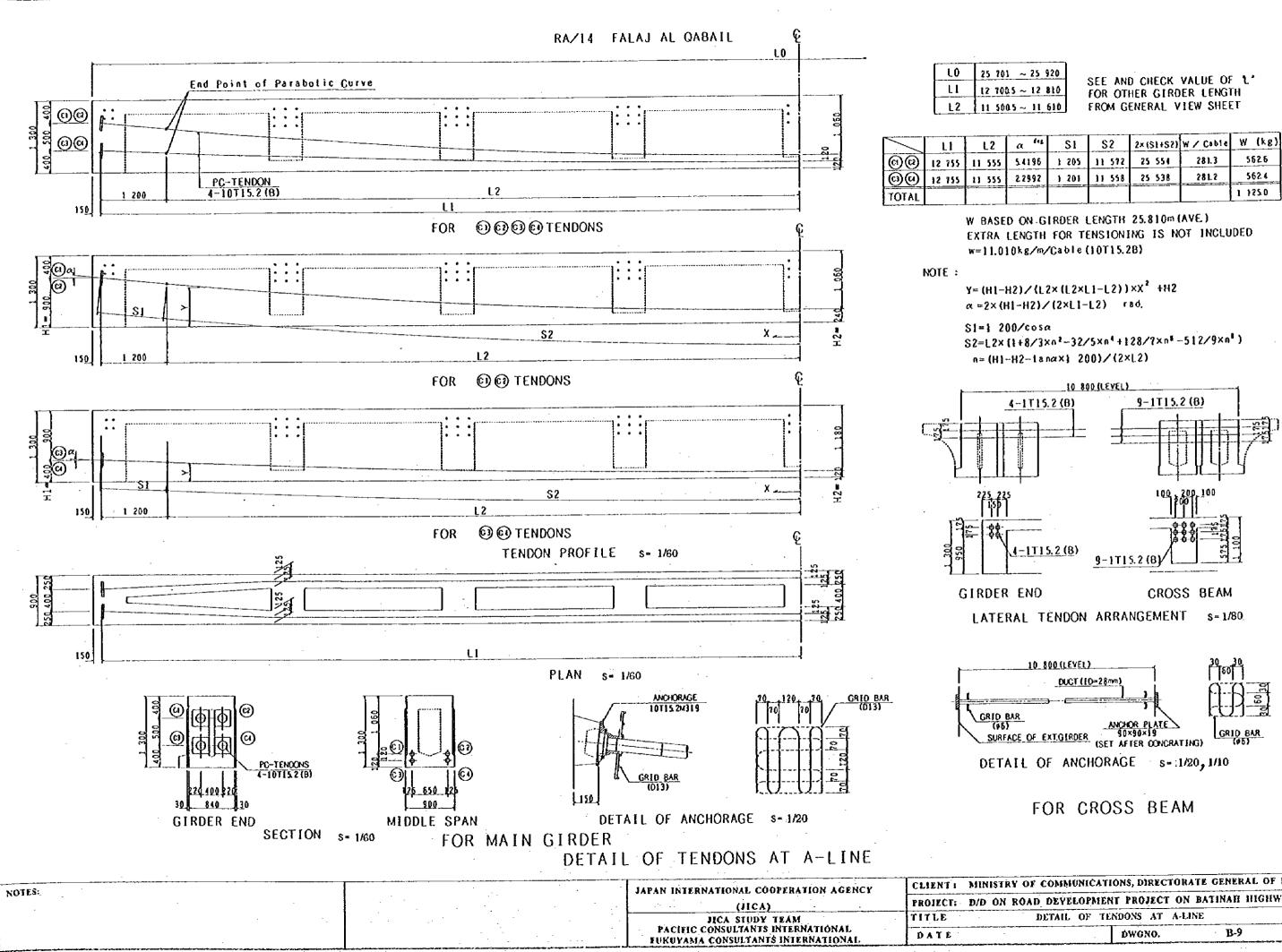


| LI | 25 | 701 | ~ | 25 | 920 |
|----|----|-----|---|----|-------|
| L2 | 3 | 038 | ~ | 3 | 147.5 |
| 13 | 2 | 538 | ~ | 2 | 647.5 |

- MAX., MIN. VALUE OF L SEE AND CHECK VALUE OF L OF PER GIRDER FROM GENERAL VIEW SHEET (DIMENSION LIST)
 - CONSIDERING THE EFFECT LONGITUDINAL SLOPE (IN) TO END GIRDER BOTH ENDS SHOULD BE FIXED PALLAREL TO Y-AXIS
 - TRANSVERSE TENDONS FOR END DIAPHRAGMS SHALL BE ALIGNED WITH SKEW ANGLE &

Ţ REMARKS ો દા<u>ર</u> 20 NON NOV 21 (11) (P) F1X 29 Ö Ø (1) NOV. 22 (P) FIX 21 (FA) - (P) 10V. 23 (PA) FIX (m)26 (PA) MOV. 24 (B) FIX 25 (P) MOV. (PS) 25 FIX 24 NOV 24

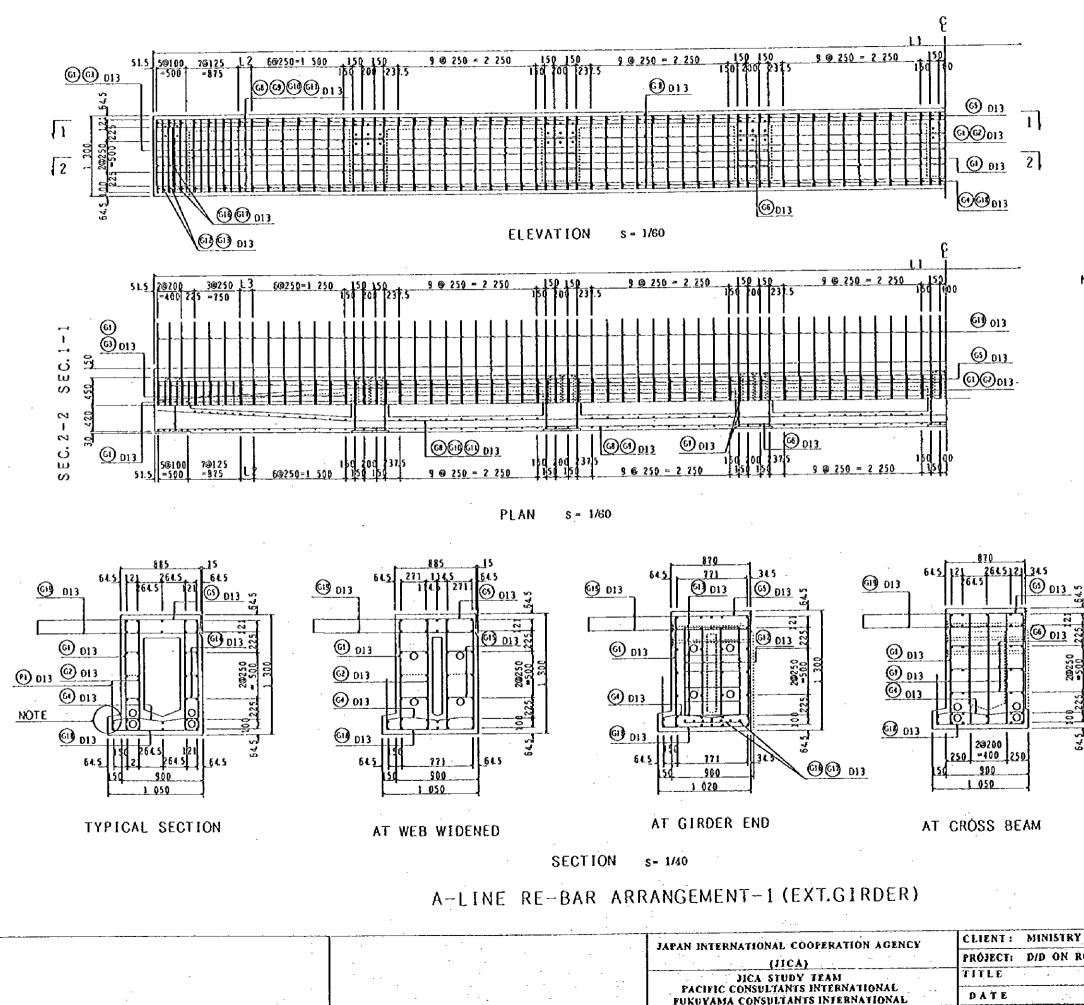
| OF COMMUNIC | ATIONS, DIRECTORATE GENERAL OF ROADS |
|---------------|--------------------------------------|
| AD DEVELOPM | IENT PROJECT ON BATINAH HIGHWAY |
| CTURAL DETAIL | L OF MAIN GIRDER AT A-LINE |
| | DWGNO. B-8 |



| ~ | 25 | 920 |
|---|----|-----|
| ~ | 12 | 810 |
| ~ | 11 | 610 |

| x det | <u>\$1</u> | S2 | 2×(\$1+\$2) | W / Cable | W (kg) |
|-------|------------|--------|-------------|-----------|--------|
| 4196 | 1 205 | 11 572 | 25 554 | 281.3 | 5828 |
| 2992 | 1 201 | 11 558 | 25 538 | 281.2 | 562.4 |
| | | | | | 1 1220 |

| OF COMMUN | li¢ | ATIONS, DIREC | TORATE GENERAL OF ROADS |
|------------|-----|---------------|-------------------------|
| OAD DEVELO | PN | IENT PROJECT | ON BATINAH HIGHWAY |
| DETAIL C |)F | TENDONS AT | A-LINE |
| | | DWONO. | B-9 |
| | | | |



NOTES:

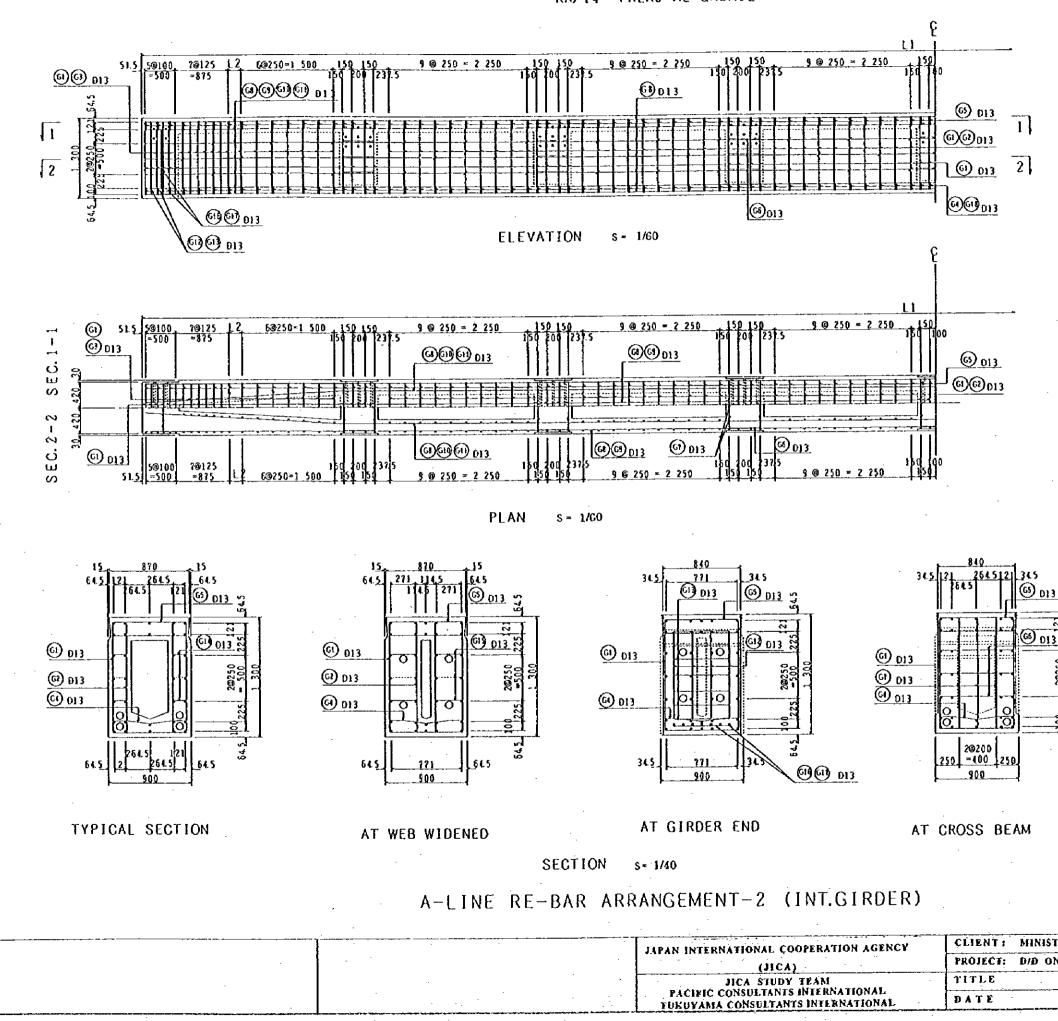
| U 1 | 25 701 ~ 25 920 |
|------------|-----------------|
| 12 | 111.5 ~ 221.0 |
| ί3 | 111.5 ~ 221.0 |

SEE AND CHECK VALUE OF 1' FOR OTHER EXT.GIRDER LENGTH FROM GENERAL VIEW SHEET

NOTE :

FOR ALTERNATIVE CONSTRUCTION JOINT, INSERT INSIDE THREADED JOINT TO HANDLE PLANTED VERTICAL BAR

| OF COMMUNICATI | ONS, DIRECTO | ATE GENERAL OF ROAL |)S |
|----------------|--------------|---------------------|----|
| AD DEVELOPMEN | T PROJECT O | N BATINAH HIGHWAY | |
| RE-BAR ARRANGE | MENT(17) AT | A LINE | |
| · · · · | DWGNO. | B-10 | |



NOTES:

