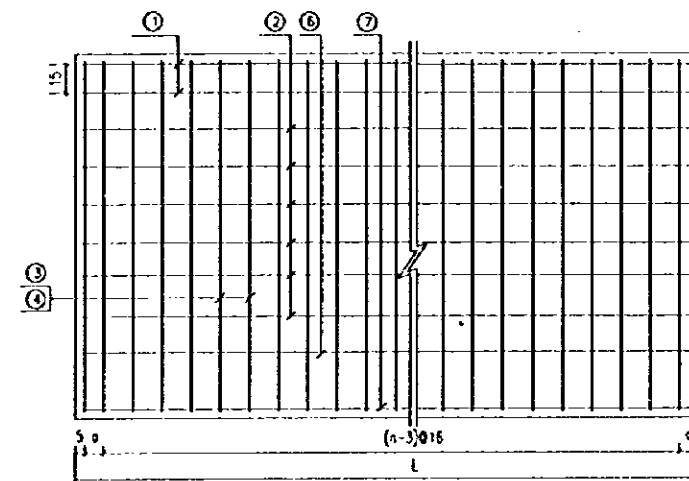


REINFORCEMENT OF TYPE 2 RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ25 | 8 | --- | L-7 |
| ② | L-7 | φ10 | 32 | --- | L-7 |
| ③ | | φ16 | 2n | 16 | 11+66 |
| ④ | | φ20 | 2n | 16 | 11+66 |
| ⑤ | | φ16 | n | 16 | 353 |
| ⑥ | L-7 | φ20 | 16 | --- | L-7 |
| ⑦ | L-7 | φ20 | 16 | --- | L-7 |
| ⑧ | | φ20 | n | 16 | 419 |
| ⑨ | | φ12 | 4n | 16 | 124 |

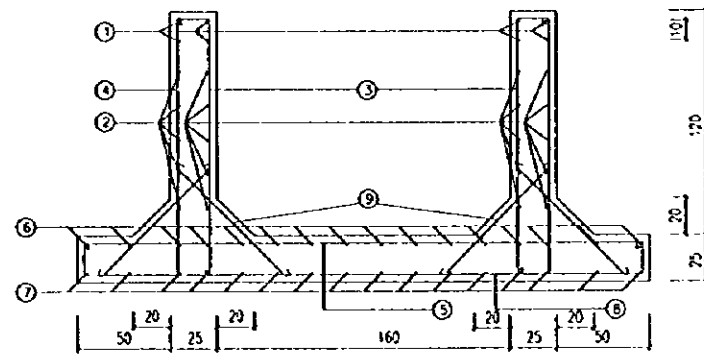
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H (cm) | L (cm) | a | n | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|--|--------------------|---------|--------|----|-----|----------------------------------|---------|---------|---------|---------|--------------------------------|
| | | | | | | φ10 | φ12 | φ16 | φ20 | φ25 | |
| P226+00 ~ P216+20 H214+00 ~ H214+00 | 19 | 159~188 | 1998 | 10 | 126 | 7469.0 | 10544.3 | 31394.9 | 82848.6 | 11672.5 | 1100.900 |
| P216+20 ~ P216+55 H214+00 ~ H214+00 | 1 | 186~187 | 1448 | 7 | 92 | 284.5 | 405.2 | 1247.2 | 3237.4 | 444.6 | 43.614 |
| TOTAL | | | | | | 7753.5 | 10949.5 | 32642.1 | 86086.0 | 12117. | 1144.514 |

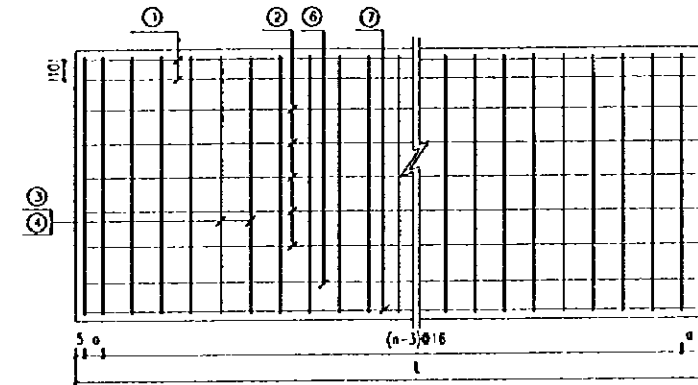
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC DITCH(A5-5) | |
| SCALE | DWG1-08(38/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ16 | 8 | --- | L-7 |
| ② | L-7 | φ10 | 20 | --- | L-7 |
| ③ | | φ10 | 2n | 16 | 169 |
| ④ | | φ12 | 2n | 16 | 171 |
| ⑤ | | φ14 | n | 16 | 321 |
| ⑥ | L-7 | φ18 | 16 | --- | L-7 |
| ⑦ | L-7 | φ18 | 16 | --- | L-7 |
| ⑧ | | φ12 | n | 16 | 354 |
| ⑨ | | φ10 | 4n | 16 | 95 |

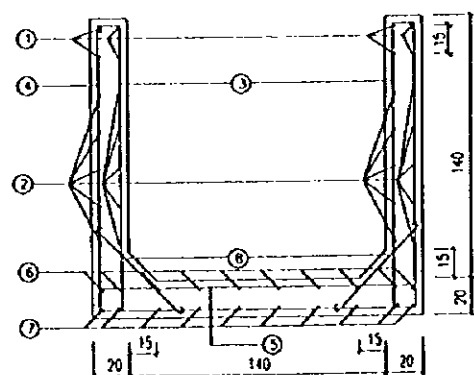
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | L a n | | | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|--|--------------------|--------|----|-----|----------------------------------|--------|--------|--------|--------|--------------------------------|
| | | L (cm) | a | n | φ10 | φ12 | φ14 | φ16 | φ18 | |
| P224+00 ~ P224+00 H208+24.25 ~ H206+24.25 | 4 | 1998 | 10 | 126 | 3215.5 | 3115.0 | 1957.6 | 1006.7 | 5097.0 | 116.284 |
| P224+00 ~ P224+00 H206+24.25 ~ H206+11.75 | 1 | 1248 | 11 | 79 | 503.1 | 488.3 | 306.8 | 156.9 | 794.2 | 18.158 |
| TOTAL | | | | | 3718.6 | 3603.3 | 2264.4 | 1163.6 | 5891.2 | 134.442 |

NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT (AS-6) | |
| SCALE | 1:200 |
| DING1-D0(39/85) | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |

