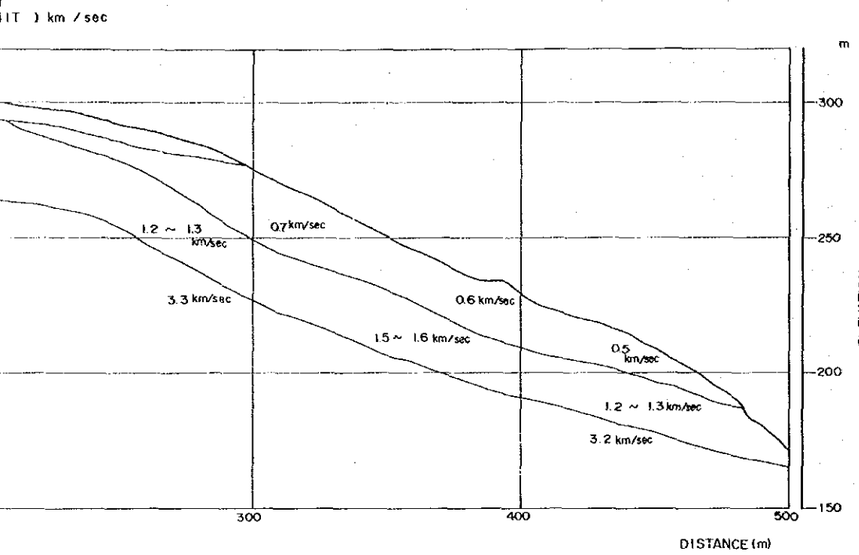


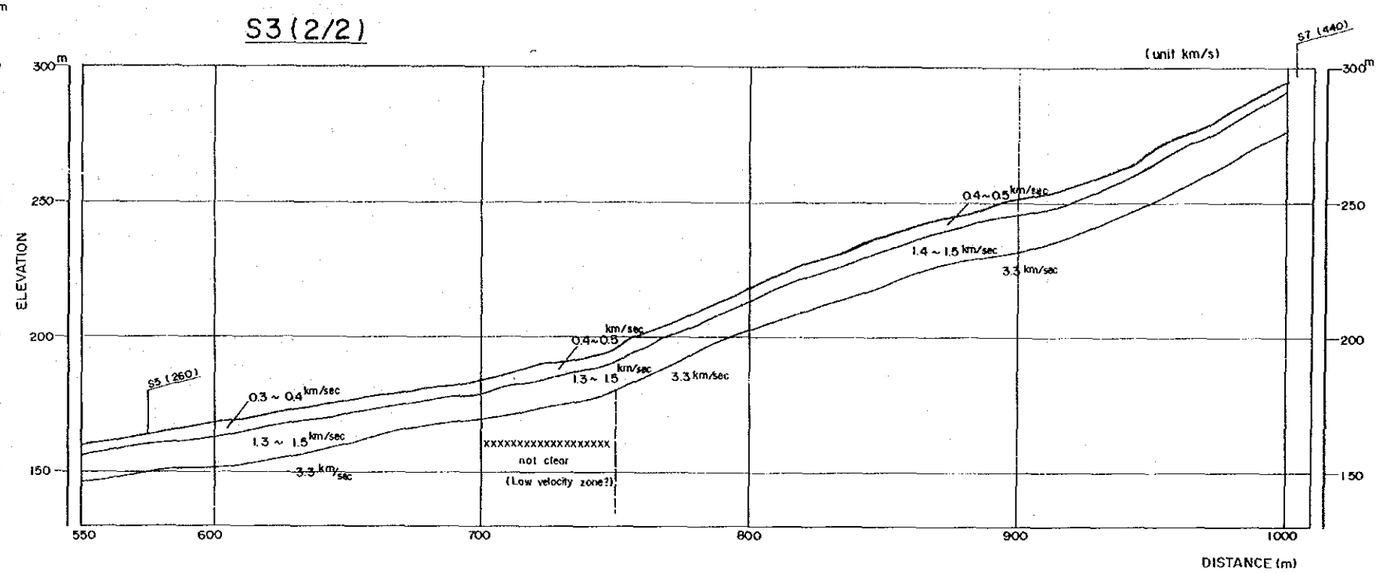
S3 (2/2)