LI 25 722 ~ 25 898 L2 1220 ~ 2100

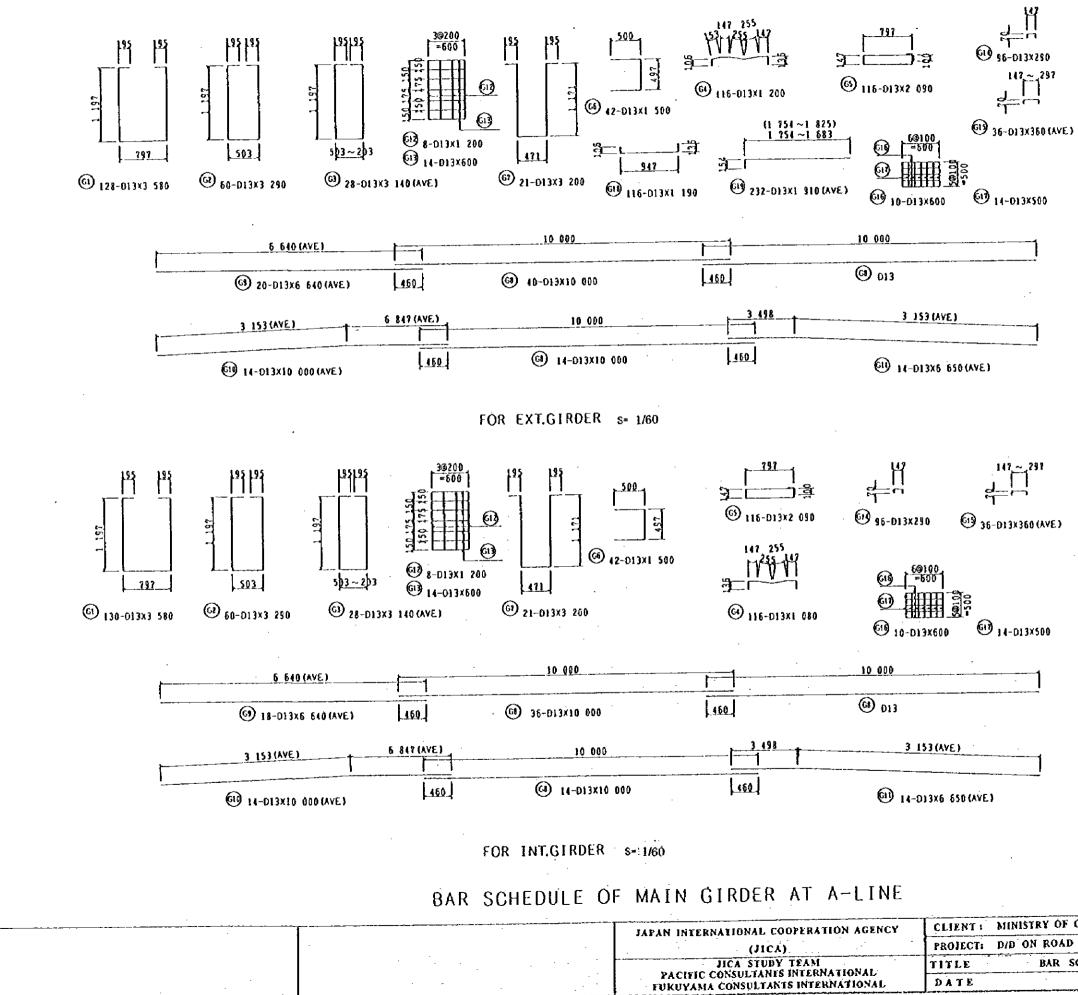
SEE AND CHECK VALUE OF L' FOR OTHER INT.GIRDER LENGTH FROM GENERAL VIEW SHEET

 CLIENT:
 MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

 PROJECT:
 D/D ON ROAD DEVELOPMENT PROJECT ON BATINAM HIGHWAY

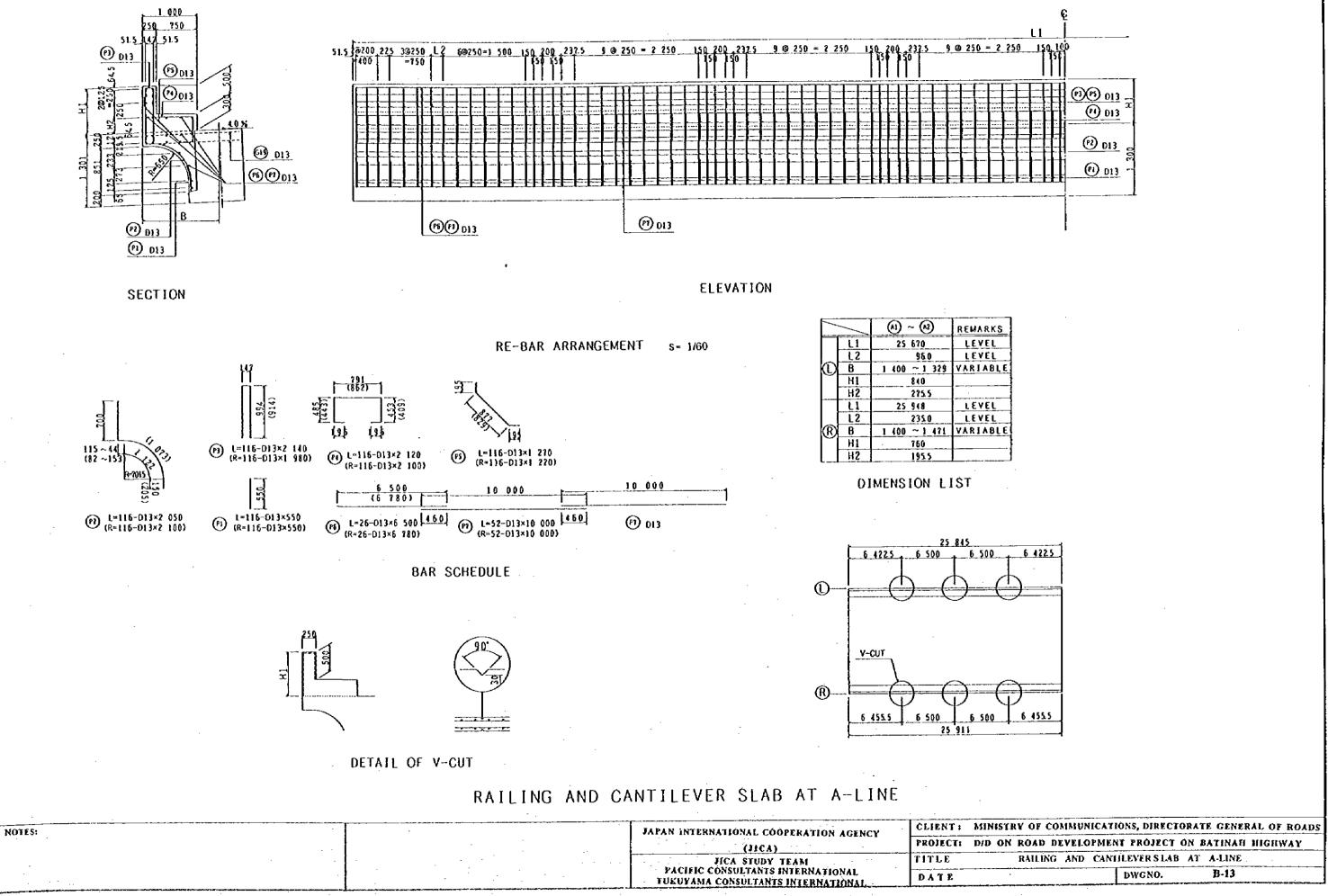
 TITLE
 RE-BAR ARRANGEMENT(2/2) AT A-LINE

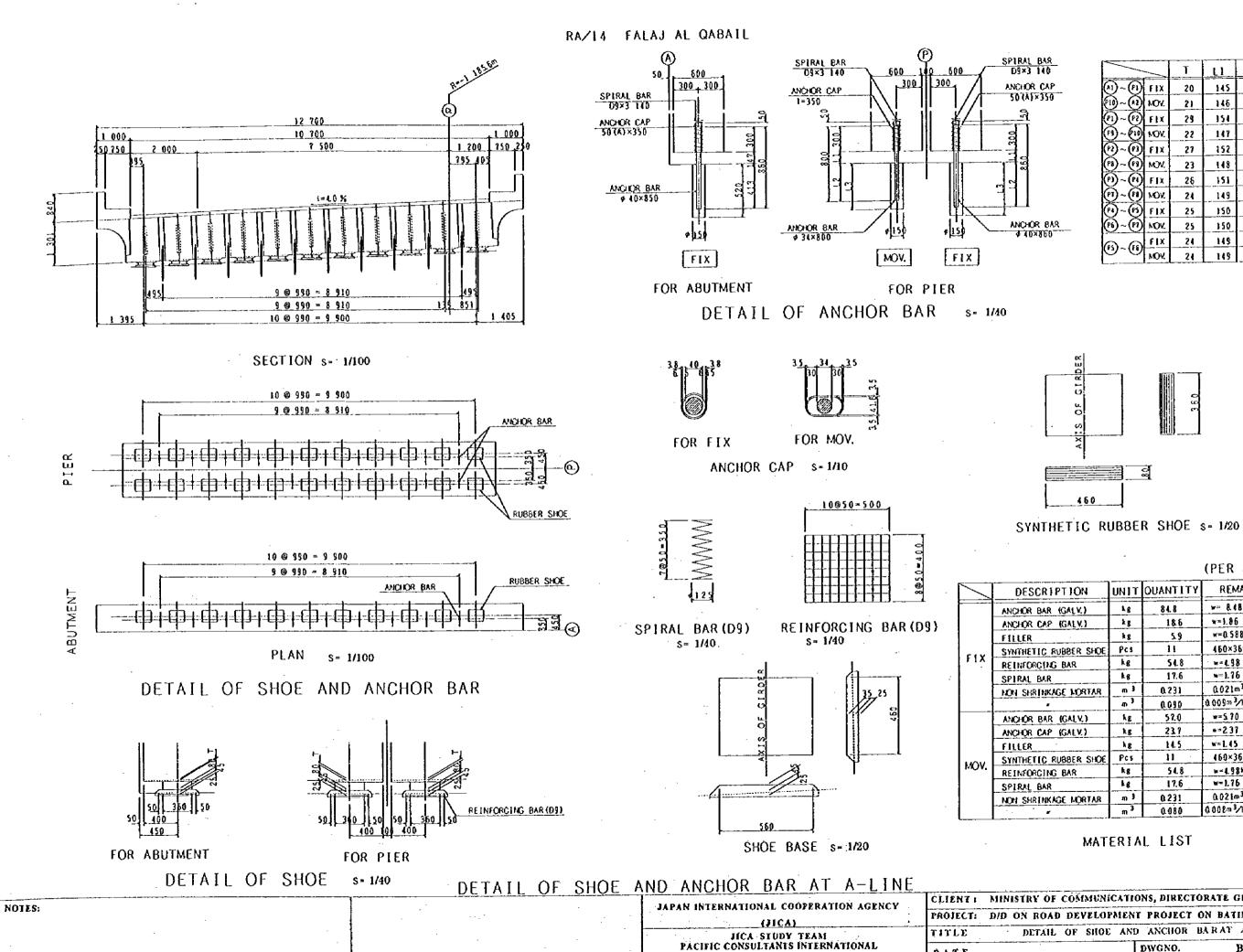
 DATE
 DWGNO.



NOTES:

CLIENT : MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF RUAD PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY BAR SCHEDULE OF MAIN GIRDER AT A-LINE B-12 DWGNO.





1

| R | | | | | | |
|-----|------------------------------------|------|----|----------|-----|-------------|
| 0 | | | T | <u>u</u> | L2_ | <u>L</u> 3 |
| AP | (1)~(1) | FIX | 20 | 145 | (15 | 520 |
| 50 | $\overline{10} \sim \overline{10}$ | NOV. | 21 | 145 | 354 | 460 |
| | (1)~(1) | FLX | 29 | 154 | 405 | 520 |
| | (Ð~@) | NOV. | 22 | 147 | 353 | 460 |
| | <u>@~@</u> | F1X | 27 | 152 | 408 | 520 |
| | ®~@ | MOV. | 23 | 148 | 352 | 460 |
| | <u>@~@</u> | FIX | 25 | 151 | 609 | 520 |
| | @~@ | MOV. | 24 | 149 | 351 | 460 |
| | @~@ | FIX | 25 | 150 | 410 | 520 |
| BAR | <u>(P)</u> ~(P) | NOV. | 25 | 150 | 350 | 460 |
| 50 | (1)~(1) | FLX | 24 | 149 | 411 | 520 |
| | 0~0 | YOM. | 24 | 149 | 351 | 46 0 |

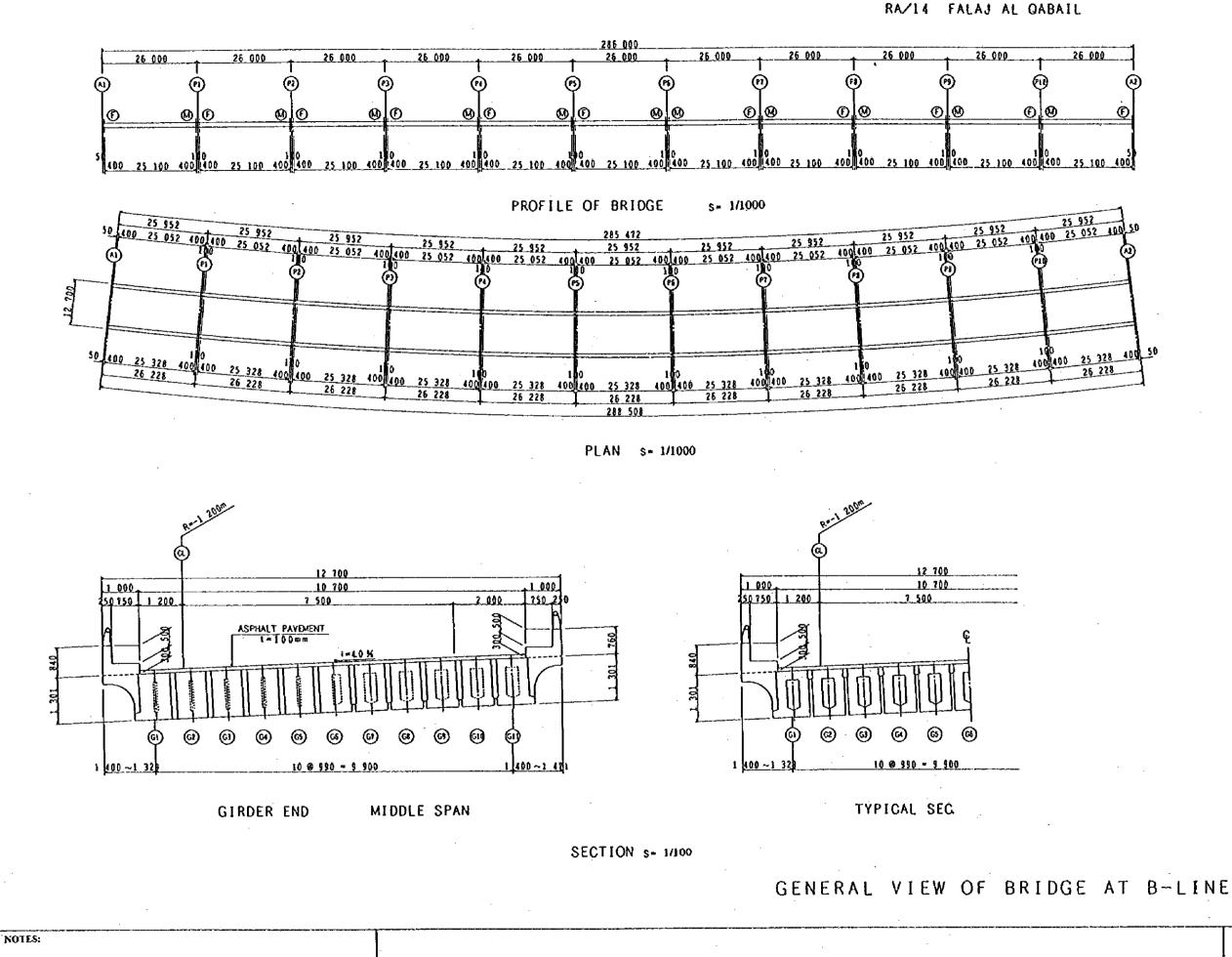
(PER SPAN)

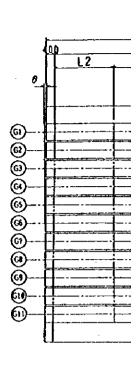
| UNIT | OUANTITY | REMARKS |
|-----------------|---|---|
| Lg | 84.8 | v= 8.48 hg/pc. |
| kg | 18.6 | w=1.85 kg/pc. |
| kg | 5.9 | w=0.588 kg/anc |
| Pes | 11 | 460×360×80 |
| kg | 54.8 | w=4.98 kg/Set |
| kg | 17.6 | w=1.76 kg/pc. |
| m 3 | 0.231 | 0.021m ³ /Shoe |
| س 3 | 0.090 | 0.009m3/Hole (AVE |
| kg | 57.0 | w=5.70 kg/pc. |
| kg | 23.7 | *=237 kg/pc. |
| kg | 14.5 | w=1.45 kg/anc, |
| Pcs | 11 - | 460×360×80 |
| kg | 54.8 | w=4.98kg/Se1 |
| 18 | 17.6 | w=1.76 kg/oc. |
| ₁₀ 3 | 0.231 | 0.021m ³ /Shoe |
| រា 3 | 0.080 | 0.002m3/Hole (AVE) |
| | Lg kg kg kg m 3 m 3 hg hg hg hg kg kg m 3 m m hg hg hg hg hg hg hg hg hg hg | kg 18.6 kg 5.9 Pcs 11 kg 54.8 kg 17.6 m ³ 0.231 m ³ 0.090 kg 57.0 kg 14.5 Pcs 11 kg 54.8 kg 17.6 m ³ 0.910 kg 54.8 kg 14.5 Pcs 11 kg 54.8 kg 17.6 m ³ 0.231 |

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FUKUYAMA CONSULTANTS INTERNATIONAL

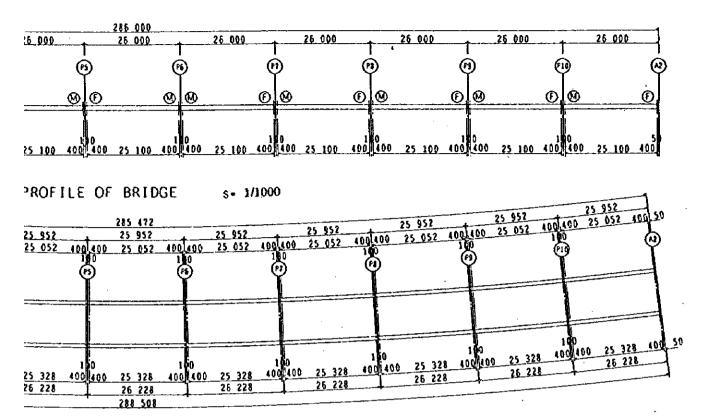
| ÓF | ĊÓM | IMUNİ | CATIO | NS, DIRECT | ORATE | GENERAL OF ROA |
|------|-------|-------|-------|------------|--------|----------------|
| OAD | DE | VELOP | MENT | PROJECT | ON BAT | INAH BIGHWAY |
| TAIL | OF | SILOE | AND | ANCHOR | BARAT | A-LINE |
| | · · · | . : | | DWGNO. | | B-14 |



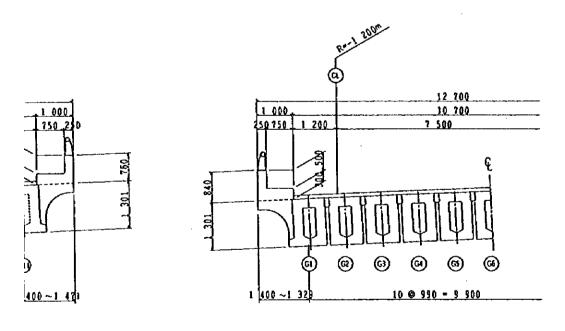


| | | <u>G1</u> | G2 |
|---------|------------|-----------|-------|
| | LO | 25 883 | 25 90 |
| (4)~(2) | L1 | 25 083 | 25 1 |
| 0~0 | L2 | 3 129.0 | 3 14(|
| | 0 | | |
| | LO | 25 882 | 25 90 |
| (n)~(n) | <u>l</u> 1 | 25 082 | 25 10 |
| @~@ | ι2 | 3 128.5 | 3 139 |
| | 8 | | |
| | 10 | 25 883 | 25 90 |
| ฅ~ฅ | <u>[]</u> | 25 083 | 25 11 |
| | L2 | 3 128.0 | 3 14 |
| | 0 | | |
| | LO | 25 884 | 25 9 |
| (1)~(1) | L1 | 25 084 | 25 1 |
| | L2 | 3 129.5 | 3 14 |
| | 8 | | |
| | LO | 25 885 | 25 9 |
| (1)~? | <u></u> | 25 085 | 25 1 |
| | <u>L2</u> | 3 130.0 | 3 14 |
| | 0 | | |

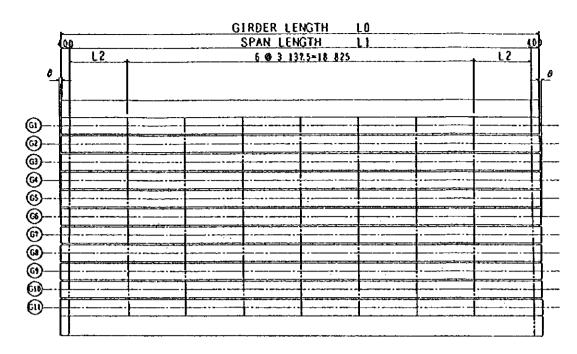
| JAPAN INTERNATIONAL COOPE | | |
|--|--|--|
| (JICA) | | |
| JICA STUDY TEA PACIFIC CONSULTANTS INTE | | |
| FUKUYAMA CONSULTANTS IN | | |



PLAN s= 1/1000



TYPICAL SEG.