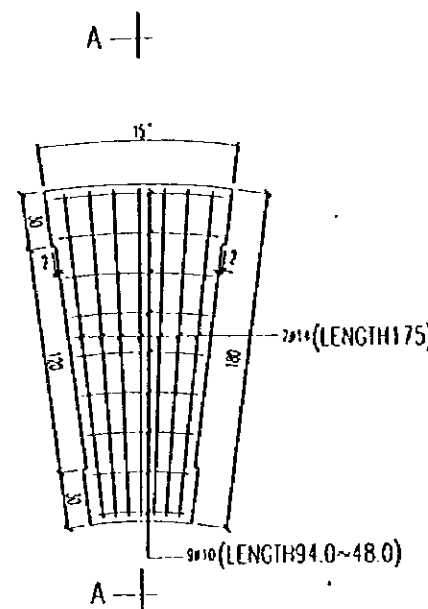


CROSS SECTION OF REINFORCEMENT
(TYPE 1 RC DITCH)

(1-1)

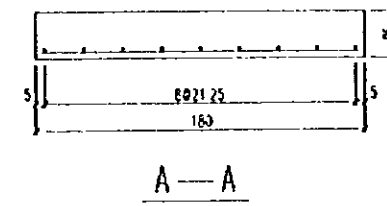
BENDING SCHEDULE

| No. | Shape (cm) | Dia. (mm) | No's | Length (cm) |
|-----|-------------|-----------|------|-------------|
| ① | 592.8~328.7 | φ12 | 8 | 592.8~328.7 |
| ② | 592.8~328.7 | φ8 | 20 | 592.8~328.7 |
| ③ | 133 | φ8 | 50 | 176 |
| ④ | 173 | φ12 | 25 | 494 |
| ⑤ | 173 | φ10 | 25 | 186 |
| ⑥ | 592.8~328.7 | φ10 | 10 | 592.8~328.7 |
| ⑦ | 592.8~328.7 | φ12 | 10 | 592.8~328.7 |
| ⑧ | 61 | φ8 | 50 | 71 |

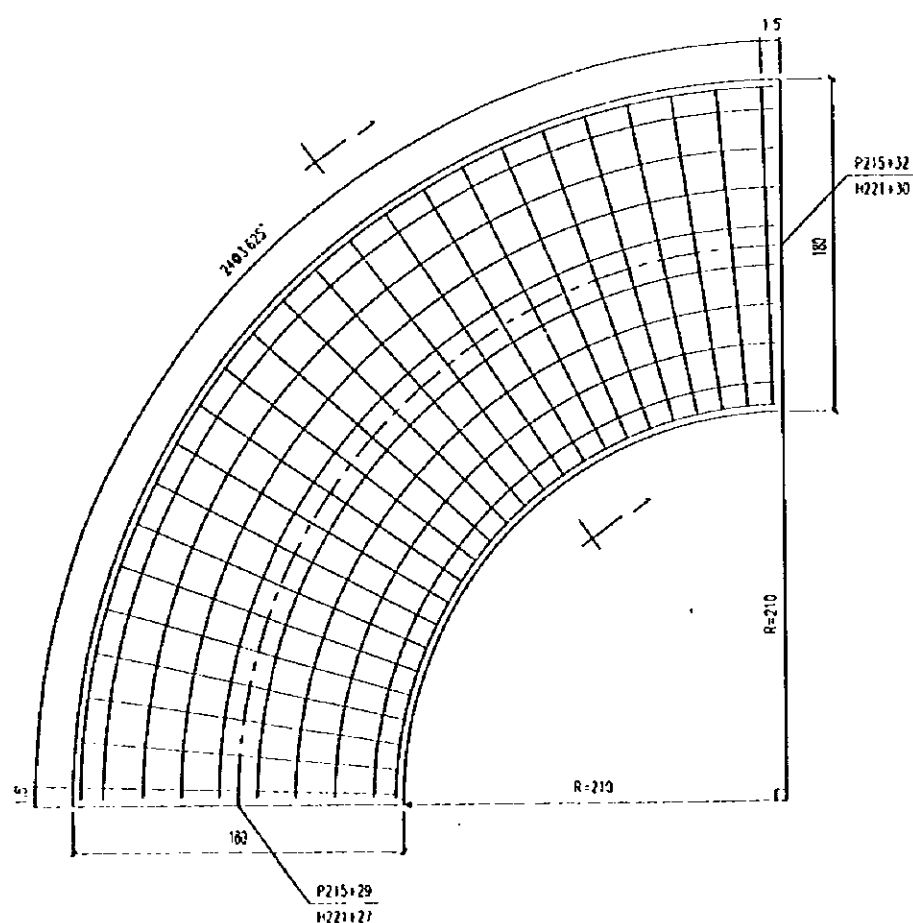


PLAN OF REINFORCEMENT FOR
SPECIAL COVER AT THE TURNING

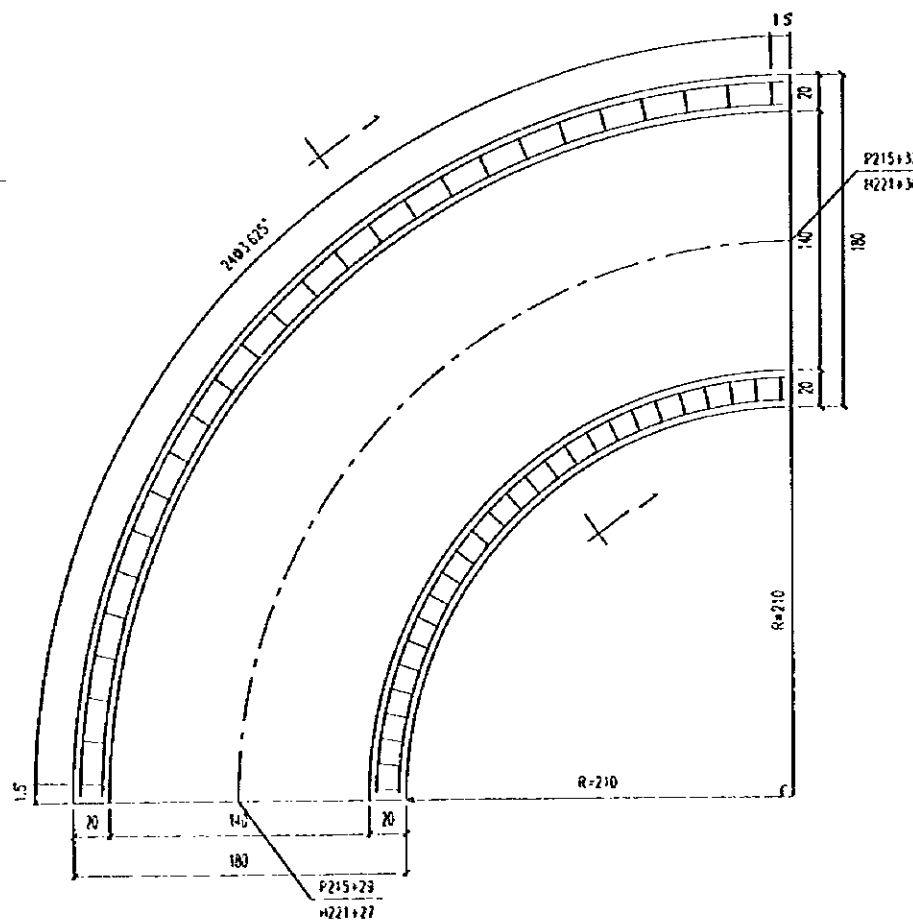
(TOTAL NO'S : 6)