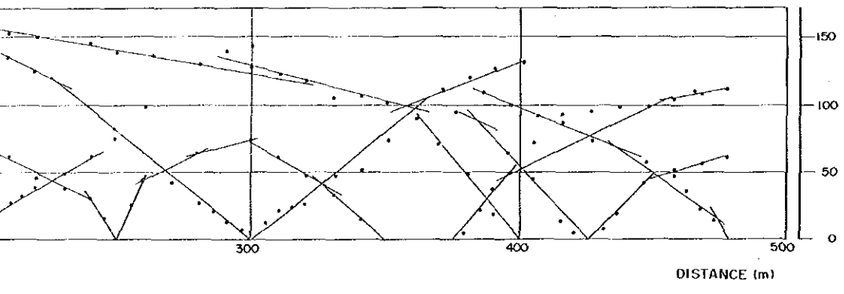


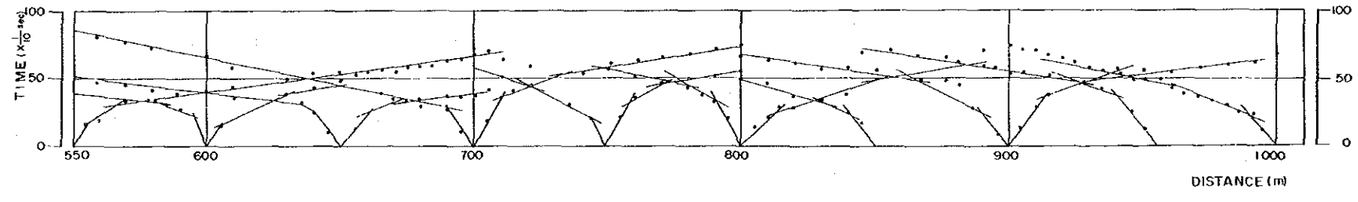












NAM YUAM RIVERBASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT

GEOLOGY

SEISMIC PROFILE and TIME DISTANCE CURVE

S3(1/2), S3(2/2) lines

Fig. 6 - 5

LEGEND

Tertiary Quaternary

- Silt , sand , gravel
- Shale , Sandstone , Conglomerate
- Limestone , Calcareous sandstone

Mesozoic

- Calcareous shale
- Alternation of sandstone and shale

Paleozoic

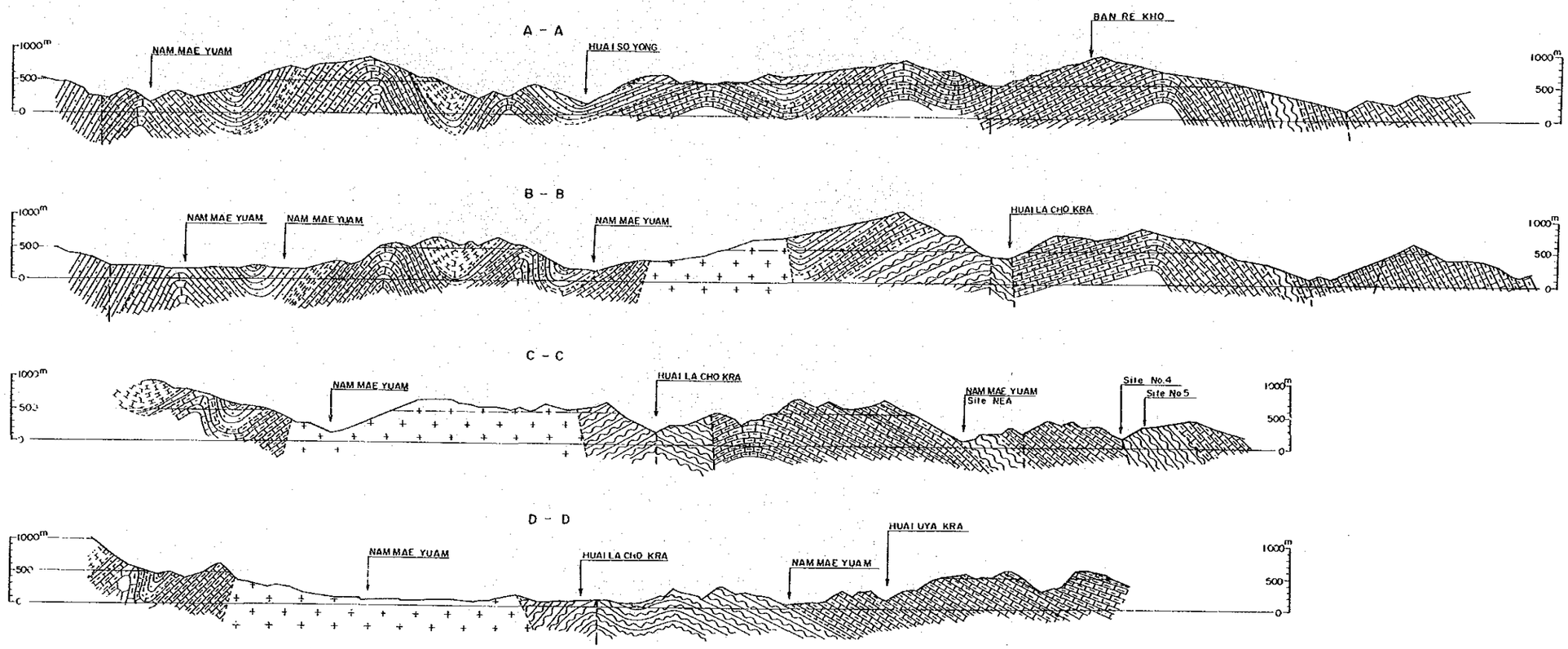
- Shale , Chert , Sandstone , Quartzite
- Bedded Limestone Sandy Limestone
- Quartzite , Quartz schist Calcareous schist
- Granite
- Basalt