GIRDER LENGTH

| | | G1 | G2 | G3 | G4 | G5 | Gð | 67 | G8 | G § | G10 | 611 | REMARKS |
|-------------|----|---------|---------|---------|---------|---------|---------|--------|---------|------------|---------|---------|--------------------|
| | LO | 25 883 | 25 905 | 25 925 | 25 948 | 25 969 | 25 991 | 26 012 | 26 033 | 28 055 | 26 076 | 25 098 | INCLINED LENGTH |
| (1)~(2) | LÌ | 25 083 | 25 105 | 25 125 | 25 148 | 25 169 | 25 191 | 25 212 | 25 233 | 25 255 | 25 276 | 25 298 | • |
| 0~@ | L2 | 3 129.0 | 3 140.0 | 3 150.0 | 3 161.5 | 3 1720 | 3 1830 | 3 1935 | 3 204.0 | 3 215.0 | 3 225 5 | 3 2365 | • |
| 1 | 8 | - | | | | | 0.62083 | | | | | | |
| | LO | 25 882 | 25 901 | 25 925 | 25 946 | 25 988 | 25 989 | 25 011 | 26 032 | 26 054 | 26 075 | 26 097 | INCLINED LENGTH |
| (ก~ค) | LI | 25 082 | 25 104 | 25 125 | 25 146 | 25 168 | 25 189 | 25 211 | 25 232 | 25 254 | 25 275 | 25 297 | • |
| 0~0 | L2 | 3 128.5 | 3 139.5 | 3 150.0 | 3 160.5 | 3 1715 | 3 182.0 | 3 1930 | 3 2035 | 3 214.5 | 3 225.0 | 3 2360 | • |
| | 0 | | | | | | 0.62083 | | | | | | |
| | LO | 25 883 | 25 905 | 25 926 | 25 948 | 25 989 | 25 591 | 25 012 | 26 033 | 26 855 | 26 076 | 26 098 | INCLINED LENGTH |
| <u>ค</u> ~ค | L1 | 25 083 | 25 105 | 25 126 | 25 14B | 25 169 | 25 191 | 25 212 | 25 233 | 25 255 | 25 276 | 25 298 | |
| | L2 | 3 129.0 | 3 140.0 | 3 150.0 | 3 161.5 | 3 272.0 | 3 1830 | 3 1935 | 3 204.0 | 3 215.0 | 3 225.5 | 3 2365 | |
| | Ø | | | | | | 0.62083 | | | | | | |
| | LO | 25 884 | 25 905 | 25 927 | 25 948 | 25 970 | 25 991 | 26 013 | 26 034 | 26 055 | 26 077 | 26 098 | INCLENED LENGTH |
| (P)~(P) | LI | 25 084 | 25 105 | 25 127 | 25 148 | 25 170 | 25 191 | 25 213 | 25 234 | 25 256 | 25 211 | 25 298 | , |
| | L2 | 3 129.5 | 3 140.0 | 3 151.0 | 3 161.5 | 3 1725 | 3 1830 | 3 1960 | 3 204.5 | 3 2155 | 3 226.0 | 3 2355 | • |
| | 0 | | | | | | 0.62083 | | | | - | | |
| | LO | 25 885 | 25 906 | 25 928 | 25 949 | 25 971 | 25 992 | 26 014 | 26 035 | 26 056 | 26 078 | 26 099 | INCLINED LENGTH |
| (P) ~ (R) | LI | 25 085 | 25 106 | 25 128 | 25 149 | 25 171 | 25 192 | 25 214 | 25 235 | 25 256 | 25 278 | 25 299 | |
| | L2 | 3 1300 | 3 140.5 | 3 151.5 | 3 162.0 | 3 1730 | 3 1835 | 3 1945 | 3 205.0 | 3 215.5 | 3 226.5 | 3 237.0 | • |
| | θ | | | | | | 0.52083 | | | | • | - | |

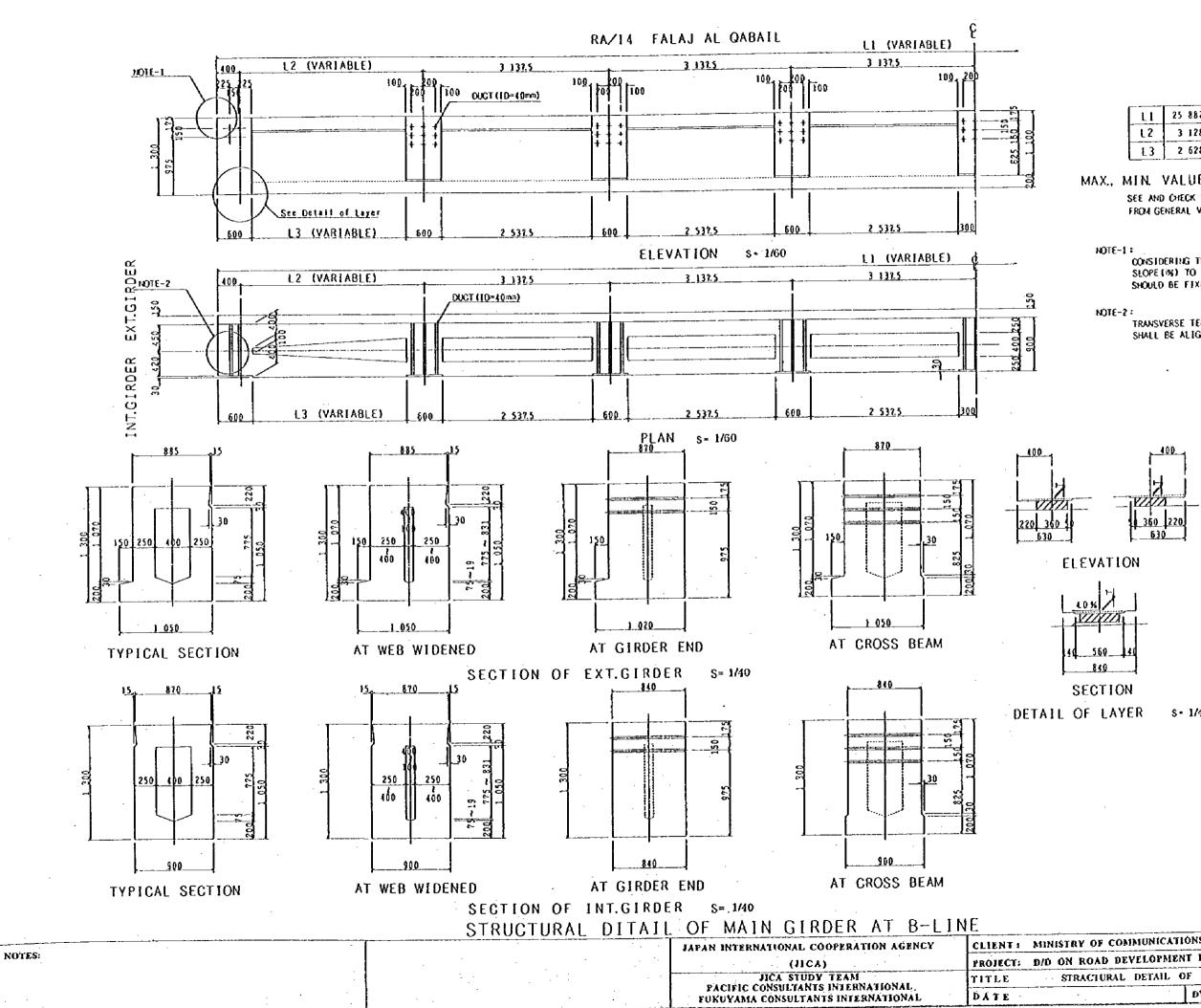
DIMENSION LIST FOR B-LINE

SECTION s= 1/100

GENERAL VIEW OF BRIDGE AT B-LINE

| (JICA) PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIC JICA STUDY TEAM TITLE GENERAL VIEW OF BRIDGE AT B-LINE PACIFIC CONSULTANTS INTERNATIONAL D D D D D | JAPAN INTERNATIONAL COOPERATION AGENCY | CLIENT : | MINISTRY OF COMMUNICAT | IONS, DIRECT | ORATE GENERAL OF ROA |
|---|--|----------|------------------------|--------------|----------------------|
| PACIFIC CONSULTANTS INTERNATIONAL | (JICA) | PROJECT: | D/D ON ROAD DEVELOPME | NT PROJECT | ON BATINAH HIGHWAY |
| | | TITLE | GENERAL VIEW | OF BRIDGE | AT B-LINE |
| FUKUYAMA CONSULTANTS INTERNATIONAL DATE DWGRO. B-15 | FUCHIC CONSULTANTS INTERNATIONAL | DATE | | DWGNÔ. | B-15 |

R=-1 200m (AT CL)



- . . - .

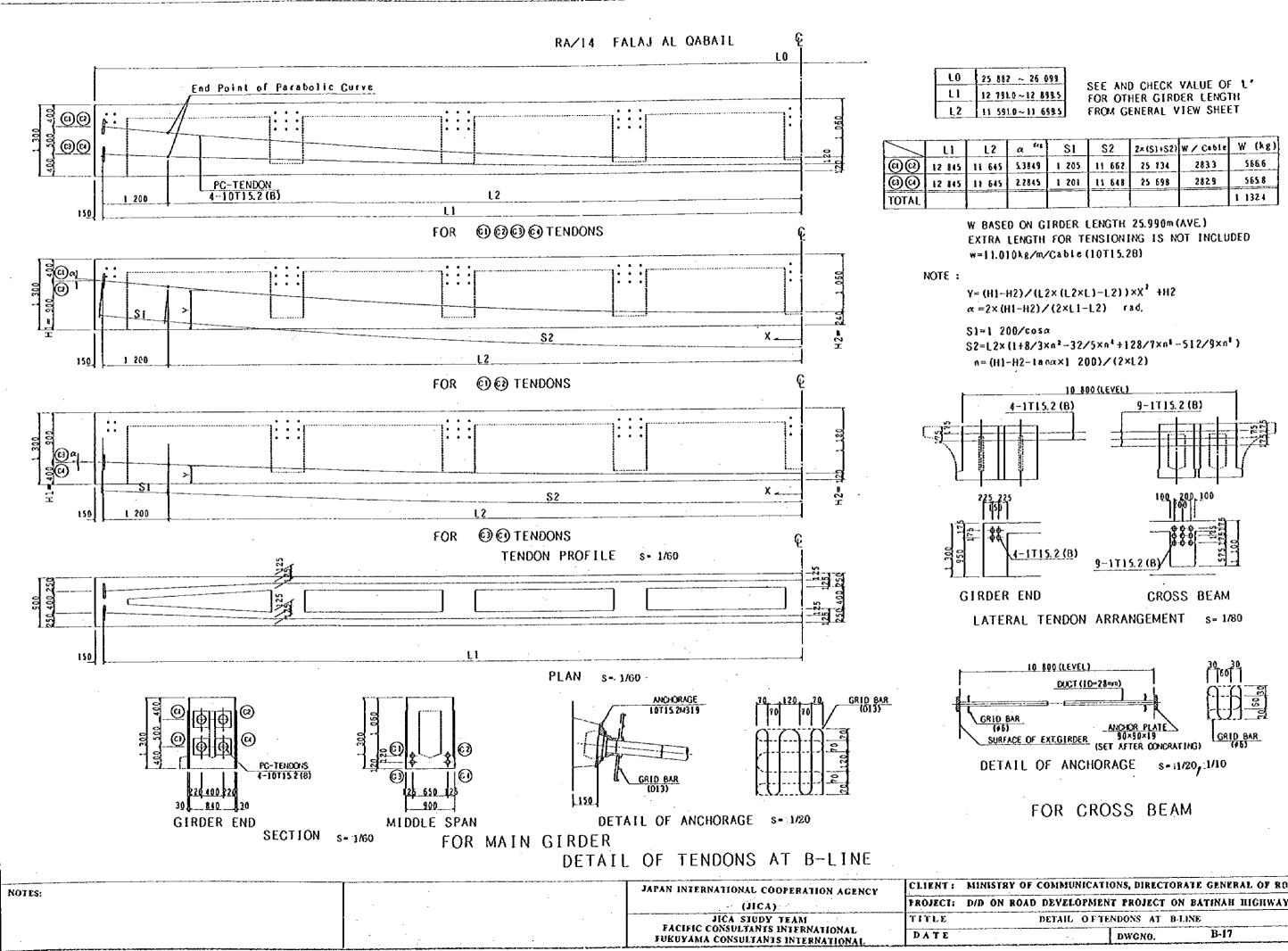
| LI | 25 | 882 | ~ | 26 | 699 |
|----|----|------|----|----|-------|
| 12 | 3 | 1285 | ~- | 3 | 237.0 |
| L3 | 2 | 6285 | ~ | 2 | 737.0 |

- MAX., MIN. VALUE OF L SEE AND CHECK VALUE OF L OF PER GIRDER FROM GENERAL VIEW SHEET (DIMENSION LIST)
 - CONSIDERING THE EFFECT LONGITUDINAL SLOPE (1%) TO END GIRDER BOTH ENDS SHOULD BE FIXED PALLAREL TO Y-AXIS
 - TRANSVERSE TENDONS FOR END DIAPHRAGAS SHALL BE ALIGNED WITH SKEW ANGLE O

s- 1/40

| | | CENERAL OF ROADS |
|------------------|-----------------|--------------------|
| OF COMMUNICATI | ONS, DIRECTORAT | E GENERAL OF ROADS |
| ROAD DEVELOPMEN | T PROJECT ON B | ATINAH HIGHWAY |
| ACTURAL DETAIL C | OF MAIN GIRDER | AT B-LINE |
| | DWGNO. | B-16 |
| | <u> </u> | , |

| | | T | REMARKS |
|----------------|------|----|---------|
| (4)~(9) | FIX | 20 | |
| 10~0 | MOV. | 21 | |
| <u>(9</u> ~(2) | FIX | 29 | |
| (1)~(1) | MON. | 22 | |
| (P)~(P) | FIX | 27 | |
| (9)~(9) | MOV. | 23 | |
| (P)~(P) | FIX | 26 | |
| (P)~(P) | NOV. | 24 | |
| @~(5) | FIX | 25 | |
| <u>@~@</u> | MOV. | 25 | |
| 10~10 | FIX | 24 | |
| 0~0 | NOV. | 24 | |



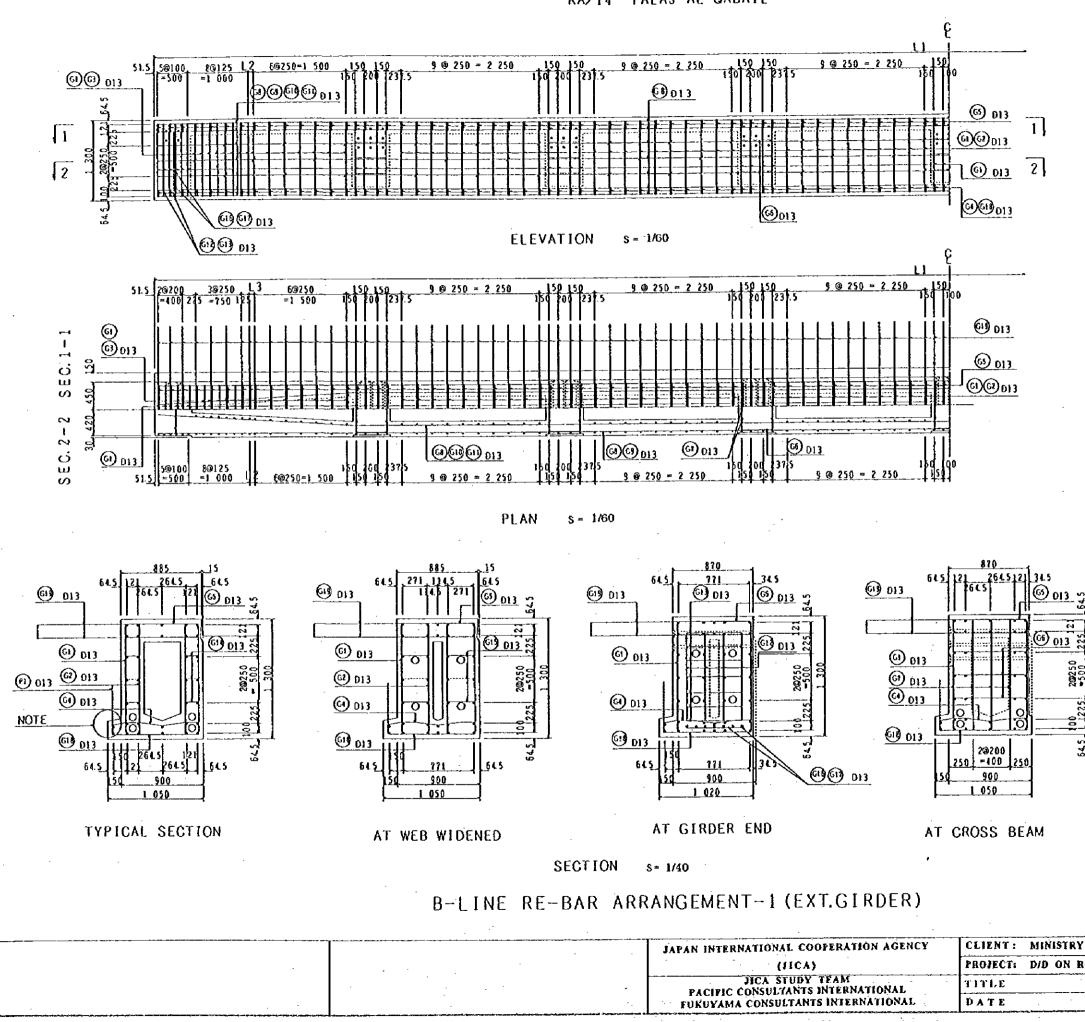
....

| ~ | 26 | 099 |
|---|----|-------|
| ~ | 12 | 899.5 |
| ~ | 11 | 699.5 |

| a er | S 1 | S2 | 2×(\$1+\$2) | W / Cable | W (kg) |
|--------|------------|--------|-------------|-----------|--------|
| 5.3849 | 1 205 | 11 662 | 25 134 | 2833 | 566.6 |
| 2.2845 | 1 201 | 11 548 | 25 698 | 2829 | 565.8 |
| | | | | | 1 1324 |

| | DWCNO. | B-17 | |
|-----------------|-------------|-------------|-------------|
| DETAIL OFTE | ENDONS AT | B-LINE | |
| IOAD DEVELOPMEN | T PROJECT | ON BATINAH | ПІСНЖАУ |
| OF COMMUNICATI | ONS, DIRECT | ORATE GENER | AL OF ROADS |
| | | | ······ |





NOTES:

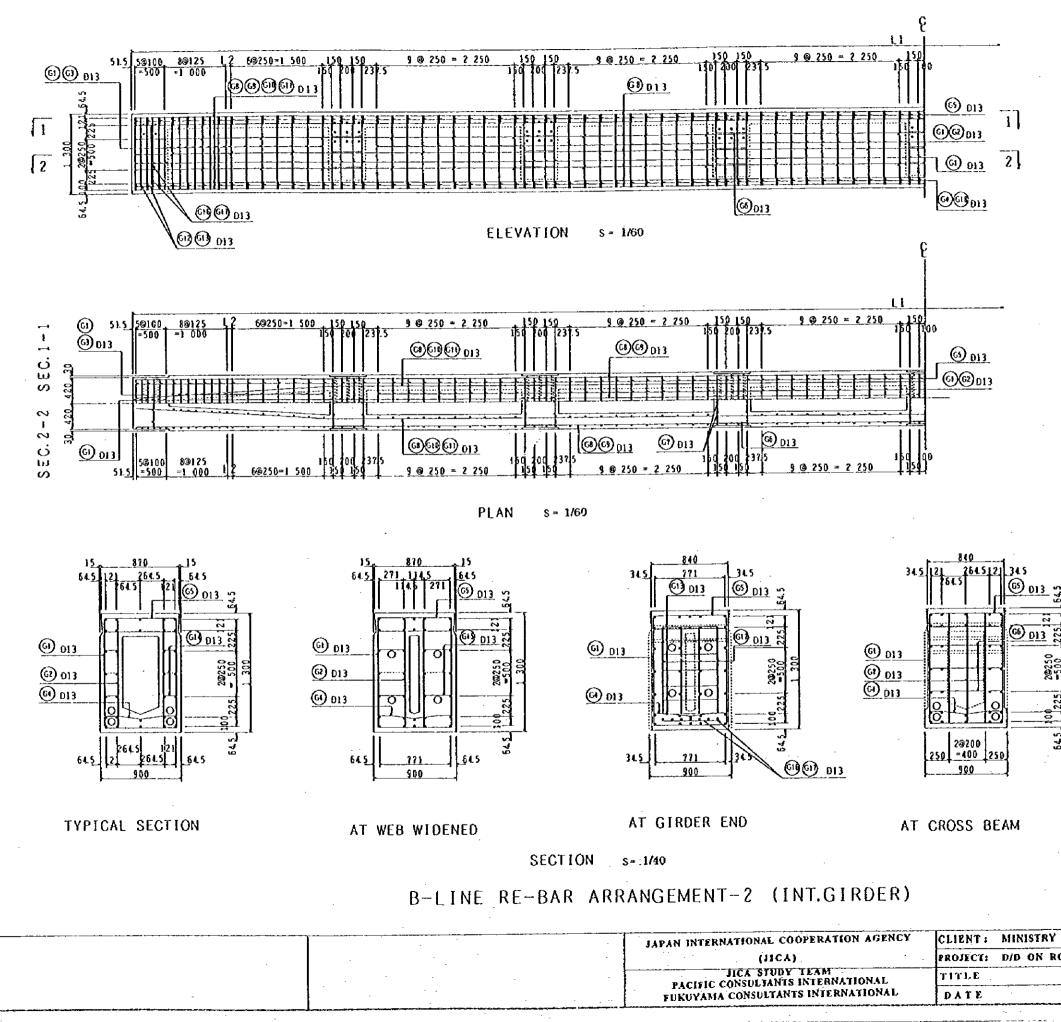
| LI | 25 882 | ~_ | 26 099 |
|----|--------|----|--------|
| L2 | 77.0 | ~ | 185.5 |
| L3 | 77.0 | ~ | 185.5 |

SEE AND CHECK VALUE OF L' FOR OTHER EXT.GIRDER LENGTH FROM GENERAL VIEW SHEET

NOTE :

FOR ALTERNATIVE CONSTRUCTION JOINT, INSERT INSIDE THREADED JOINT TO HANDLE PLANTED VERTICAL BAR

| OF COMM | SUNICATIONS, DIRECT | ORATE GENERAL OF ROADS |
|----------|---------------------|------------------------|
| OAD DEVI | ELOPMENT PROJECT | ON BATINAR HIGRWAY |
| RE-BAR | ARRANGEMENT(1/2) AT | F B-LINE |
| | DWGNO. | B-18 |



NOTES:

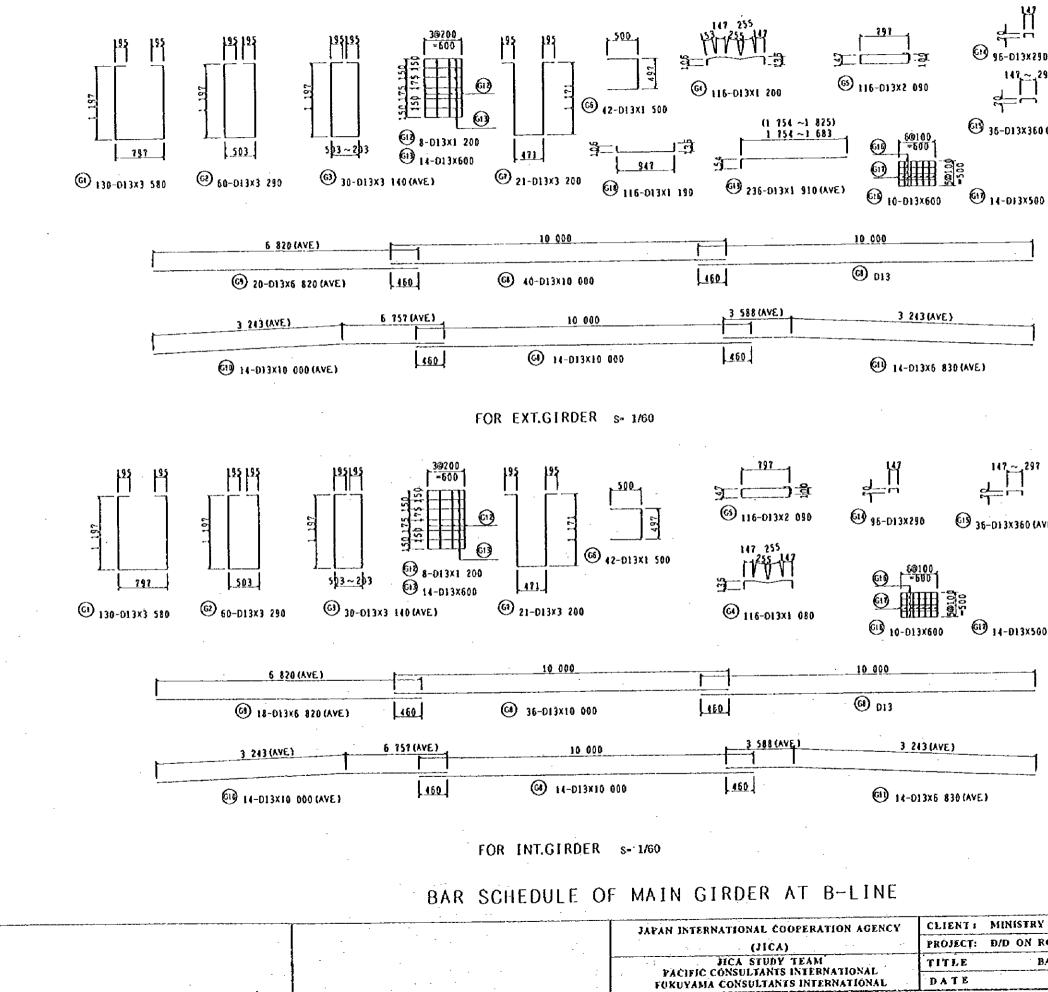
25 904 ~ 26 078 LI L 2 88.0 ~ 175.0

SEE AND CHECK VALUE OF 1' FOR OTHER INT.GIRDER LENGTH FROM GENERAL VIEW SHEET

| OF COMMUNICAT | IONS, DIRECTO | RATE GENERAL OF R | OADS |
|---------------|----------------|-------------------|------|
| DAD DEVELOPME | NT PROJECT O | N BATINAH HIGHWA | ¥ . |
| RE-BAR ARKAN | GEMENT(2/2) AT | B-LINE | |
| | DWGNO. | B-19 | |

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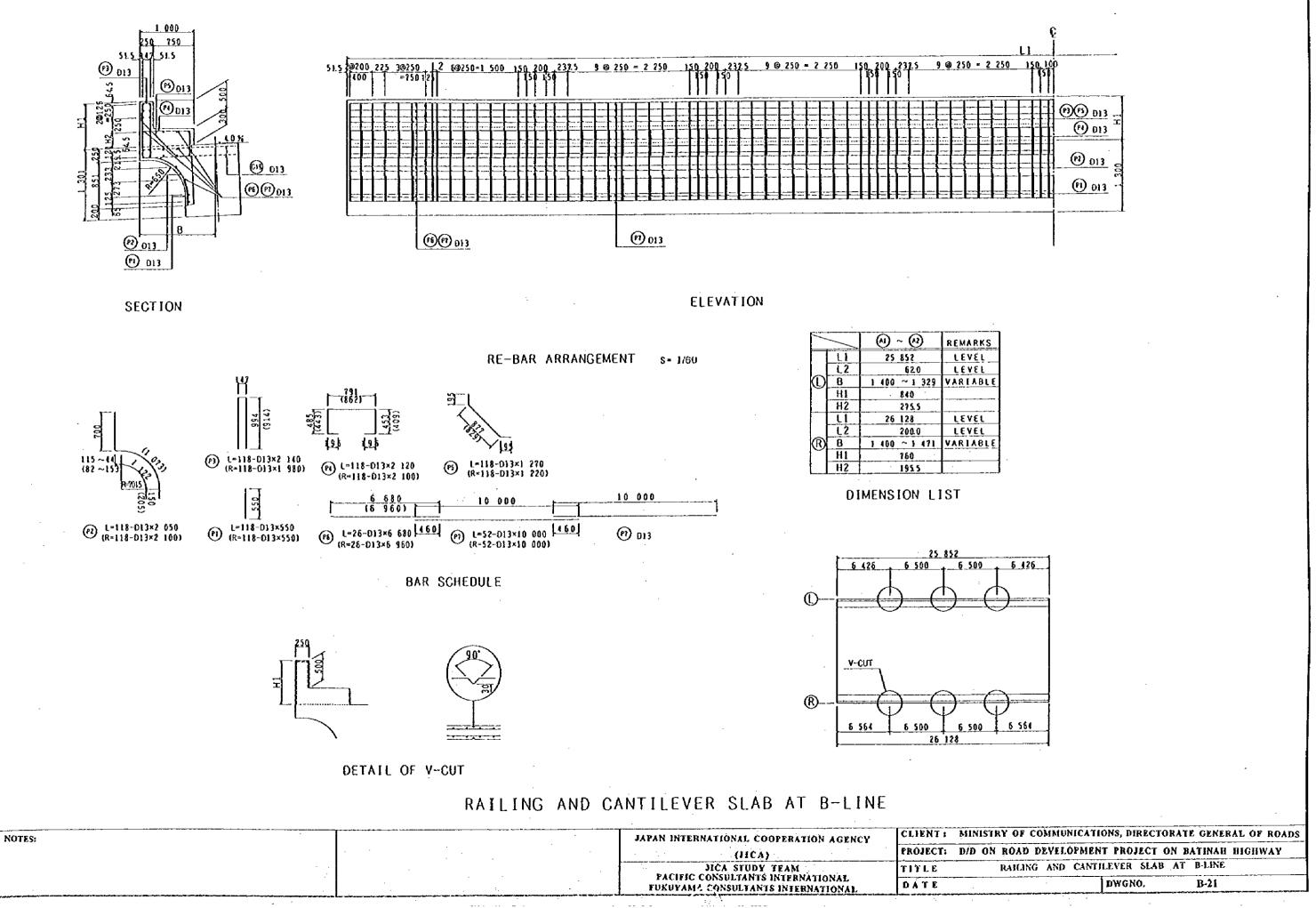
8 572

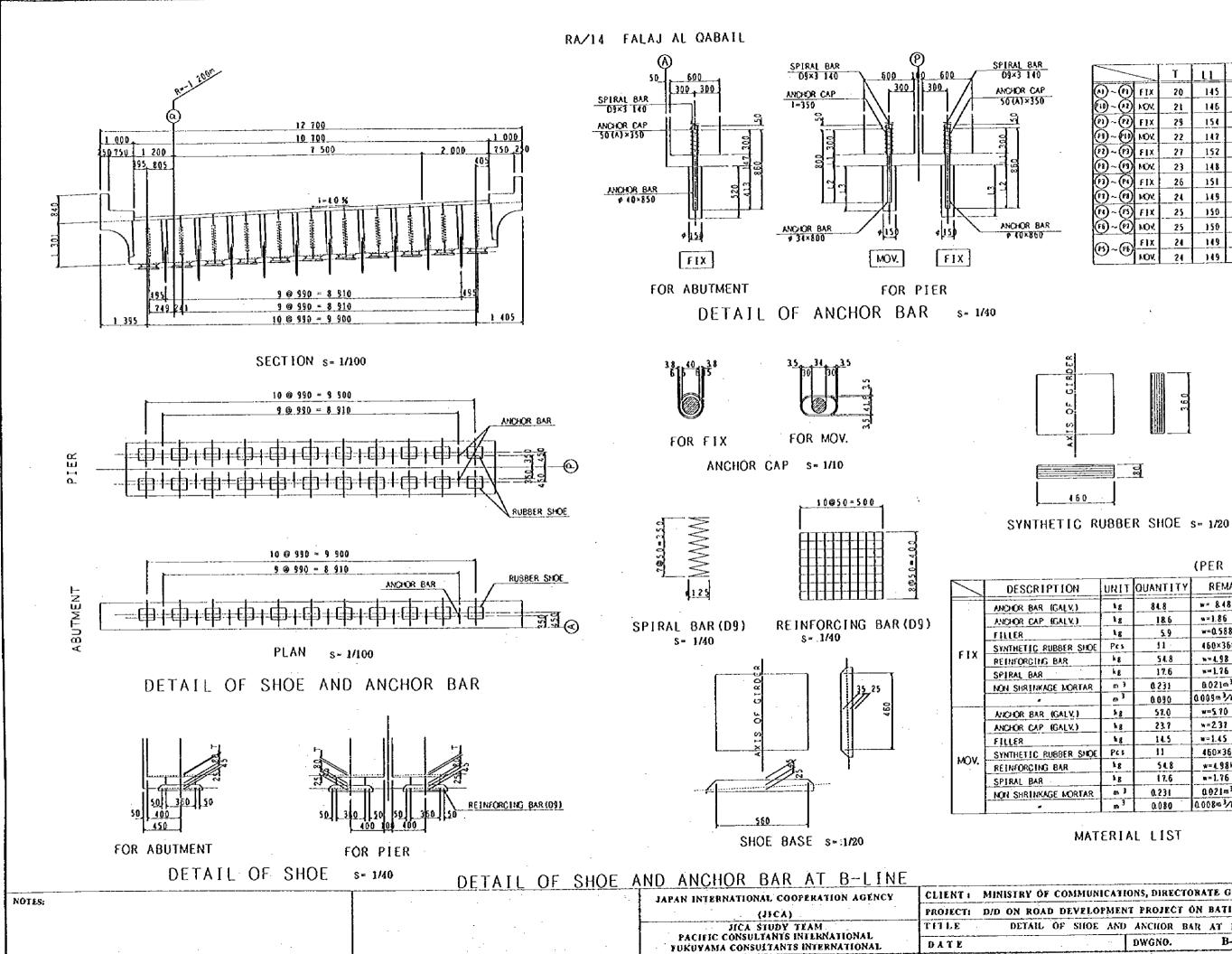


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NOTES:

| 0 | - |
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| | |
| OF COMMUNICATIONS, DIRECTORATE G Road development project on bati | ENERAL OF ROADS |
| BAR SCHEDULE OF MAIN GIRDER AT | |
| DWGNO. B | -20 |
| | |





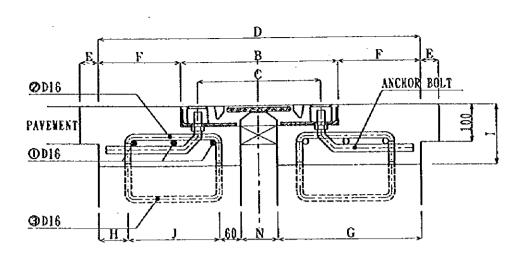
| | | | | | • |
|----------------|--------|----|-----|-----|-----------|
| | | Ĩ | 11 | L2_ | <u>L3</u> |
| <u>(1)~(1)</u> | FIX | 20 | 145 | 415 | 520 |
| ĒD-Ā | NON. | 21 | 148 | 354 | 460 |
| (P)~(P) |) F1X | 29 | 154 | 405 | 520 |
| (I)~(I) | MOV. | 22 | 147 | 353 | 460 |
| - (1)~(1) |) FIX | 27 | 152 | 408 | 520 |
| (1)~(1) |) NOV. | 23 | 148 | 352 | 460 |
| P)~(P) | FIX | 28 | 151 | 409 | 520 |
| <u>(1)</u> ~@ |) MON | 24 | 149 | 351 | 460 |
| (1)~(1) | FIX | 25 | 150 | 410 | 520 |
| _ 60~0 |) NOV. | 25 | 150 | 350 | 460 |
| (F)~(F) | FIX | 24 | 149 | 411 | 520 |
| (છ)~(છ | NON. | 24 | 149 | 351 | 460 |

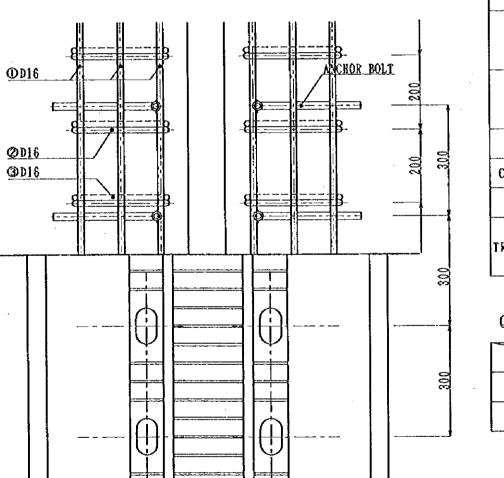
(PER SPAN)

| | | · · · · · · · · · · · · · · · · · · · |
|----------------|---|--|
| URIT | QUANTITY | REMARKS |
| ١g | 84.8 | w= 848 +8/90. |
| ١g | 18.6 | u=1.86 kg/oc |
| tg | 5.9 | w=0.588 kg/anc |
| Pes | 11 | 460×360×80 |
| kg | 54.8 | w=4.98 kg/Sel |
| kg | 17.6 | w=1.76 kg/pc |
| m 3 | 0.231 | 0.021m ³ /Shoe |
| m 3 | 0.090 | 0.009m ³ /Hole (AVE |
| hg | 57.0 | w=5.70 kg/pc. |
| hg | 23.7 | w=237 kg/pc |
| hg | 14.5 | w=1.45 kg/anc. |
| PES | 11 | 460×360×80 |
| kg | 54.8 | w=4.98kg/Set |
| kg | 17.6 | w=1.76 kg/pc. |
| (7) J | 0.231 | 0.021m ³ /Shoe |
| m ³ | 0.080 | 0.008m 3/Hole (AVE |
| | tg tg tg Pcs kg kg m 3 m 3 kg tg tg tg tg tg tg tg tg tg tg tg tg tg | kg 84.8 kg 18.6 kg 5.9 Pcs 11 kg 54.8 kg 17.6 m ³ 0.090 kg 57.0 kg 14.5 Pcs 11 kg 14.5 pcs 11 kg 54.8 kg 14.5 pcs 11 kg 54.8 kg 17.6 m ³ 0.231 |

| ŎF | CO | MHUN | CATIO | ONS, DIREC | CTOR/ | TE | GENERAL OF ROA | LD\$ |
|-------|----|-------|-------|------------|-------|-----|----------------|------|
| OAD | וס | EVELO | PMEN | I PROJEĆ | T ON | BAT | план шеликач | |
| AIL . | ÒF | SHOE | AND | ANCHOR | BAR | AT | B-LINE | |
| | - | | | DWGNO. | | I | 3-22 | |