A—A



PLAN OF REINFORCEMENT FOR BOTTOM SLAB



PLAN OF REINFORCEMENT FOR THE TOP OF WALL

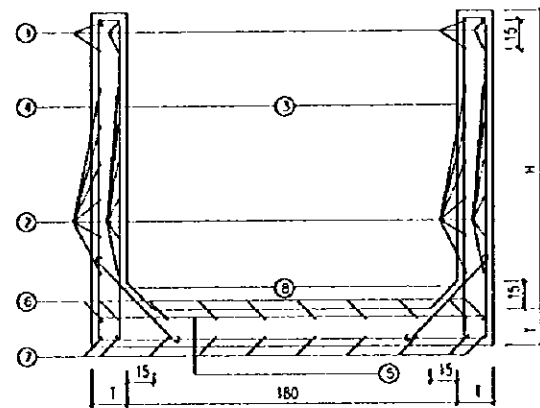
QUANTITIES

| TITLE | φ8 | φ10 | φ12 | φ14 | C25 CONCRETE | C30 CONCRETE |
|----------------|----|-----|-----|-----|----------------|----------------|
| | kg | kg | kg | kg | m ³ | m ³ |
| DITCH | 86 | 58 | 184 | — | 4.44 | — |
| SPECIAL COVERS | — | 24 | — | 90 | — | 2.10 |

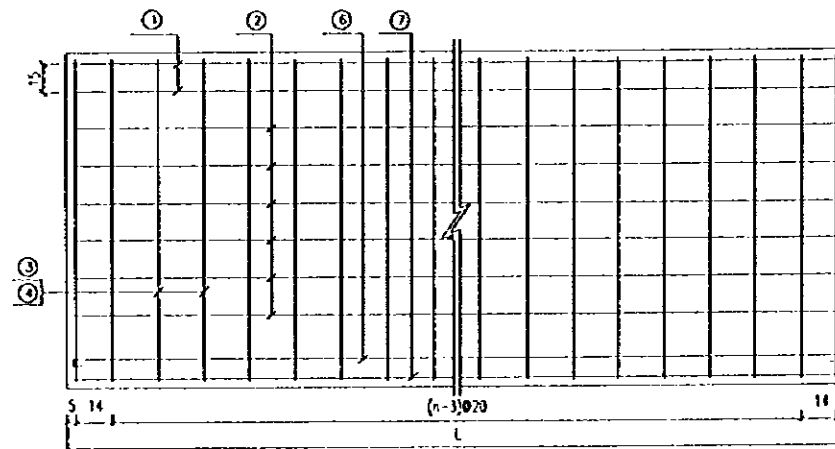
NOTE

- Unit: cm.
- Special covers at the turning are in-situ placed, using C30 concrete.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT FOR TURNING OF TYPE 1 RC DITCH (A5) | |
| SCALE | DWG1-DB(41/55) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H | I | t | m | n | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|---|--------------------|---------|----|------|----|-----|----------------------------------|--------|--------|--------|--------------------------------|
| | | | | | | | φ8 | φ10 | φ12 | φ14 | |
| P215+29 R214+02 - P215+29 R213+15 | 1 | 185~200 | 20 | 2698 | 32 | 136 | 416.4 | 743.3 | 430.1 | 1053.2 | 33.145 |
| P215+29 R213+15 - P215+29 R212+15 | 2 | 200~222 | 25 | 1993 | 36 | 101 | 701.9 | 1189.5 | 636.5 | 1768.5 | 66.034 |
| P215+29 R212+15 - P215+29 R211+39 | 1 | 222~231 | 25 | 1593 | 40 | 81 | 305.8 | 492.3 | 254.3 | 715.5 | 27.645 |
| TOTAL | | | | | | | 1424.1 | 2425.1 | 1320.9 | 3477.2 | 126.824 |

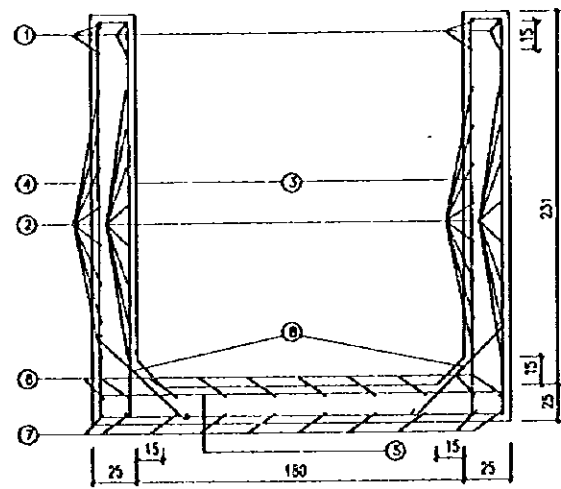
BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|----|--|---------------|------|------------|-------------|
| ① | L-7 | φ12 | 8 | --- | L-7 |
| ② | L-7 | φ8 | m | 20 | L-7 |
| ③ | $\left[\begin{array}{l} 150 \\ 200 \end{array} \right] \times \left[\begin{array}{l} 200 \\ 250 \end{array} \right]$ | φ10 | 2n | 20 | H+39 |
| | | φ10 | 2n | 20 | H+49 |
| ④ | $\left[\begin{array}{l} 150 \\ 220 \end{array} \right] \times \left[\begin{array}{l} 200 \\ 250 \end{array} \right]$ | φ14 | n | 20 | 2H+257 |
| | | φ14 | n | 20 | 2H+277 |
| ⑤ | $\left[\begin{array}{l} 213 \\ 223 \end{array} \right] \times \left[\begin{array}{l} H < 200 \\ 200 \end{array} \right]$ | φ10 | n | 05③ | 226 |
| | | φ10 | n | 05③ | 236 |
| ⑥ | L-7 | φ10 | 10 | --- | L+6 |
| ⑦ | L-7 | φ12 | 10 | --- | L-7 |
| ⑧ | $\left[\begin{array}{l} 61 \\ 75 \end{array} \right] \times \left[\begin{array}{l} H < 200 \\ 200 \end{array} \right]$ | φ8 | 2n | 05③ | 71 |
| | | φ8 | 2n | 05③ | 85 |

NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 RC DITCH(A6) | |
| SCALE $\frac{1}{100}$ | DWG1-08(12/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |

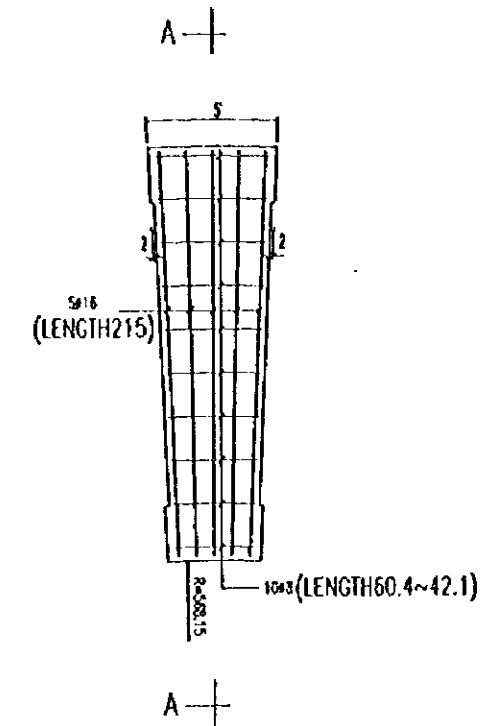


CROSS SECTION OF REINFORCEMENT
(TYPE 1 RC DITCH)

(1-1)

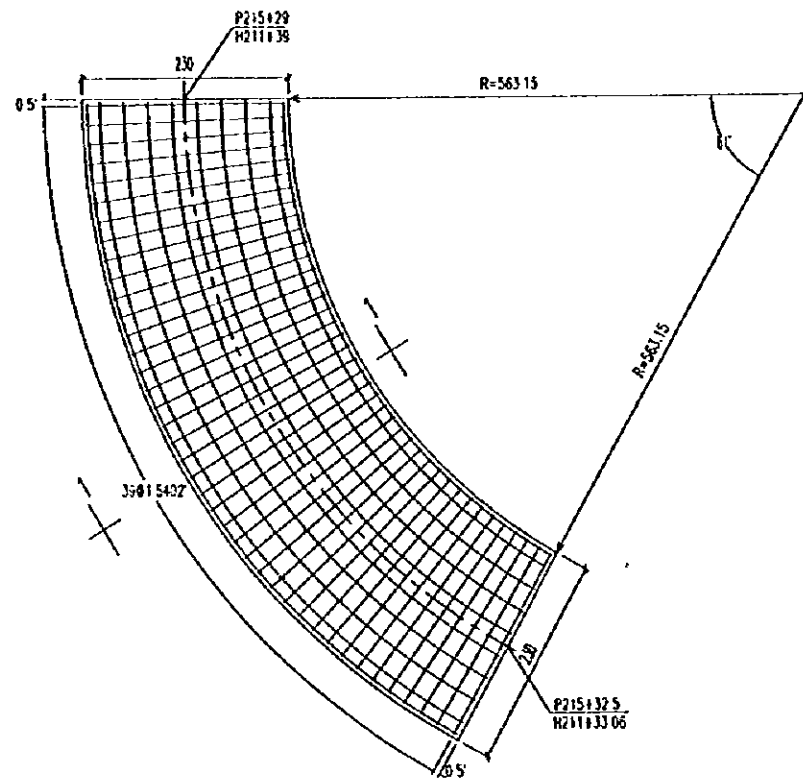
BENDING SCHEDULE

| No. | Shape (cm) | Di. (mm) | No's | Length (cm) |
|-----|-------------|----------|------|-------------|
| ① | 832.4~599.2 | ∅12 | 8 | 832.4~599.2 |
| ② | 832.4~599.2 | ∅8 | 32 | 832.4~599.2 |
| ③ | | ∅10 | 80 | 280 |
| ④ | | ∅14 | 40 | 739 |
| ⑤ | | ∅10 | 40 | 236 |
| ⑥ | 832.4~599.2 | ∅10 | 10 | 832.4~599.2 |
| ⑦ | 832.4~599.2 | ∅12 | 10 | 832.4~599.2 |
| ⑧ | | ∅8 | 80 | 85 |



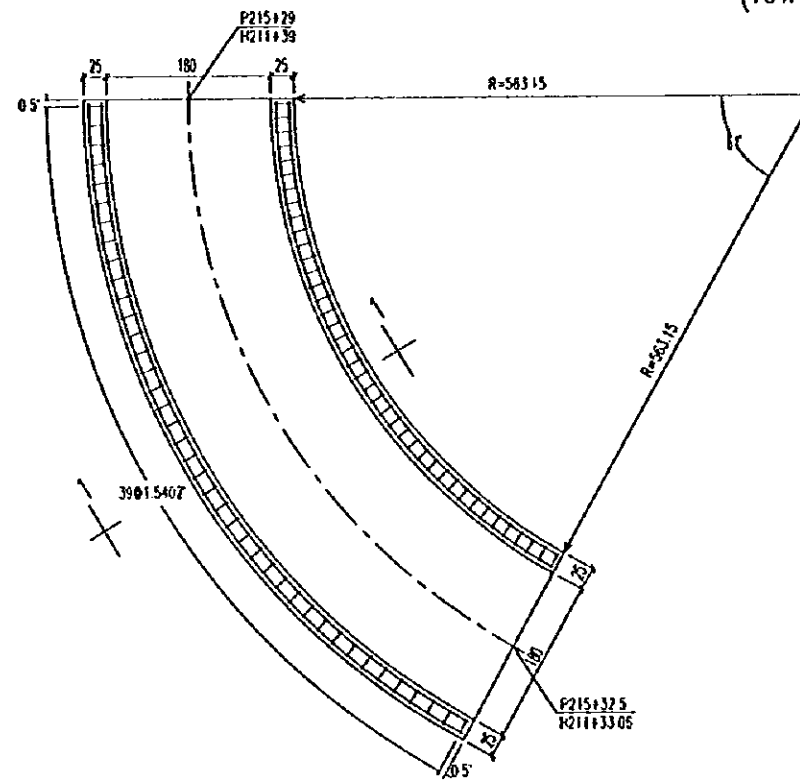
PLAN OF REINFORCEMENT FOR
SPECIAL COVER AT THE TURNING

(TOTAL NO'S : 12)