- Strike and dip of strata
- Strike and dip of fault
- Aerophoto lineament
- Axis of anticline
- Axis of syncline
- Geologic boundary
- Sink hole (detected by Aerophoto Interpretation)
- Depression (detected by Aerophoto Interpretation)
- Locality number for chemical analysis of rock sample

NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT

GEOLOGY
RESERVOIR AREA OF
MAE LAMA LUANG DAM
PLAN

Fig. 6-6



LEGEND

Paleozoic ~ Mesozoic

- Limestone, Calcareous sandstone
- Calcareous shale
- Alternation of sandstone and shale
- Shale Chert, Sandstone Quartzite
- Bedded Limestone, Sandy Limestone
- Quartzite, Quartz Schist, Calcareous Schist

- Granite
- Fault
- Aerophoto lineament
- Geologic boundary

0 — 3km

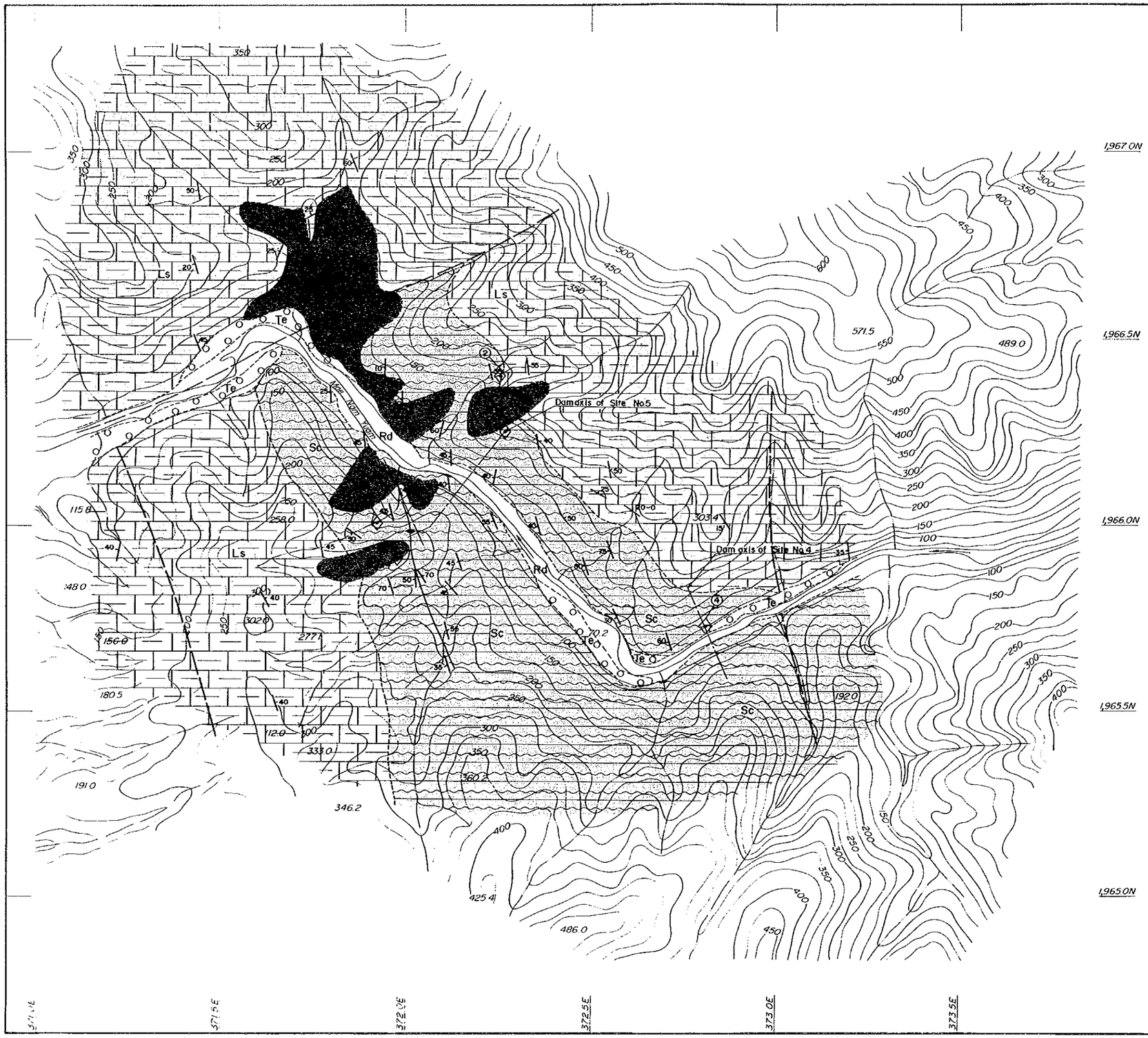
NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT

GEOLOGY

RESERVOIR AREA OF MAE LAMA LUANG DAM

PROFILE

Fig 6 - 7



LEGEND

Detritus, Tops and rock fra

Rd River deposit

Te Terrace depos

Ls Limestone

Sc Quartzite, Qua and Sandy Li

60 Strike and dip

Geologic boun

Aerophoto line

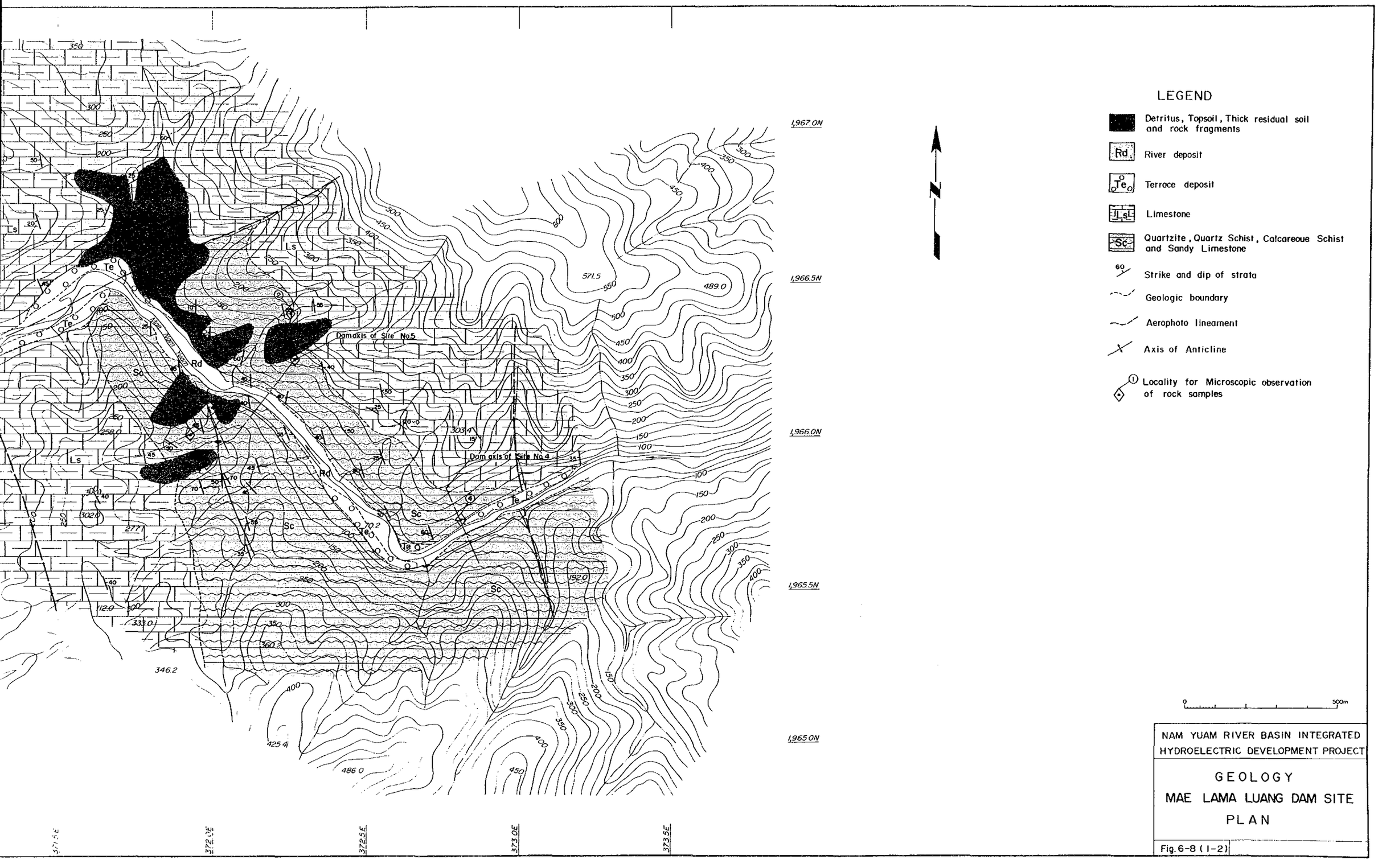
Axis of Antic

Locality for M of rock samp

NAM YUA
HYDROELE

MAE L

Fig. 6-8 (1



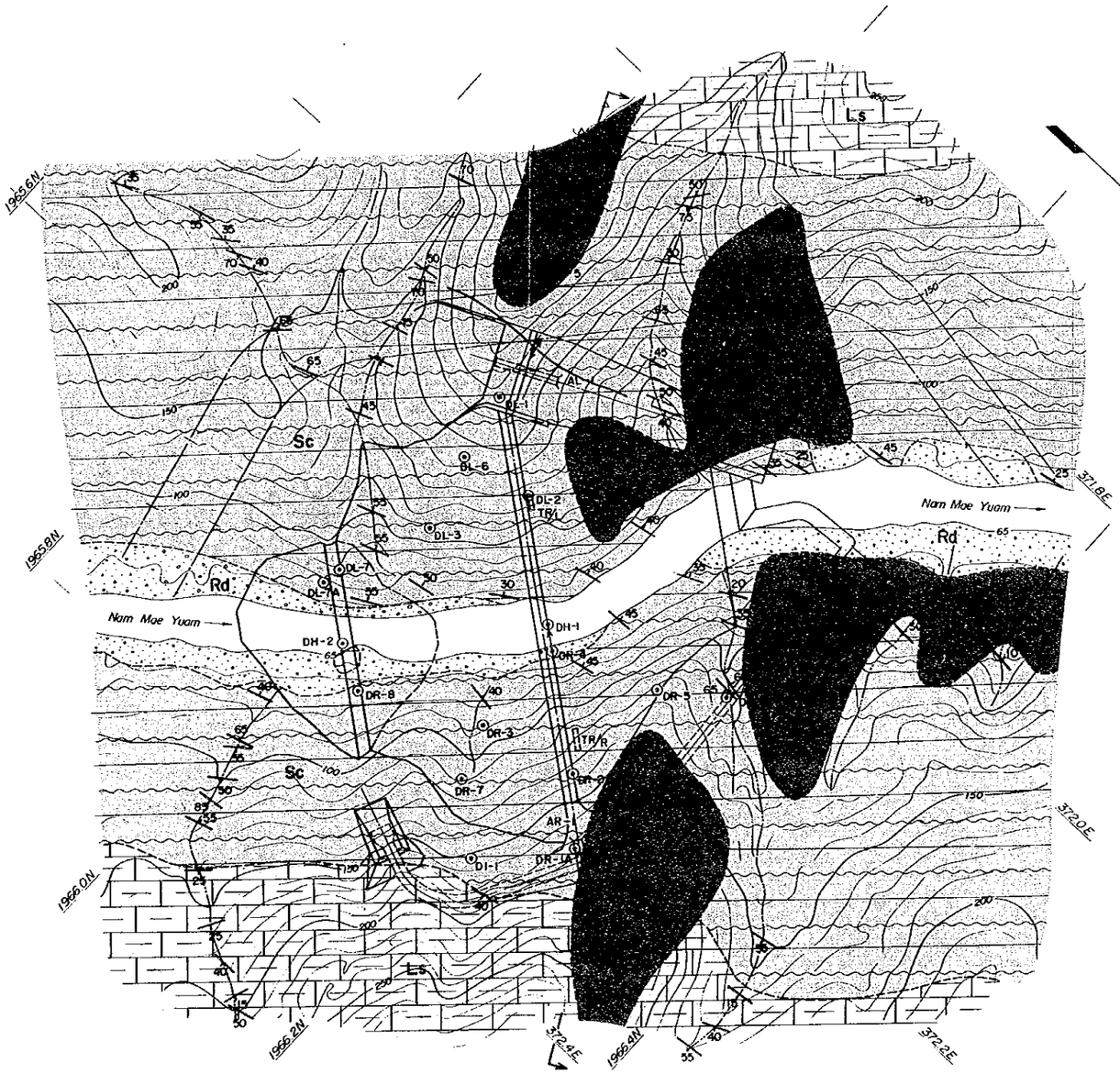
NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT

GEOLOGY

MAE LAMA LUANG DAM SITE

PLAN

Fig. 6-8 (1-2)



LEGEND

- Detritus, Topsoil, Thick residual soil and rock fragments
- Rd — River deposit
- Ls — Limestone
- Sc — Quartzite, Quartz Schist, Calcareous Schist and Sandy Limestone
- 60 — Strike and dip of strata
- Geologic boundary
- Axis of Anticline
- Axis of Syncline
- Drill hole (Vertical)
- Inclined drill hole
- Adit for Further Investigation