FALAJ AL QABAIL





1

| MEASUR | E DATA | | | | | | | | | | | |
|--------|--------|-----|-------|-----|----|-----|-----|----|-----|-----|--------------------------------------|--------|
| | A | В | С | D | Е | F | G | Н | Ι | J | standard space netteen slars N | TRAVEL |
| PIER | 54 | 433 | - 340 | 879 | 50 | 223 | 390 | 80 | 160 | 250 | 100 | 80 |
| ABUT | 40 | 303 | 235 | 709 | 50 | 203 | 330 | 70 | 150 | 200 | 50 | 50 |

MATERIAL LIST (PER 10 m)

| XATERIAL | CLASSIFICATION | UNIT | PIER | ΑΒυτ |
|----------------------------|------------------------------|------|--------|--------|
| TRANŠFLEX JOINT | INCLUDING ANCHORBOLT | m | 10.0 | 10.0 |
| | FOR JOINT SEALS | kg | 22. 5 | 16.0 |
| SEALANT | FOR PLUG HOLE | kg | 8.5 | 4.0 |
| | OD16 | kg | 93.60 | 93.60 |
| REINFORCING BAR | ØD 1 6 | kg | 60.84 | 53.04 |
| RECESS CONCRETE | HIGH-EARLY STRENGTH CONCRETE | m‡ | 1. 143 | 0. 964 |
| COLORING AGENT OF THE FACE | 3 kg/m ¹ | kg | 16.0 | 15.0 |
| POLYURETHANE FORM | | m | 10.0 | 10.0 |
| | SAND | m' | 0.66 | 0.53 |
| TRANSIENT FILLING WATERIAL | ASPHALT CONCRETE | m¹ | 0. 73 | 0.60 |

QUANTITY LIST

| | PIER | ABUTNENT |
|--------------|--------|----------|
| AL KHABURAHN | 20 | 4 |
| TOTAL LENGTH | 222. 0 | 44.4 |

TRANSFLEX JOINT

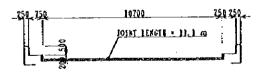
S= 1/10

JAPAN INTERNATIONAL COOPERATION AGENCY CLIENT : MINISTRY OF NOTES: (JICA) JICA STUDY TRAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL PROJECT: D/D ON ROA TITLE DATE

49

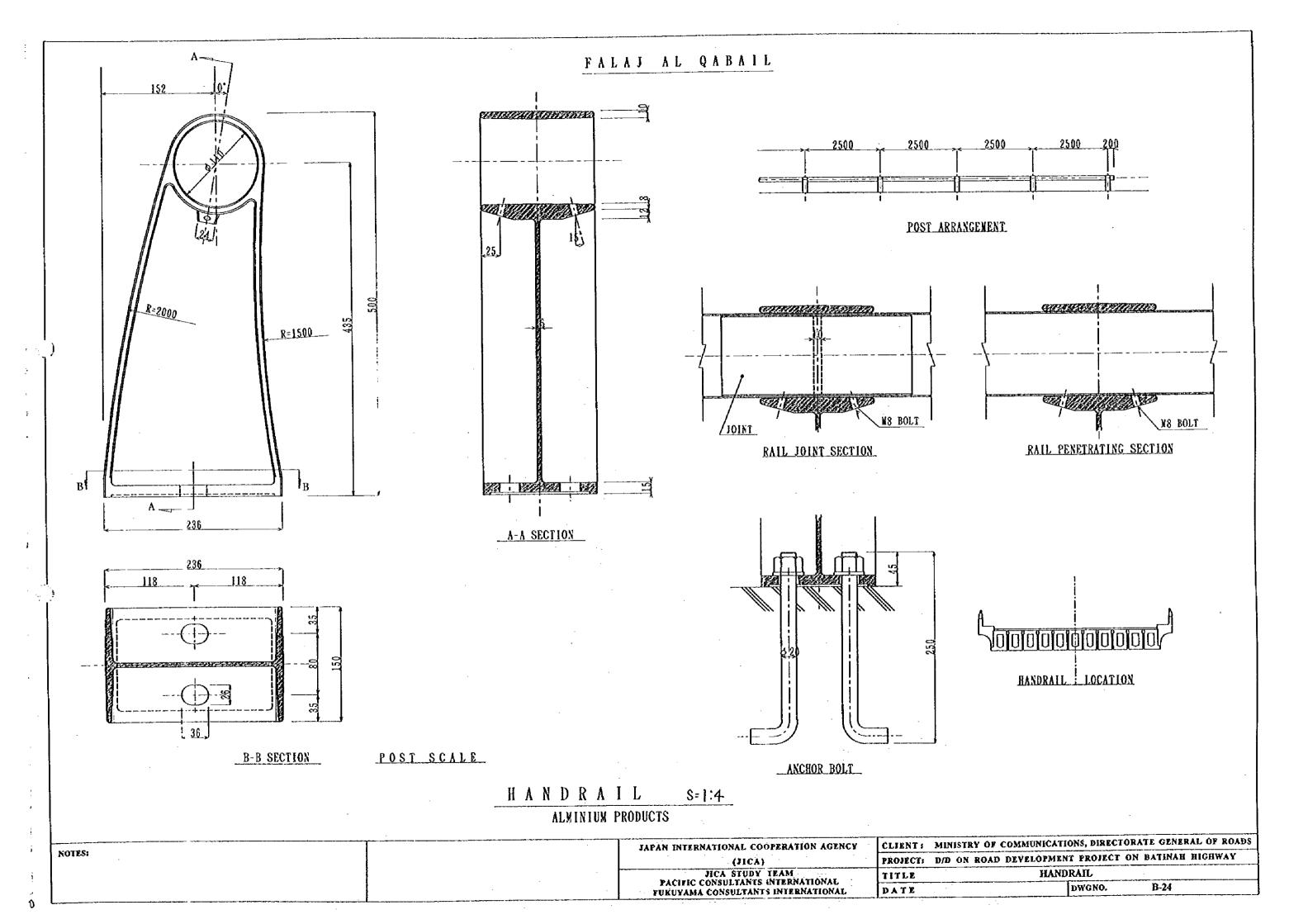
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J



JOINT LENGTH PER 1 PLACE

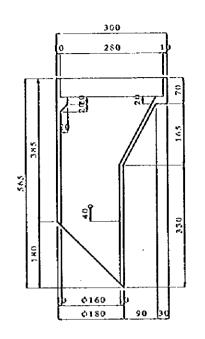
| F | COMMUNICATIO | NS, DIRECT | ORA | TE GENER | AL OF ROADS |
|---|--------------|------------|-----|----------|-------------|
| Û | DEVELOPMENT | PROJECT | ON | BATINAK | BIGBWAY |
| | EXPANSION | JOINT | | | |
| | · | DWGNO. | | B-23 | |



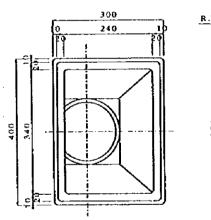
BRIDGE DRAINAGE DETAILS (FALAJ AL QABAIL FLYOVER)

CATCH BASIN (S=1:5)

¢10



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270 R.B.013 5+39<u>=195</u> F 8 54112

110

180

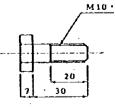
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400

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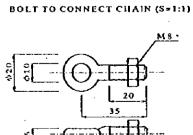
120



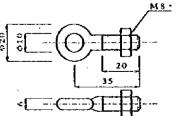


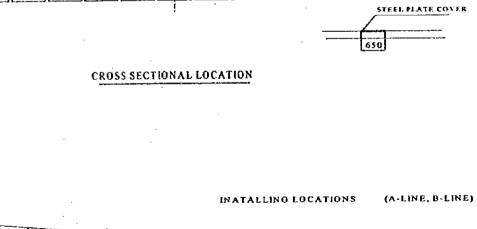
NOTES:

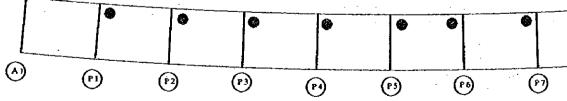
51





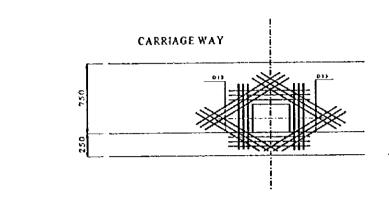


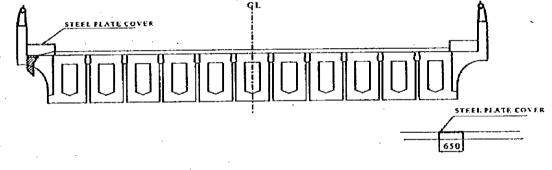


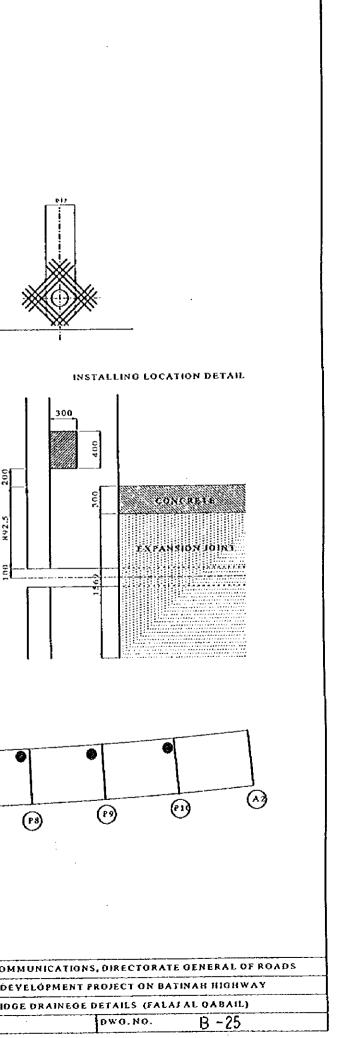


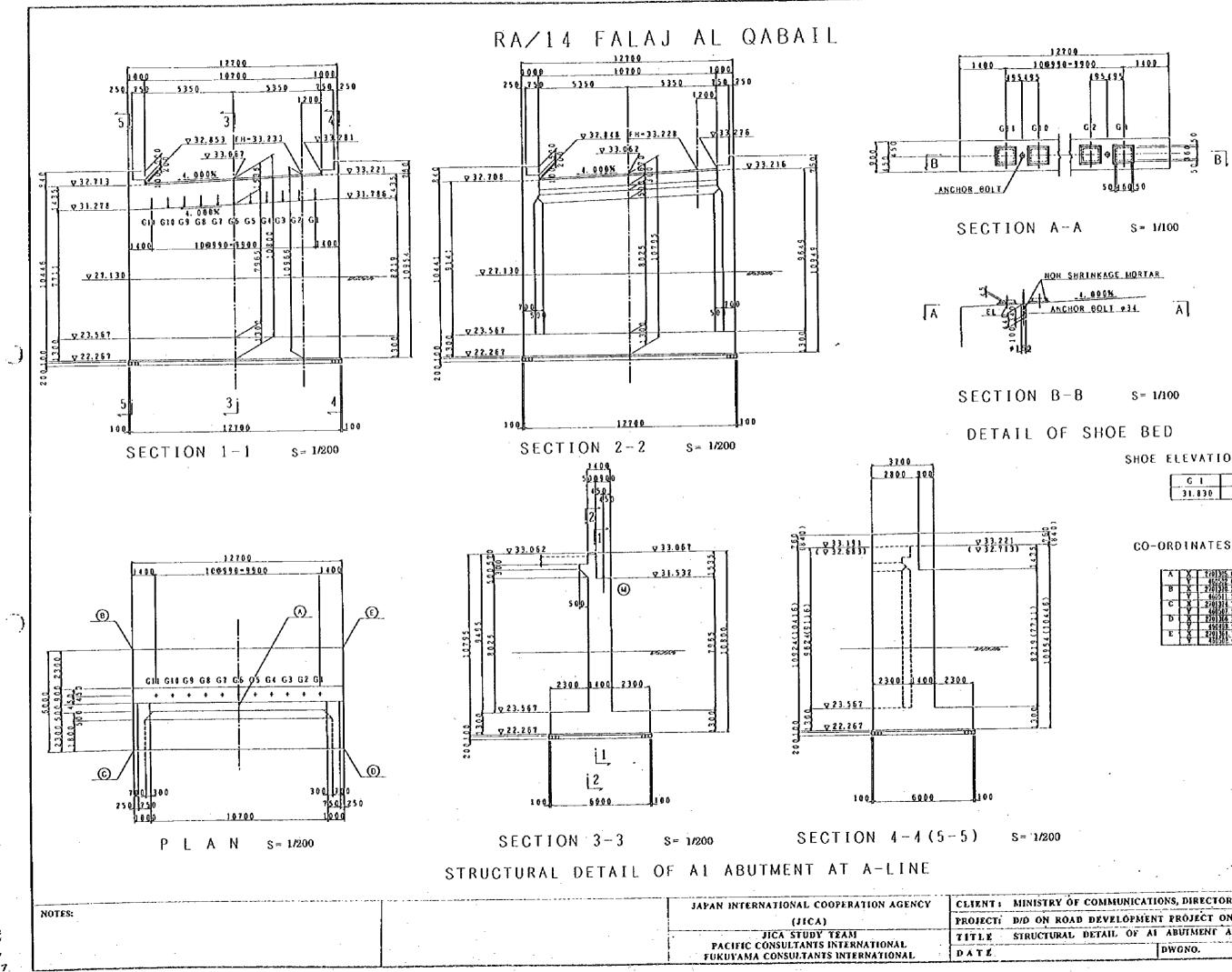
| CLIENT: MINISTRY OF COMMUNICAT | JAPAN INTERNATIONAL COOPERATION AGENCY | -7 |
|--------------------------------|---|-----|
| PROJECT: D/D ON ROAD DEVELOPME | (HCA) | |
| TITLE BRIDGE DRAINI | ΠCA STUDY ΤΕΑΜ | - } |
| DATE | PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL | |









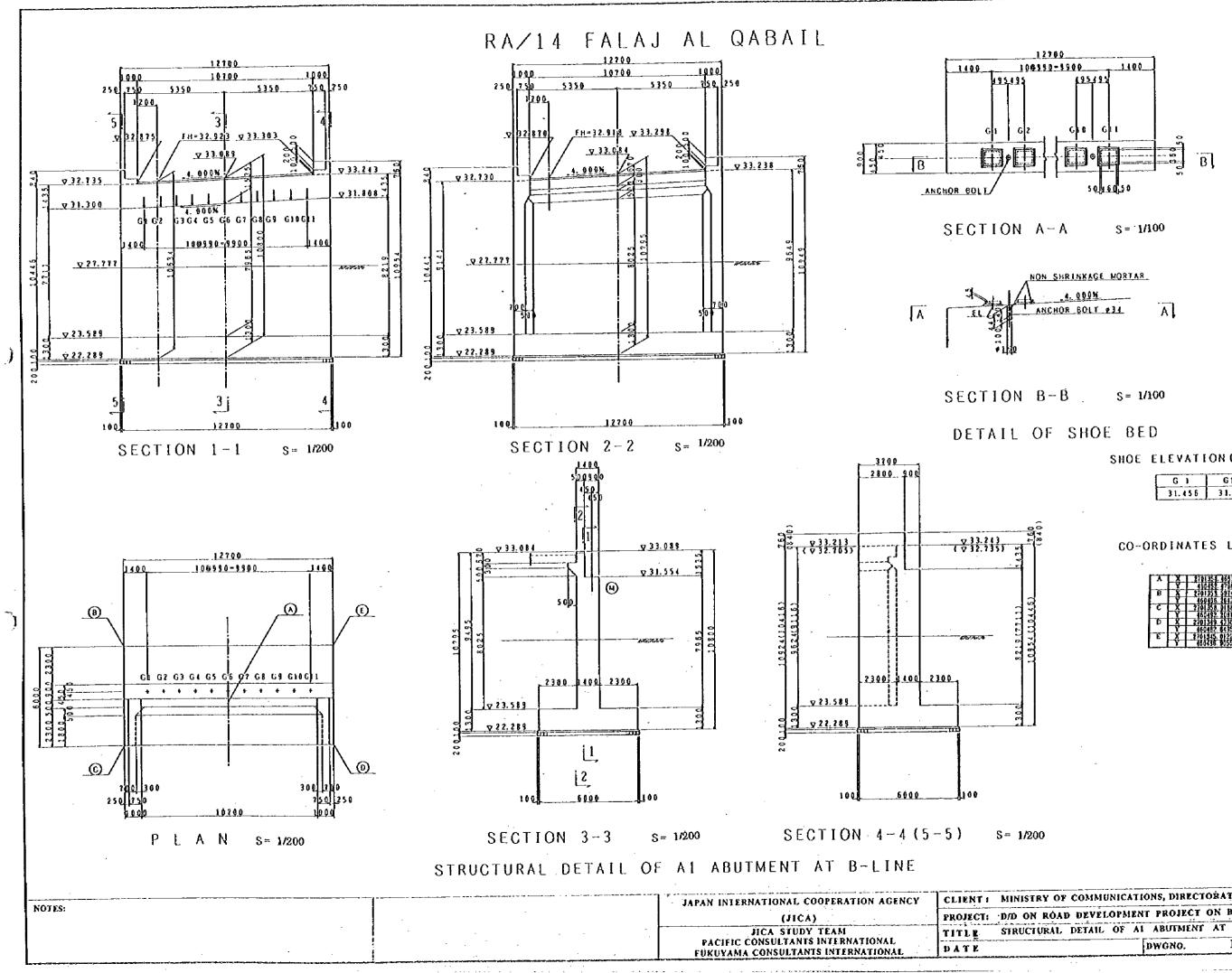


SHOE ELEVATION (EL) TABLE

| GI | G11 |
|--------|--------|
| 31.830 | 31.434 |

| - | | |
|----|----------|---------------|
| | X. | 270 365 6215 |
| | Y | 460502 0659 |
| B | X | 2701378 3451] |
| | Ϋ́ | 460511.9744 |
| C | X | 2701374 7732 |
| | Y | 460507 9257 |
| DI | X | 2701366 2034 |
| | Y | 450498.5529 |
| Έ | X | 2701361.7753 |
| | Y I | 460502.60.6 |

| · · | |
|---|-----------|
| OF COMMUNICATIONS, DIRECTO OAD DEVELOPMENT PROJECT O | |
| AL DETAIL OF AI ABUIMENT | AT A-LINE |
| DWGNO. | B-26 |



