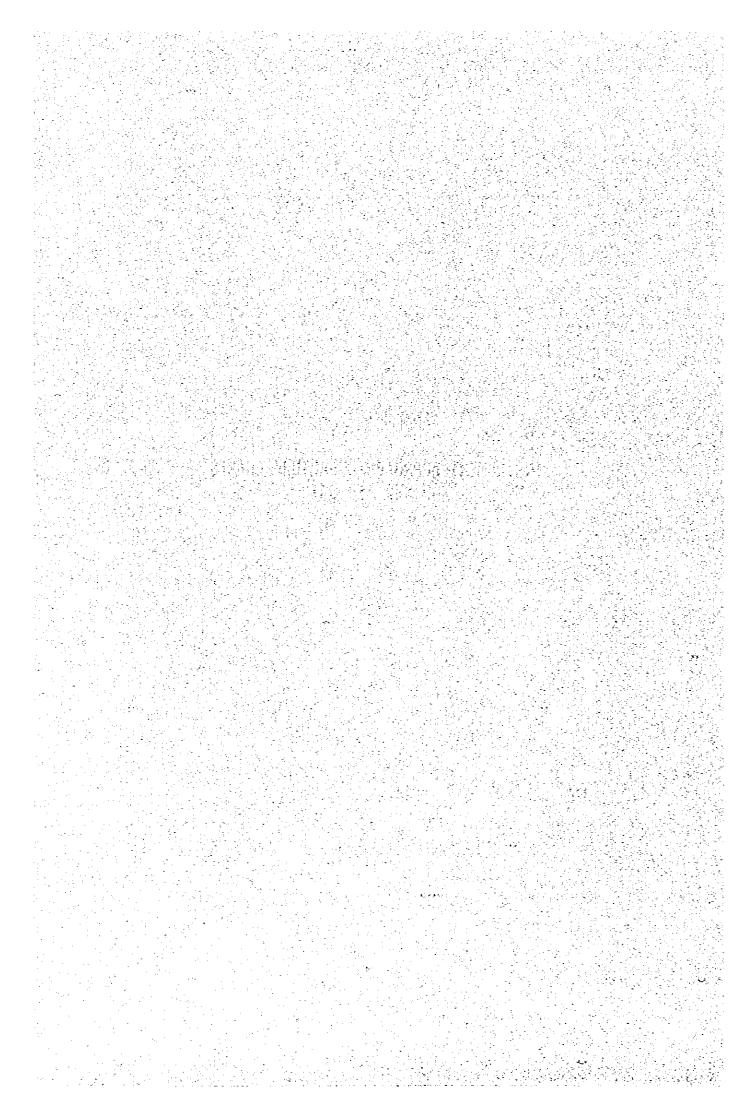
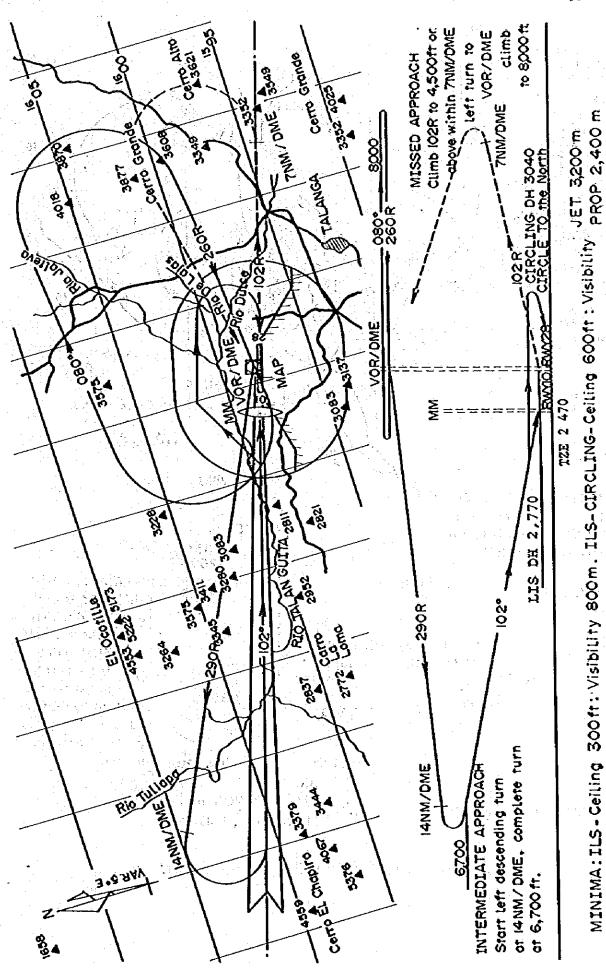
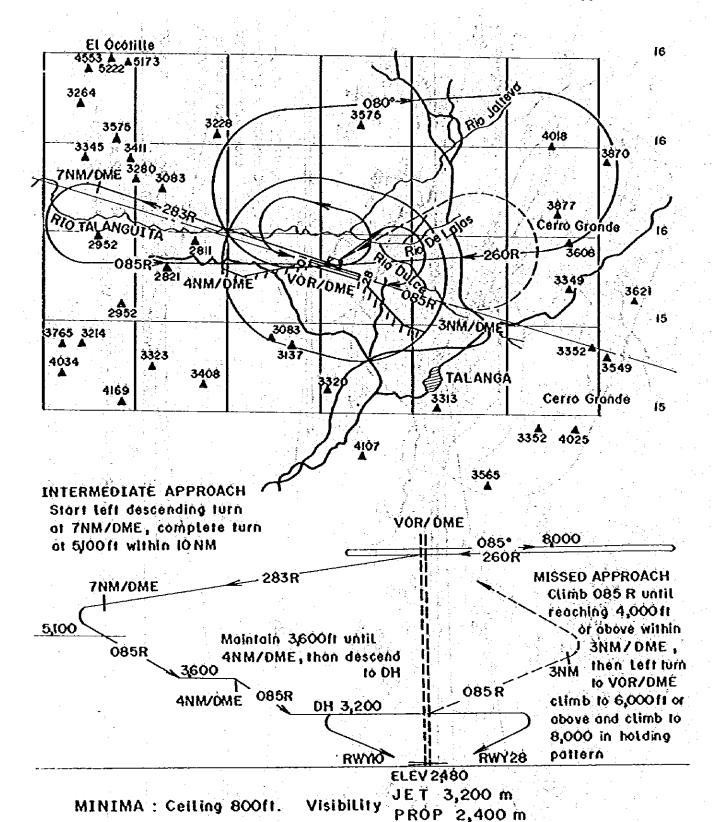
### APPENDIX 6D

INSTRUMENT APPROACH/DEPARTURE CHARTS OF NEW AIRPORT

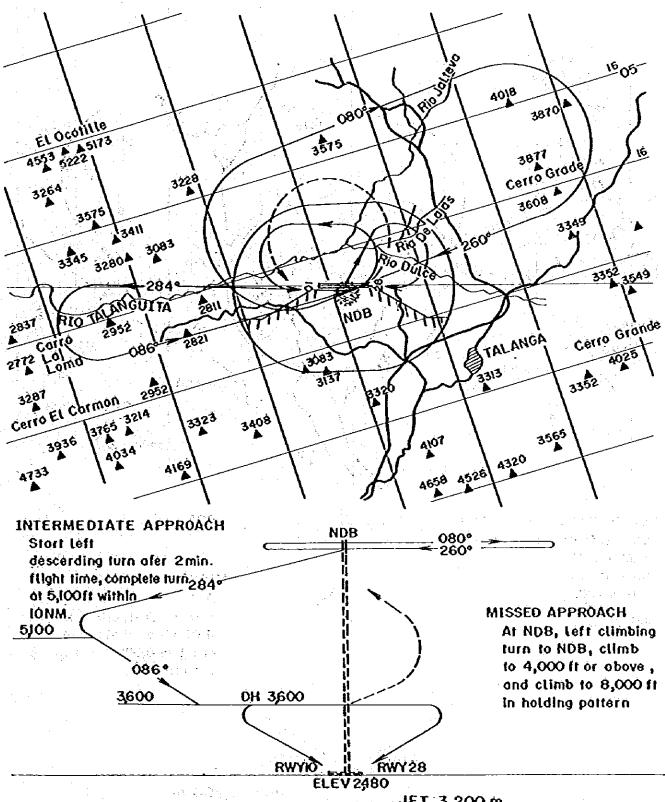




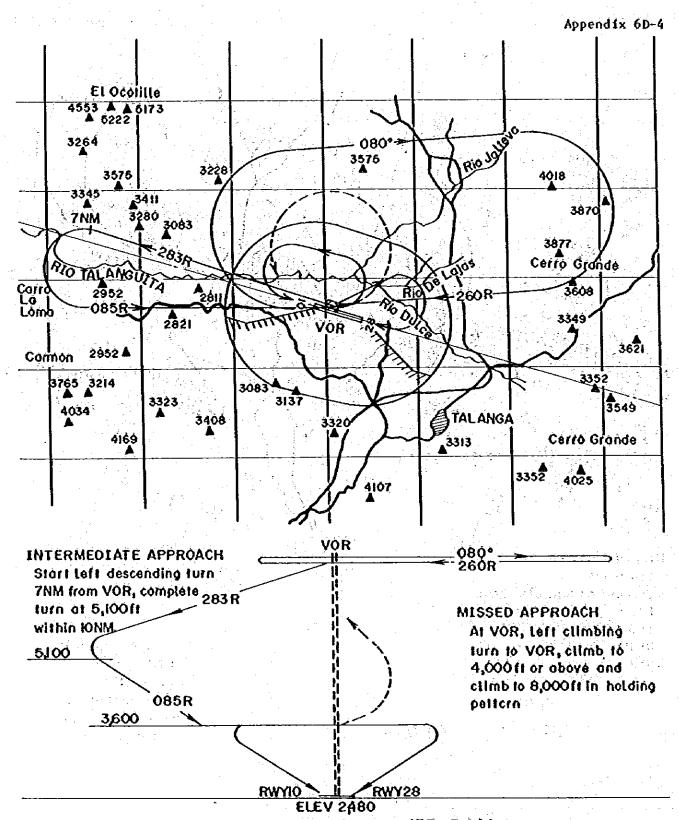
RWY 10 ILS APPROACH AND RWY 28 ILS-CIRCLING APPROACH



VOR/DME CIRCLING APPROACH TO RWY 10 AND RWY 28

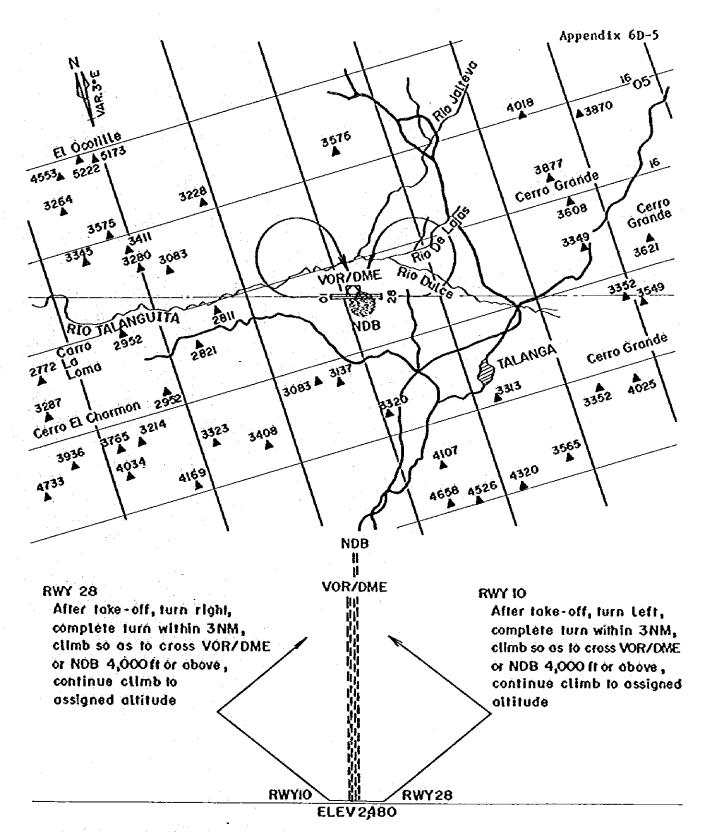


MINIMA: Celling 1,200 ft Visibility PROP 2400 m



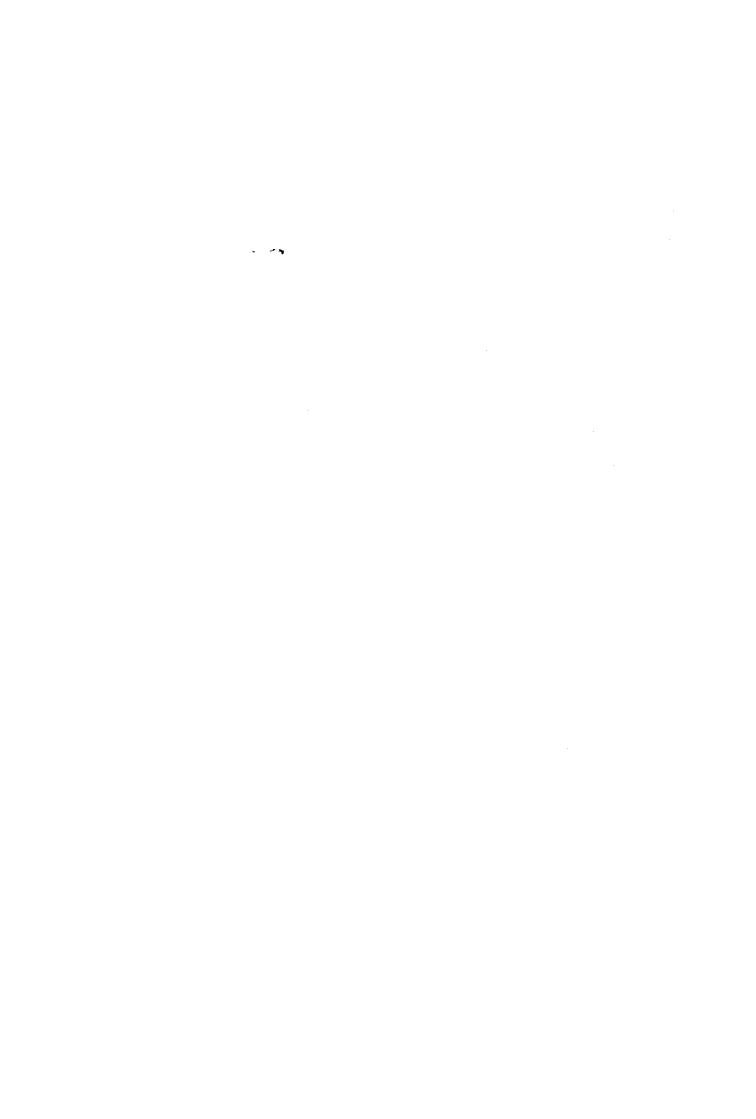
MINIMA: Celling 1,200 ft Visibility PROP 2,400 m

