

Instructions for reading meteorological instruments

Instruments to be read and reset / emptied at 0900 hours each morning.

1. Rain gauge:

(i) Insert in ground so that rim is 12 inches above ground surface.

(ii) Remove upper funnel section and empty internal bottle and internal bucket of water. Replace bucket, bottle and funnel.

(iii) To measure rainfall, pour water (or melted snow, if applicable) from bottle into measuring cylinder. Read amount of precipitation from base of meniscus.

(iv) If the rain gauge bottle has overflowed into the bucket, add water from bucket to measuring cylinder before taking reading.

(v) Record reading in tables in this log book.

(vi) If rain has fallen, but this is insufficient to give a reading on the measuring cylinder, record "Tr" (= Trace) in the log book.

(vii) If something goes wrong and you spill the raingauge contents (or something similar), be honest; it's better to have no record for that day than a misleading one.

(viii) Repeat from step (ii).

2. Maximum and minimum thermometers:

(i) In the tables in this log book, record the temperatures from the base of the metal sliders in each thermometer.

(ii) To reset the thermometers, use the magnet to drag the sliders back into contact with the mercury (try turning the magnet the other way around if this proves to be difficult!).

(iii) Replace the thermometers in their original position (if it was necessary to move them!).

Thanks for all your help.

TEMPERATURE

(°C)

AIR PRESSURE (INCHES)

COMMENTS, OBSERVATIONS (GRATUITOUS OR OTHERWISE)

DATE (0900 H)

RAIN FALL

MAX

MIN

| DATE (0900 H) | RAIN FALL | MAX | MIN | AIR PRESSURE (INCHES) | COMMENTS, OBSERVATIONS (GRATUITOUS OR OTHERWISE) |
|-------------------|---------------------|------|-------|-----------------------|---|
| S 14.7.84 0907 | Tr | 28.4 | 5.5 | 26.98 | Cloud level up to 1500m most of afternoon. Descends to top of steep descent & away there by 11.00pm. Clear afterwards 31/781. Dashed clear at Lago 1477 |
| S 15.7.84 | Tr | 31.0 | 6.4 | 26.53 | Cloud base ~ 1200 m. 8/8 cloud cover. |
| M 16.7.84 | Tr | 25 | 10 | 26.57 | In cloud. @ 5.50: cloud base above str. 2315: cloud base at Lago End. |
| T 17.7.84 | Tr (0.1?) (~0.1) | 24.2 | 15.3 | 26.54 | Dashed sunny. 1/8 cloud at 0900 (some cloud on nearby knoll). Cloud base gradually descended, reaching str at 1800; cleared ~ 2300. |
| W 18.7.84 | Tr | 32.4 | 4.9 | 26.48 | Max temp occurred at 0900, when reading taken. A clear sunny day; stayed clear at night. |
| T 19.7.84 0900 | 0 | 35.0 | 15.6 | 26.31 | Sunny (0/8 cloud). Little haze on mts. Cloud came ^{up} at lunchtime. Reached level of OSil by c. 7.30 pm. |
| F 20.7.84 0915 | 0.2 | 34.5 | 11.6 | 26.47 | wholesome morning. Rather wet mist 0400 |
| S 21.7.84 0905 | Tr | 20.6 | 9.7 | 26.49 | N.B. New max min. readings only. Sun breaking through haze 9.00 am. Sunny am. Cloud at height of nearby knolls by lunchtime. Clear. Mist came down by 6.00 pm, quite wet |
| S 22.7.84 | Tr | 32.5 | 11.0 | 26.41 | Dashed clear. Old max min readings only. |
| M 23.7.84 0905 | 0 | 41.3 | 13.7 | 26.38 | Hot sunny all day. Night began clear. Suddly high wind got up. (11.00 am high wind from East) Some high cloud at dawn. Still sunny. Some cloud around 1.00 pm. overcast, wind died down at dusk. Some mist in the late evening. |
| T 24.7.84 | Tr | 35.0 | 9.1 | 26.53 | A mixture of sun & mist during |
| W 25.7.84 | Tr | 19° | 12.0° | 26.40 | Bit of sun in the morning. M only forecast. |