PLAN OF REINFORCEMENT FOR BOTTOM SLAB

(1:40)



PLAN OF REINFORCEMENT FOR THE TOP OF WALL

(1:40)

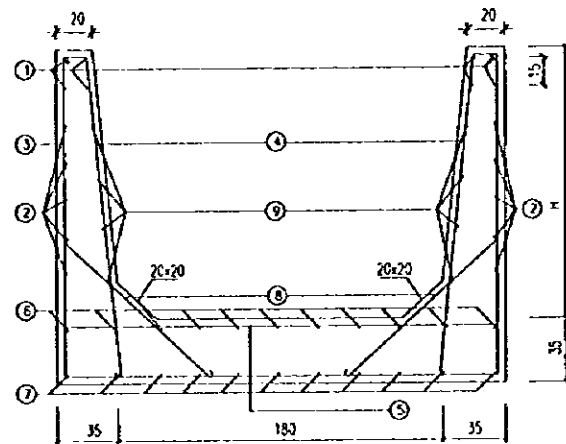
QUANTITIES

| TYPE | ∅8 | ∅10 | ∅12 | ∅14 | C25 CONCRETE | C30 CONCRETE |
|----------------|-----|-----|-----|-----|----------------|----------------|
| | kg | kg | kg | kg | m ³ | m ³ |
| DITCH | 241 | 114 | 358 | — | 12.64 | — |
| SPECIAL COVERS | — | — | — | 204 | — | 3.96 |

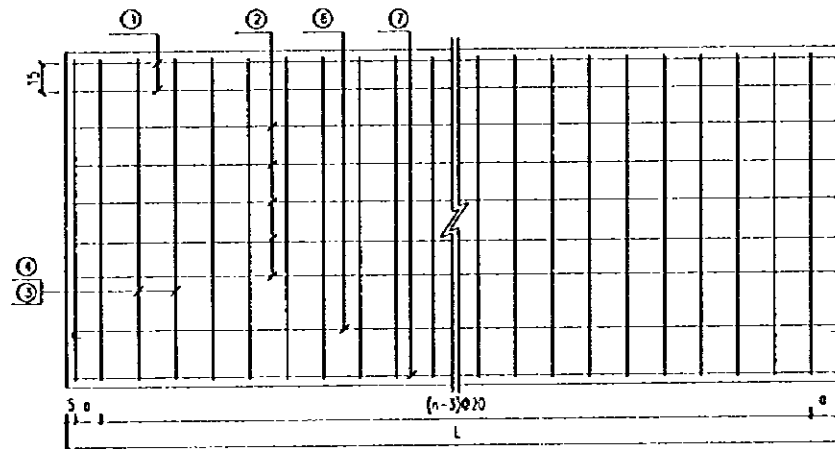
NOTE

- Unit: cm .
- Special covers at the turning are in-situ placed, using C30 concrete .
- Scale : 1:20 , except otherwise shown .

| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997 | |
| REINFORCEMENT FOR TURNING OF TYPE 1 U-SHAPE RC DITCH (A5) | |
| SCALE AS NOTED | DWG1-08(13/BS) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ12 | 8 | — | L-7 |
| ② | L-7 | φ8 | m1 | 20 | L-7 |
| ③ | [20] 20 | φ14 | n | 20 | 2H+317 |
| ④ | [11] 20 | φ8 | 2n | 20 | H+52 |
| ⑤ | [20] 20 | φ10 | n | 20 | 256 |
| ⑥ | L-7 | φ10 | 11 | — | L+6 |
| ⑦ | L-7 | φ12 | 11 | — | L-7 |
| ⑧ | [109] | φ8 | 2n | 20 | 119 |
| ⑨ | L-7 | φ8 | m2 | 30 | L-7 |

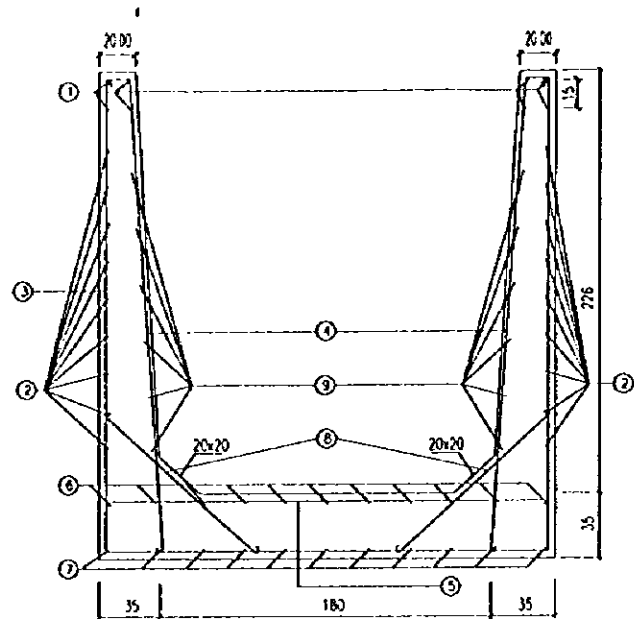
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | LENGTH (cm) | | | | | | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|-----------------------------|--------------------|-------------|------|------|----|----|-----|----------------------------------|--------|--------|--------|--------------------------------|
| | | H | L | a | m1 | m2 | n | φ8 | φ10 | φ12 | φ14 | |
| P217+22.52 H210+34.35 | 1 | 239~226 | 2466 | 18 | 20 | 12 | 124 | 706.1 | 363.6 | 414.9 | 1173.3 | 54.098 |
| P218+8.5 H210+15 | 1 | 226~22 | 1498 | 14 | 20 | 12 | 76 | 427.1 | 222.1 | 251.6 | 708.1 | 32.368 |
| P218+8.5 H210+00 | 2 | 227~23 | 1938 | 14 | 20 | 12 | 101 | 1141.6 | 591.1 | 671.8 | 1894.3 | 86.893 |
| P218+8.5 H209+00 | 1 | 231~263 | 1963 | 16.5 | 22 | 14 | 99 | 605.1 | 290.0 | 330.0 | 971.5 | 44.629 |
| TOTAL | | | | | | | | 2879.9 | 1466.8 | 1668.3 | 4747.2 | 217.988 |

NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A6) | |
| SCALE 1:20 | DWG: D8(44/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



CROSS SECTION OF REINFORCEMENT
(TYPE 1 U-SHAPE RC DITCH)

BENDING SCHEDULE

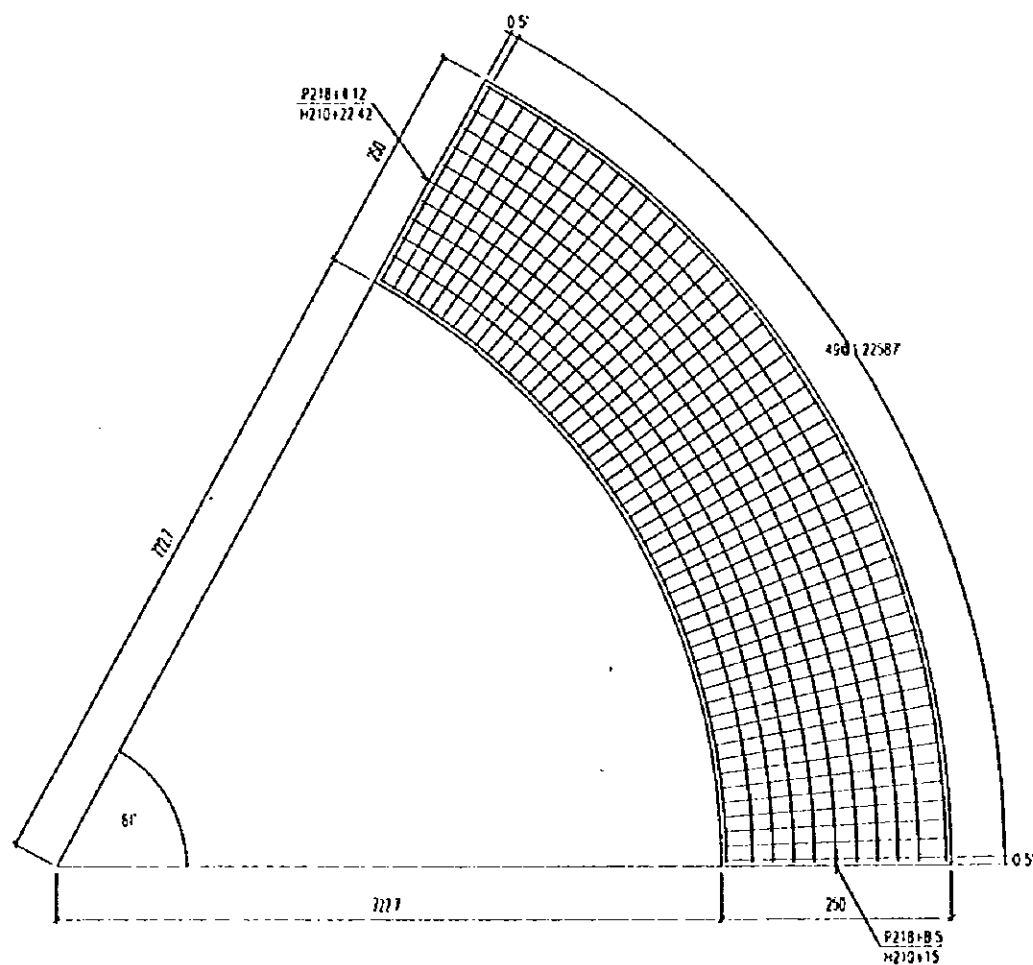
| No. | Shape (cm) | Dia. (mm) | No's | Length (cm) |
|-----|------------|-----------|------|--------------|
| ① | | φ12 | 8 | 769.1~1023.8 |
| ② | | φ8 | 18 | 769.1~1023.8 |
| ③ | | φ14 | 50 | 769 |
| ④ | | φ8 | 100 | 278 |
| ⑤ | | φ10 | 50 | 256 |
| ⑥ | | φ10 | 11 | 769.1~1023.8 |
| ⑦ | | φ12 | 11 | 769.1~1023.8 |
| ⑧ | | φ8 | 100 | 119 |
| ⑨ | | φ8 | 12 | 782.6~1010.3 |

QUANTITIES

| φ8 | φ10 | φ12 | φ14 | C25 CONCRETE |
|-----|-----|-----|-----|----------------|
| kg | kg | kg | kg | m ³ |
| 263 | 140 | 120 | 466 | 19.50 |