0 100 200m

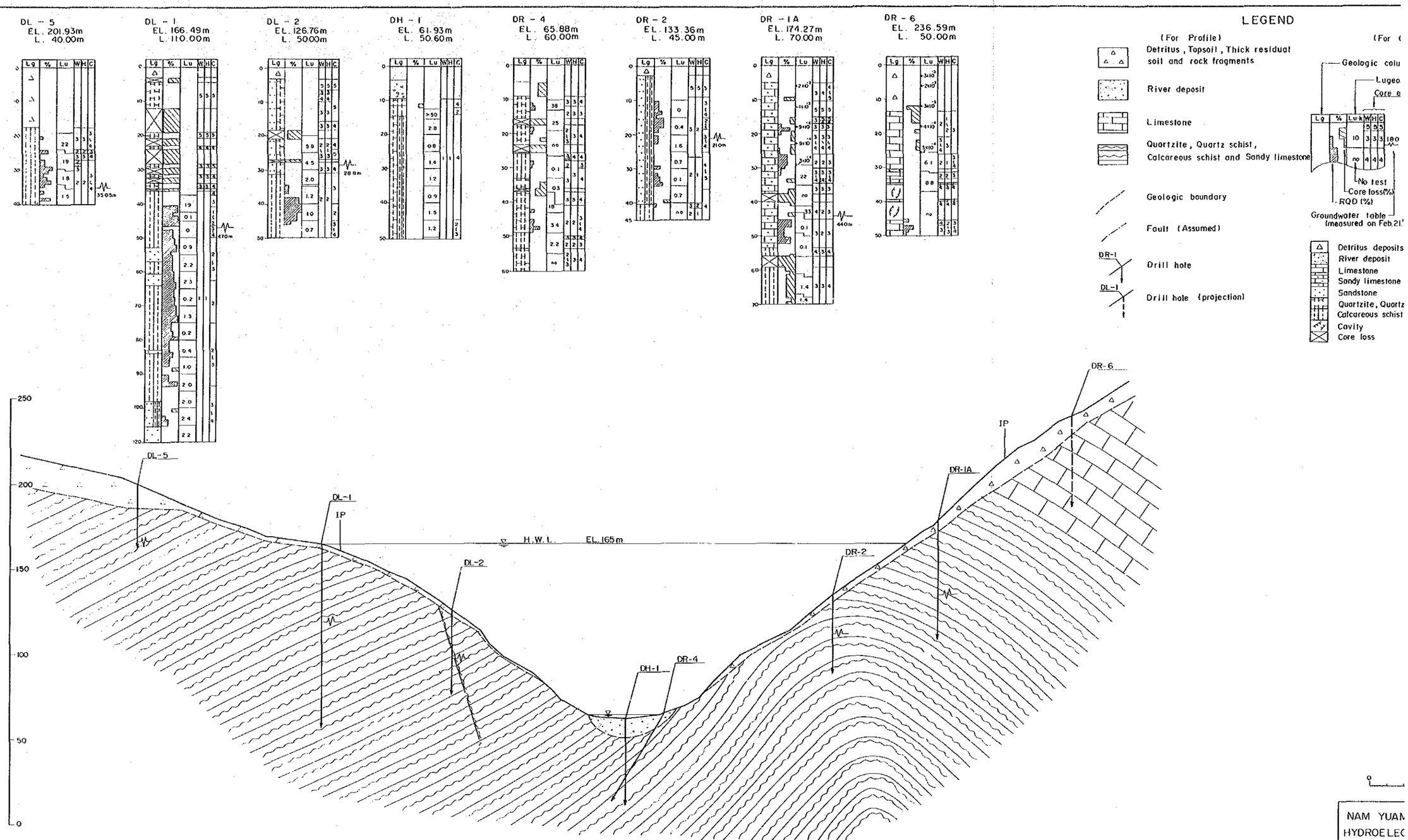
NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT

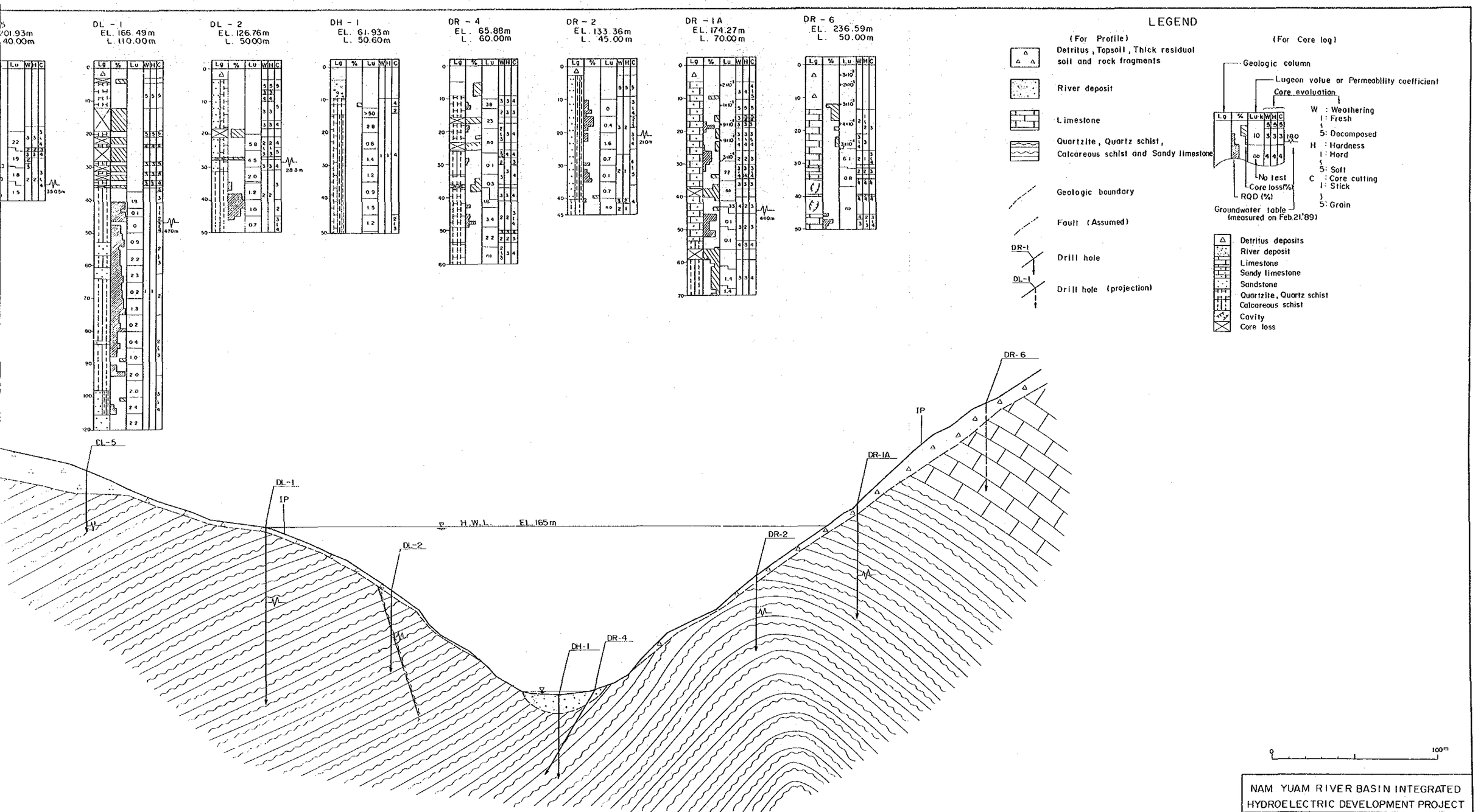
GEOLOGY

MAE LAMA LUANG DAM SITE

PLAN

Fig. 6 - 8(2-2)


DL - 5
EL. 201.93m
L. 40.00m
DL - 1
EL. 166.49m
L. 110.00m
DL - 2
EL. 126.76m
L. 50.00m
DH - 1
EL. 61.93m
L. 50.60m
DR - 4
EL. 65.88m
L. 60.00m
DR - 2
EL. 133.36m
L. 45.00m
DR - 1A
EL. 174.27m
L. 70.00m
DR - 6
EL. 236.59m
L. 50.00m
LEGEND
(For Profile)
Detritus, Topsoil, Thick residual soil and rock fragments
River deposit
Limestone
Quartzite, Quartz schist, Calcareous schist and Sandy limestone
Geologic boundary
Fault (Assumed)
Drill hole
Drill hole (projection)
Geologic colu
Lugeo
Core e
No test
Core loss(%)
RQD (%)
Groundwater table (measured on Feb.21
Detritus deposits
River deposit
Limestone
Sandy limestone
Sandstone
Quartzite, Quartz
Calcareous schist
Cavity
Core loss
H.W.L. EL. 165m
IP
DL-5
DL-1
DL-2
DH-1
DR-4
DR-2
DR-1A
DR-6
250
200
150
100
50
0
NAM YUAN
HYDROELEC
MAE L
Fig. 6-9 (1-