ND8 CIRCLING APPROACH TO RMY 10 AND RMY 28

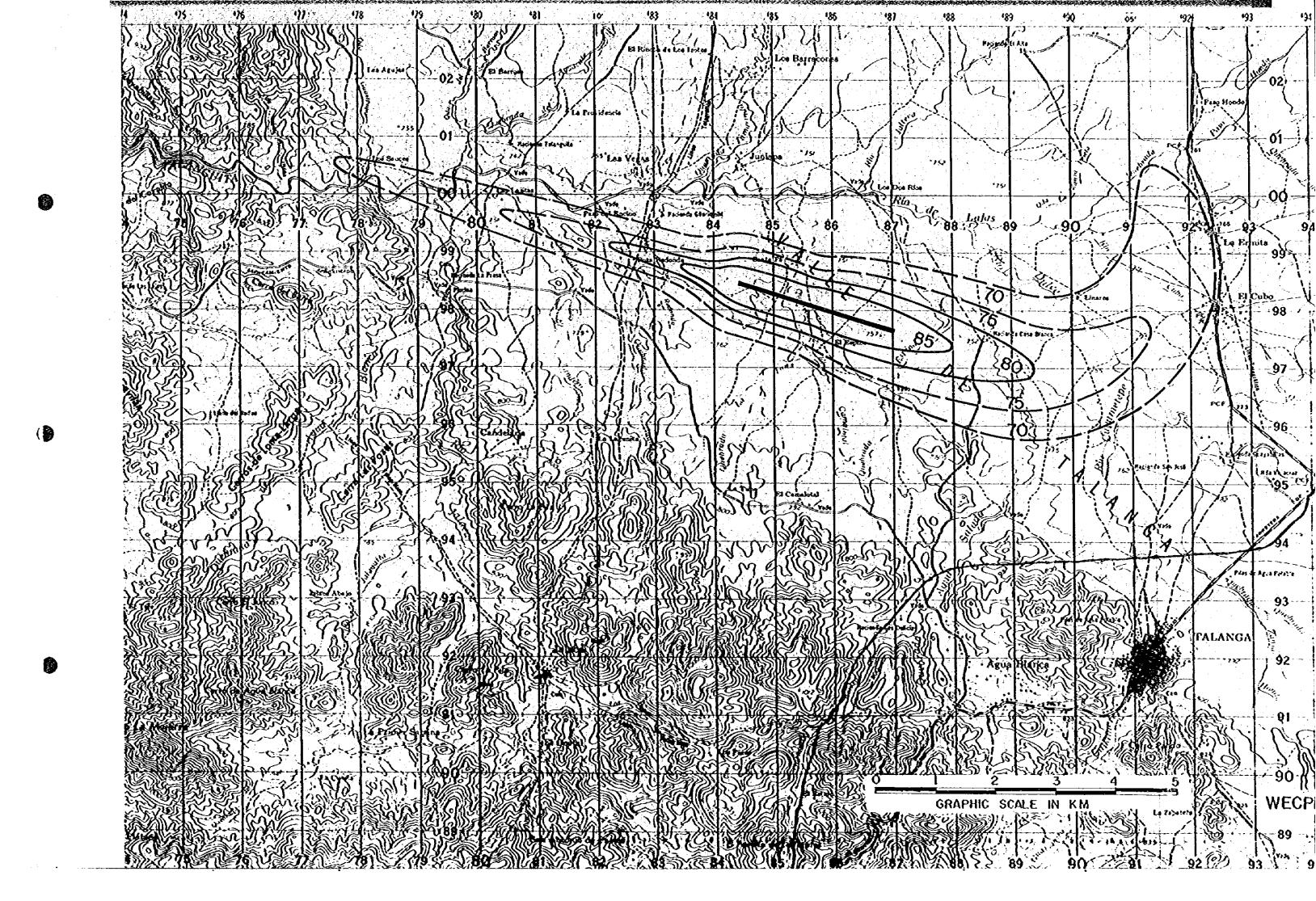


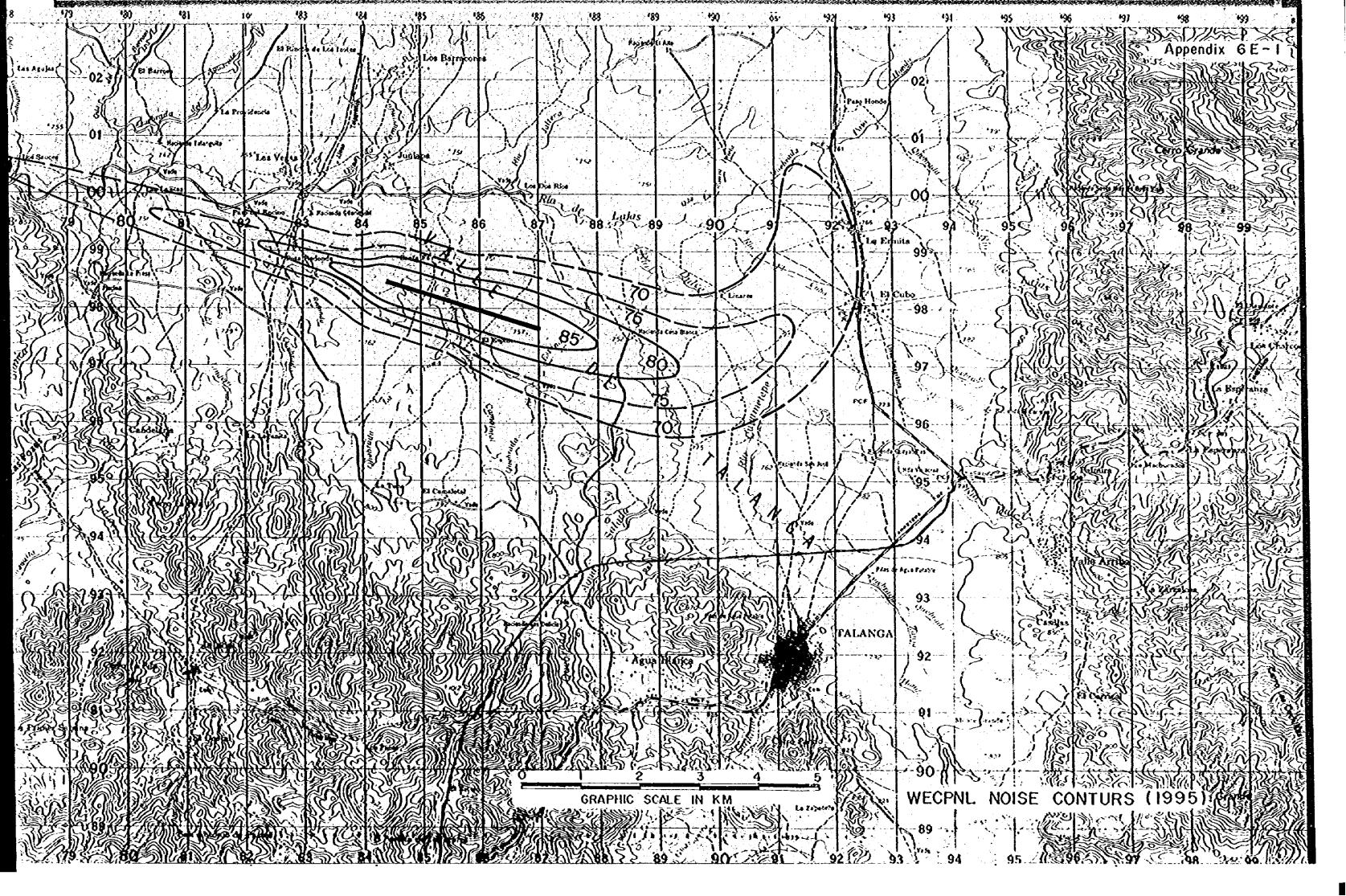
MINIMA: RWY10 and RWY28 Ceiling 300 ft: Visibility 800 m