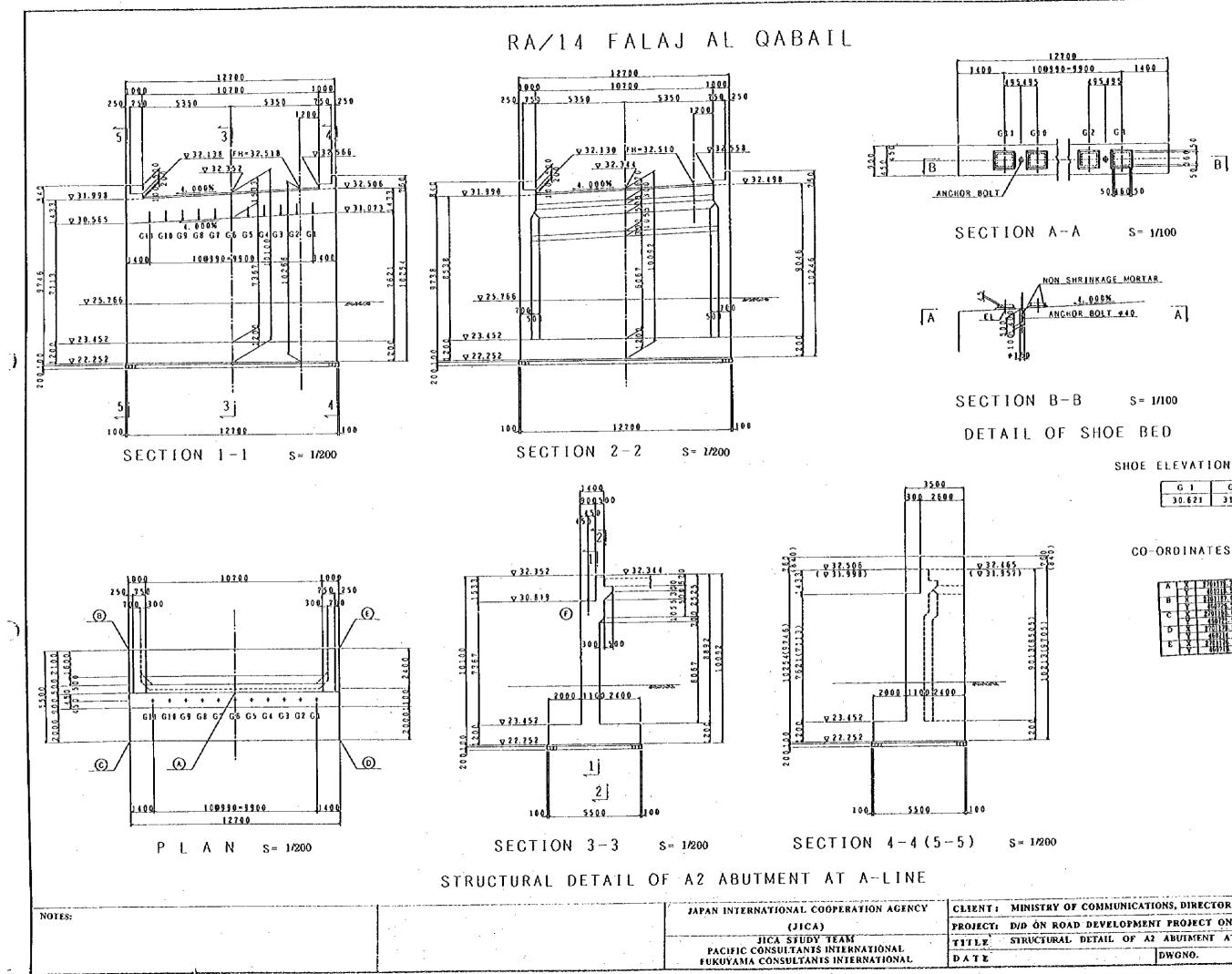
$$-\dot{B}$$
 S = 1/100

SHOE ELEVATION (EL) TABLE

| Gl | G11 |
|--------|--------|
| 31.456 | 31.852 |

| | | 2701354.4653 |
|---|------|--------------|
| | Y | 450492.4796 |
| B | X | 2701351 5976 |
| | Ŷ | 460495. 2642 |
| C | X | 2701358 0188 |
| | ΓY . | 460492.2081 |
| Ð | X | 2701349 4338 |
| | Y, | 460482.8495 |
| E | X | 1701515 0122 |
| | TY I | 466288 0055 |

| OF COMMUNICATIO | NS. DIRECTOR | ATE GENERAL O | F ROADS |
|-----------------|--------------|---------------|---------|
| OAD DEVELOPMENT | | | |
| AL DETAIL OF AL | | | |
| [r | WGNO. | B-27 | |

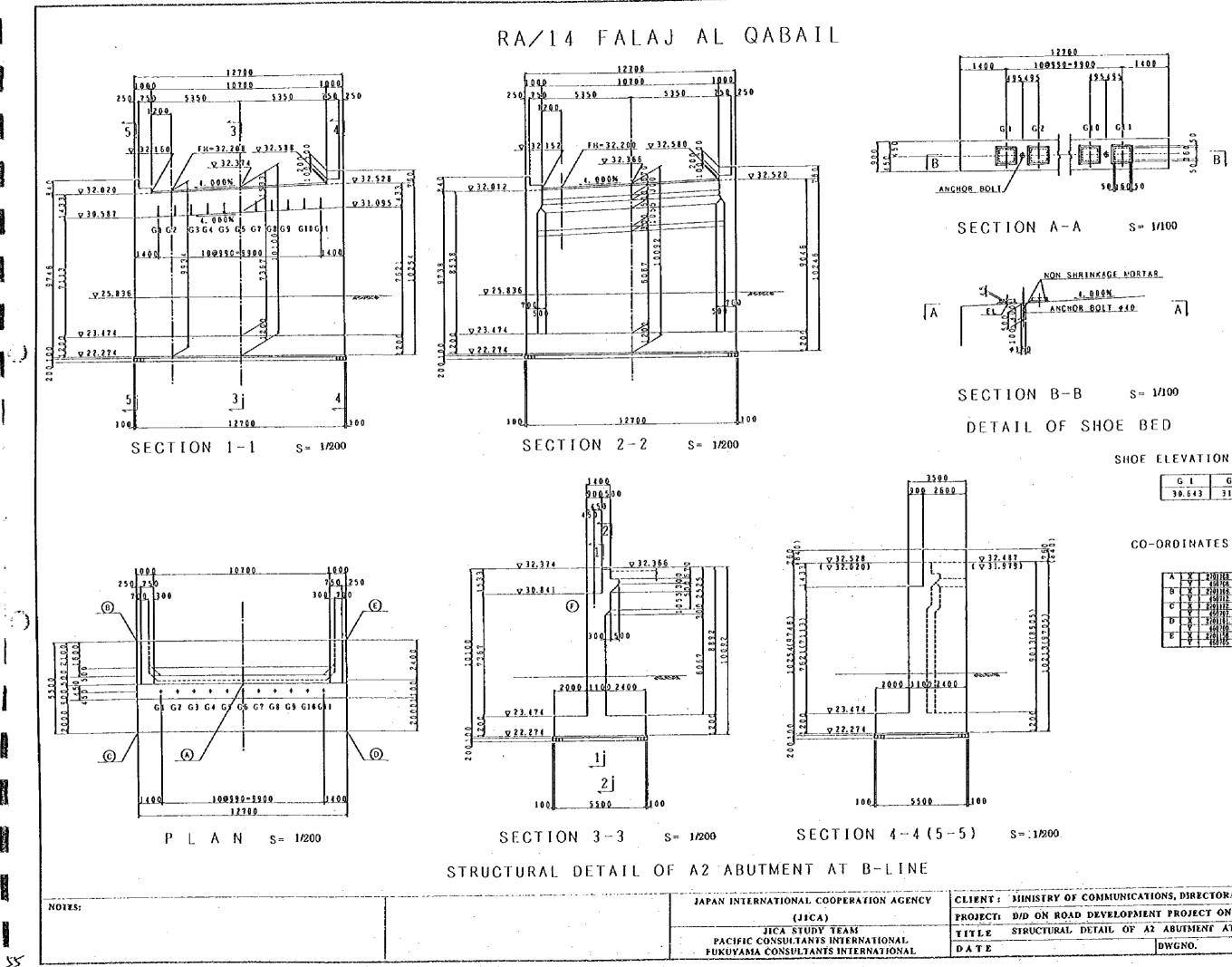


SHOE ELEVATION (EL) TABLE

| 61 | 611 |
|--------|--------|
| 30.621 | 31.017 |

| | | 426.676 2556 |
|----|------|----------------|
| Ā | X | 2701171-125C |
| | Y | 4607 8. 52.00 |
| Ð | X | 2101107.0428 |
| _ | Y | 460726.5179 |
| TC | X | 2701150.0977 |
| Ň | -ÿ-1 | 450721-\$444 |
| 5 | Ϋ́ Υ | 2701179.5359 |
| 5 | ŀΫ | 460714 8903 |
| E | l V | - 9781176 482C |
| 6 | ⊢≎- | 1-11111 1839 |
| | | |

| 07 | сомми | INIC | ATIC | ONS, DIRECT | ORA | TE GE | NERAL O | F ROADS |
|-----|--------|------|------|-------------|-----|-------|---------|---------|
| DAD | DEVEL | OPN | IENT | PROJECT | ON | BATIN | ан шісп | WAY |
| L | DETAIL | OF | A2 | ABUTMENT | AT | A-LIN | (E | |
| | | | | DWGNO. | | B-2 | 8 | - |

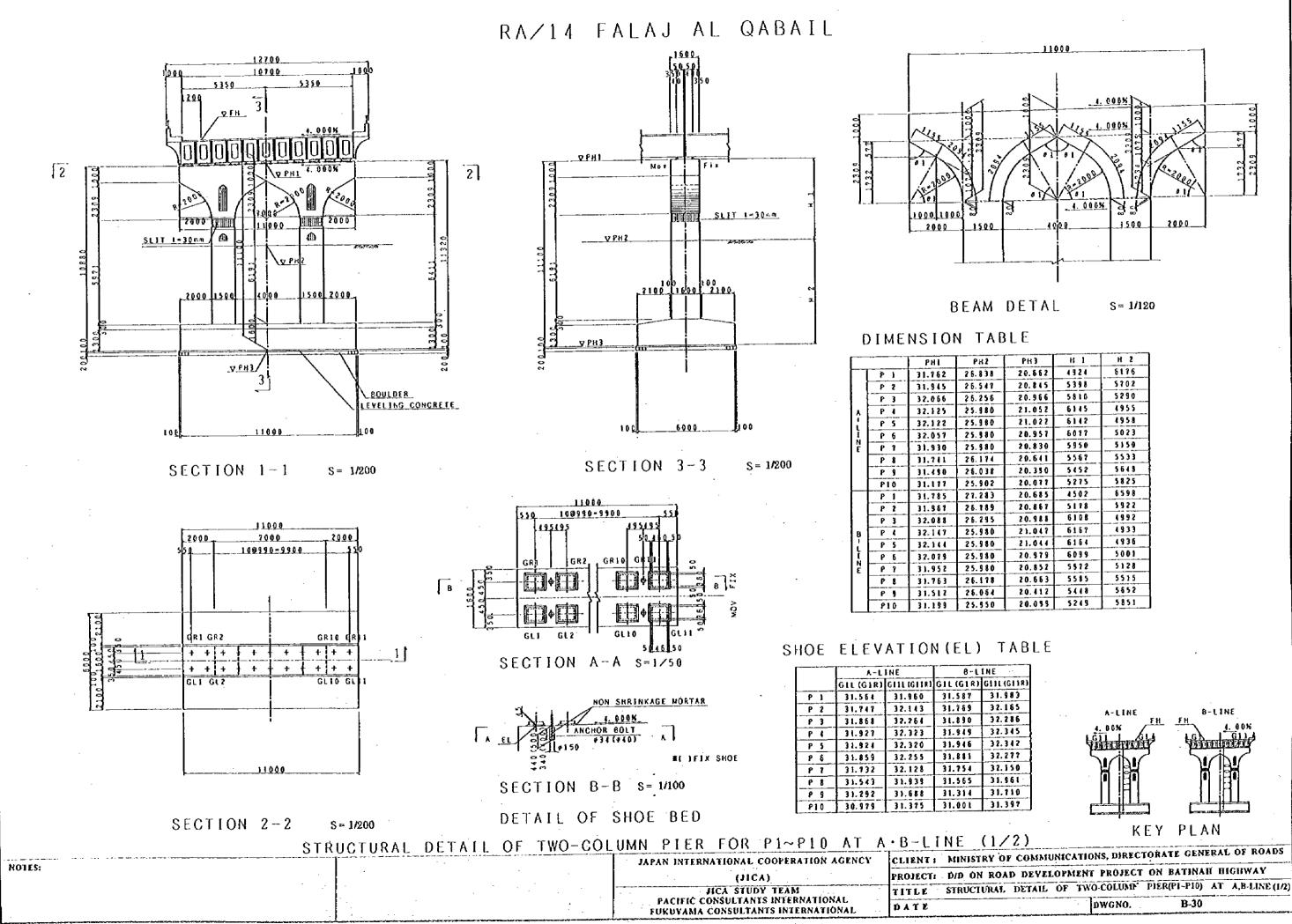


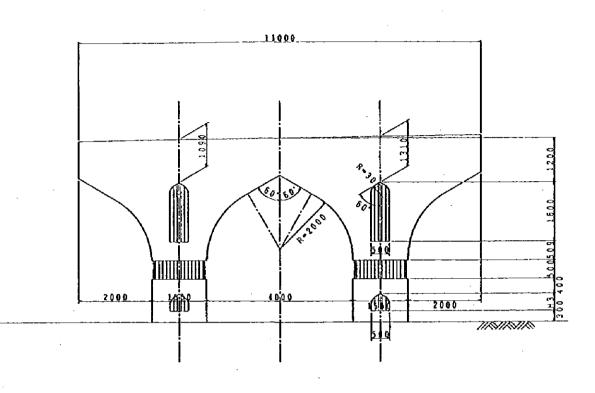
SHOE ELEVATION(EL) TABLE

| GI | G11 |
|--------|--------|
| 30.643 | 31.039 |

| A | X | 2201168 6353 |
|----------|------|----------------|
| | Y | 450708 9376 |
| 9 | X | 2701169.0164 |
| 1 | Y | 450712.3721 |
| C | X | 2201172 0770 |
| 1 | Y | 450707.8024 |
| D | X | 2701161. \$250 |
| i i | Y | 460700.7351 |
| E | X | 2701158 4644 |
| - 1 | TY I | TRATE 115 |

| | TIONS DIRECT | DRATE GENERAL OF ROADS |
|-------------|--------------|------------------------|
| | | |
| | | ON BATINAH HIGHWAY |
| L DETAIL OF | AZ ABUTMENT | AT B-LINE |
| | DWGNO. | B-29 |





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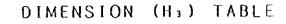
March 1

West and Address

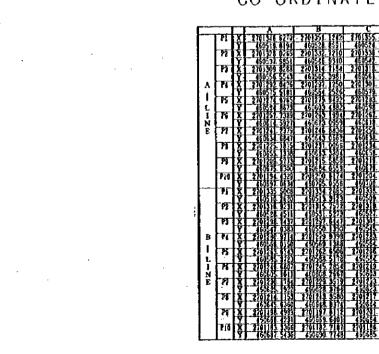
ST. Farm Mill

:1

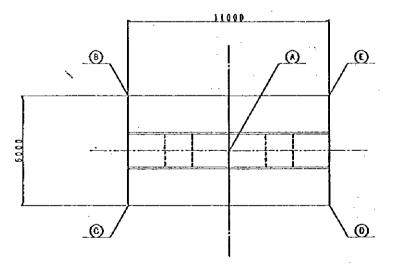
SLIT OF PLAN S= 1/100



| | A-LINE | B-LINE |
|-----|--------|--------|
| P 1 | 415 | ~ |
| P 2 | 889 | \$ 8 9 |
| Ρ́3 | 1301 | 1559 |
| P 4 | 1636 | 1858 |
| P 5 | 1633 | 1655 |
| P 6 | 1568 | 1590 |
| P 7 | 1441 | 1463 |
| P 8 | 1058 | 1076 |
| 8 9 | 1194 | 939 |
| P10 | 766 | 710 |