| DATE (0900 h) | RAIN FALL (mm) | TEMPERATURE (°C) | | AIR PRESSURE (INCHES) | COMMENTS, OBSERVATIONS |
|------------------|----------------------|---------------------|------|-----------------------------|---|
| | | MAX | MIN | | |
| T 26.7.84 | Tr | 17.4 ^o | 10.0 | 26.48 | |
| F 27.7.84 | Tr | 25.2 | 6.4 | 26.55 | Hot sunny day. Some mist near base camp for a brief spell at 8.00 pm. |
| S 28.7.84 | ○ | 34.5 | 12.0 | 26.50 | Blistering hot sunny day |
| S 29.7.84 | ○ | 42 | 17.8 | 26.37 | Hot sunny day - ^{high} cloud comes over at 5 am temporarily + a few sput of rain. Sunny again then a few more sput from a few off chonderton 11 am |
| M 30.7.84 | Tr | 30.8 | 17.7 | 26.12 | v. windy, but sunny cloud cover 50% at 9 am Rain started in evening |
| T 31.7.84 | 14.4 mm | 29.2 | 11.1 | 26.32 | Cleared up by 10 am quite early. |
| W 1.8.84 | ○ | [29.2] | 7.8 | 26.55 | Sunny. |
| T 2.8.84 | ○ | 30.8 | 8.9 | 26.44 | Hot sunny morning TP. m. Some haze at 5.00 pm → rain which lasted all night |
| F 3.8.84 9.15 | 5.2 | 31.8 | 7.1 | 26.36 | Rain getting harder at 9.00 am. Cloud at level of lake hills above lake. Stopped raining c. 10.00 pm. |
| S 4.8.84 | 16.45 | 13.3 | 7.2 | 26.50 | warmed dead |
| S 5.8.84 | 1.3 | 21.0 | 6.4 | 26.60 | |
| M 6.8.84 | ○ | 22.8 | 6.1 | 2.55 | sunny but cool. Low lying cloud esp. over lake 8.45 am |

TEMPERATURE

Station 9:00 am - 4:00 pm

| DATE | RAIN FALL mm | TEMPERATURE °C MAX MIN | | AIR PRESSURE (INCHES) | COMMENTS, OBSERVATIONS |
|-----------|-----------------------|------------------------------|------------------------|-----------------------------|---|
| T 7-8-84 | Rain guess Station | 10.9 | 8.0 | 26.50 | Prob rain = Tr. Dotted clouds, cloud flying |
| J 8-8-84 | Guess => Tr. | 17.0 | 13.5 | 26.49 | Grey cloud & fine rain |
| T 9-8-84 | Guess Tr | 21.0 | 5.0 | 26.53 | Patchy cloud heavy dew hazy |
| F 10-8-84 | Guess Tr | 14.5 | 11.5 | 26.50 | Hazy, warm, patchy cloud |
| S 11-8-84 | Guess Duff | 19.5 | 3.5 | 26.37 | Sunny, clear = <u>no</u> clouds. |
| S 12-8-84 | Guess 0. | 19.5 | 4.0 | 25.95 | Sunny, clear - no clouds. Misty by 5pm. |
| M 13-8-84 | Guess Tr | 22.0 | 7.0 | 26.26 | Sunny, light cloud, hazy. Thick mist by 1pm. |
| T 14-8-84 | Guess 0.2 mm | 20.0 | 12.0 | 26.34 | Rain 7-9am. Mist |
| W 15-8-84 | Trace? | 17.0 | 10.5 | 26.42 | Mist again. V light precip 6pm (in cloud) |
| T 16-8-84 | Trace | 17.0 | 19.0 | 26.57 | Mist all flaming day. Yak. |
| F 17-8-84 | 0 | 19.0 24.0 | 5.0 15.0 | 26.14 | all at 12:00 noon - find the next station! Sunny morning |
| S 18/8/84 | | 27.0 | 15.2 | not found | |
| S 19-8-84 | 0. | 35? | 12 | 26.13 | clear & sunny o/p cloud. |
| 10+10 | | | | | |

(B7)

Today I noticed that the thermometer slips down relative to the scales - Has anyone else noticed?
To take a reading you must lift the glass until the mercury reading on each scale is the same then
read off Max Min values.