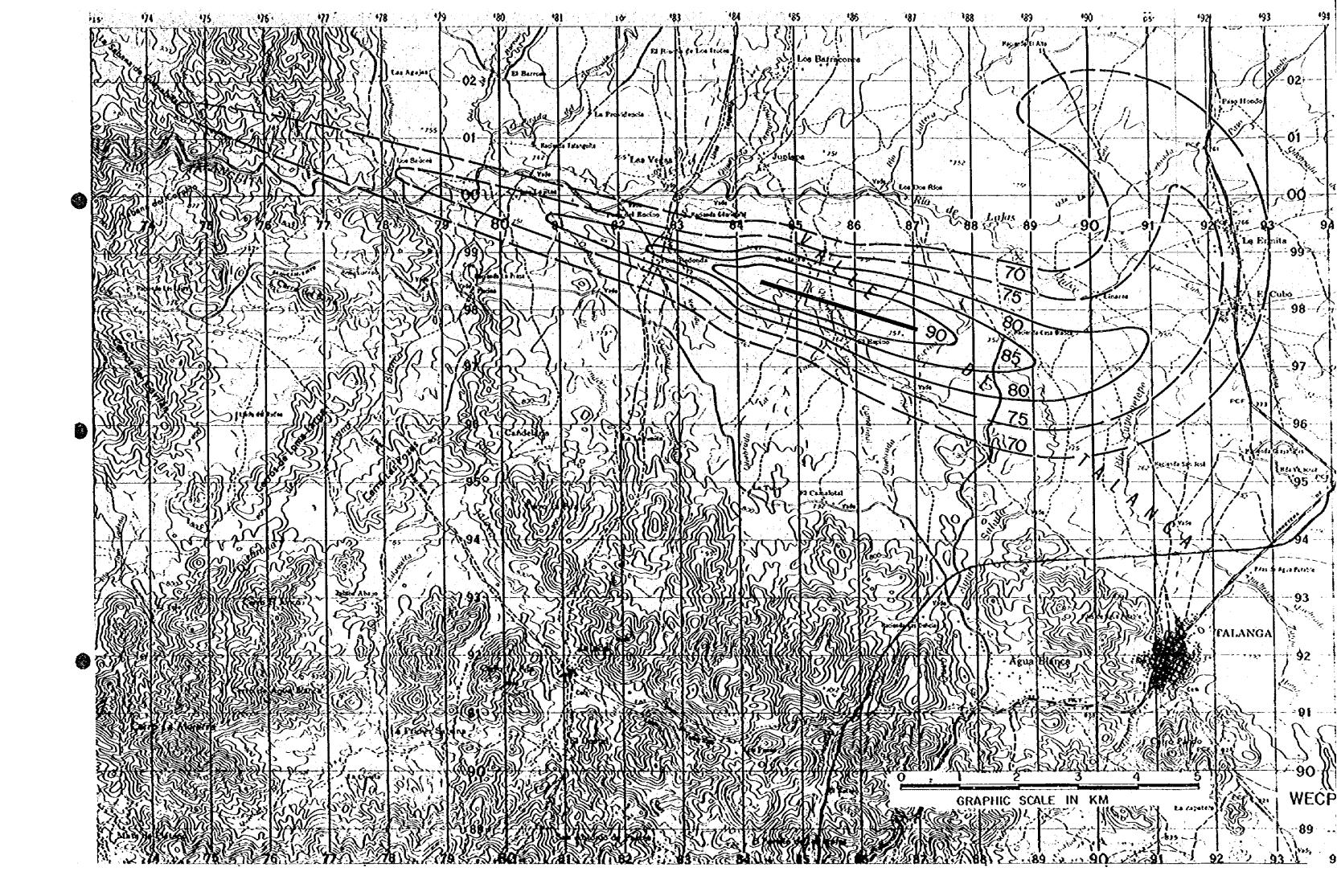
INSTRUMENT DEPARTURE PROCEDURES

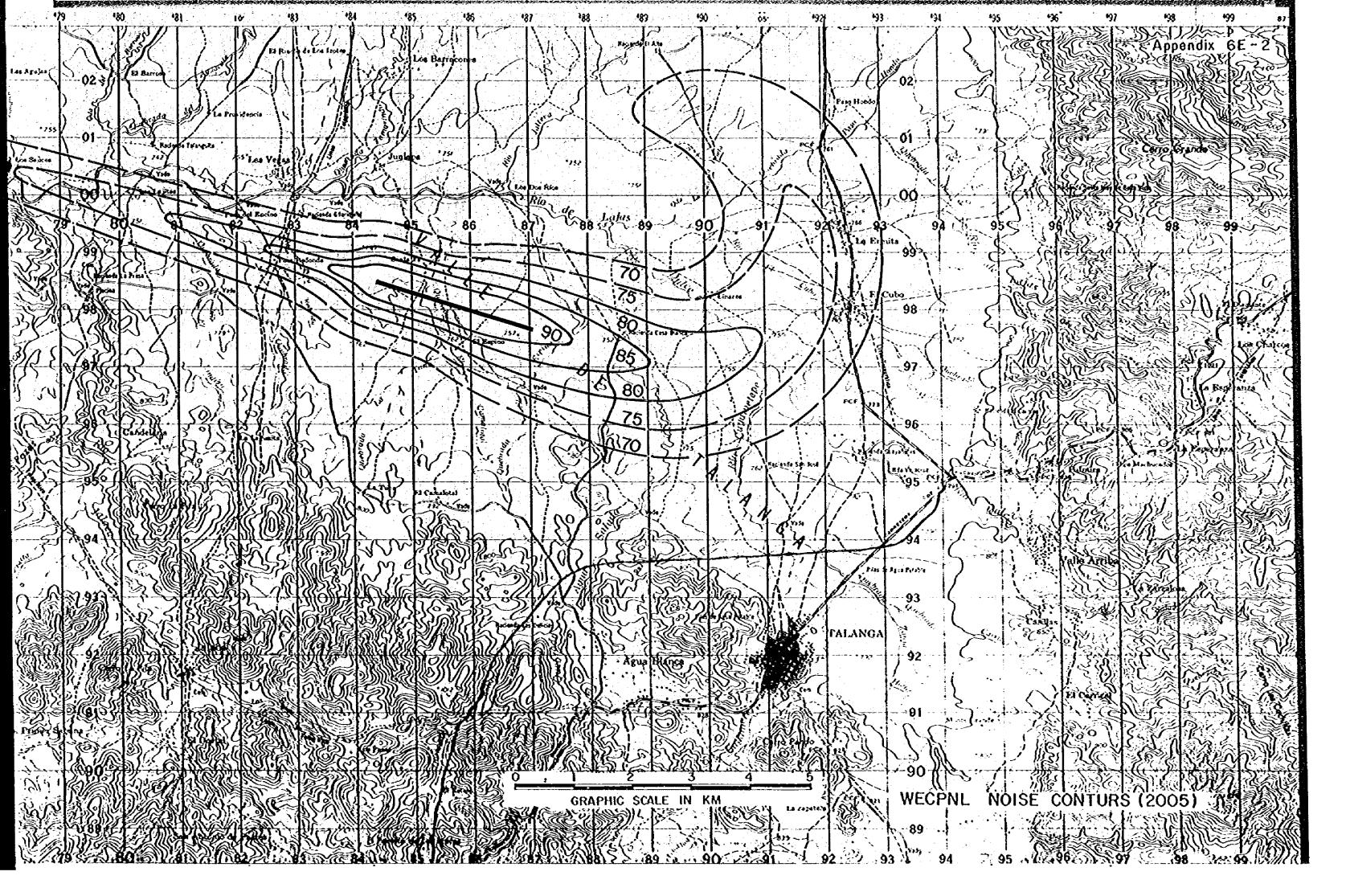


# APPENDIX 6E HECPNL NOISE CONTOURS





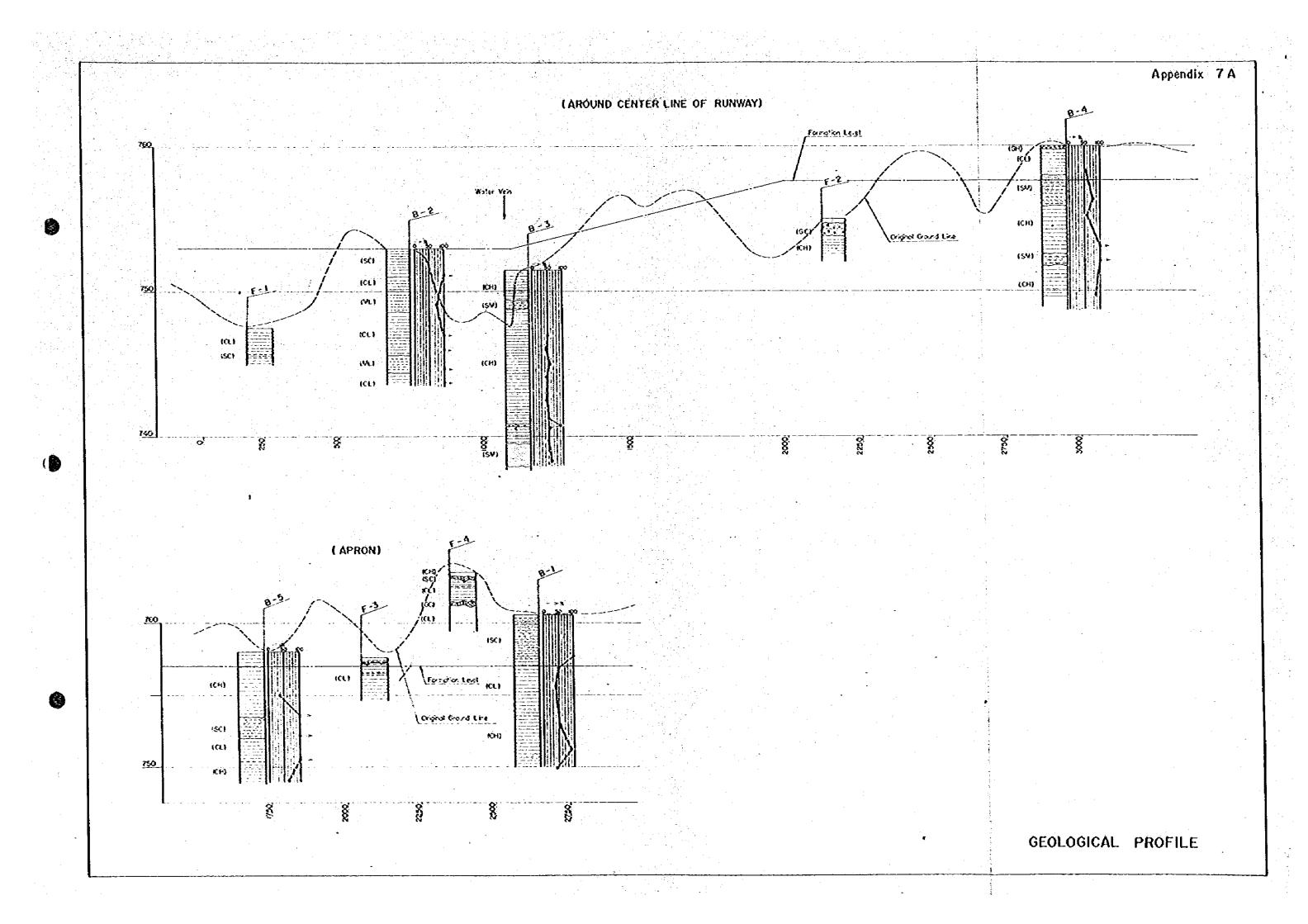


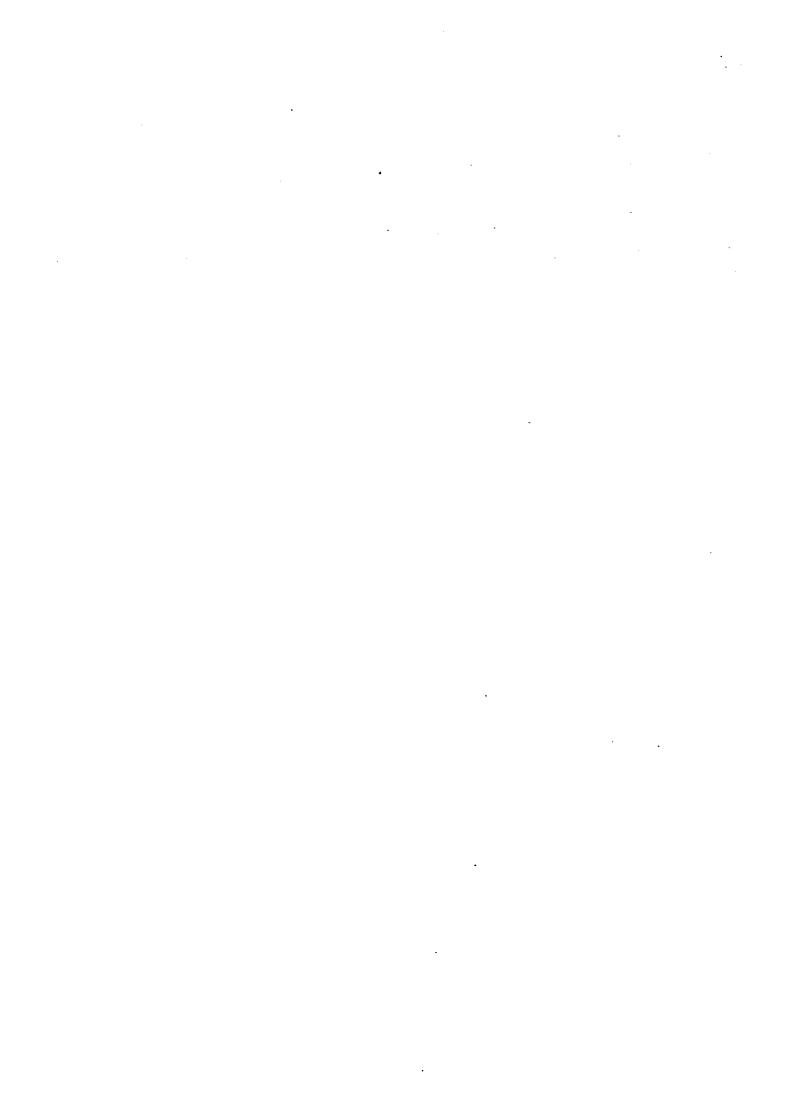


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# APPENDIX 7A

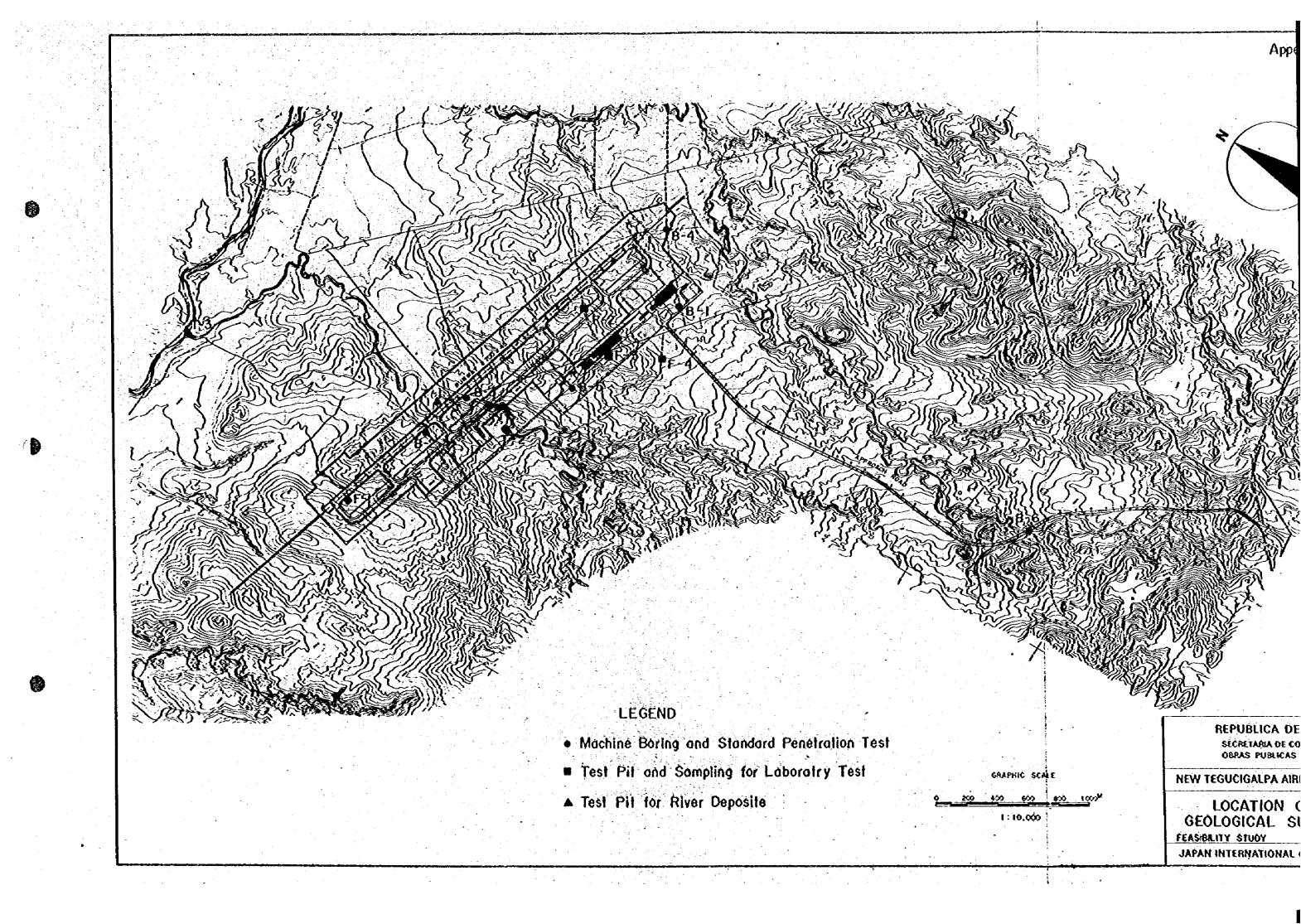
GEÓLÓGICAL PROFILE

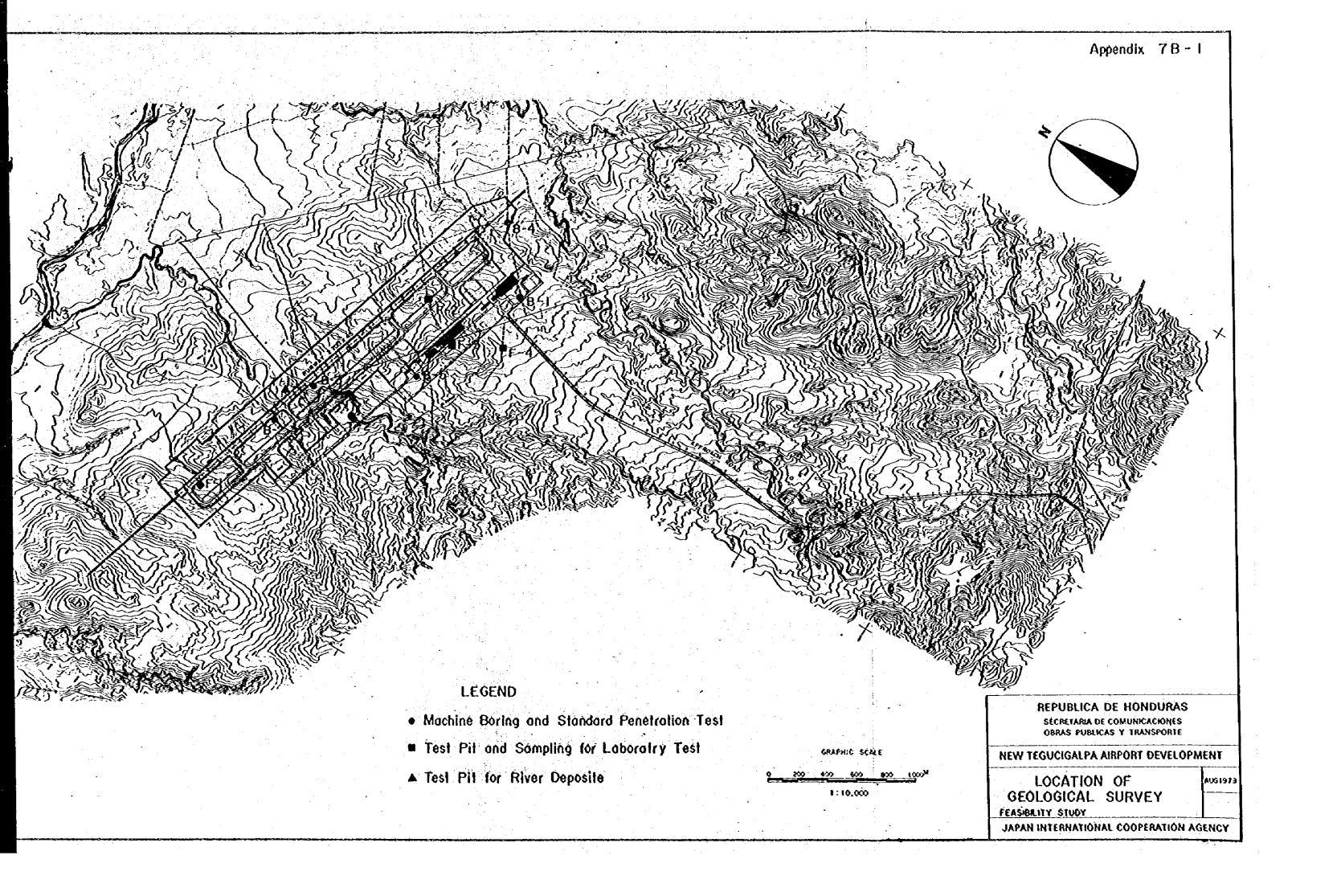




### APPENDIX 7B

# RESULTS OF SOIL INVESTIGATION





| <u> </u> |        | _ | <br> | _ |
|----------|--------|---|------|---|
| CORRESPS | *SERIE |   | 45fE | 1 |
| CE CARSS | •      |   |      | ; |
| K#       |        |   |      | į |

| ECHA 27 de morzo de 1979  AOTESTO NUEVO AFROPUERI | O DE TÉGLK        | IGALPA       | <del>i a</del> kkåian  | TALANGA       |                |                |
|---|-------------------|--------------|--|---------------|----------------|----------------|
| ACTECTO NUEVO AEKOPUEKI                           | <u> </u>          |              | 3244104 .  |               |                |                |
| 08 At   |                   | HÓZAŚ        | <del></del> .  |               |                |                |
|   | 1 1 1 1           |              |  |               |                | •              |
|   |                   |              | 1. The state of th |               | 12.3           |                |
| STACIÓN   |                   | <u> </u>     |  |               |                |                |
| OCALIZACION                                       |                   |              |  |               |                |                |
|   |                   | F            |  |               |                | ļ              |
| S DE CAMPO  |                   | 2            | 3  | 141           | 5              | 133            |
| P DE LABORATORIO                                  | 133<br>25-35      | 137<br>52-37 | 81-79  | 125-138       | 172<br>143-162 | 173-193        |
| AOFUNDIDAD (CA)                                   | <del>a a a</del>  | ci -         | CĹ   | CL            | CL             | \$C            |
| LASE DE MATERIAL UNIFICADO<br>A A S T H O         | A-5 (14)          | A-7-5(18)    | A-7-3(18)  | A-7-5-(24)    | A-5 (7)        | A-5 (8)        |
|   | h                 |              |  |               |                |                |
|   |                   |              |  |               |                |                |
| QUE PASA TENTE 2 Ve                               |                   | <del></del>  | <b></b>  |               |                |                |
| 17  |                   | 1            |  |               |                | L              |
|   |                   |              |  |               |                | 1              |
|   | 1                 |              |  |               |                |                |
| • 1/2   |                   | <del> </del> |  |               | <b>!</b>       | - <b>!</b>     |
|   | 100 -             | 105          | 102  | 1             | 100            | 100            |
|   | T                 |              |  | L             |                | 1              |
| Nº 10   | 99                | 98           | 95   | 10)           |                | 89             |
| - MF 16   | <b>-</b>          | <u> </u>     | •  | بالمستقلب الم |                | - <del>i</del> |
| • X# 10   | 95                | 83           | 83   | 95            | 92             | 65             |
| * x1 40   | <b>†</b>          |              | 1  |               |                | 1              |
| - K4 100  |                   |              |  |               |                | . <b></b>      |
| 4 H 2 200   |                   | 70           | 1  | 78            | 53             | -!49           |
| NITE HOUSE  | 18                | 23           | 47<br>23   | 50<br>31      | 32             | 1 40           |
| OCE OF PLASTICIOAD                                | <b>∱</b>          | -}           | 1 - ===  | 7             | 1              | _ L            |
| ALOR CENENTANTE                                   |                   | 1            | 1  | 1             | I              |                |
| QUIVALENTE DE ARENA                               | I                 |              | خوخيي الم  |               | F-32/5 1       |                |
| ENSIDAD HAX (LES/PIES)                            | 105.1             | 103.4        | 107.6  | 111.9         | 116,4          | 120.           |
| UNEOAD OPTIMA %                                   | 13.4              | 14.8         | $\frac{13.6}{2.4}$   | 2.0           | 4,2            | <u> </u>       |
| BR BAT 100% (%)                                   | - <del> </del> +• | 1            |  |               |                |                |
| KPANSION &  | 4.0               | 4.4          | 9.2  | 9.5           | 3.4            | 4.4            |
| ESGASTE LOS AXAELES                               |                   | .4           | . <b>ļ.</b>  | . <b>i.</b>   | -}             | <u> </u>       |
| CEL-75 % DENS WAX                                 | 1.6               |              | -{· 1-¢  | ·i1.6         | 3.0            | 7.7            |
| Gravadad Especifico                               | 2,49              | 2,48         | 1 2.48   | 1 2,49        | 2.54           | 7.7            |
|   |                   | 77.5         | AL STOLE   |               |                |                |

DIRECCIÓN GENERAL DE CAMINOS SECCIÓN DE MATERIALES E INVESTIGACIÓN

RESUMEN DE DENSIDADES PARA CONTROL" DE COMPACTACION

|          | CSTACION       |   |               |  |   |                           |  |  |                              |                     |                    |
|----------|----------------|---|---------------|--|---|---------------------------|--|--|------------------------------|---------------------|--------------------|
| ╼╂╾╂╾╂╾╂ |                | LOCALIZACION                            | NODISON       | CAPA                                     | RESULTADOS LABORATORIO RESULTADOS DE CAMPO. | COPATORIO                 | RESULTADOS DE  | CAMPO  |                              | % OF COM-           | L                  |
| ╌╂╌╂╌╂   |                |   | DE CAPA       |  | OCMBIOND<br>Les / Bigh                      | DOTING %                  | 040.44.00  | UAC SECT   | OBTENIO                      | REQUERIDO-          | OBSERVACIONES      |
|          | 1-1            |   |               | 4 3/4"                                   | 106.1                                       | 14.4                      | a 70   | 0 62   | 6                            |                     | 8 33               |
|          | 2-             | ,,,                                     |               |  | 103.4                                       |                           | <br> <br>  | ).<br>   | 1,22                         |                     | m2,7c=57           |
| ╌╂╌┨     | -              |   | 9 1/2 1/2 1/2 | 53/4"                                    | 109.6                                       | 13.6                      | \$ 801   | 0.9  | 8                            |                     | 27.4% CB           |
| H        | 7              | ,                                       |               | **                                       | 4   | 0.7                       | 7,4  | 101  |                              |                     | E ON THE           |
| ł        |                |   |               | 20/0                                     | 11.   |                           |  |  | 3                            | 1                   | 120=148 cm.        |
| 74-2-20  |                |   |               |  | 2000  |                           | 3  | \.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.   | 0.                           |                     | 148-179 cm.        |
| ╁        |                |   |               | 200                                      | 7.47  |                           | 1.0.1  |  | 74.6                         |                     | 179-193 cm.        |
|          |                |   |               |  |   |                           |  |  |                              |                     |                    |
|          |                |   |               |  |   |                           |  |  |                              |                     |                    |
|          |                |   |               | -  |   |                           | •  |  |                              |                     |                    |
|          |                |   |               | -  |   |                           | 1. June 1. July 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |  |                              |                     |                    |
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|          |                |   |               |  | 10 7 7 7 7                                  |                           | 1  | 1  | 1                            | 1                   |                    |
| •        |                |   | Table 1       | W 10 10 10 10 10 10 10 10 10 10 10 10 10 |   | Ì                         | ト・ハ  | 100  | 七                            | ,                   |                    |
| CALC     | CALCULO        |   |               | æ  | REVISO - MIL                                | 5/17/20                   | Tulul X  | The state of the s | 10 motor restrict            | けいっ                 | St.                |
|          |                |   |               |  | /   |                           | 1  |  | 1.0                          | Sacción Materiales: | en e investigación |

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| CORRESPONS. |       | ι. | 4511 | 1 |
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### DIRECTION SENERAL DE CAMINOS SECCIÓN DE MATERIALES É INVESTIGACIÓN