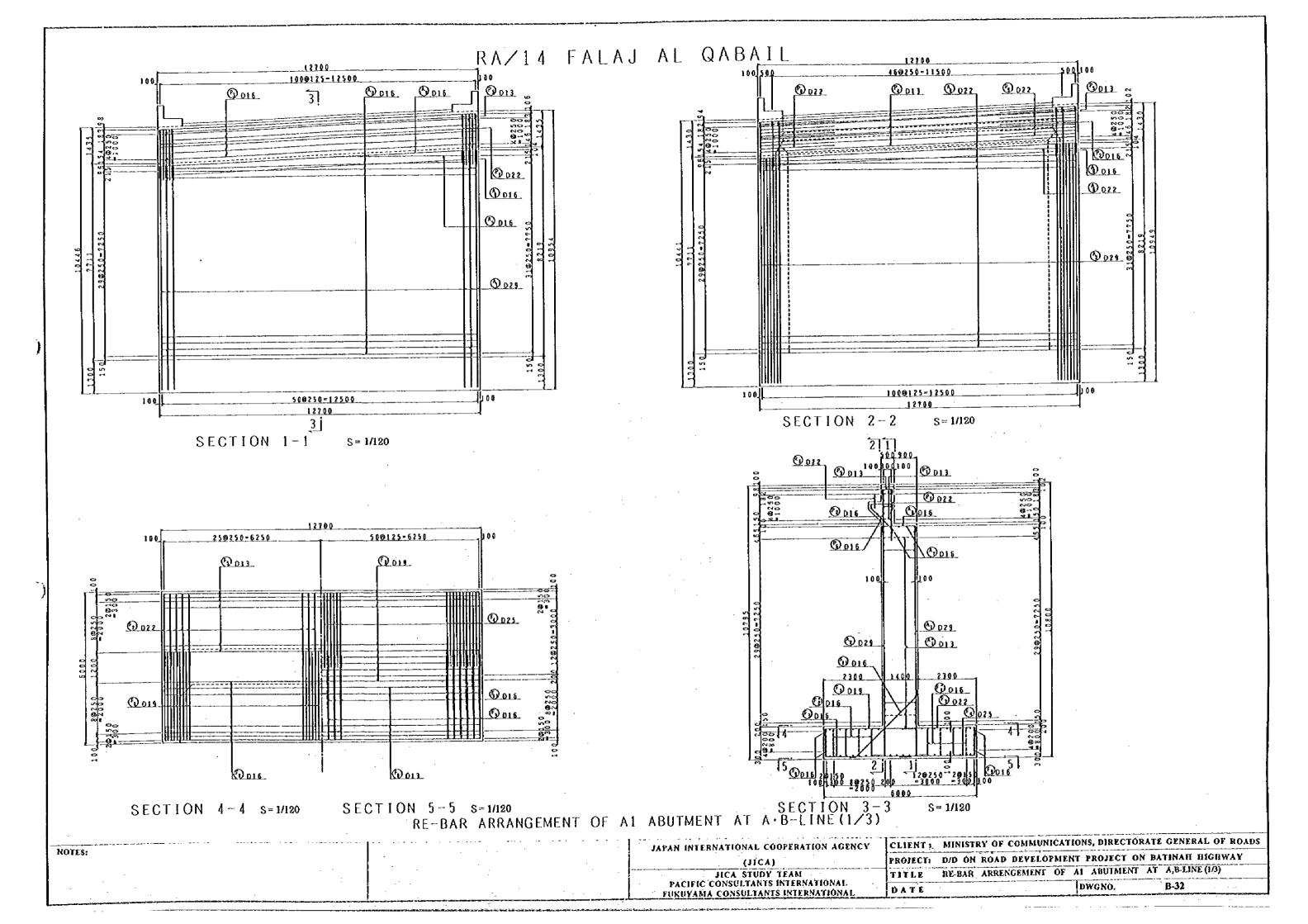


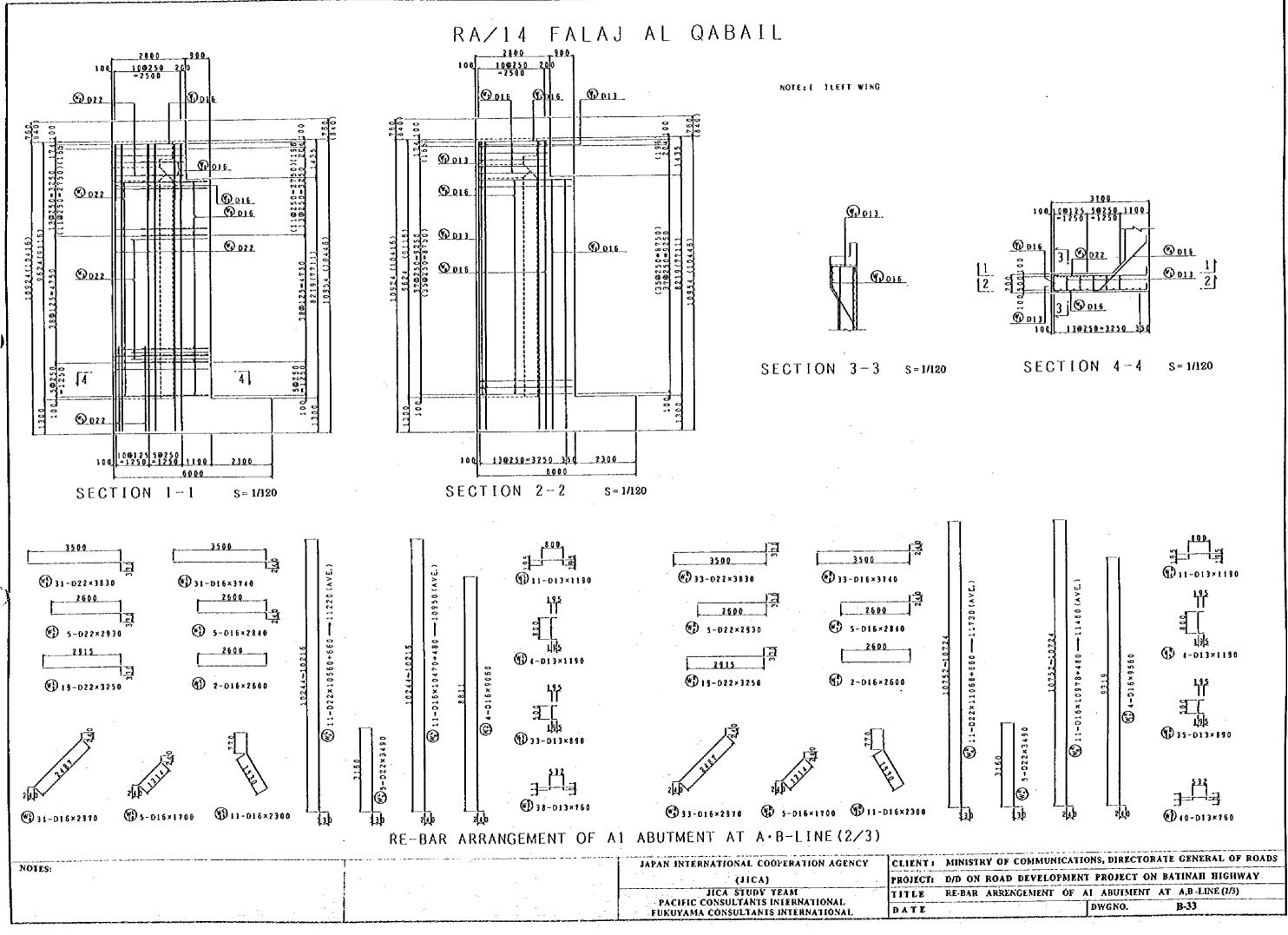
FRAMING PLAN S= 1/200



| NOTES: | JAPAN INTERNATIONAL COOPERATION AGENCY | CLIENT : MINISTRY OF C |
|--------|---|------------------------|
| - | (JICA) | PROJECT: D/D ON ROAD |
| | JICA STUDY TEAM | TITLE STRUCTURAL D |
| | PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL | DATE |
| | a har an | |

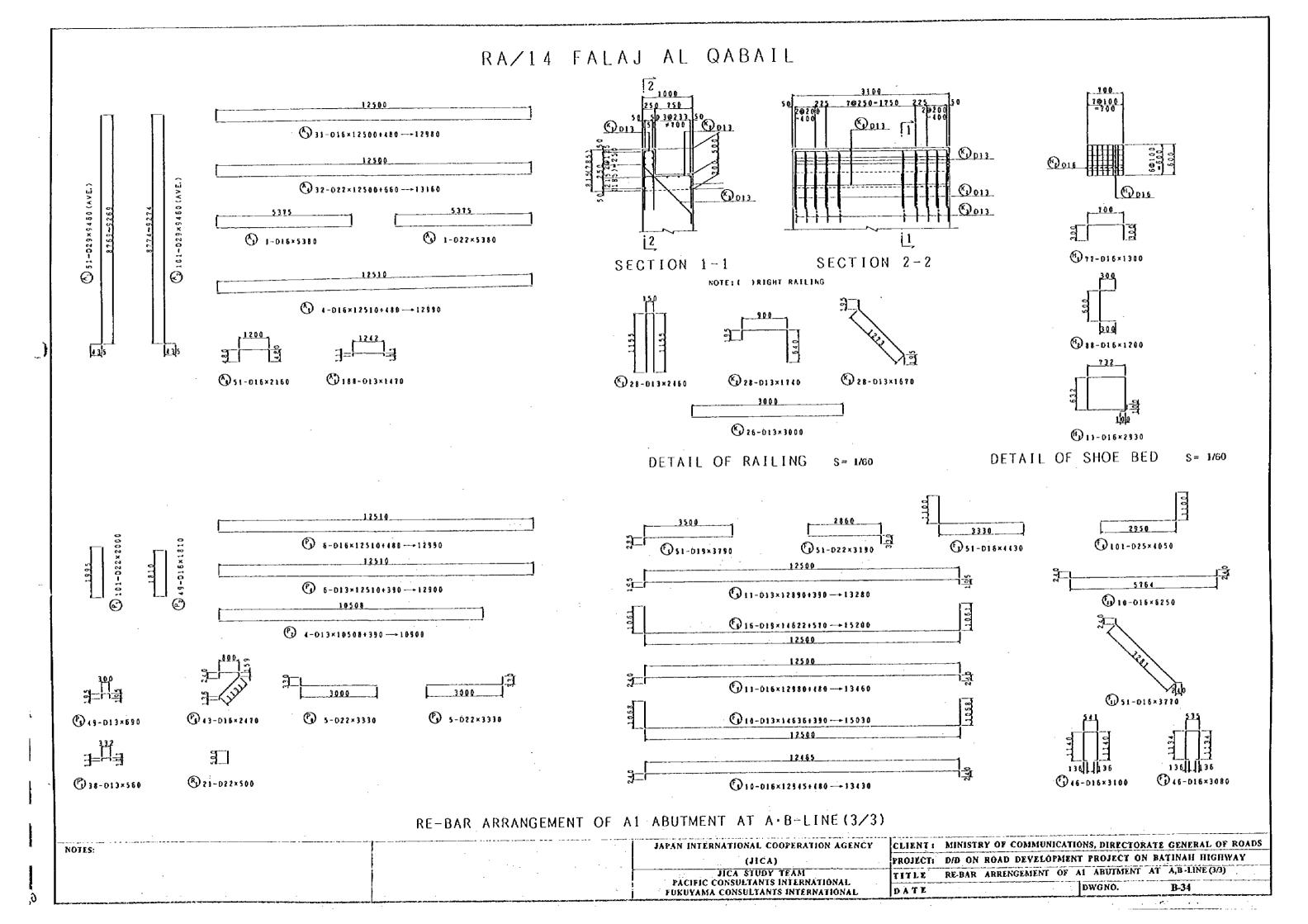
| DAD DEVE L DETAIL | | TW | n.co | ID.ON | PICD | <u>ም1~</u> ም1ሳኑ | 1.1 | A R.I | INE (2/2) |
|----------------------|------|-------------|-------|-------|------|-----------------|------|-------|-----------|
| | LOPE | TENI | [PR(| | | | | | |
| OF COMM | UNIČ | ATIO | NS, 1 | DIREC | TORA | TE GEN | ERAI | LOF | KOADS |
| /2) | | | | ···· | | | | | |
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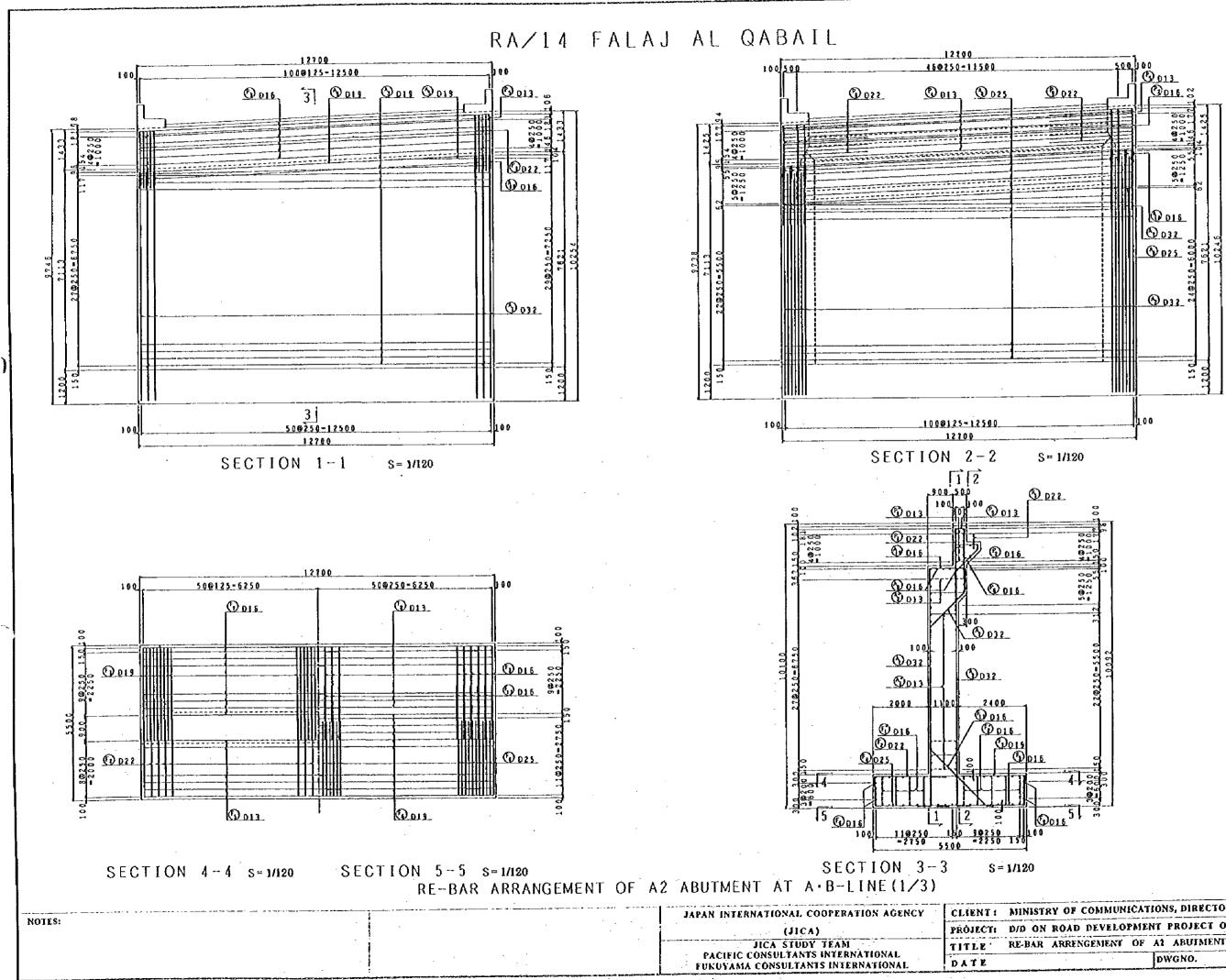