Survey of 12/5 LA PREVISITA DE SANTA DOMINICA

The well-decorated inlet above Millways
I. Houghton and S. Gale.

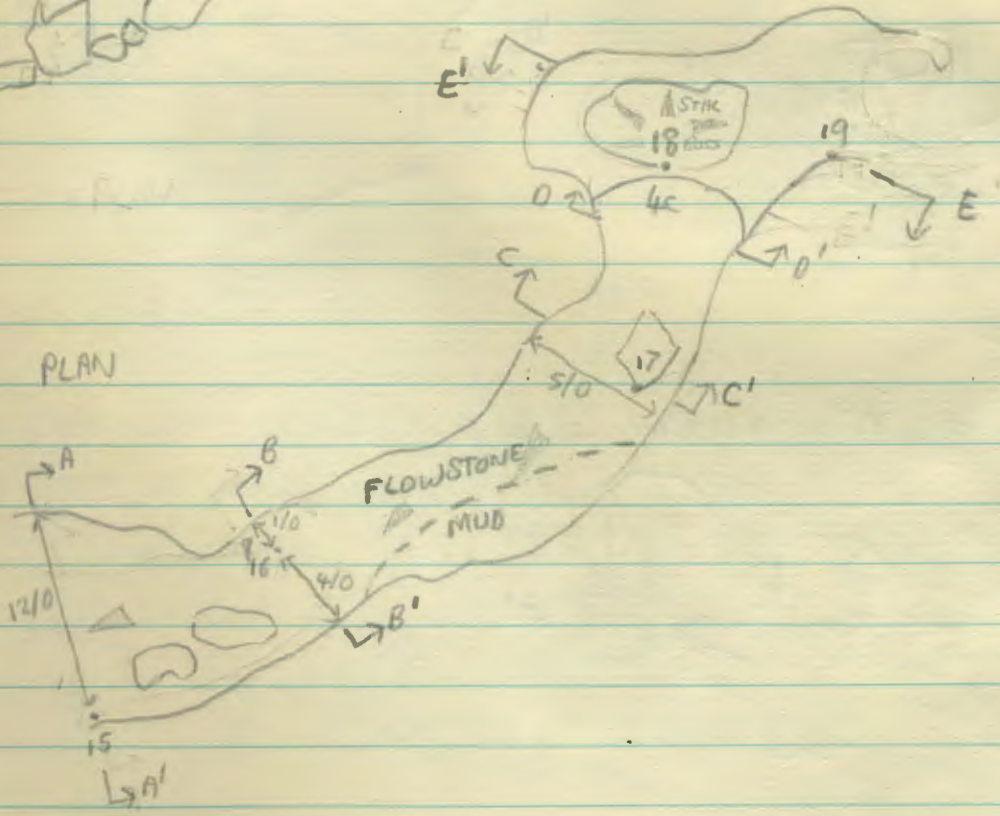
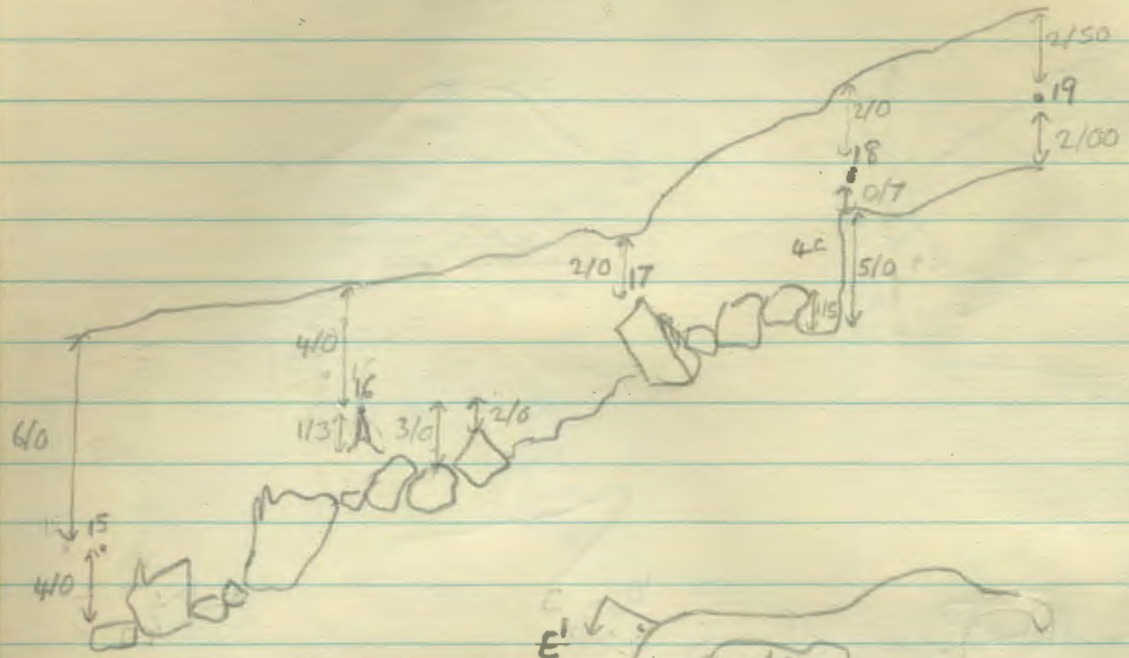
Instruments: Compass 949865 (Suerts)
Clinometer 113779 (Suerts)