| ESTACIÓN  LOCALIZACIÓN  NE DE CAMPO  Nº DE LABORATÓRIO 239  PROFUNDIDAD (CAR) 33-  CLASE DE MATERIAL UNIFICADO SC  AA ST MO A-2-  % QUE PASA—TERIZ 2 ½  - 1½  - 1½  - 10  - 10 | 120<br>5(0) A- |                                       | SÉCCION     | TALANC   |            |             |  |
|--|----------------|---------------------------------------|-------------|----------|------------|-------------|--|
| ESTACIÓN  LOCALIZACIÓN  NE DE CAMPO  Nº DE LABORATÓRIO  PADFUNDIDAD (CAS)  CLASE DE MATERIAL UNIFICADO  SC.  AA ST HO.  A ST H | 120<br>5(0) A- | F-2 245 123-257 CH -7-3(33)           |             |          |            |             |  |
| ESTACION  LOCALIZACION  Nº DE CAMPO  Nº DE LABORATÓRIO  PROFUNDIDAD (CAR)  CLASE DE MATERIAL UNIFICADO  A 3 T MO  A 3 T MO  A 3 T MO  Nº DE PASA—TERIZ 2 ½  1½  1½  10  1½  1½  10  1½  10  1½  10  1½  10  10   | 12)<br>5(0) A  | F-2 2 245 123-257 CH -7-5(33)         |             |          |            |             |  |
| LIMITE L'QUIDO  LIMITE L'QUIDO  LIMITE L'QUIDO  CA SATIONA  LIMITE L'QUIDO  CA RASTICOAD  CONTRACCIÓN LINEAL MA  VALOR CENENTÁNTE  EQUIVALENTE DE ARENA  DENSIDAD MAX (LOSPIES)  HUMEDAD OPTIMA MA  COR RASTICOAD  CORRACCIÓN LINEAL MA  VALOR CENENTÁNTE  EQUIVALENTE DE ARENA  DENSIDAD MAX (LOSPIES)  HUMEDAD OPTIMA MA  COR RASTICOAD  CORRACCIÓN SINO  PESO VOL SIN CÓMPACIAR  EXPÁNSION  DESGASTE LOS AMSELES  | 120<br>5(0) A  | 2<br>245<br>123-257<br>CH<br>-7-5(33) |             |          |            |             |  |
| LIMITE L'QUIDO  LIMITE L'QUIDO  LIMITE L'QUIDO  CA SATIONA  LIMITE L'QUIDO  CA RASTICOAD  CONTRACCIÓN LINEAL MA  VALOR CENENTÁNTE  EQUIVALENTE DE ARENA  DENSIDAD MAX (LOSPIES)  HUMEDAD OPTIMA MA  COR RASTICOAD  CORRACCIÓN LINEAL MA  VALOR CENENTÁNTE  EQUIVALENTE DE ARENA  DENSIDAD MAX (LOSPIES)  HUMEDAD OPTIMA MA  COR RASTICOAD  CORRACCIÓN SINO  PESO VOL SIN CÓMPACIAR  EXPÁNSION  DESGASTE LOS AMSELES  | 120<br>5(0) A  | 2<br>245<br>123-257<br>CH<br>-7-5(33) |             |          |            |             |  |
| LIMITE L'QUIDO  LIMITE L'QUIDO  LIMITE L'QUIDO  CA SATIONA  LIMITE L'QUIDO  CA RASTICOAD  CONTRACCIÓN LINEAL MA  VALOR CENENTÁNTE  EQUIVALENTE DE ARENA  DENSIDAD MAX (LOSPIES)  HUMEDAD OPTIMA MA  COR RASTICOAD  CORRACCIÓN LINEAL MA  VALOR CENENTÁNTE  EQUIVALENTE DE ARENA  DENSIDAD MAX (LOSPIES)  HUMEDAD OPTIMA MA  COR RASTICOAD  CORRACCIÓN SINO  PESO VOL SIN CÓMPACIAR  EXPÁNSION  DESGASTE LOS AMSELES  | 120<br>5(0) A  | 2<br>245<br>123-257<br>CH<br>-7-5(33) |             |          |            |             |  |
| NE DE CAMPO  Nº DE LABORATORIO 233- PROFUNDIDAD (CAS) CLASE DE MATERIAL UMIFICADO SC  A A STMO A-2-  % QUE PASA TERIZ 2 ½  1½  1½  1½  1½  1½  1½  1½  1½  1½  | 120<br>5(0) A  | 2<br>245<br>123-257<br>CH<br>-7-5(33) |             |          |            |             |  |
| NE DE CAMPO  Nº DE L'ABORATORIO  PADFUNDIDAD (CAE)  CLASE DE MATERIAL UMIFICADO  A 3 T MO  A 3 T MO  A 3 T MO  A 4 100  A 8 100  A 8 100  A 100  CLIMITE L'QUIDO  NO CE DE PLASTICOAD  CONTRACCIÓN LIMEAL %  VALOR CEMENTÁNTE  EQUIVALENTE DE ARENA  DENS DAD MAX (LOS PIES)  HUMICAD OPTIMA %  CO R 3AT 100 % (%)  FERO VOL SIN COMPACTAR  EXPANSION  CESCASTE LOS AMSELES  | 120<br>5(0) A  | 745<br>123-257<br>CH<br>-7-5(33)      |             |          |            |             |  |
| Nº DE LABORATORIO 239 PROFUNDIDAD (CAB) CLASE DE MATERIAL UMIFICADO SC  A A S Y NO A-2-  % QUE PASA - Texte 2 ½  1½  1½  1½  10  1½  1½  10  1½  10  1½  10  1½  10  1½  10  10  | 120<br>5(0) A  | 745<br>123-257<br>CH<br>-7-5(33)      |             |          |            |             |  |
| PROFUNDIDAD (CON)  CLASE DE MATERIAL UNIFICADO  A A ST HO.  A B A ST HO.  A B B A ST HO.  A B B B B B B B B B B B B B B B B B B  | 120<br>5(0) A  | 123-257<br>CH<br>-7-5(33)             |             |          |            |             |  |
| CLASE DE MATERIAL UNIFICADO SC  A A ST NO A-2-  % QUE PASA-TERTZ 2 3/2  1/2  1/2  1/2  1/2  1/2  1/2  1/2  | 5(0) A         | -7-5(33)<br>-7-5(33)                  |             |          |            |             |  |
| ### ### ### ### ### ### ### ### ### ##   |                |                                       |             |          |            |             |  |
| 173  |                |                                       |             |          |            |             |  |
| 173  |                |                                       |             |          |            |             |  |
| 172   10   174   10   172   172   174   10   172   1   |                |                                       |             |          |            |             |  |
| 10   1/2   94   92   94   94   95   94   96   96   96   96   96   96   96  |                |                                       |             |          |            |             |  |
| 10   10   10   10   10   10   10   10  |                |                                       |             | <b>1</b> |            |             |  |
| 1/2   91   3/6   91   92   93/6   94   87   94   87   94   96   96   96   96   96   96   96  |                |                                       |             | 1        |            | í           |  |
| 10   70   10   70   10   10   10   10  |                |                                       |             | ļ        |            |             |  |
| - 18 8 - 10 - 70 - 70 - 70 - 70 - 70 - 70 - 70   |                |                                       |             |          |            |             |  |
| - 18 16 - 18 80 - 18 40 - 18 80 - 18 40 - 18 8 |                | - 59                                  |             |          |            |             | ـ  |
| - 18 16 - 18 80 - 18 40 - 18 80 - 18 40 - 18 8 |                |                                       | <del></del> |          |            | <u>}</u>    |  |
| 18 80     18 40     5  |                |                                       |             |          |            |             |  |
| - 12 30 - 14 100 - 3 100 - 14 100 - 3 100 - 14 100 - 3 |                | ~~                                    |             |          |            | <del></del> |  |
| # \$4 100 33  I INITE L'AUTOO 33  IND CE DE PLASTICOAD 15  CONTRACCION LINEAL %  YALOR CENENTANTE  EQUIVALENTE DE ARENA DENSIDAD MAX (LOSPIES)  HUMEDAD OPTIMA %  C B R SAE 100 % (%)  FESO VOL SIN COMPACTAR  EXPANSION DESGASTE LOS AMSELES  | , } -          | 98                                    |             |          | <b>-</b> - |             |  |
| LIMITE L'QUIDO  THO CE DE PLASTICOAD  CONTRACCIÓN LINEAL %  YALOR CENENTANTS  EQUIVALENTE DE ARENA  DENSIDAD MAX (LOSPIES)  HUMEDAD OPTIMA %  COR ROSAL 100 % (%)  FERÓ YOL SIN CÓMPACTAR  EXPANSION  DESGASTE LOS AMSELES   |                |                                       |             |          |            | `           |  |
| LIMITE - POUIDO STAD CE PLASTICOAD L'ACCOMPRACCION LINEAL % STAD CENENTANTS CONTRACCION LINEAL % STAD CONTRACCION LINEAN STAD CONTRACTOR STAD  |                | 95                                    |             |          |            |             |  |
| CONTRACCION LINEAL %  YALOR CENENTANTE  EQUIVALENTE OÉ ARENA  DENSIDAD MAX (LESPIE <sup>3</sup> )  HUMEDAD OPTIMA %  G B R SAT 100 % (%)  PERO VOL SIN COMPACTAR  EXPANSION  DESGASTE LOS ANSELES  | 3              | . 57                                  |             |          |            |             |  |
| VALOR CENENTANTS  EQUIVALENTS OF ARENA  DENSIDAD MAX (185/PISS)  HUMEDAD OPTIMA %  G B R SAT 100 % (%)  PERO VOL SIN COMPACTAR  EXPANSION  DESGASTE LOS AMSELES  | /              | 35                                    |             |          |            |             |  |
| EQUIVALENTE DE ARENA DENSIDAD MAX (LESPIE <sup>3</sup> ) HUMEDAD OPTIMA % GER SAT 100 % (%) PERO VOL SIN COMPACTAR EXPANSION DESGASTE LOS AMSELES  |                |                                       |             |          |            |             |  |
| HUMEDAD OPTIMA % G B R BAT 100 % (%) FESO VOL SIN COMPACTAR EXPANSION DESGASTE LOS AMSELES   |                | 111.0                                 | İ           |          |            |             |  |
| G B R BAT 100 % (%) PEGO VOL BIN COMPACTAR EXPANSION DESGASTE LOS ANSELES  |                | 14.5                                  | ļ.:         | i        |            |             |  |
| PESO VOL SIN COMPACTAR EXPANSION DESGASTE LOS ANSELES  | 8,5<br>5.7.    | 0.2                                   |             |          |            |             |  |
| EXPANSION  |                |                                       |             |          |            |             |  |
|  | 2.7            | 9.4                                   | ļ i         |          | ·          |             |  |
|  | <del></del>    |                                       | ļ+          |          |            |             |  |
| ALTERABRIOAD SURFATO   |                |                                       | ·           |          |            |             |  |
| CBR, 95 % de Dens. Max.  | 2.7            | 0.4<br>2.55                           |             |          |            | ·           | L  |
| Granded Frenchica  | 2.49           | 2,56                                  | <u> </u>    |          |            |             | Ļ <u>,                                  </u> |
|  |                |                                       | CINE        |          |            |             |  |
|  |                |                                       |             | WAZ.     |            | 1           | n/ '   |
| CALCULO  | <del></del>    | -                                     | City .      |          | 61         | July 1      |  |

DIRECCION GENERAL DE CAMINOS. SECCION DE MATERIALES E INVESTIGACION

TESUCIENCES O G HONOVERS G. B.

RESUMEN DE DENSIDADES PARA CONTROL DE COMPACTACION

| 15-279   F-2   15-270   15-2   |          |          |                 |          |         |   |               | PROCTOR >                         | \$\$HTO   | PROCTOR AASHTO T-180 METODO D  | 000                                   |  |
|--|----------|----------|-----------------|----------|---------|---|---------------|-----------------------------------|---|--|---------------------------------------|--|
| 1.5   1.6   1.2    | FECHA    | ESTACION | LOCACIZACION    | POSICION | CSPCSON | PESULTADOS L  | ADORATORIO    | <b>ESULTADOS D</b>                | CCAMPO  | % DE COM-  | % DE COM-                             |  |
| F.2 (3.142 12.5) 8.5 110.7 8.5 07.5 07.5 07.5 07.5 07.5 07.5 07.5 07   | 1 - 1/4" |          |                 | OE CAPA  | 5       | 1   | Derribe %     |                                   | 040   |  | PACTACION                             | COSERVACIONES  |
| F-2 S/4 111.0 14.5 100.1 77.5 76.5 200.50.0  | 15-2-20  | 3        |                 |          | 5 1/4   |   | 8.5           | 110.2                             |   | \$ 46<br>6   |                                       | 30,100   |
| 5 1/4" 111.0 14.5 103.4 20.5 20.5 20.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5   | 19-2-79  | 4        |                 |          | 5 1/4"  | 0.11  | 7.5           | ا<br>ا                            | 18.0  | 8  |                                       | - 10.00 C  |
| E-2 103.4 20.9 702.2 200-200 cm.  2 103.4 20.9 702.2 200-200 cm.  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  | 20-2-20  | 4        |                 |          | -       | =   | 14.5          | 107.1                             |   | 3 70   |                                       | -mo -coca  |
| CALCULO  CAL | 23-2-79  | Щ        |                 |          | 5 //4"  | E   | 2 7           | 7 601                             | 3 6   | 200  |                                       | Z02-Z4Z cm   |
| CULO:  CU |          |          |                 |          |         |   |               | 2001                              |   | 7.27   |                                       | 242-257 cm   |
| COLOCIO MONTA DE LA COLOCA DEL COLOCA DE LA COLOCA DEL COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DEL COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DEL COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DEL COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA DE LA COLOCA D |          |          |                 |          |         |   |               |                                   |   | Section 1  |                                       |  |
| COLO.  |          |          |                 |          |         |   |               |                                   |   |  |                                       |  |
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|  |          |          |                 |          |         |   |               |                                   |   | the second secon |                                       | The second secon |
|  |          |          |                 |          |         |   |               |                                   |   |  |                                       |  |
|  |          |          |                 |          |         | 100   |               |                                   | ļ÷  |  |                                       |  |
|  | 1        |          |                 |          |         | 7 12  |               |                                   | The Control   |  | 1                                     |  |
|  | -1       |          | 1               |          |         |   | <b>†</b>      | 1.3                               |   |  |                                       |  |
|  |          |          |                 |          |         |   | T             | ı                                 |   |  |                                       | 10 May 12 |
|  |          |          |                 |          |         | 2000  |               | ÷                                 |   | each teaching again.   |                                       | the second of th |
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| Continued to the Continue of t |          | CALCULO  |                 |          |         | , I   |               | (N) (F) (F)                       | \<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\ | 1 × ×  | イン                                    | Water S.   |
| 「  |          | . 1      |                 | 7        |         |   |               | Ü                                 |   | So Soto S  | recton Material                       | Ŧ  |
|  | 30 GCR   |          |                 |          |         |   |               |                                   |   |  |                                       | 4  |
|  |          |          |                 |          |         |   |               |                                   |   |  |                                       | )  |

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| DE CARES    |       |   |    |      |
| ₩ŧ          |       |   |    |      |
|             |       |   |    |      |

# SECCION DE NATERIALES É INVESTIGACION

TEGUCIGALPA OC KONDURAS CA

| RESUMEN DE PRUEBA                     | S DE LABÓ  | RATORIO D       | E SUELOS A     | ARA BASES      | Y SUB-8A                              | SES                                   |
|---------------------------------------|--|-----------------|----------------|----------------|---------------------------------------|---------------------------------------|
| PROVECTO NUEVO AFROPUES               | TÀ ÀÉ TEOIR                                      | CICAIGA         | <del></del>    | TALANGA        |                                       |                                       |
| PASTECTO INVESTO MENORVET             | O OF LEGO  | LIGALEA         | _ SEČCIÓN .    | INUNINGA       | <u> </u>                              |                                       |
| 30 PR ALOP                            |  | HOJAS           |                |                |                                       |                                       |
|                                       |  | 1               |                |                |                                       |                                       |
|                                       |  |                 |                |                |                                       |                                       |
| ESTACIÓN                              |  |                 | 1              |                |                                       |                                       |
| EOCALIZACIÓN                          |  |                 |                |                |                                       |                                       |
| HE DE CAMPO                           |  | 3               | 3              | 4              | 5                                     | j                                     |
| Nº DE LABORATORIO                     | 133  | f <sub>37</sub> | 3<br>142       | 241            | 5<br>174                              |                                       |
| PROPUNDIDAD (CHE)                     | 15-33  | 33-103          | 10)-125        | 125-190        | 193-275                               |                                       |
| CLASE DE MATÉRIAL UNIFICACO.          | A-4 (0)  | CL<br>A-7-8(23) | CL<br>A-3 (5)  | CL<br>A-3 (16) | CL<br>A-7-5(2:)}                      |                                       |
| AASTRO                                | A-4 (0)  | K-1-0(23)       | N-0 (3)        | A-0 (10)       | H-7-3(20)                             |                                       |
|                                       |  |                 |                |                |                                       |                                       |
| % QUE PASA - Tenis 2 VE               |  |                 |                |                | فنب                                   |                                       |
| 2                                     | <b> </b>   |                 |                |                | <u> </u>                              | <del></del>                           |
| 1/2                                   | <del>                                     </del> |                 |                |                |                                       | <u></u>                               |
| ¥4                                    | 1  |                 |                |                |                                       |                                       |
| 1/2                                   |  |                 |                |                |                                       | L                                     |
| * * * * * * * * * * * * * * * * * * * | ا ـ ـ خ خ خ ـ ـ ـ ـ ا                            |                 |                |                | ه<br>المحمد و پايو مشم                | ! - <b></b> - <sup>-</sup>            |
| • N\$ 4                               | 10)  | 10)             | 100            | 100            | 100                                   |                                       |
| NI IO                                 | 87   | 97              | 94             | 73             | 97                                    | - •                                   |
| NA (A                                 | <del>                                     </del> |                 | <u> </u>       | i              | · · · · · · · · · · · · · · · · · · · |                                       |
| 4 Nº 10                               | $I^{-1}$ :                                       | [               | ,              | i              |                                       | L                                     |
| N1 40                                 | 8  | 89              | 87             | 94             | 95                                    |                                       |
| * K\$ \$0                             | <del> </del>                                     | <b></b>         |                | <u></u>        | i                                     | !                                     |
| * Nº 100                              | 57   | 74              | 60             | 79             | 78                                    | <del>-</del>                          |
| LINITE HOUSE                          | <u>57</u>  | 50              | 33             | 39             | 1-44                                  |                                       |
| HO CE DE PLANTICIDAD                  | T  | 32              | 13             | 21             | 27                                    | L                                     |
| CONTRACCION LINEAL %                  | <b></b>  |                 | عبر پيمند      | ļ              | <u> </u>                              | <b> </b>                              |
| VALOR CEMENTANTE                      | - <del></del>                                    |                 |                | <u> </u>       | I                                     | <del></del>                           |
| EQUIVALENTE DE AREKA                  | 119.6  |                 | 116.1          | 114.3          | 111.8                                 | '                                     |
| HUNEGAD OPTIMA %                      | 15,2   | 12,7            | 12.5           | 12.5           | 14.8                                  |                                       |
| G B R SAT. 100% (%)                   | 15,2   | 3.1             | 11.2           | 10,1           | 2.3                                   |                                       |
| PERO VOL. BIN COMPACTAR               |  | <b></b>         | <del> </del>   | <del>-</del>   | ·                                     | <u> </u>                              |
| EXPANSION                             | 2,2  | 6.4             | 1.9            | 6.1            | 4.2                                   | <del> </del>                          |
| ALTERABRIDAD BULFATO                  |  |                 |                | <u> </u>       |                                       | • • • • • • • • • • • • • • • • • • • |
| C. 8, R. 95 % de Dens. Mox.           | 9.2  | 1.2             | 8.2            | 2,3            | 1.7                                   | l                                     |
| Gravedad Especifico                   | 9,2<br>2,59                                      | 1.2<br>2.52     | 8.2<br>2.60    | 2.65           | 2.50                                  |                                       |
|                                       | •  | <u></u>         | CHEBAL         |                | 7 /                                   | 2/                                    |
| 4.数据,有一类的基础的主义的                       |  |                 | (GV / )        | ·X///          |                                       | // '                                  |
| CALCULO                               |  | /               | a course       | CX 10          | driques                               | <u> </u>                              |
|                                       |  | وال م           | 2.60           | (3)            | 11                                    | 1                                     |
| •                                     | UC   |                 | 如心气中           | 5 E            | 0/1                                   |                                       |
|                                       | Jala S   | secion Majari   | Es    21811100 | 100            |                                       | _                                     |

DIRECCION GENERAL DE CAMINOS SECCIÓN DE MATERIALES E INVESTIGACION

CORRESPONDENTE A LA NOTA DE CARGO NE

TREUGISALTA D'O MONDURAS O.A.

RESUMEN DE DENSIDADES PARA CONTROL DE COMPACTACION

OBSERVACIONES CANNE CANNE CANNE CANNE MOTERIOLES (\* Investigación 100-125 cm. 125-190 cm. 190-275 cm. 275-286 cm. 15-30 cm PROCTOR AASHTO, T-180 METODO D 25.00 4.00 88.00 7.00 8.00 8.00 8 96.6 12.5.7 -8 REVISO SATU 116.1 11.8 5.1/2: 53/4" 51/24 The state of the s POSICION OC CAPA LOCALIZACION 1. 美国 FECHA. 27 da marza da 1979 CALCULO ESTACION nanat TO BCR-2 12-2-79 12-2-79 12-2-79 13-2-79 2-79 FECHA

|      |     | - | <del>^</del>   |
|------|-----|---|----------------|
| 2014 |     | À | CORRESPONDENTE |
| **** | • - | _ |                |
|      |     |   | 06 C4450       |
|      |     |   | Na             |
|      |     |   | Na             |