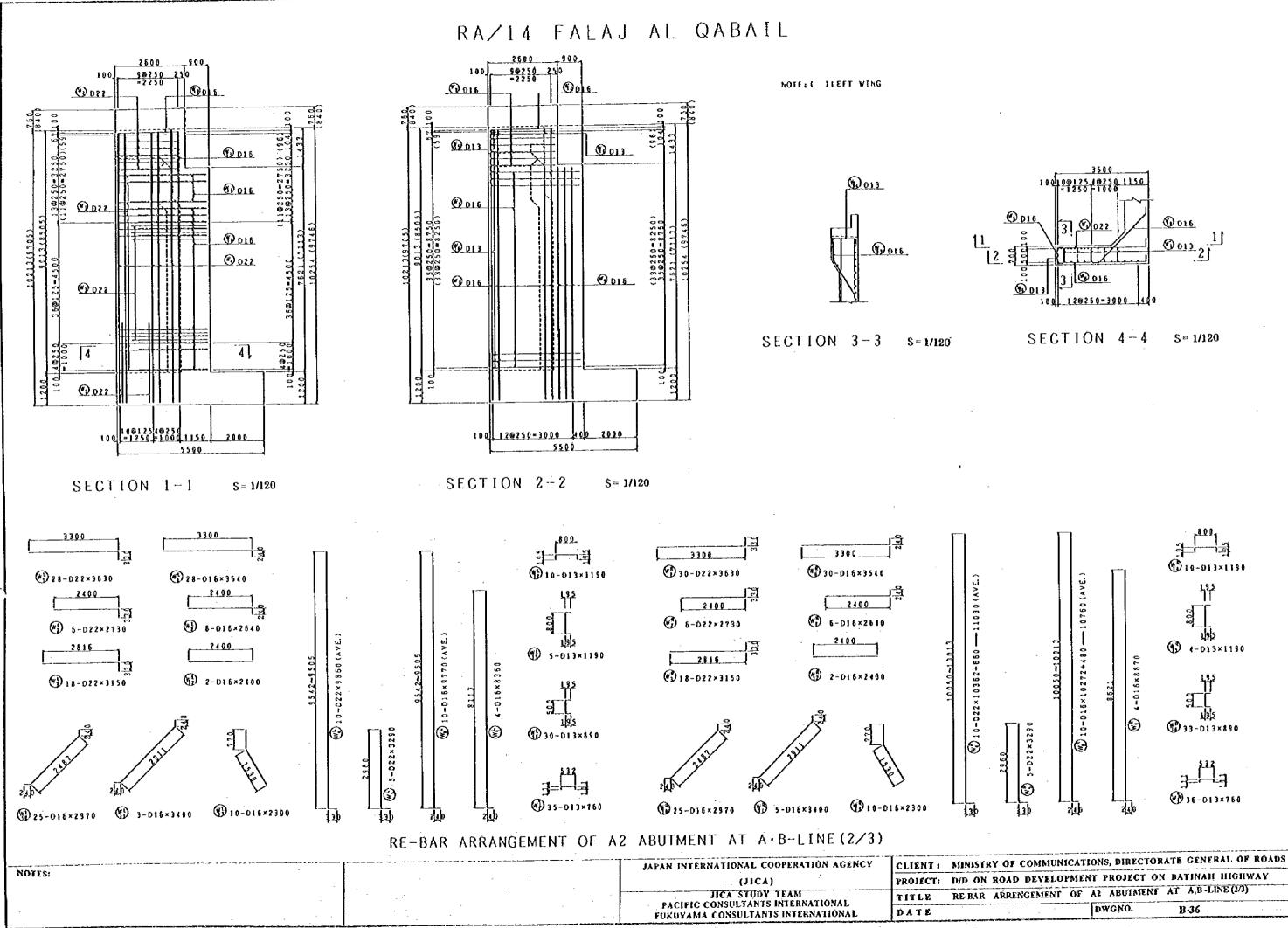
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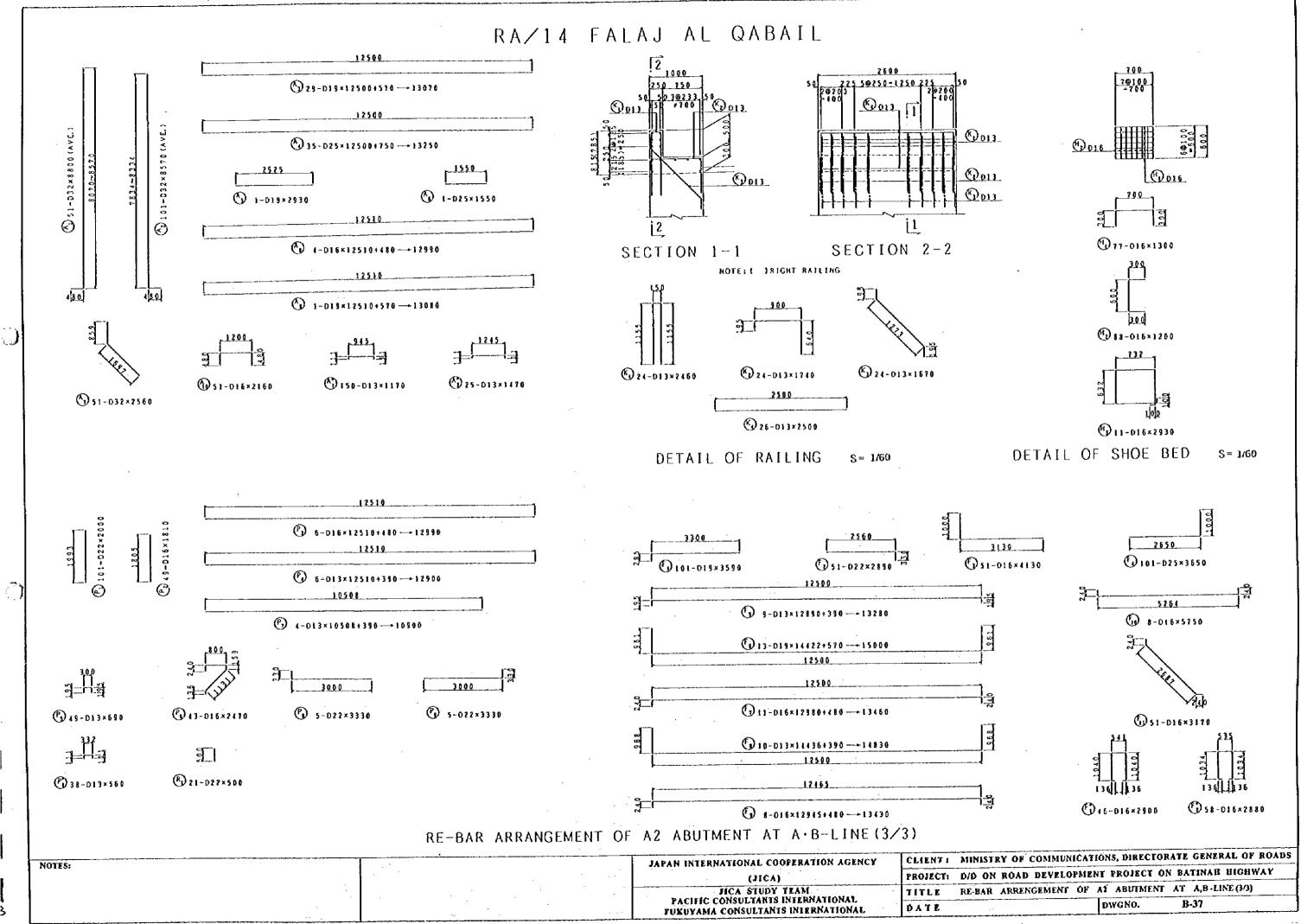
| | D | WGNO. | | B-35 |
|--------------|--------|--------------|----------|------------------|
| ARRENGEMENT | OF A1 | ABUIMENT | AT | A,B -LINE (1/3) |
| | | | | TINAN UIGHWAY |
| Y OF COMMUNI | CATION | IS, DIRECTOR | ATE | GENERAL OF ROADS |
| | | | <u> </u> | |



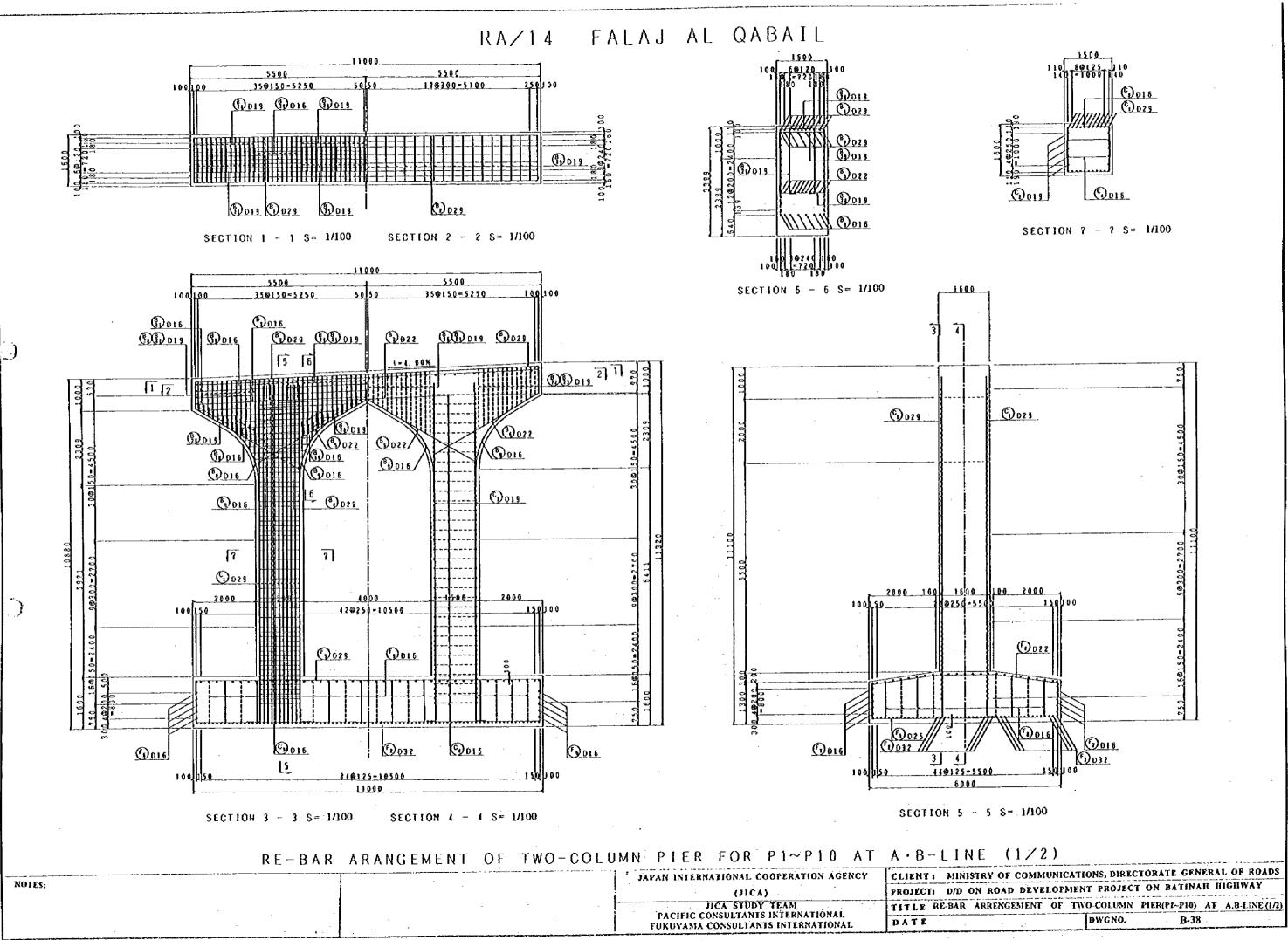
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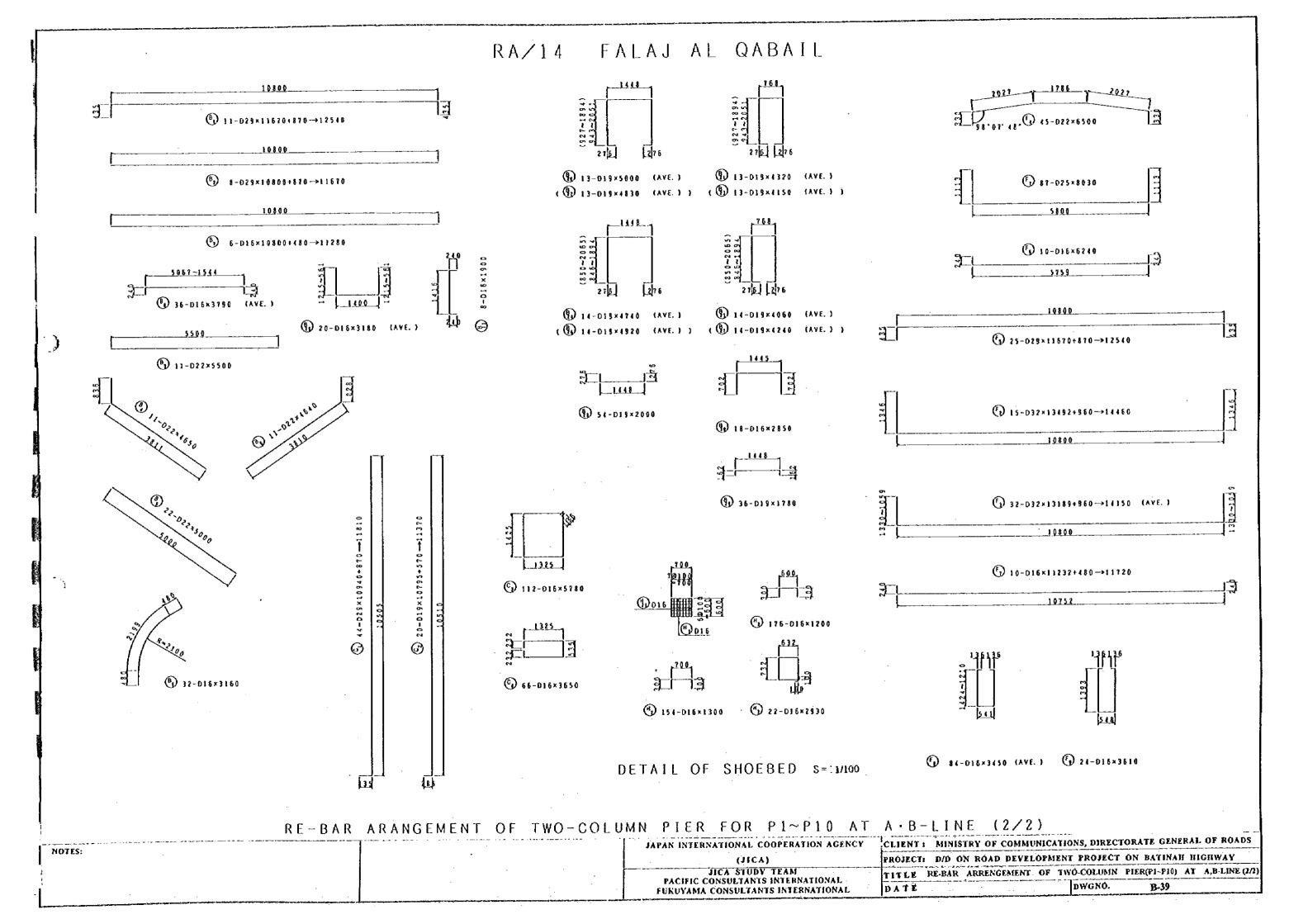
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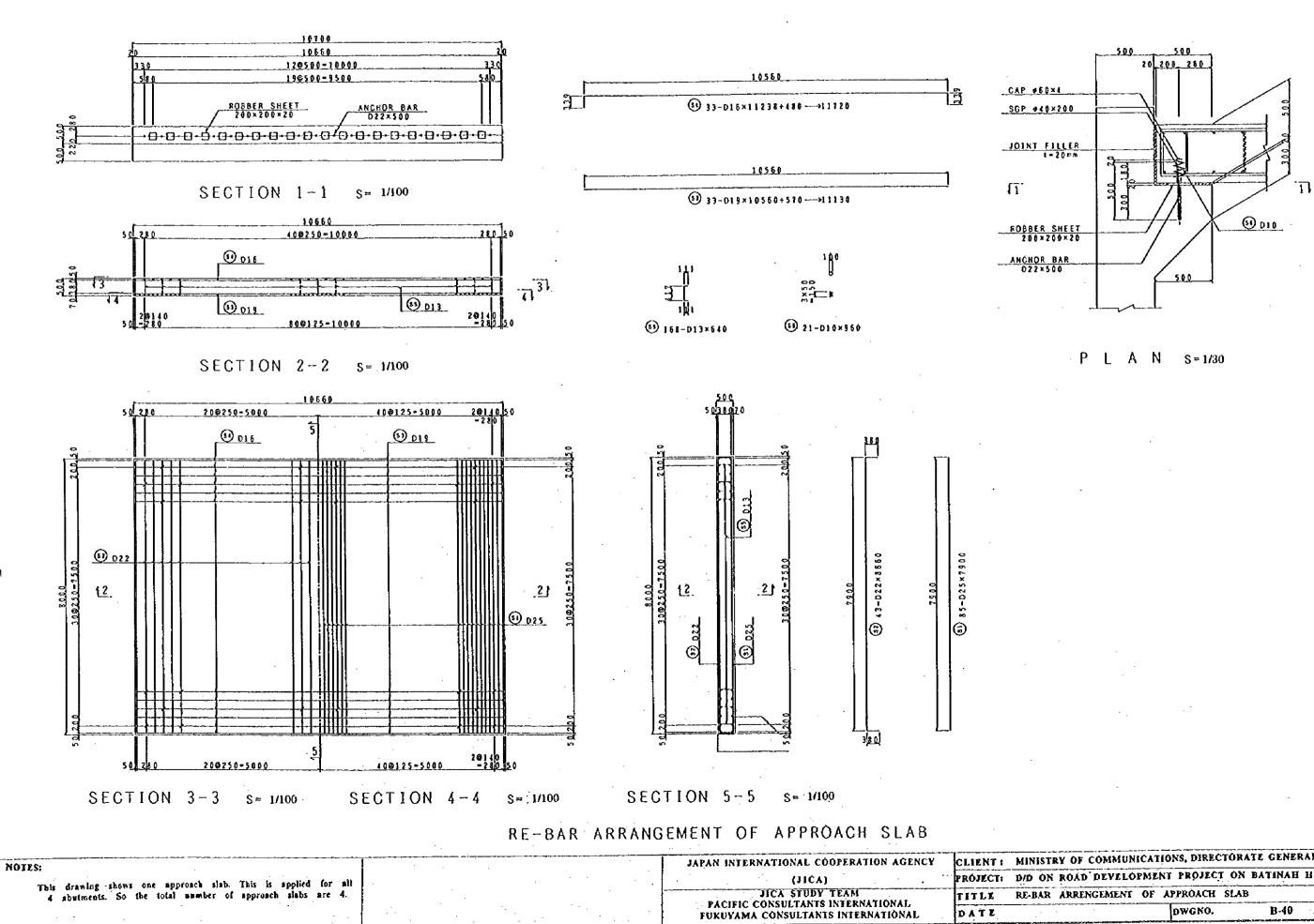
in the second



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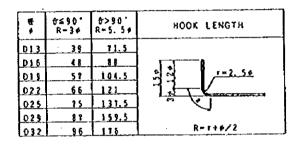
| | | | | | | 1 |
|--|------------|------|----------|--------|------|---|
| | | | | | | |
| Y OF COMMUNICAT | ONS, DIREC | TÖRA | TE GENEI | RAL OF | ROAD | s |
| ROAD DEVELOPMEN | T PROJEC | T ON | BATINAH | HICH | WAY | |
| ARRENGEMENT OF | APPROACH | SLAB | | | | |
| | DWGNO. | | B-49 | · | | |
| a na ang ang ang ang ang ang ang ang ang | | - | | | | |
| | | | | | | |

BAR BENDING DIAGRAM

LAP JOINT LENGTH

| • • | LAP JOINT LENGTH |
|---------|------------------|
| 13 390 | |
| 16 480 | |
| 11 570 | |
| 22 660 | transferration |
| 25 750 | _ |
| 25 870 | _ |
| 32 5.60 | |

BENDING DIMENSION (MAIN REINFORCEMENT)



NOTES:

BENDIN DIMENSION (STIRRUP.ERECTION BAR)

| | R=2.5¢ | 8=90" | 8=45' | · · · · · · · · · · · · · · · · · · · | HOOK LENGTH | |
|--------------------------|--------------------------|------------------------|------------------------|--|--|--|
| ۴ | R=2.5¢ | 1 | | STIRRUP | ERECTIÓN BAR | HOOP |
| 013 016 019 022 | 32.5 40 47.5 55 | 51_ 63 75 86_ | 71 94 112 130 | v v r=2. 84 v r=2. 84 v r=1 v r=1+0/2 | α α α α α α α α α α α α α α | () () () () () () () () () () |

| | | - | |
|--|--|---|--|
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|--|--|--|---|--|
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| | | | | |
| | | | | |

| | JAI | PAN | ONAN | | |
|------|--------------------------------------|-----------------------------|--------------------------------------|-----------------------------|--|
| | CROSS- SECTIONAL ARER (cm*) | NOMIMAL WEIGHT (Lg/m) | CROSS- SECTIONAL ARER (cm*) | NOMIMAL WEIGHT (Lg/m) | |
| 013. | 1.267 | 0,995 | 1.290 | 0.994 | |
| 016 | 1.985 | 1.56 | 2.000 | 1.352 | |
| 019 | 2.865 | 2.25 | 2.139 | 2.235 | |
| DZZ | 3.811 | 3.04 | 3.871 | 3.9.42 | |
| 025 | 5.067 | 3.98 | 5.097 | 3.973 | |
| 029 | 6.424 | 5.04 | 5.152 | 5.055 | |
| D32 | 7.942 | 6.23 | 8.194 | 6.403 | |

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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL D A T E

| ÓF | COMMUNICATIO | NS, DIRECT | ORATE GENER | AL OF ROADS |
|------|--------------|------------|-------------|----------------|
| ROAD | DEVELOPMENT | PROJECT | ÓN BATINAH | HIGHWAY |
| DINO | DIAGRAM | | | |
| | | DWGNO. | B-41 | · · · |