| Station | Compass | Climo | Distance | Width at Sta | Height of Sta above floor |
|-----------|---------|---------|----------|------------------------|---------------------------|
| 16 → 15 ✓ | 025 ✓ | -33 ✓ | 10/67 ✓ | 12/0 ⁽¹⁸⁾ ✓ | 4/0 ⁽¹⁵⁾ ✓ |
| 16 → 17 ✓ | 246 ✓ | +13/5 ✓ | 16/31 ✓ | 8/0 ⁽¹⁸⁾ ✓ | 1/3 ⁽¹⁸⁾ ✓ |
| 18 → 17 ✓ | 346 ✓ | -41/5 ✓ | 8/50 ✓ | - | 0/7 ⁽¹²⁾ ✓ |
| 18 → 19 ✓ | 246 ✓ | +29/5 ✓ | 5/28 ✓ | 1/5 ⁽¹⁹⁾ ✓ | 0 ⁽¹⁹⁾ ✓ |
| 20 → 19 ✓ | 049 ✓ | -07 ✓ | 7/53 ✓ | - | - |
| 21 → 20 ✓ | 061/5 ✓ | -07 ✓ | 8/00 ✓ | - | 1/73 ⁽²¹⁾ ✓ |
| 21 → 22 ✓ | 285 ✓ | -27 ✓ | 14/94 ✓ | - | - |
| 23 → 22 ✓ | 028 ✓ | +00/5 ✓ | 5/21 ✓ | - | - |
| 24 → 23 ✓ | 077 ✓ | +09 ✓ | 5/09 ✓ | - | - |
| 25 → 24 ✓ | 052 ✓ | -33 ✓ | 5/27 ✓ | - | 0/7 ⁽²⁵⁾ ✓ |
| 25 → 26 ✓ | 264 ✓ | +20 ✓ | 2/30 ✓ | - | - |
| 26 → 27 ✓ | 255 ✓ | -06 ✓ | 6/53 ✓ | - | - |