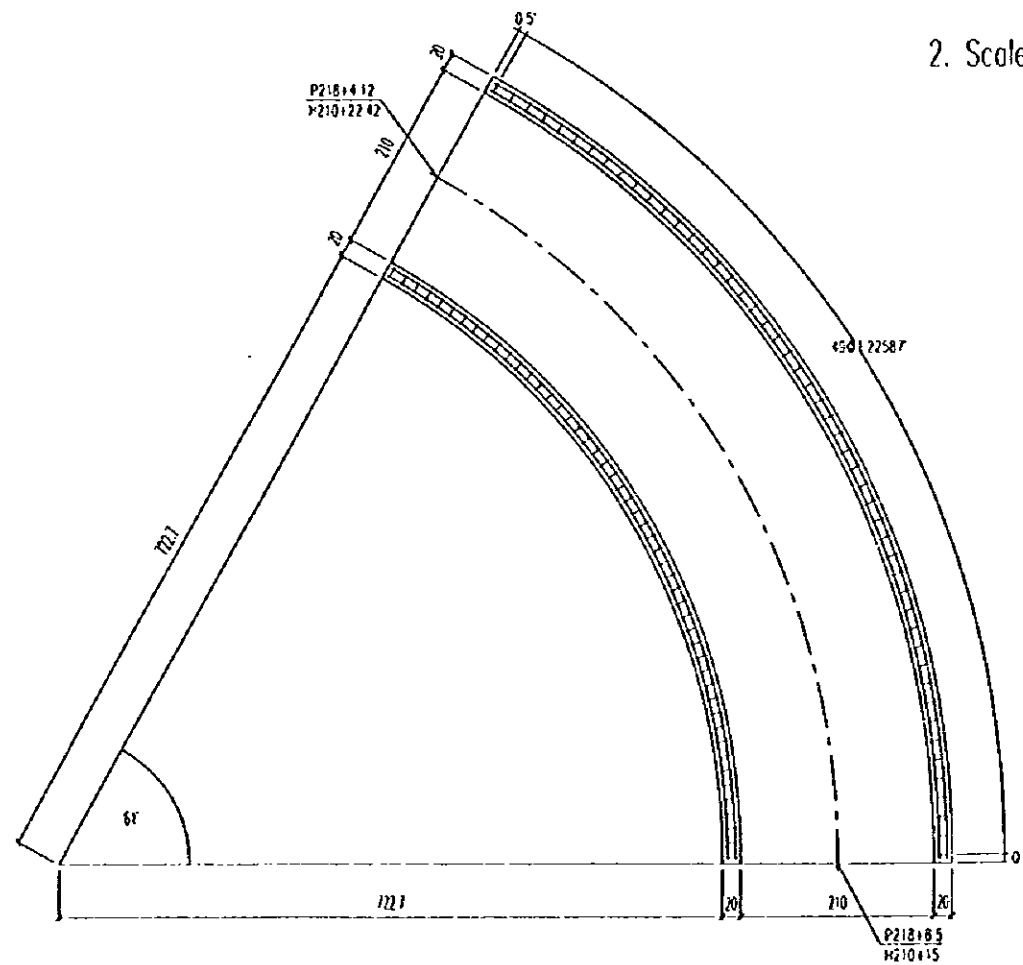
NOTE

1. Unit: cm .
2. Scale : 1:20 , except otherwise shown .



PLAN OF REINFORCEMENT FOR BOTTOM SLAB

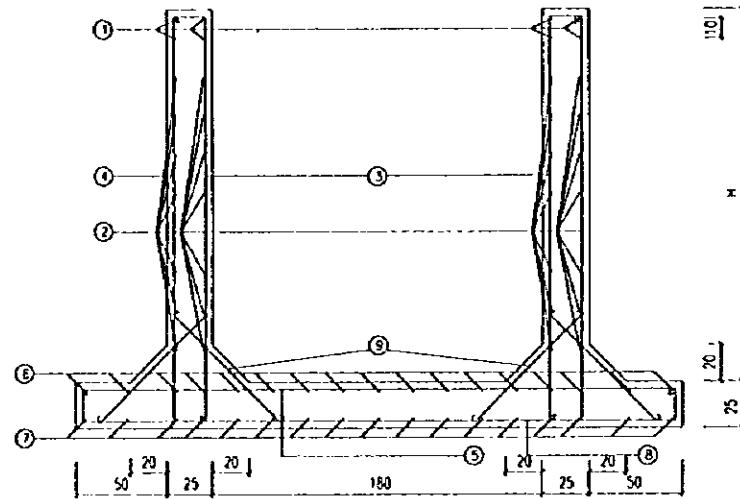
(1:40)



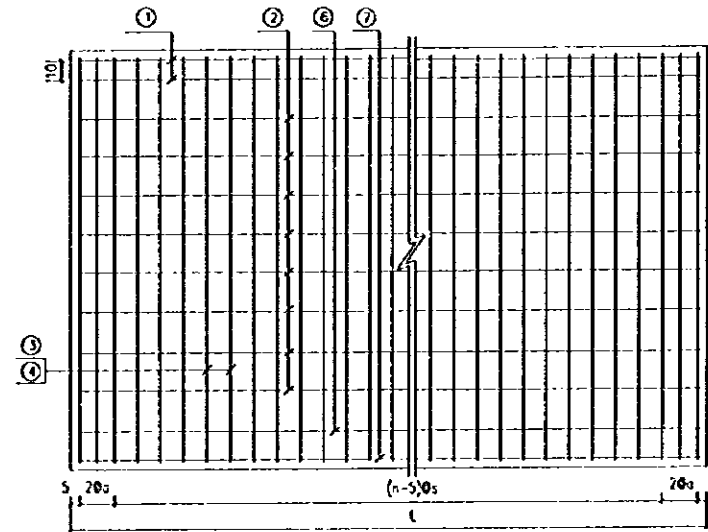
PLAN OF REINFORCEMENT FOR THE TOP OF WALL

(1:40)

| | | |
|---|----------------|----------------|
| PEOPLE'S REPUBLIC OF CHINA | | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 | |
| REINFORCEMENT FOR TURNING OF TYPE 1 U-SHAPE RC DITCH (AE) | | |
| SCALE | AS NOTED | DWG1-D8(45/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

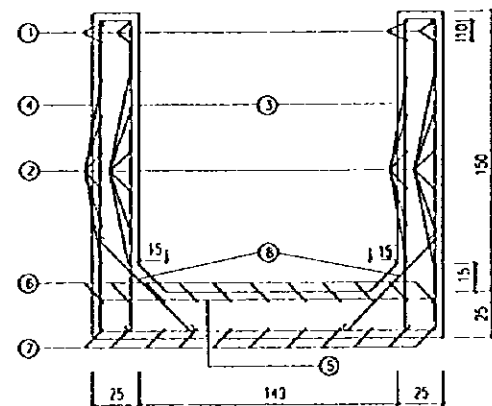
| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|------------|---------------|------|------------|-------------|
| ① | 1991 | φ16 | 8 | — | 1991 |
| ② | 1991 | φ10 | m | 20 | 1991 |
| ③ | 18 18 | 120CHx165 | 2n | 16 | H+51 |
| | | 160CHx200 | 2n | 12.5 | H+51 |
| ④ | 18 18 | 120CHx165 | 2n | 16 | H+54 |
| | | 160CHx200 | 2n | 12.5 | H+56 |
| ⑤ | 323 | φ16 | n | OS③ | 343 |
| ⑥ | 1991 | φ18 | 17 | — | 1991 |
| ⑦ | 1991 | φ18 | 17 | — | 1991 |
| ⑧ | 373 | 120CHx165 | n | OS③ | 377 |
| | | 160CHx200 | n | OS③ | 379 |
| ⑨ | 82 | φ10 | 4n | OS③ | 95 |