### SECTION OF MATERIALES E INVESTIGACION

### REGUCIGALPA DC HONDURAS C 4

| есна <u>27 marzo da 1979</u>          |                   | · · · · · · · · · · · · · · · · · · · | <del></del> |                                      |              |                |
|---------------------------------------|-------------------|---------------------------------------|-------------|--------------------------------------|--------------|----------------|
| ADVECTO NUEVO AEROPUER                | O DE TEGUC        | IGALPA                                | _ SECCION _ | TALANGA                              |              | ·<br>          |
| ioja ha 06                            |                   | HOJAS                                 |             | •                                    |              |                |
|                                       |                   |                                       |             |                                      | ٠.           | -              |
|                                       |                   |                                       |             |                                      |              |                |
| STACION                               |                   |                                       |             |                                      |              |                |
| POISALIASO                            |                   |                                       |             |                                      | <del>_</del> |                |
|                                       |                   | F=4                                   |             |                                      |              | , F (-         |
| A DE CAMPO                            |                   | ?                                     | 3           | 4                                    | 5            | 6              |
| OE LABORATORIO                        | 169               | 170                                   | 17          | 243                                  | 212          | 214            |
| ROFUNDIDAD (C+1)                      | 16-31             | 45-50                                 | 87-101      | 104-119                              | 2))-22)      | 250-23)<br>CL  |
| LASE OF MATERIAL UNFICADO             | CH                |                                       | <u>Cl</u>   | CL                                   | GC           |                |
| AASTHO                                | A-7-6(26)         | A-7-5(7)                              | A-7-6 (16)  | A-7-5(17)                            | A-2-7(3)     | A-7-5-(1)      |
|                                       |                   |                                       |             | ·                                    |              |                |
|                                       |                   |                                       | . :         |                                      | 12           |                |
| OUE PASA - Temis 2 /2                 | <del></del>       |                                       | <b>}</b> -  |                                      | 10)          |                |
| · · · · · · · · · · · · · · · · · · · |                   |                                       | <del></del> |                                      | 8)           |                |
| 1/2                                   |                   |                                       |             |                                      | 77           |                |
|                                       |                   |                                       |             | L                                    | 74           | <u> </u>       |
| 1/2                                   |                   |                                       |             |                                      | <u> </u>     | <u> </u>       |
| 3/0*                                  |                   |                                       |             | l                                    | 65           | -1             |
| • RB 4                                | 100               | 100                                   | 100         | 199                                  | 51           | 100            |
| - xt 8                                | 1                 | L                                     | L           | L - 23                               | <del> </del> | 91_            |
| • HT 10                               | 92                | 77                                    | 94          | 77.                                  |              |                |
| - AR 16                               | <del> </del>      |                                       | • -         | فالمحضيصا                            |              | <del>-</del>   |
| * k3 30                               | 82                | 53                                    | 85          | . oi                                 | 1            | 76             |
| • Nº 40                               | <u>0</u> 2        |                                       | 2.99        |                                      |              |                |
| N 30                                  | <b></b>           | <b>├</b> ┄ ┄╌∹-                       | <u> </u>    | T                                    |              |                |
| • H\$ 100                             | † " <i>5</i> 7    | 44                                    | 69          | 70                                   | 37           | 57             |
| INITE LIQUIDO                         | <del>72</del> - · | 41                                    | 43          | 45                                   | 1 43         | 42             |
| NOICE OF PLASTICIOND                  | 37                | 29                                    | 26          | 25                                   | 23           | 25             |
| ONTRACCION LINEAL %                   |                   | I                                     |             |                                      | <b>1</b>     |                |
| ALOR CENENTANTE                       | 1                 | L                                     | 1           |                                      | 1            | - <del> </del> |
| QUIYALENTE OF ARENA                   | 1                 | ļ.,,,,,,,                             | yx-         | 1 -22.20                             | 113.6        | 118.           |
| ENSIDAD MAX (LESPIES)                 | 107,0             | 118,6                                 | 115.0       | 93.8<br>22.5                         | 13.6         | +··'11°.       |
| TUMEDAD OPTIMA %                      | 16.1              | 11.9                                  |             | 8.3                                  | 21.0         | 3.             |
| 0 A SAT 100% (%)                      | 1,6               | 3.2                                   | 4.2         | 1 0.3                                | <u> </u>     | 7              |
| FEBO YOU BIN COMPACTAR                | 4.9               | 2.6                                   | 4.0%        | 2.7                                  | 0.9          | 3.             |
| EXPANSION %                           |                   | <b></b>                               | 1           | . f                                  | - [          |                |
| BEJERNA BOJ BYRABER                   | <del></del>       | <b>†</b>                              | 1           |                                      |              |                |
| ELTERABLINAU WALFAIV                  | <b>T</b>          |                                       | 4           |                                      |              |                |
| C. B. R. 95 % de Dens. Nox.           | 1.2<br>2.55       | 3.4<br>2.49                           | 3.0<br>3.67 | 4.4                                  | 17.3         | 1.             |
| Grovedod Especifica                   | 2,55              | 2.49                                  | 1512 3 67   | 2,5                                  | 2.48         | 2.             |
|                                       |                   |                                       | 0           | 7                                    | 77.          |                |
|                                       |                   | <b>\</b> \$\dot{\dot{}                |             | $\mathbf{X} = \mathbf{A} \mathbf{Y}$ | 111          | n/             |
|                                       |                   | lg J                                  | Educion 11  | still (1)                            | lodrlgen     | /20/           |
| CALCULO                               |                   |                                       | RETAINS     |                                      |              |                |

SECCION DE MATERIALES E INVESTIGACION DIRECCION GENERAL DE CAMINOS

RESUMEN DE DENSIDADES PARA CONTROL DE COMPACTACION

| 42.54         | 74.00     |              | POSICION   | K        | RESULTADOS LABORATORDÍAZIATADOS DE CAMBO | ADOKATOMO         | RACK LOK ANAPITO TELBO METODO C        | 081-100                      | METODO   | D COM   |  |
|---------------|-----------|--------------|--|----------|--|-------------------|--|------------------------------|--|---|--|
| VE A          | ES TACION | LOCALIZACION | OE CAPA  | 3 5      | UKABIUMU<br>Las/pro                      | AUBRIAD<br>OPTINA | 0610000                                | DAU SAU                      | PACTACION  | PACTACION                                     | OBSERVACIONES  |
| 15-2-78       |           | 4            |  | .9       | 109.0                                    |                   | 117.2                                  | 9                            | 107 5  | Sall Sall                                     | 1  |
| 15-2-78       |           | ij           |  | 5 /2#    | 118.6                                    | 0                 | 8                                      |                              |  |   | E 2  |
| 6-2-2         |           |              |  | * (V.) * | 11.6.0                                   |                   | ľ                                      |                              |  |   | 45-30 cm.  |
| 10-2-70       |           |              |  |          |  |                   | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ا                            | 8,4  |   | 80-104 cm  |
|               |           |              |  | o        | 78.8                                     | 22.5              | 7.7%                                   | 20.3                         | 8.8<br>8.8   |   | 104-200 cm   |
| W-7-7%        |           | 7            | 1 1 1  | 5./2"    | 113.6                                    | 13.6              | 120.6                                  | 0.6                          | 105.6  | 40  | 220-240  |
| 22-22         |           | Y.           |  | 5.1/2"   | 118.0                                    | 0                 | 120.4                                  | × 0                          | 100  |   | 300 000  |
|               |           |              |  |          | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1    | Ī                 |  |                              | ,  |   | m> 007-007   |
|               |           |              |  |          |  |                   |  |                              |  |   |  |
|               |           |              | 1.000  |          |  |                   |  |                              |  |   |  |
|               |           |              |  |          |  |                   |  | and the                      |  |   |  |
|               |           |              |  | _        |  |                   |  |                              |  |   | all control to the state   |
|               |           |              |  |          |  |                   |  |                              |  |   | Armine seems of the contract o |
|               |           |              |  |          |  |                   |  |                              |  |   |  |
|               |           |              |  |          |  |                   |  |                              |  |   |  |
| A consequence |           |              |  | 1        |  |                   |  | Salary of the Salary         |  | AV  | The second secon |
|               |           |              |  |          |  | •                 | Carlo Carlo                            | and the second               |  |   | リース は彼のでなく アンロット 筆き  |
|               |           |              |  |          |  | 44.4              | 2 E                                    |                              |  |   |  |
|               |           |              |  |          |  |                   |  | 1                            | A. Albert  |   | to be delice.  |
|               |           |              |  | -        |  |                   |  |                              |  |   |  |
| -             |           |              |  |          |  |                   |  | †<br>                        |  |   | A STATE OF THE STA |
|               |           |              |  |          |  |                   |  |                              |  | A CONTRACTOR OF THE                           | and the second of the second of the second of  |
|               |           |              |  | 1        |  |                   |  | The second second            | The second second  |   | Section of Sentential Control of the Sentent |
|               |           |              |  |          |  |                   |  |                              |  |   | A Company of the Comp |
|               |           |              |  |          |  |                   | egis on onestacional con               | and professional constraints | The Contract of the Contract o | 1 12 7 12 12 12 12 12 12 12 12 12 12 12 12 12 | The second state of the second |
|               |           |              |  | 1 1 1    |  |                   | A Marie Contract                       |                              |  |   | The second secon |
|               |           |              |  |          |  |                   |  | T T                          |  |   |  |
|               |           |              |  |          |  |                   |  |                              | †<br>  |   |  |
| 4             |           | 4.           | 7.0  | L        |  |                   |  | 1                            | *  |   |  |
|               |           |              |  |          | 1  | <b>†</b>          | 7                                      | ,                            | 4  |   | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1   |
|               |           |              |  | -        |  |                   |  | 7                            | 1. EL  |   |  |
|               | CALCULO:  |              |  |          | REVISO L                                 | 1170              | Lower                                  |                              | (1/0 m)  | 5 / 10  |  |
| :             |           |              | The state of the s | -        | \  | //                |  |                              | 1  |   |  |

| Proyecto:       | Nuavo Aeropuerto de Tegustgalpa                                   |                       |                               |
|-----------------|---|-----------------------|-------------------------------|
| lugas           | Talanga   |                       | : 🔪 .                         |
| Localización:   | 81 Perforación No.5   |                       |                               |
| Nivel Freblicos | No hay  |                       |                               |
| Profundidad     | Closificación<br>y Descripción                                    | No. da<br>Golpas      | Penetración<br>en<br>Pulgodos |
| 0'-10"          | SC/A-2-5<br>Arens orcillosa color cofé<br>oscuro                  | okeatreside<br>onem o | <del>-</del>                  |
| 10*-51          | SC/A-2-5<br>Arena orcillosa color<br>omorillo                     | Muéstrezdo<br>a mana  |                               |
| 5'-10'          | SC/A-S<br>Arena arcillosa   | 50                    | <b>&amp;*</b> - : -:          |
| 10'-12'6*       | CL/A-S<br>Arcillo color cofé clarò                                | 63                    | 12"                           |
| 12'6"-16'6"     | CL/A-S<br>Arcilla color colé                                      | 51                    | 12*                           |
| 16'6"-23"       | CL/A-S<br>Arcitia color coté claro                                | 61                    | 12*                           |
| 23'-25'6"       | CR/A-7-6 ::.) Arcilla de alta plasticidad                         | 68                    | 12-                           |
| 25'6*-30'6*     | color gris. CH/A-7-3 Arcillo da olto plosticioso color esporillo. | 94                    | 11*                           |
| 33'6*-35'6*     | CH/AJ-6<br>Arcilla de alta plasticidad<br>color casé clara.       | <b>53</b>             | `12*                          |

### .../continua Bl

| Profundiad  | Clasificáción<br>y Descripción                                  | No. da<br>Golpës                         | Penetración<br>en<br>Pulgadas |
|-------------|---|--|-------------------------------|
| 35'6"-40'6" | CH/A-7-6<br>Arcilla de alto plasticidos<br>color roxedo         | 53                                       | 12*                           |
| 40'6"-41'   | CH/A-7-3<br>Arcillo color gris                                  | 71                                       | 12*                           |
| 41'-50'     | CH/A-7-6<br>Arcillo de olto plosticidad<br>color colte grisaceo | <b>55</b>                                | 12"                           |
| 50'-54      | CH/A-7-5<br>Arcilla de olta plasticides<br>color cols           | 75                                       | 12•                           |
| 54'-55'     | CH/A3-6<br>Arcillo de olto plasticidad<br>color gris            | 54                                       | 12*                           |
| 55'-65'     | CH/A-7-5<br>Arcilla de olta plasticidos<br>color cale claso     | <b>62</b>                                | 12**                          |
| 65'-\$7'    | CH/A-7-5<br>Arcilla da alta plasticidad<br>color cola claro     | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 12*                           |

Reviso: Par Jadiguer

CALCANDS OF CALCAD

Ing. Voleno Guliènez Lopez

| Proyecto:       | Nuavo Aeropuerto da Tegucigalpa                   | =                      |                            |
|-----------------|---|------------------------|----------------------------|
| Lugars          | Tolonga   |                        |                            |
| Perforación:    | 82  |                        | and with the               |
| Nivel Frestico: | No hay  |                        |                            |
| Profundidad     | clasificación<br>y Descripción                    | No. Go!pss             | Penetrosión<br>en Pulgados |
| 01-119*         | SC/A-2-3 arena gruesa<br>Arcillosa color amarillo | (musificado a<br>môno) | ~                          |
| } '9*-4'        | \$C/A-2-5 drena arcillosa<br>color colé           | •                      | <b></b>                    |
| 4'-5'6*         | SC/A-2-5 orens arcillosa<br>color omarillo        | 103                    | 9 m                        |
| 6'6"-10'        | CL/A-6 orcillo color coss                         | 60                     | 7 1/2"                     |
| 10'-15'         | ML/A-4 limo color cofé                            | 74                     | 12"                        |
| 15'-20'         | CVA-S árcilla color café                          | 79                     | 6"                         |
| 23'-25'         | CL/A-S arcilla color case                         | 8)                     | 8=                         |
| 25'-29          | MVA-4 orcilia color casé                          | 60                     | 7 1/2"                     |
| 29'-32'         | CL/A-s arcillo color cofé                         | 69                     | 2 1/2"                     |
|                 |   |                        |                            |

Revists: forfl . Haliques

Marten 128 Pipo Volerio Guitièrrez Lopez

[Marten 138 Pipo Volerio Guitièrrez Lopez

[Marten 130 Chi Sepodo Sec. Moterioles e Investigações

Elem.

| Projecto:      | Nuavo Aeropuarto da Teguctos                                 | Îpa  |                            |
|----------------|--|--|----------------------------|
| Lugars         | Tolongo  |  |                            |
| Localización   | B3 Perforación No. 2   | usta i i tiri Sigari balan ili.<br>Tarah sa                  |                            |
| Nivel Fredrico | No hay   |  |                            |
| Profundidad    | Clasificación<br>y Descripción                               | No. de<br>Golpes   | Penetroción<br>en Pulgosos |
| 0'-7'          | CH/A-7-8<br>Arcilla de altá plasticidad<br>color calé oscuro | <b>37</b> (1971) 38<br>2 (23) (1982)                         | 12#                        |
| 7'9'           | SM/A-2-4<br>Arena limosa color rososo                        | 60 - 60 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -                | 8*                         |
| 9'-15'         | CH/A-7-6<br>Arcilla de alta plasticidad<br>color calé cloro  | <b>55</b>  | 12=                        |
| 15'-19'        | CH/A-7-3<br>Arcilla de alta plasticided<br>color colt claro  | <b>45</b> (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4 | 12*                        |
| 19'-22'        | CH/A-7-3<br>Arcilla color case clara                         | 91 - 1 <b>52</b> 1 52 1 53 1 54 1                            | 12"                        |
| 22'-25'        | CH/A-7-5<br>Arcilla de alto plasticidad<br>color colo cloro  | 49<br>11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                 | 12•                        |
| 25'-27'        | CH/A-7-5<br>Arcilla de alta plosticidos<br>colo: colé claro  | 144<br>144<br>15 July 2017 (154)                             | 12*                        |
| 29'-35'        | CH/A-7-3<br>Arcilla de alta plosticidos<br>color case cloro  | <b>51</b>  | 12=                        |
| 35'-35'5*      | SNYA-2-4<br>Arena limozo color rosado                        | <b>60</b>  | <b>5•</b>                  |
| 35'5*-39'      | CH/A-7-5<br>Arcilla de alta plasticidad<br>color cofé claro  | 50   | 12=                        |

| Profundidad | Clasificación<br>y Descripción                              | No. Golpes                       | Penetración<br>en Pulgodos |
|-------------|---|----------------------------------|----------------------------|
| 40'-45'5"   | SM/A-2-4<br>Arena limosa color cala<br>claro                | 60 (1997)<br>1997) 1986<br>1997) | 12*                        |
| 45'5"-50'   | CH/A-7-5<br>Arcillo de olto plosticidad<br>color colo cloro | 60                               | 2*                         |
| 50'-55'     | CH/A-7-3<br>Arcillo de alto plosticiós<br>color colé cloro  | 69                               | 8*                         |
| 55*-5\$     | SWA-2-4<br>Arena limosa color colé cloro                    | <b>69</b>                        | 6=                         |
| 56'-41'     | CH/A-7-6<br>Arcilla de alta plasticides<br>color cafá cláro | 61                               | 12=                        |

Ing. Volerio Gutiériez López
Engagodo Sec. Moterioles e Investigación

| Proyecto:       | Nuevo Aeropuerto de Tegucigal                                     | cq                 |                               |
|-----------------|---|--------------------|-------------------------------|
| Lugars          | Talanga   |                    |                               |
| Localizacións   | 84 Perforación No.4   |                    |                               |
| Nivel Frestico: | No hay  |                    |                               |
| Profundidad     | Clasificación<br>y Descripción                                    | No. de<br>Go!pes   | Penetración<br>en<br>Pulgadas |
| 0-10-           | GM/A-2-4<br>Grava limosa color<br>cole oscuro                     | Musstreo<br>a mara |                               |
| 10*-5'8*        | CL/A-S<br>Arcilla color amarilla                                  | Muestrea<br>o mono |                               |
| 5'6"-7'         | CL/A-7-5<br>Arcilla color calé                                    | 67                 | 12*                           |
| 7:-14:          | SW/A-2-4<br>Arena limosa color<br>omarillo                        | 82                 | 11**                          |
| 14'-18'         | CL/A-7-6<br>Arcilla color café grisacea                           | 67                 | 12=                           |
| 18'-23'         | CL/A-S<br>Arcilla color roso so                                   | 57                 | 6"                            |
| 25'-27'         | SWA-2-4<br>Arena limba color ambillo                              | 52                 | <b>6</b> •                    |
| 27'-35'         | CH/A-7-5<br>Arcillo de otro plasticidad<br>color colé amerillanto | 83                 | 12*                           |
| 35'-37'         | CH/A-7-5<br>Arcillo de olto plosticidad<br>color omerillento      | 87                 | 10*                           |
| 37′-39'3*       | CH/A-7-6<br>Arcillo de olto plosticidad<br>calor roxada           | 87                 | 10*                           |

### ....Continuo 84

| Profundidas | Closificación<br>y<br>Descripción                              | No. do<br>Golpos | Penetración<br>en<br>Pulgadas |
|-------------|--|------------------|-------------------------------|
| 37:3*-43*   | SM/A-2-4<br>Arena timosa colo: rosodo                          | 50               | 3=                            |
| 43'-50'     | CH/A-7-5<br>Arcilla de alto plasticidad<br>color gris          | <b>53</b>        | 12*                           |
| 50'-51'6"   | CH/A-7-6<br>Arcillo de alto plosticidad<br>color cole grisacea | <b>4</b>         | 12* *                         |

Reviso: IAC Andriques
Ind. Isigs A. Rodrigues

SECTION DE SE

Cion on Valerio Gutiérrez López

Encorpsio Sec. Motles. e Investigaciones

| Proyectos              | Nuevo Aeropuerto de Tegualgolpa             |   |                            |
|------------------------|---|---|----------------------------|
| Lugars<br>Perforacións | Tolonga<br>85                               |   | 75.73                      |
| Nivel Frestico         | No hay                                      |   | 1.00                       |
| Profundidad            | clasificación y<br>Descripción              | No. Golpss                                    | Penetroción<br>en Pulgodos |
| 0'-10"                 | Arcillo color gris                          | (mussireà a mana)                             |                            |
| 16*-21-21              | CH/A-7-\$<br>Arcillo color cofé             | ografia<br>Kongresia Sole                     | . <b>-,</b> -              |
| 2'-4'                  | CH/A-7-5 Arcilla color calá                 | •   |                            |
| 4'-10'                 | CH/A-7-6 Arcilla color anarilla<br>y blanco | 35  | 12"                        |
| 10'-15'                | CH/A-7-5 orcilla color amerilla             | 65  | 12•                        |
| 15'-20'                | SC/A-2-5 areas arcillosa<br>color asorillo  | 60  | 101/4-                     |
| 201-251                | CVA-d aicilla color cola                    | 60  | 3 1/2*                     |
| 25'-29'                | CH/A-7-6 arcilla color cole clare           | 76  | 12-                        |
| 29'-32'                | CH/A-7-5 arcilla color amorilla             | 79  | 12=                        |
| 32'-34'                | CL/A-7-6 orcilla colo: rollzo               | <b></b>                                       |                            |
| 3i10.                  | CH/A-7-5 orcilla color a modillo            | 65  | 12*                        |
| 40'-45'                | CL/A-7-6 arcilla color rollea               | 65  | 12-                        |
| 45'~49'6"              | CVA-7-5 orcillo color rojizo                | 77  | 12=                        |
| 49'6"-50'2"            | CH/A-7-6 occilla color omorillo             | -,-   | w <u>.</u>                 |
| 50'2*-51'8'            | CIAA-7-5 orcillo comENTO                    | 53  | 12*                        |
| Raviso: Jago           |   | Gy. Volerio Guitenez<br>So Sec. Mailes, o Inv |                            |

| Proyectos        | Nuevo Aeropuerto de Tegucio                    | ي در در در وواد    |                               |
|------------------|--|--------------------|-------------------------------|
| Lugars           | Tolonga  |                    |                               |
| Locolizacións    | 86 Perforación No. 6                           |                    |                               |
| Nivel Freditico; | No hay   |                    |                               |
| Profundidad      | Closificación<br>y<br>Descripción              | No. da<br>Golpės   | Penetrosión<br>en<br>Pulgadas |
| 0-31             | GM/A-2-A<br>Grava limosa color gris            | Musstreo<br>o mono | 4 = 3 × 4                     |
| 11-31            | CI/A-6<br>Arcillo color cose claro             | 75                 | 12"                           |
| 6'-15            | CL/A-S<br>Arcillo color colé cloro             | 57                 | 12"                           |
| 15'-20'          | MI/A-S<br>Limo color café clara                | 77                 | 12"                           |
| 20'-25'          | SC/A-5<br>Arena arcillóxa<br>color colá cloro  | 56                 | 12*                           |
| 25'-27'          | SC/A-6<br>Arena arcillosa<br>color cole claro  | <b>27</b> .        | 12*                           |
| . 27'-32'6"      | CL/A-7-6<br>Arema arcillom color cafe<br>cloro | 58                 | 12•                           |

Bur Yorkis & E) at L. T.