1c Checked against survey sheets

(B9)

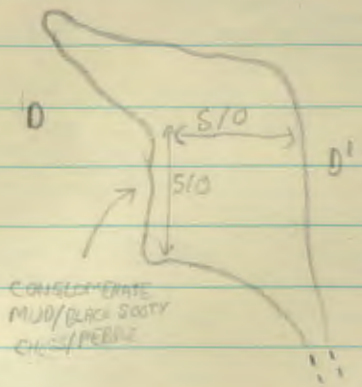
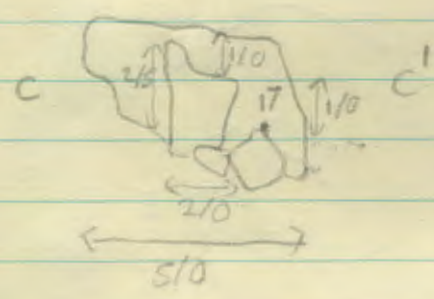
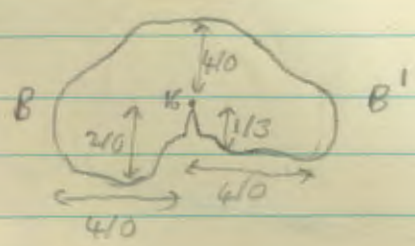
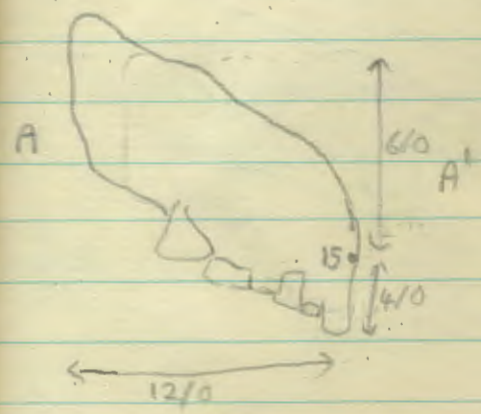
ELEVATION (12/5) IH, SG