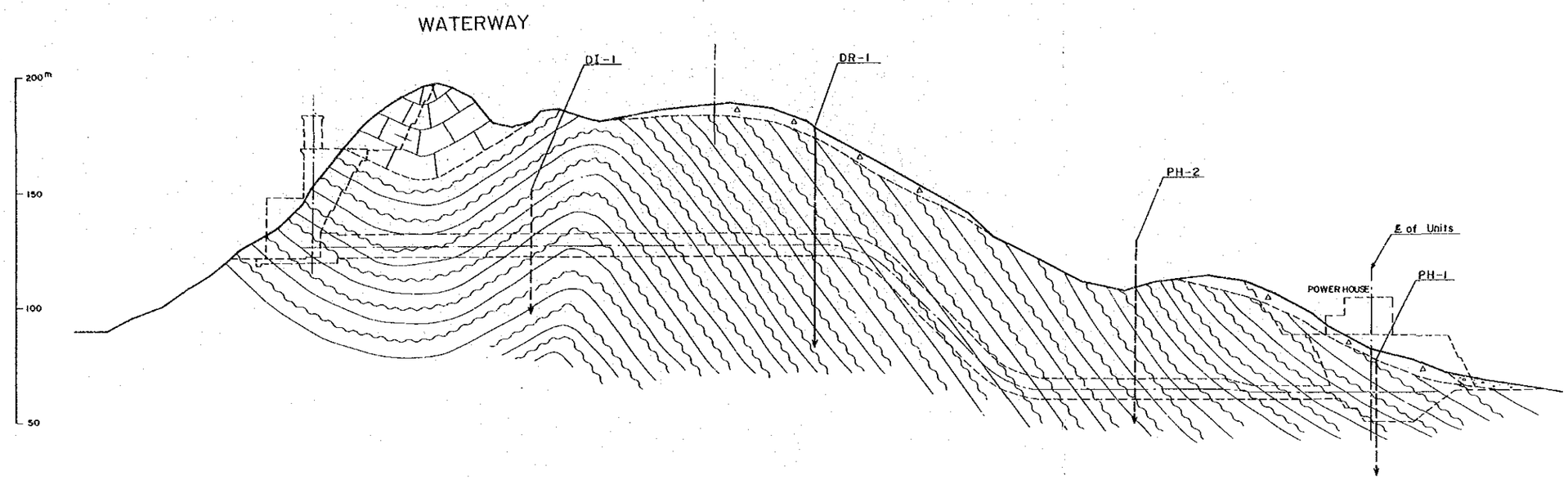
NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT

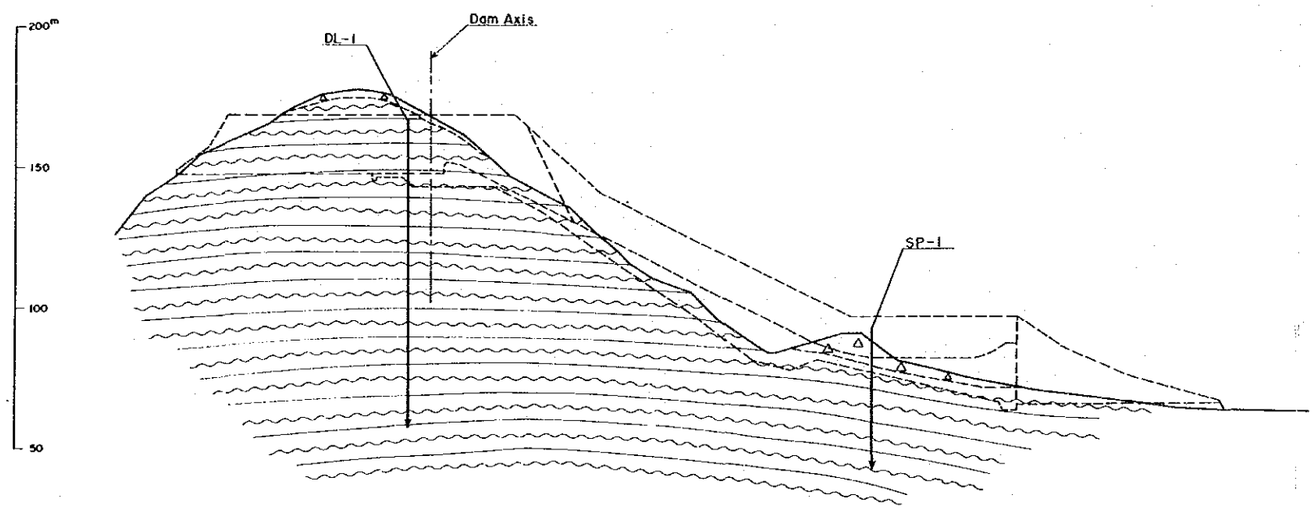
GEOLOGY

MAE LAMA LUANG DAM SITE

PROFILE

Fig. 6 - 9 (1-2)





LEGEND

- Detritus, Topsoil, Thick residual soil and rock fragments
- River deposit
- Limestone
- Quartzite, Quartz schist, Calcareous schist, Sandy limestone
- Geologic boundary
- DR-1 Drill hole
- DI-1 Drill hole (Projection)

0 — 100m

NAM YUAM RIVER BASIN INTEGRATED HYDROELECTRIC DEVELOPMENT PROJECT

GEOLOGY
MAE LAMA LUANG DAM SITE
PROFILE
WATERWAY · SPILLWAY

Fig. 6-9 (2-2)