Bur Yorkis & E) at

| CONACTICNOCATE A CA NOTE DE CENSO |   |
|-----------------------------------|---|
| · K#                              | • |
| <b>4</b> .                        |   |

#### SECCION DE MATERIALES É INVESTIGACION

#### TEGUCIGALPA OC HÓNDURAS Ó A

| ADVECTO NUEVO AEROPUER              | O DE JEGU      | IGALPA          | \$6000H                               | TALANGA_  |              |              |
|-------------------------------------|----------------|-----------------|---------------------------------------|---|--------------|--------------|
| OJA M1 OE _                         |                | HÔJAS           |                                       |   |              |              |
|                                     |                |                 | 200                                   |   |              |              |
|                                     | •              |                 | 1. 1. 6. 1. 1.                        |   |              |              |
|                                     | <del> </del>   |                 |                                       |   |              | <del></del>  |
| STÁCIÓN                             |                |                 |                                       |   |              | <b></b>      |
|                                     |                | 7               |                                       | <del> </del>  | <del></del>  | <del></del>  |
| OCALIZAÇION                         |                |                 |                                       |   |              | Prince de    |
| 9 DE CAMPO                          |                | 2               |                                       |   |              |              |
| F DE LABORATORIO                    | 311            | 312             |                                       |   |              | <b></b>      |
| AGFUNDIDAD (COL)                    | 103-153        | 133-255         |                                       | <del> </del>  |              | <b></b>      |
| LASE DE MAYERIAL UNIFICADO          | CH A-7-1/2 N   | CH<br>A-7-8(22) |                                       |   | <del></del>  |              |
| AASTHO                              | W-1-0(0))      | V-1-0(50)       |                                       | { <del></del>   |              | <del> </del> |
|                                     | 1              | 1               |                                       | ]   |              |              |
| OUE PASA - Tenis 2 Va               |                | <b></b>         | <b></b>                               | <b>↓  ↓</b>   |              | -ļ           |
| ٠                                   |                |                 | <b></b>                               | 4   | <del> </del> |              |
| 174                                 |                | <b> </b>        | <b> </b>                              | - <del>                               </del>  |              |              |
| 23 <b>VA</b> 21 1 2                 | 1              |                 |                                       |   |              | <u> </u>     |
| 1/2                                 |                |                 |                                       | المقصصفات   |              | <b>_</b>     |
| • 3/0*                              | 100            |                 | <del> </del>                          | -l  |              | -i           |
| N. 4                                |                | 100             | <b></b>                               | di  | أنته لمستشم  | 4            |
| - Nº 10                             | - 93           | 53              | <del></del>                           | <b>†</b>  |              |              |
| - XF 18                             |                |                 |                                       |   |              | 4            |
| - Nº 10                             |                | <b>∤</b>        | <u> </u>                              | 1 - 1 - 1 - 1 - 1   |              | <b></b> -    |
| * 89 40                             | 92             | 95 ,            |                                       | 4   |              |              |
| * Nº 100                            | <del></del>    | . <b>]</b>      | <b></b>                               |   |              | -1           |
| * H\$ 260                           | 88             | 89              | 1                                     |   |              |              |
| MITE - IQUIDO                       | 85<br>32<br>32 | 45.             | 4                                     |   |              | <b></b> .    |
| OCE DE PLASTICOAD                   | T              | 23              | <b>↓</b>                              | 4   |              | - <b>-</b>   |
|                                     | <b>.</b>       | <b>+</b> •      | · · · · · · · · · · · · · · · · · · · |   |              |              |
| ALOR CEWENTANTE                     |                | ·               | †                                     | i de la composición de la composición de la composición de la composición de la composición de la composición d<br>La composición de la |              | 8.13114      |
| ENSIDAD MAX (L&S/PIE <sup>1</sup> ) |                |                 | 1                                     |   |              |              |
| UNEGAD OPTIMA %                     | ľ              | T               | 1                                     |   |              |              |
| # A #AT 100% (%)                    |                |                 | ·                                     | <u> </u>  | <u> </u>     |              |
| ESO YOU SIN COMPAGTAR               | 1              | <del></del>     | ļ                                     | <del></del>   | <del> </del> | -1           |
| RESORBITE LOS ANSELES               |                |                 |                                       | 1   |              |              |
| LIERABRICAD BULFATO                 |                | T               |                                       |   | ļ            |              |
|                                     |                | <del>-  </del>  | <u> </u>                              |   |              |              |
|                                     |                | J               |                                       | <del></del>   |              |              |
|                                     | <del></del>    |                 | J                                     | <del>少</del>  |              |              |
| NOTA: 0-100 cm.                     | Arena y Grav   | <b>o</b>        |                                       | 1 /34   | Tiv.         | 7/           |
| _                                   |                |                 | Z                                     | APC IIC   | Colore       | x //.        |
| CALCULO                             |                |                 | REVISO Z.                             | ノソンノニーノー  | · = * //     |              |

| COSRESPONDENTE | A 14 | 1014 |
|----------------|------|------|
|                |      |      |
| NE CARGO       |      |      |

## SECCION DE MATERIALES E INVESTIGACION

#### TEGUCIGALPA OC HONDURAS C A

| PAOTECTO NUEVO AEROPUERTO TEGUCIGALPA  TALANG  MOJA Nº OE MOJAS  STRACIÓN  STRACIÓN  LOCALIZACION T.2  Nº DE CAMPO 314 313  Nº DE CAMPO 100-11 100-18) 180-200  CLASE ÓE MATERIAL UNIFICADO C.1  A Nº THO A-5 (12) A-5 (14)  P. QUE PASA TERIZ 2 Vº  1 V²  1 | A                     |
|--|-----------------------|
| 12   1   2   2   2   2   2   2   2   2   |                       |
| 12   1   2   2   2   2   2   2   2   2   |                       |
| 12   1   2   2   2   2   2   2   2   2   |                       |
| 1   2   2   3   3   3   3   3   3   3   3  |                       |
| (4 DE CAMPÓ (5° DE LABORATORIO (5° DE LABORATORIO (5° DE LABORATORIO (5° DE LABORATORIO (5° DE LABORATORIO (5° DE MATERIAL UNIFICADO (5° QUE FASA—TERIZ 2 3° (5° DE FASA—TERIZ 2 3° (5° |                       |
| 19 DE CAMPO 19 DE LABORATORIO 100-183 183-200  PROFUNDIDAD (Cos) 103-183 183-200  PLASE DE MATERIAL UNIFICADO A 8 T HO A 8 T HO A 5 T HO A 5 T HO  173  174  172  173  174  172  173  184  18 8  18 10  18 80  18 10 |                       |
| 19 DE LABORATORIO 100-183 183-233  PROFUNDIDAD (COS ) 103-183 183-233  LASE DE MATERIAL UNIFICADO A-5 (12) A-5 (14)  A S T HO  | 3.7.1                 |
| 19 OE LABORATORIO 100-183 183-233  CLASE DE MAYERIAL UNIFICADO A 8 8 H O A 8 8 H O A 8 1 H O  100-183 183-233  CLASE DE MAYERIAL UNIFICADO A 8 1 H O A 8 1 H O A 8 1 H O A 8 1 H O A 8 1 H O A 8 1 H O A 100 |                       |
| LASE DE MATERIAL UNIFICADO CL CL  A A 8 T H O A-S (12) A-S (14)  - QUE PASA-TENZ 2 ½  - 1½ | <del></del>           |
| A A S T H O A-5 (12) A-5 (14)  2   |                       |
| OUIE PASA - Tenin 2 %  | <del>-  </del>        |
| 172  174  172  376  189  189  180  1810  1 | _ <del> </del>        |
| 1/2    | and the second second |
| 1/2    |                       |
| 17/2  1/2  1/2  1/2  1/2  1/2  1/2  1/2  |                       |
| 1/2    |                       |
| 10   10   10   10   10   10   10   10  |                       |
| 100  100  100  100  100  100  100  100   |                       |
| ### ### ##############################   | <del>  </del>         |
| Nº 10   10   79  |                       |
| N\$ 18   | <b>.</b>              |
| N\$ 18   |                       |
| NE 80  |                       |
| NR 40  |                       |
| HE SO  NE 100  NE 100  NE 200  |                       |
| AND ECO 82 85 35 35 35 35 35 35 35 35 35 35 35 35 35   |                       |
| HINTE LIQUIDO  ADIGE DE PLASTICOAD  ONTRACCION LINEAL %  PALOR CENENTANTE  LIQUIVALENTE DE ARENA  DENSIDAD MAX (LESPIE <sup>1</sup> )  FUNCOAD OPTIMA %  E R SAE 100% 1%1)  PESO VOL SIN COMPACTAR  EXPÁNSIÓN  DESGASTE LÓS ANSELES  ALTERABILIDAD SULFATO   |                       |
| NDICE OF PLASTICOAD CONTRACCION LINEAL % CALOR CEMENTANTS CHUIVALENTE DE ARENA DENSIDAD MAX (LESYDIE <sup>3</sup> ) SUNICOAD OPTIMA % ES R SAE 100% 1%3) PESO VOL SIN COMPACTAR EXPÁNSION DESGASTE LÓS ANSELES ALTERASHLIDAD SULFATO   |                       |
| CONTRACCION LINEAL %  CALOR CEMENTANTE  LOUIVALENTE DE ARENA  DENSIDAD MAX (LESPIE <sup>1</sup> )  CUMEDAD OPTIMA %  ES R SAE 100 % 1%1)  PESO VOL SIN COMPACTAR  EXPÁNSION  DESGRITE LÓS ANSELES  LLTERABNIDAD SULFATO  | i                     |
| CALOR CEMENTANTE  COUIVALENTE DE ARENA  DENSIDAD MAX (LESPIES)  COMECAD OPTIMA %  ES R SAE 100% 1%1)  PESO VOL SIN COMPACTAR  EXPÁNSION  DESGRATE LÓS ANSELES  LLTERABRIDAD SULFATO  |                       |
| EQUIVALENTE DE ARENA DENDIDAD MAX (LESPIE <sup>1</sup> ) HUNGOAD OPTIMA % ES R SAE 100 % 1%1) PERO VOL SIN COMPACTAR EXPÁNSION DESGRATE LOS ANSELES ALTERABRIDAD SULFATO   |                       |
| DENSIDAD MAX (LESTIES) RUNGOAD OPTIMA % SER SAE 100 % 1%) PESO VOL SIN COMPACTAR EXPÁNSION DESGRATE LOS ANSELES LLTERASRIDAD SALFATO   |                       |
| RUMEOAD OPTIMA %  B R BAE 100% 1961  PESO VOL BIN COMPACTAR  EXPÁNSION  DESGRAFTE LÓS ANSELES  LLTERABRICAD SURFATO  |                       |
| ER SAE 100% (%) PESO VOL SIN COMPACTAR EXPÁNSION DESGRAFTE LÓS ANSELES LLTERASNIGAD SULFATO  |                       |
| ESO VOL SIN COMPACTAN EXPANSION DESGRAFTE LÓS AXSELES LLTERASNIGAD SULFATO   |                       |
| EXPÁNSIÓN DESGRATE LÓS AXSELES LLTERABRIGAD SULFATO  |                       |
| DESGRAFIE CÓS ARSELES  |                       |
| LITERABRICAD BALFATO   |                       |
|  |                       |
|  | - 1                   |
|  |                       |
|  | ZOTO N                |
| NOTA: 0-10) cm- Arena y Grava  | 87/ 198 /             |
| CALCULO REVISO FOR CO  | Andreo Rise (/        |

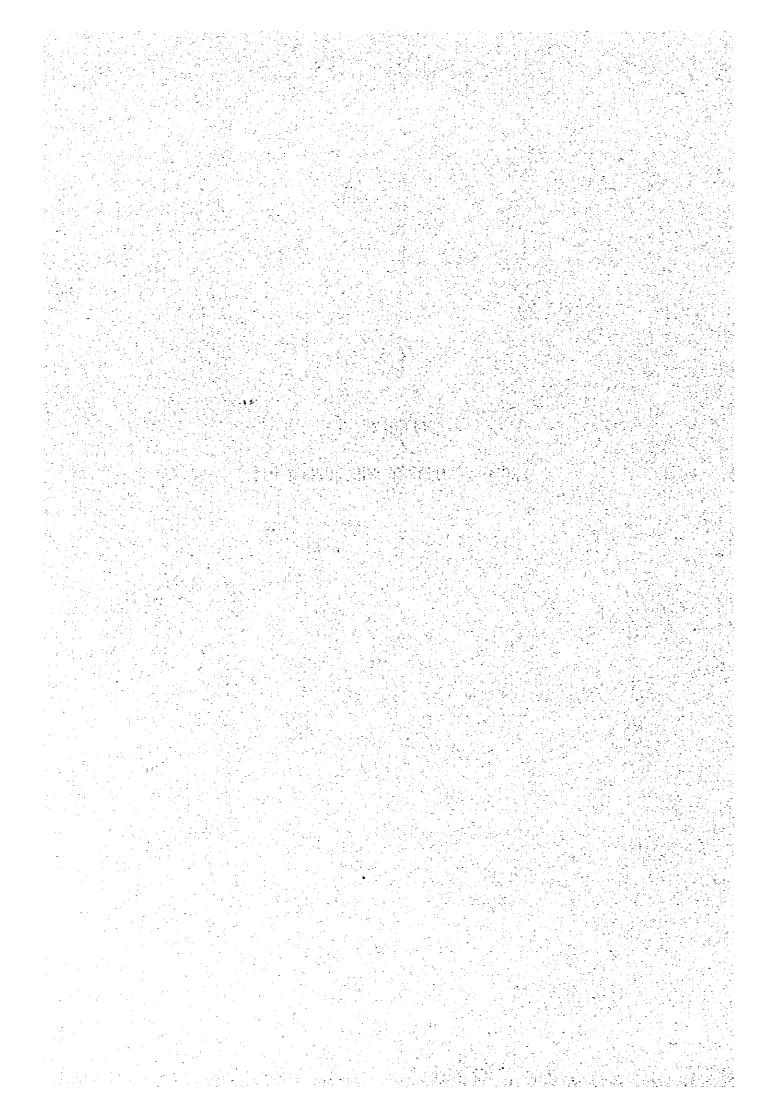
| <u></u>        | - |    |              |
|----------------|---|----|--------------|
| CONFESSORMERSE | ۶ | ξÀ | <b>45f</b> 4 |
| DE CAGCO       |   |    |              |
| Na casso       |   |    |              |

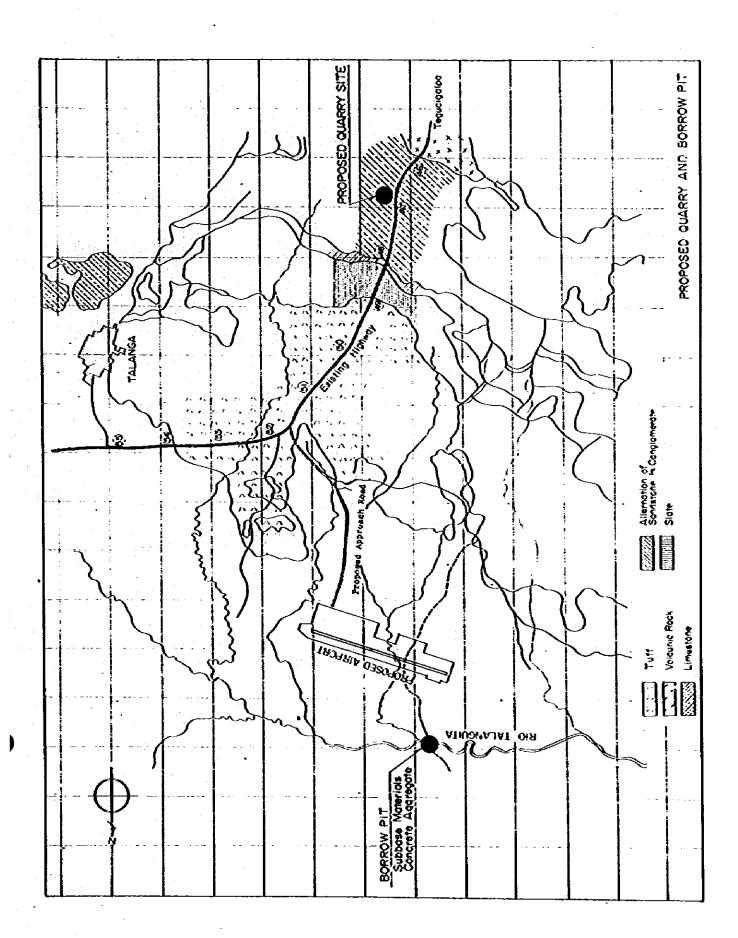
## DIRECTION DE MATERIALES É INVESTIGACION