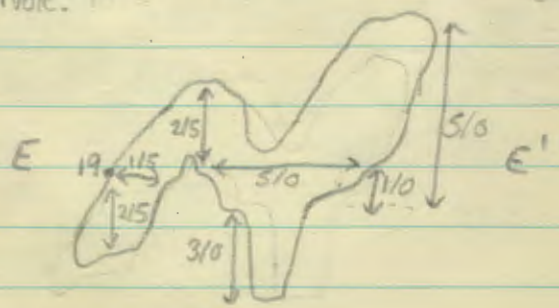
PLAN

315
 -327
 on main
list

X SECTIONS 12/5 FH, SG

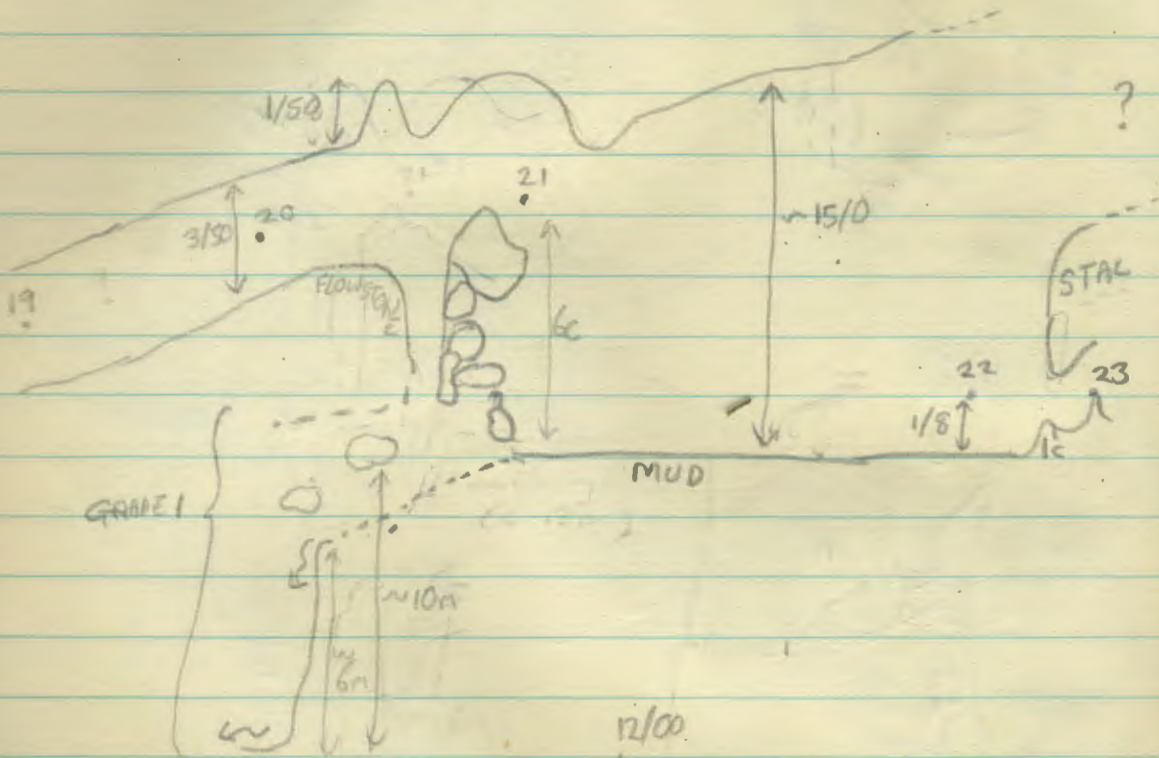


Note: This X Sect is viewed looking in direction of entrance (The opposite way to the others)

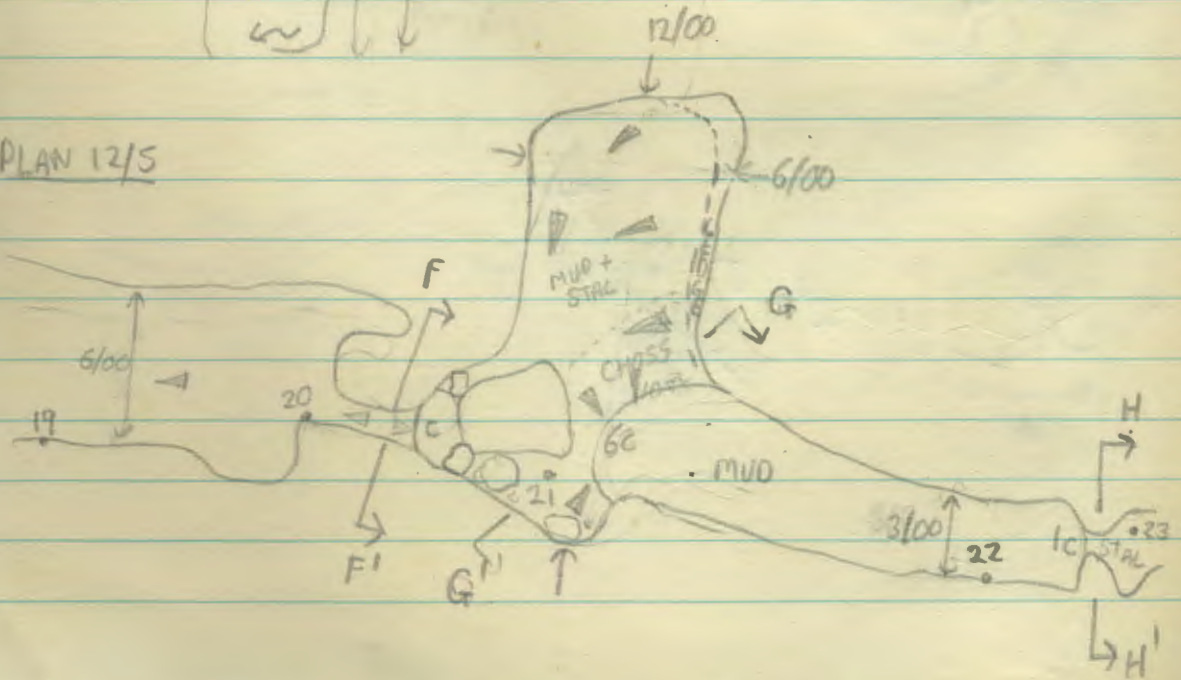


(B11)

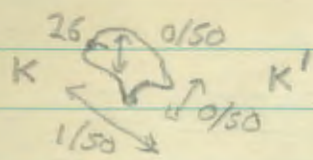
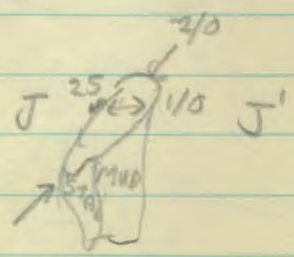
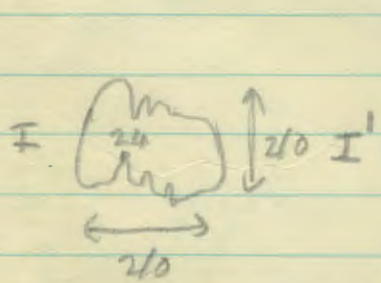
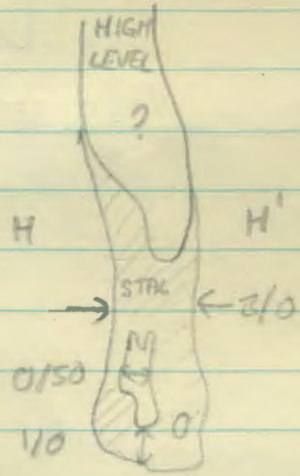
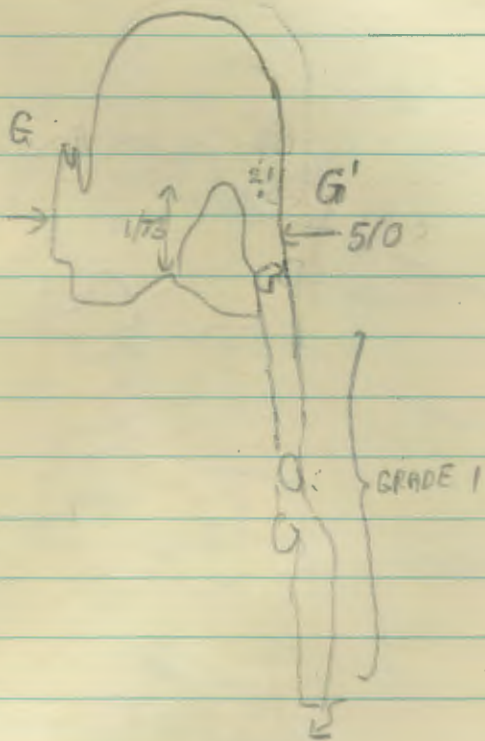
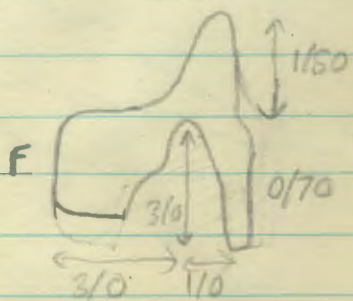
ELEVATION 12/5 SG, IH (LA PREVISTA DE SANTA DOMINICO)



PLAN 12/5



XSECTIONS 12/S IH/SG



(B12)
end

ELEVATION 12/5 IH, SG LA PREVISTA DE SANTA DOMINICO