#### TEGUCIGAL DA GC HONDURAS C A

|                                      | <u>). Para jeg</u>     | <u>UCIGALPA</u> | SECCION                                | IAIANG                                | ۸            |  |
|--------------------------------------|------------------------|-----------------|--|---------------------------------------|--------------|--|
| 0/4 H <sup>0</sup>                   |                        | KOJAS           | · · · · · · · · · · · · · · · · · · ·  | n în în en En îsanî.<br>Li            | ÷. · · · · · |  |
|                                      | •                      |                 | ************************************** | * **                                  |              | 2 t  |
|                                      |                        |                 |  |                                       |              | :  |
| STACION                              |                        |                 |  |                                       |              | <b></b>  |
| CALIZACION                           |                        | 13              |  |                                       |              |  |
| OF CARSO                             | X                      | B               | <u> </u>                               |                                       |              |  |
| DE LABORATORIO                       | 315                    | 316             | 317                                    |                                       |              |  |
| ROFUNDIDAD (Cms )                    | 0-10)                  | 0-10)           | 0-103                                  |                                       |              |  |
| LASE OF MATERIAL UNIFICADO           | GP                     | GP              | GP (A)                                 | <u> </u>                              |              |  |
| AASTHO                               | A-1-0(0)               | A-1~(0)         | A-1-o(0)                               |                                       |              | -  |
| 3*                                   | 10)                    |                 |  |                                       |              |  |
| QUE PASA-TEMIS 2 VE                  | 95                     | 100             |  |                                       | L            | <u> </u>   |
| 2*                                   |                        | 97              | 10)                                    |                                       |              | - <b></b>  |
| - 171                                |                        | 96<br>87        | 93<br>94                               | <del> </del>                          | <b> </b>     | <del>-                                    </del> |
| • [                                  | 82                     | <u> </u>        | 37:                                    | ·                                     | <del> </del> | <u> </u>   |
| 1/2                                  |                        |                 | 7 to 1 for                             |                                       |              | 1  |
| 3/0                                  | 69                     | 82              | 77                                     |                                       | ↓            | _i   |
| - Nº 4                               | _57                    | 47              | 62                                     | İ ,                                   |              | •  |
| - Kt                                 | -45                    | 35              | 45                                     | <u> </u>                              |              | - <b> </b>                                       |
| + Nº 10                              | 43                     | · <del> </del>  |  | i                                     | i            |  |
| - KF 10                              |                        | T               | j<br>!                                 | 1                                     | 1            |  |
| nt 40                                | 7                      | 7               | 6                                      |                                       | 1            |  |
| 4 NS SO                              |                        |                 |  | · · · · · · · · · · · · · · · · · · · | <b>i.</b>    | ــــــــــــــــــــــــــــــــــــــ           |
| + At 100                             |                        | ļ               |  |                                       | <b></b>      | - <b>-</b>                                       |
| 4 M\$ 500                            |                        | . 2<br>N.L.     | ka asa kasar                           | <b>.</b>                              | <del></del>  | ·  |
| MITE - 190:00                        |                        | N.5.            | NA.                                    |                                       | 1            |  |
| IOIGE ÓE PLASTICIOAD                 |                        | 1               | 1                                      | 1                                     | 1            |  |
| LLOR CENERTANTE                      | Γ                      | I               |  |                                       | l            |  |
| QUIVALENTE DE ARENA                  |                        |                 | ļ,                                     |                                       | 1            | <b>.</b>   |
| EHSIDAD HAX (LGS/PIE <sup>\$</sup> ) | <b>-</b>               |                 | ļ                                      | . i                                   | t            |  |
| UNEGAG OPTINA %                      | <del> </del>           |                 | ļ                                      |                                       | - <b> </b>   |  |
| .B.A. BAT 100% (%)                   |                        |                 | <del></del>                            | 1                                     | 1            |  |
| XPANSION                             |                        |                 | 1                                      | T                                     |              |  |
| ESSASTE LOS AXSELSS                  | I                      |                 | I                                      | .                                     |              |  |
| LTERABILIONO BURFATO                 |                        |                 | <b></b> ,                              |                                       | .}           | , <del>(</del>                                   |
|                                      |                        |                 | i                                      | -i                                    | 1            |  |
| فالجاه مقتسس فالعاب وعيماسهان        |                        |                 | Í                                      |                                       |              | <del></del>                                      |
|                                      | 1                      | , L             | <del></del>                            |                                       | -J           |  |
|                                      | Collie                 | AU.             |  | •                                     |              |  |
|                                      | (0.                    | ·/              |  |                                       |              | $(x,y) \in Y_{n+1}(\mathbb{R}^n)$                |
| C4LCULO                              | - <del>13 112</del> 39 | 34.6 - × 1      | JEVISO                                 |                                       |              | <del></del>                                      |

# APPENDIX 7C PROPOSED QUARRY AND BORROW PIT

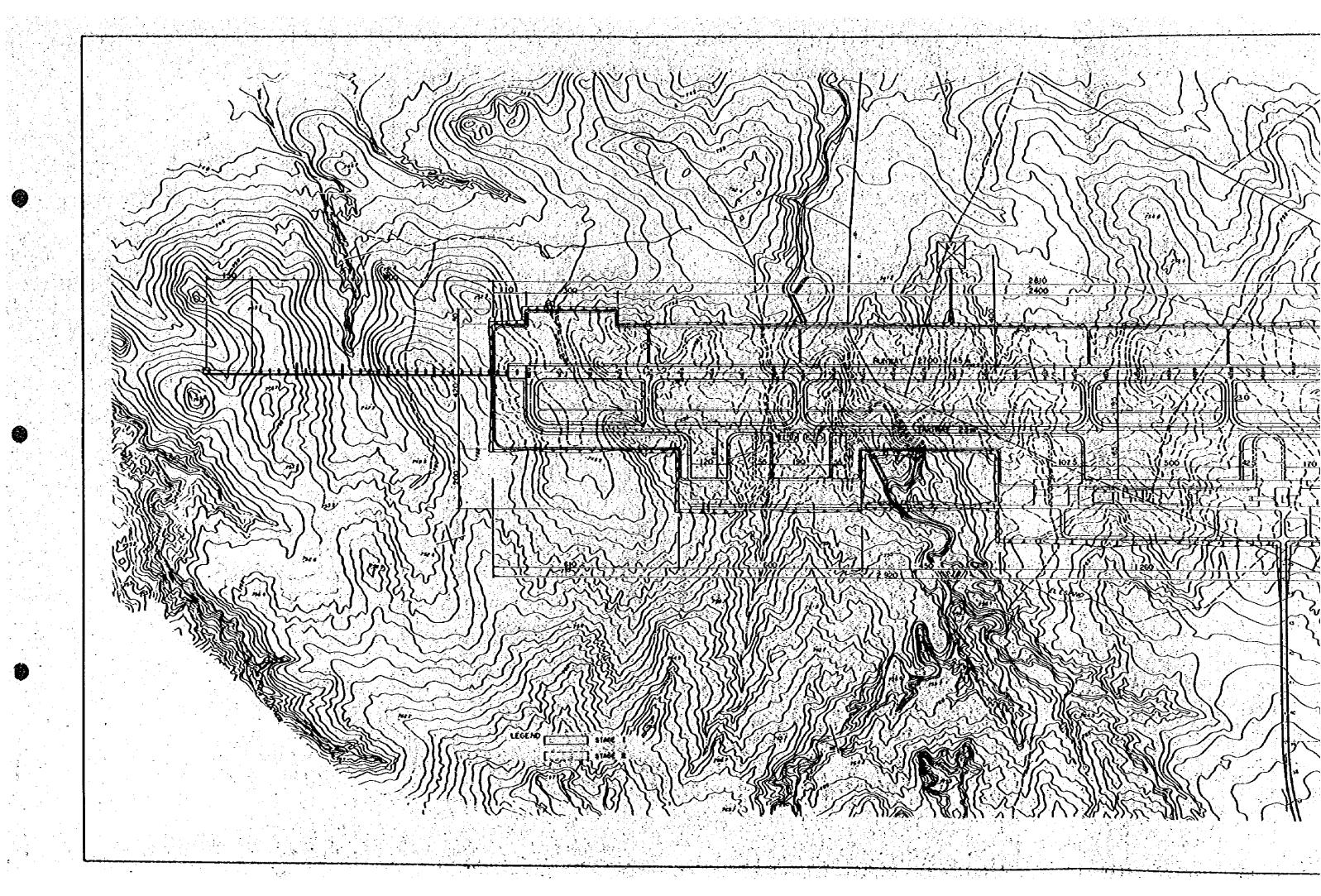


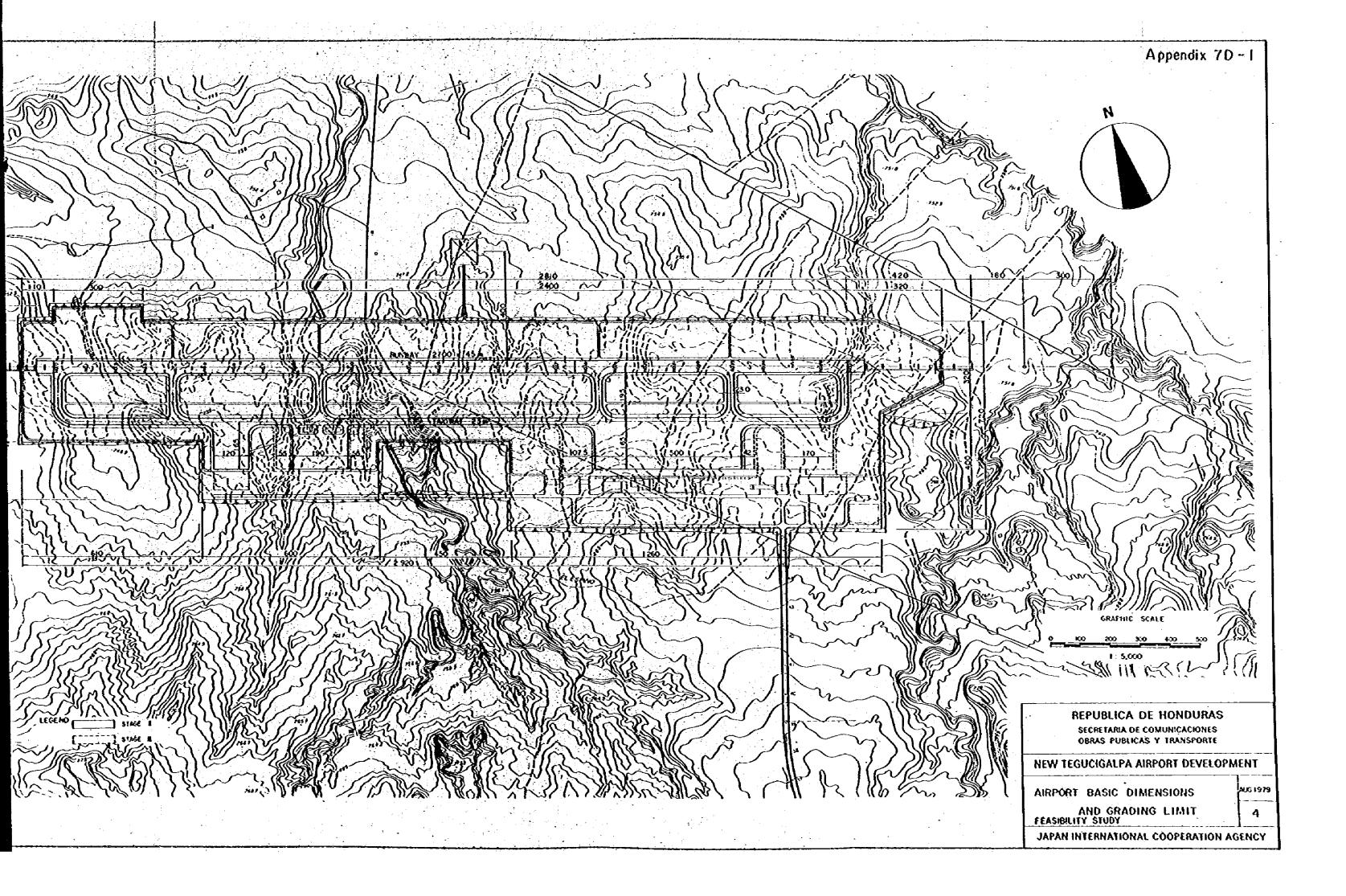


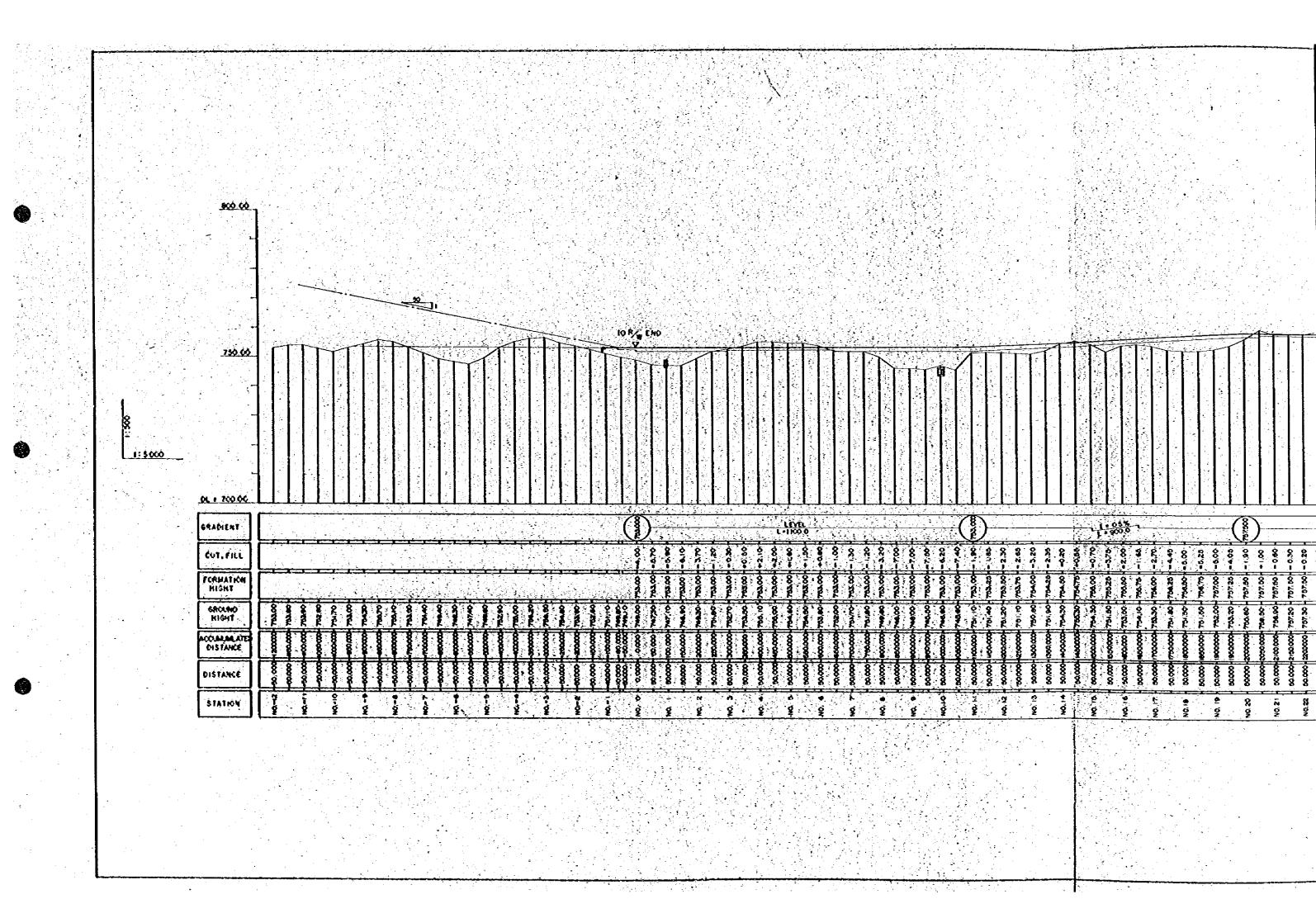


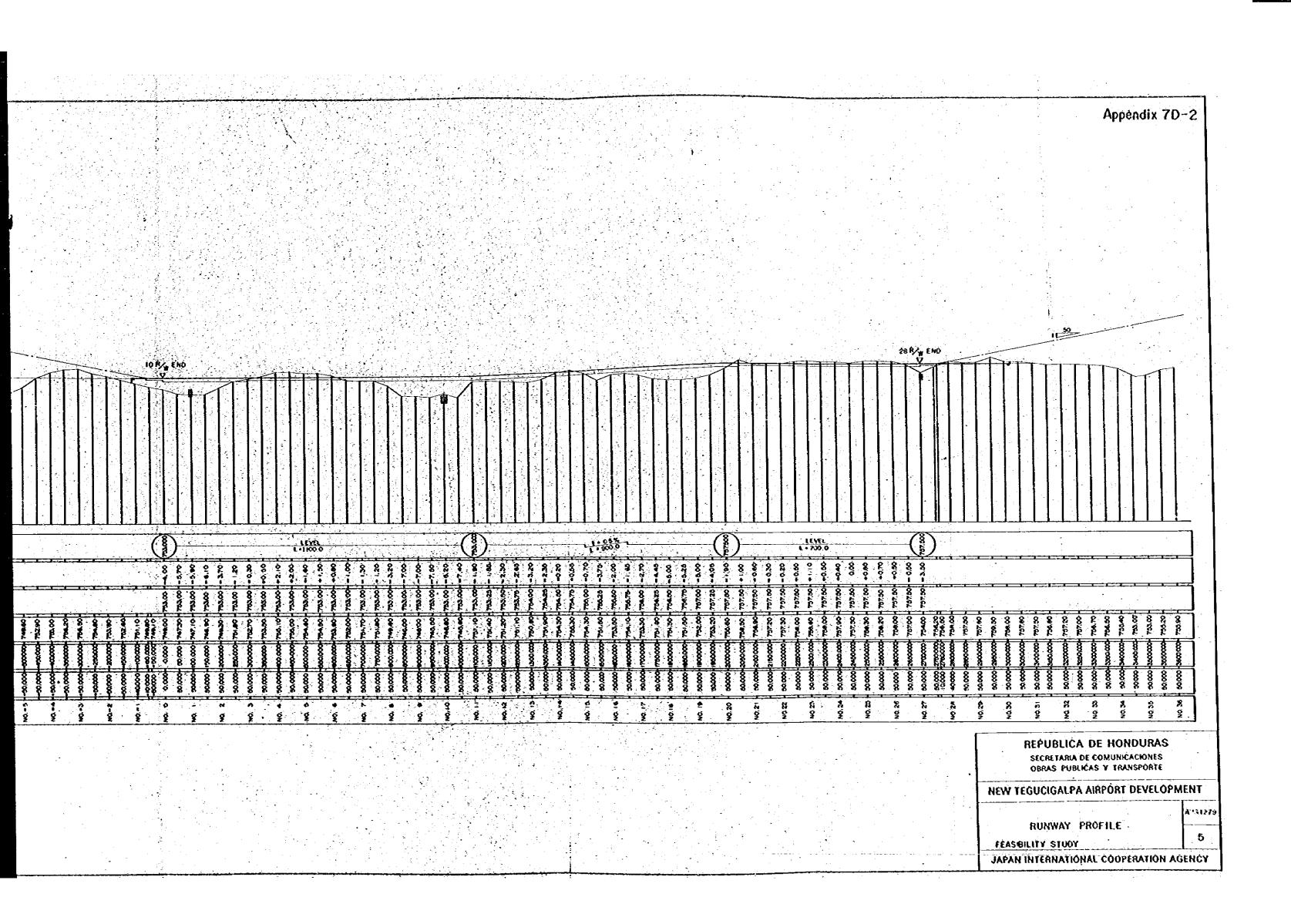
#### APPENDIX 7D

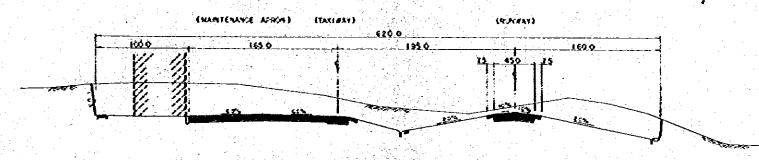
#### RUNWAY PROFILE & RUNWAY STRIP TYPICAL CROSS SECTION



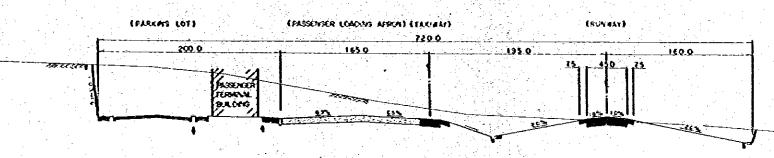




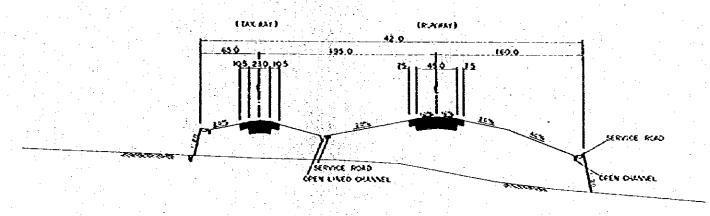




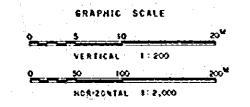
RUNWAY STRIP, TAXIWAY, MANTENANCE APRON



RUNWAY STRIP, TAXIWAY, LOADING AFRON, TERMINAL AREA



RUNAAY STRIP . TAXIWAY



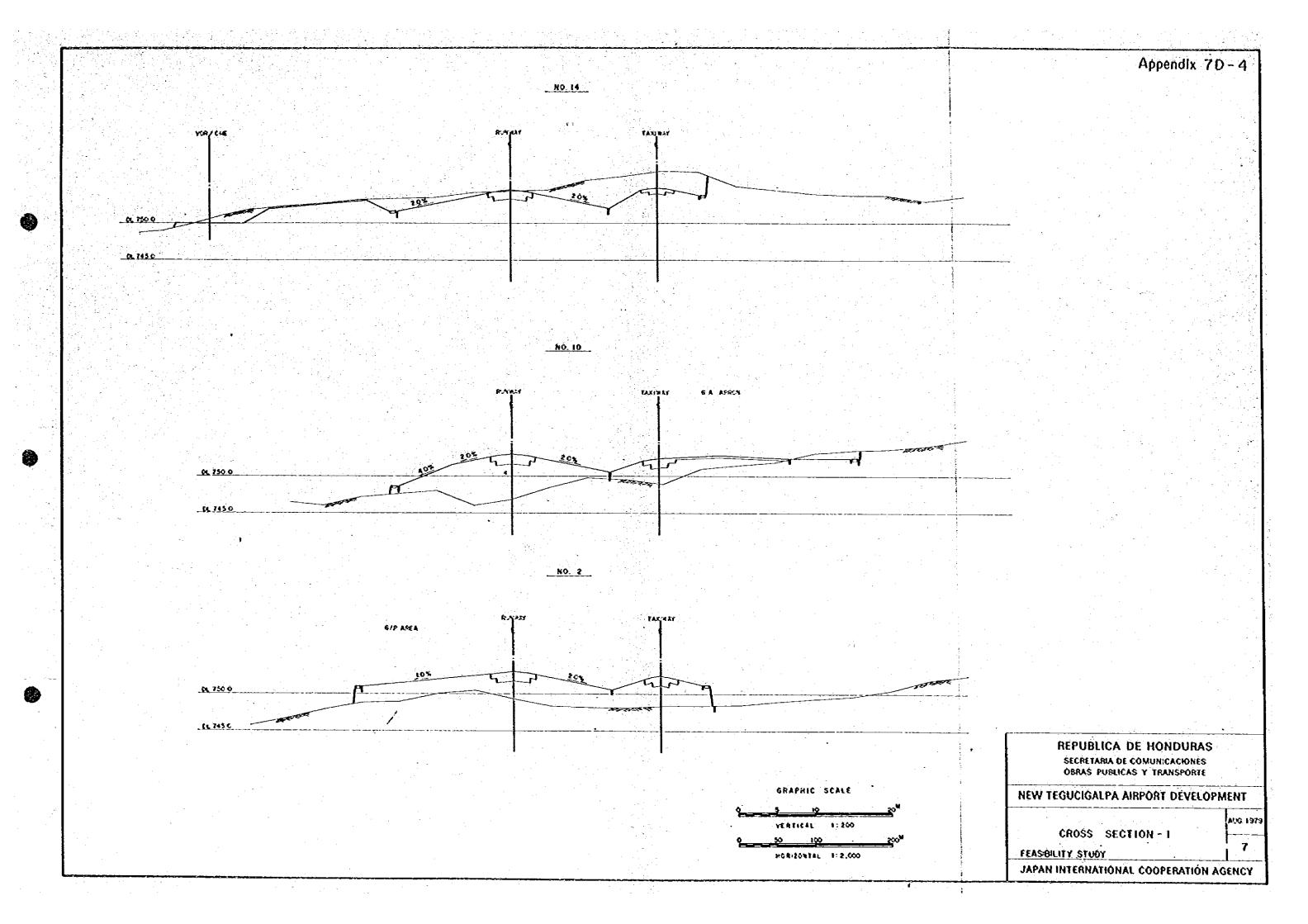
REPUBLICA DE HONDURAS
SECRETARIA DE COMUNICACIONES
OBRAS PUBLICAS Y TRANSPORTE

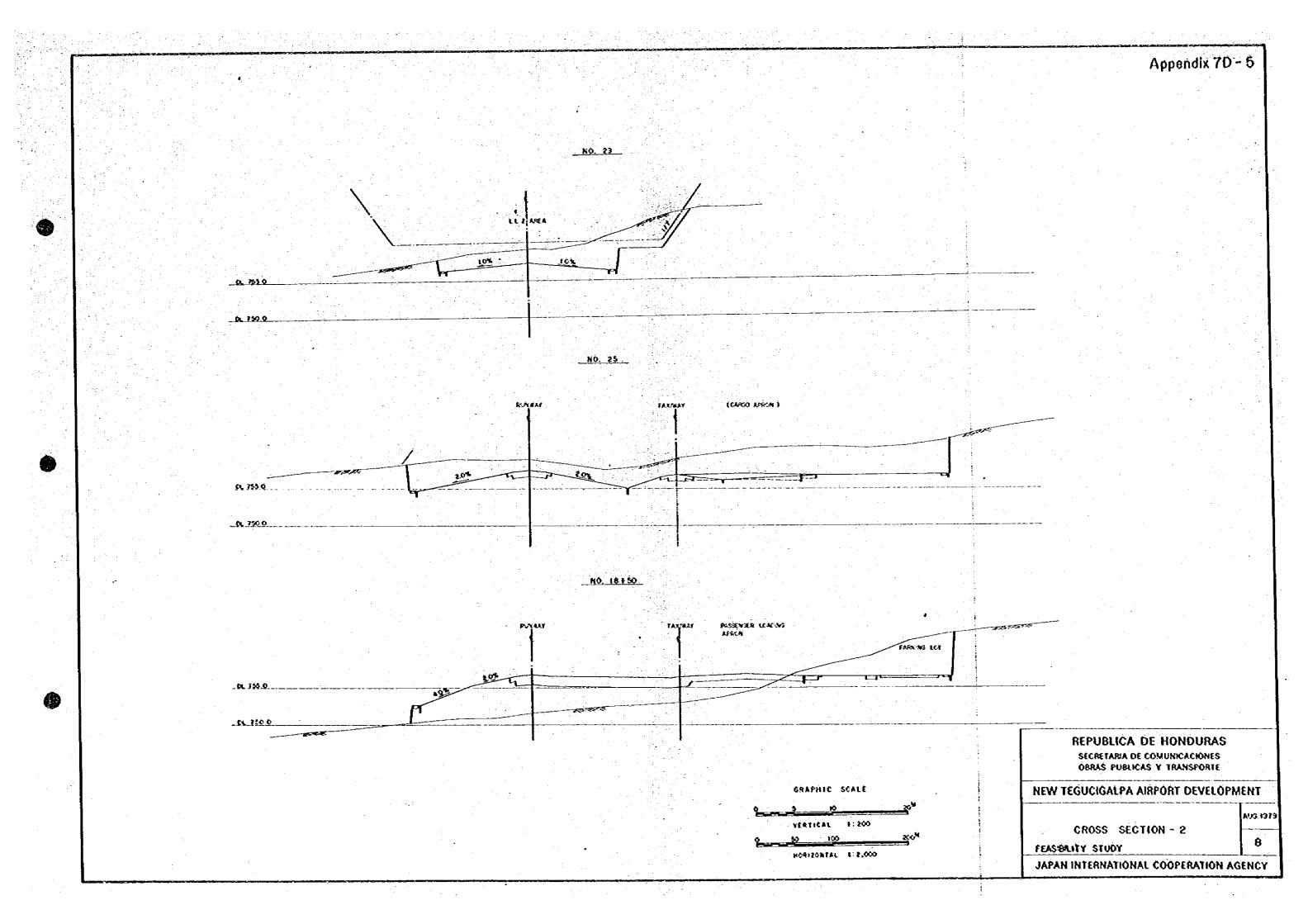
NEW TEGUCIGALPA AIRPORT DEVELOPMENT

TYPICAL CROSS SECTION ----

FEASBILITY STUDY

JAPAN INTERNATIONAL COOPERATION AGENCY

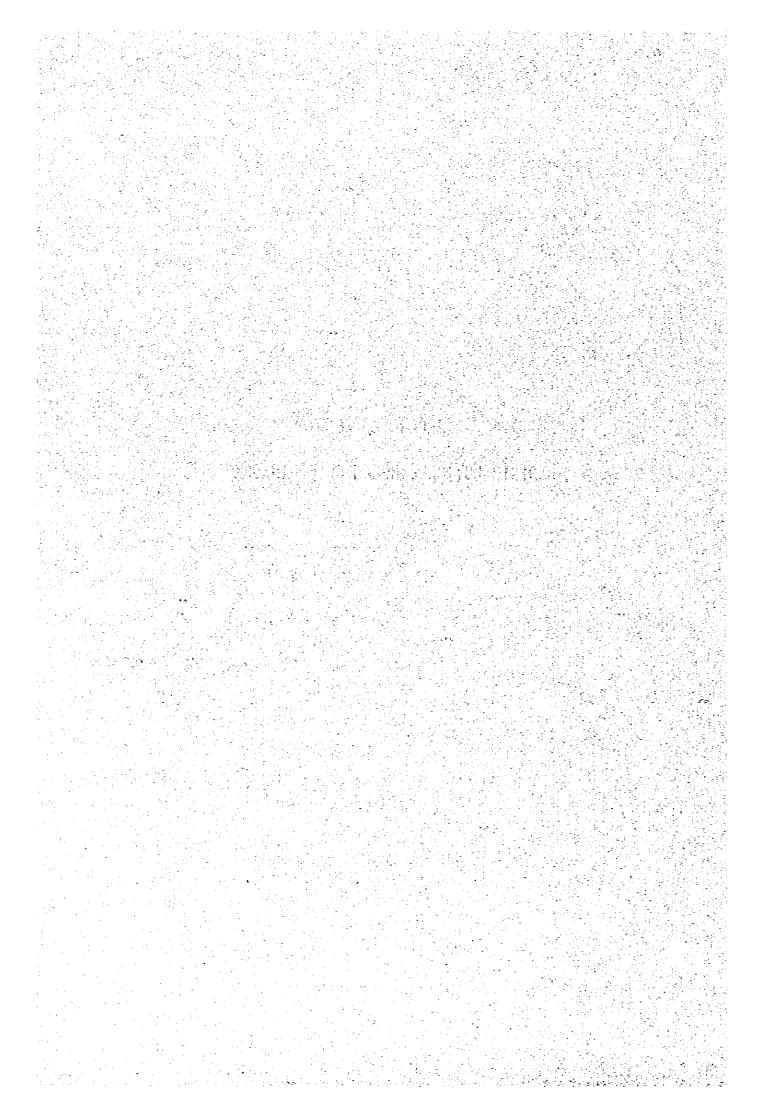


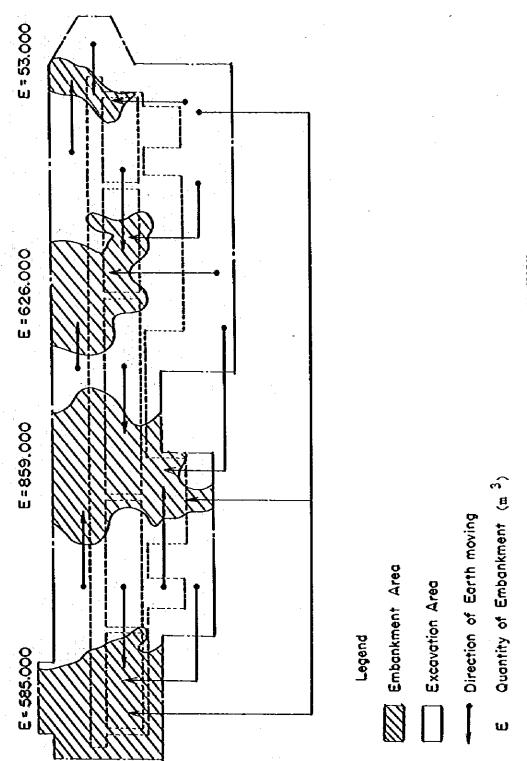




#### APPENDIX 7E

## DISTRIBUTION DIAGRAM OF EARTHWORK

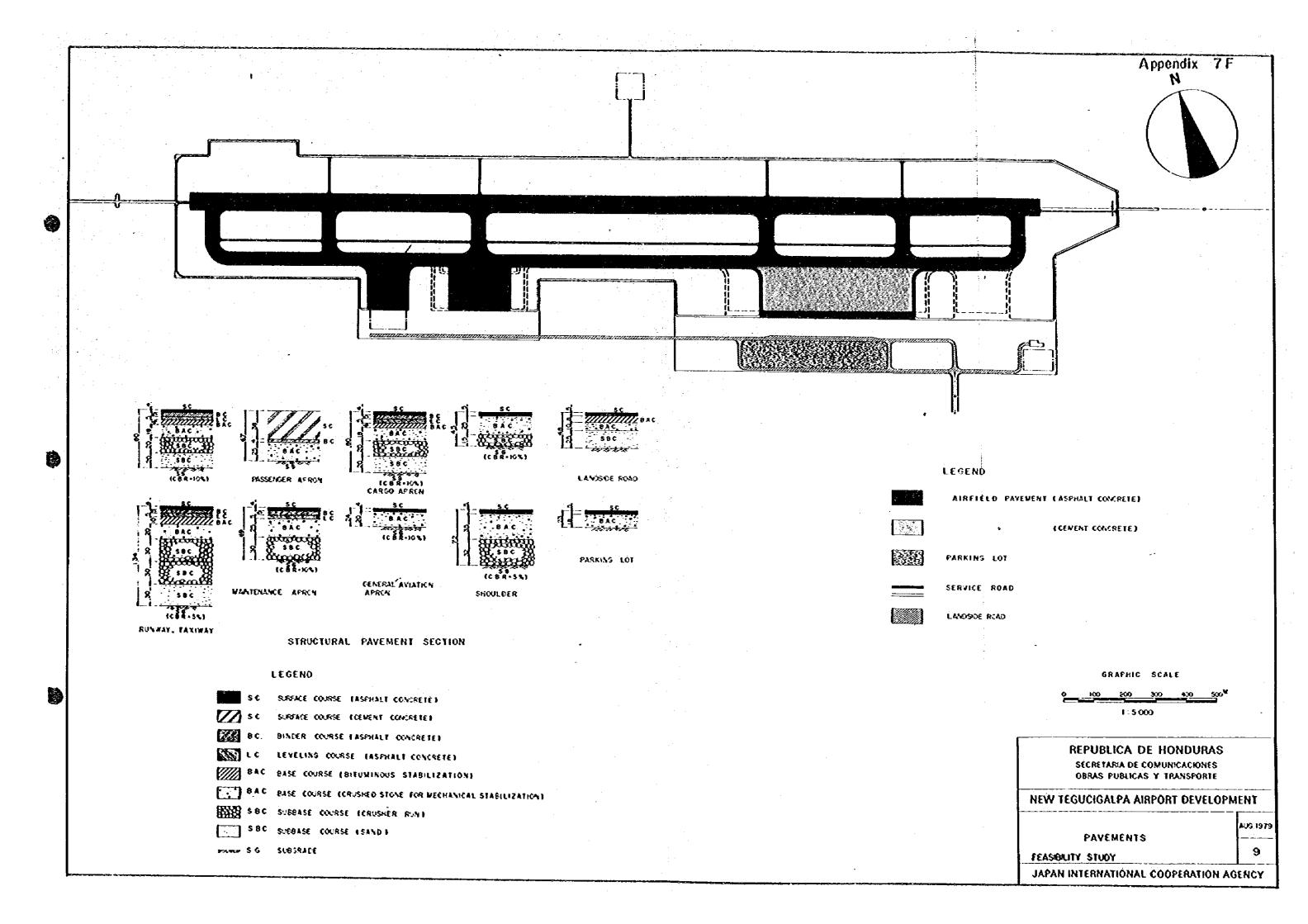




DISTRIBUTION DIAGRAM OF EARTHWORK



# APPENDIX 7F PAVEMENT STRUCTURE





## APPENDIX 7G

#### AIRPORT DRAINAGE