SEGMENTS AND QUANTITIES OF MATERIALS

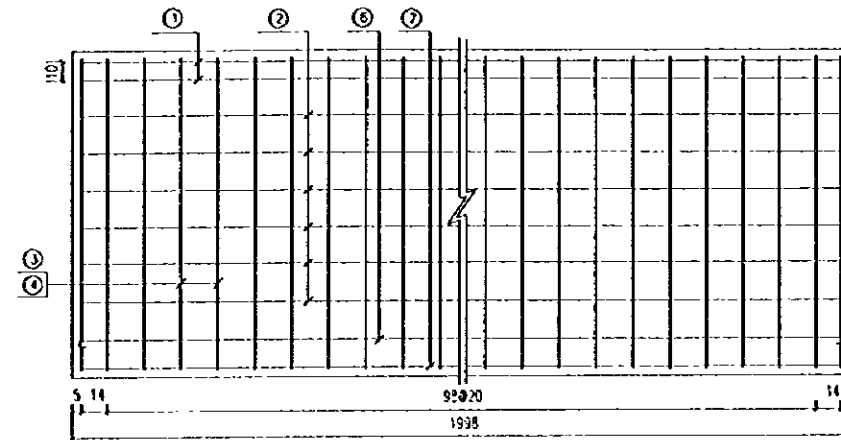
| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H | L S a m n | | | | | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|--|--------------------|-----|-----------|------|-----|----|-----|----------------------------------|--------|--------|---------|---------|--------------------------------|
| | | | (cm) | | | | | φ10 | φ12 | φ14 | φ16 | φ18 | |
| P215+32.5 P217+22.5 H211+33.06 H210+34.36 | 4 | 160 | 1998 | 16 | 13 | 28 | 126 | 2557.5 | 1888.7 | 4909.2 | 3738.0 | 5415.5 | 136.264 |
| P218+8.5 P218+8.5 H208+20.35 H206+20.35 | 4 | 200 | 1998 | 12.5 | 9.5 | 36 | 161 | 3278.9 | 2870.8 | 0 | 13562.9 | 5415.5 | 152.248 |
| P218+8.5 P218+8.5 H206+20.35 H206+12.35 | 1 | 200 | 798 | 12.5 | 9.5 | 36 | 65 | 328.1 | 289.8 | 0 | 1367.3 | 537.9 | 15.202 |
| TOTAL | | | | | | | | 6164.5 | 5049.3 | 4909.2 | 18668.2 | 11368.9 | 303.714 |

NOTE:
1. Unit : cm.

| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDDING INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(A6) | |
| SCALE 1:200 | DWG1-D8(46/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 3 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

P215+29 - P215+29
H216+35 H218+15 BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1331 | Ø14 | 8 | — | 1931 | 159.28 | 192.7 |
| ② | 1331 | Ø10 | 24 | — | 1931 | 477.84 | 294.8 |
| ③ | | Ø12 | 202 | 20 | 201 | 406.02 | 360.5 |
| ④ | | Ø12 | 101 | 20 | 534 | 539.31 | 478.9 |
| ⑤ | | Ø14 | 101 | 20 | 201 | 203.01 | 245.6 |
| ⑥ | | Ø14 | 11 | — | 2009 | 220.99 | 267.4 |
| ⑦ | 1331 | Ø14 | 11 | — | 1931 | 219.01 | 265.0 |
| ⑧ | | Ø10 | 202 | 20 | 83 | 177.76 | 109.7 |

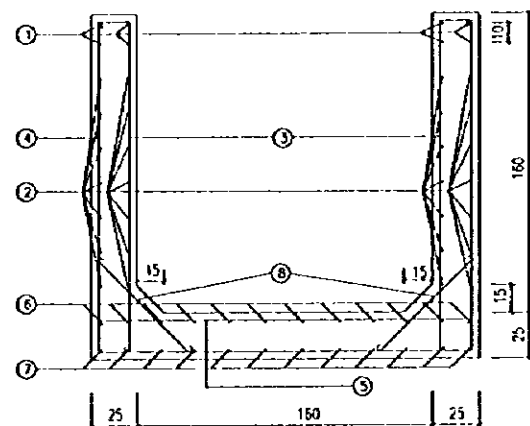
QUANTITIES OF MATERIALS

| Ø10 (kg) | Ø12 (kg) | Ø14 (kg) | C25 CONCRETE (m³) |
|----------|----------|----------|-------------------|
| 404.5 | 839.4 | 970.7 | 24.925 |

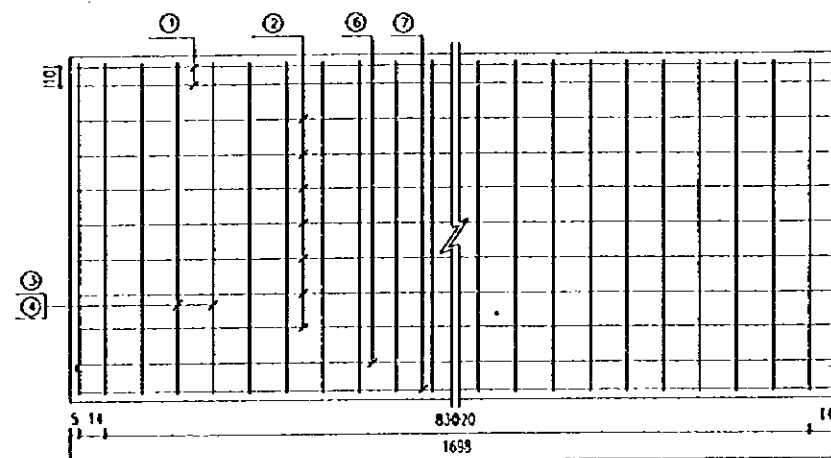
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 3 RC CULVERT(A6) | |
| SCALE | DWG-08(47/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 3 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|----|------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1691 | φ14 | 8 | --- | 1691 | 135.28 | 163.7 |
| ② | 1691 | φ10 | 28 | --- | 1691 | 473.48 | 292.1 |
| ③ | | φ12 | 172 | 20 | 211 | 362.92 | 322.3 |
| ④ | | φ12 | 86 | 20 | 574 | 493.64 | 438.4 |
| ⑤ | | φ16 | 86 | 20 | 223 | 191.78 | 303.0 |
| ⑥ | 1691 | φ14 | 12 | --- | 1709 | 205.08 | 248.1 |
| ⑦ | 1691 | φ14 | 12 | --- | 1691 | 202.92 | 245.5 |
| ⑧ | | φ10 | 172 | 20 | 88 | 151.36 | 93.4 |

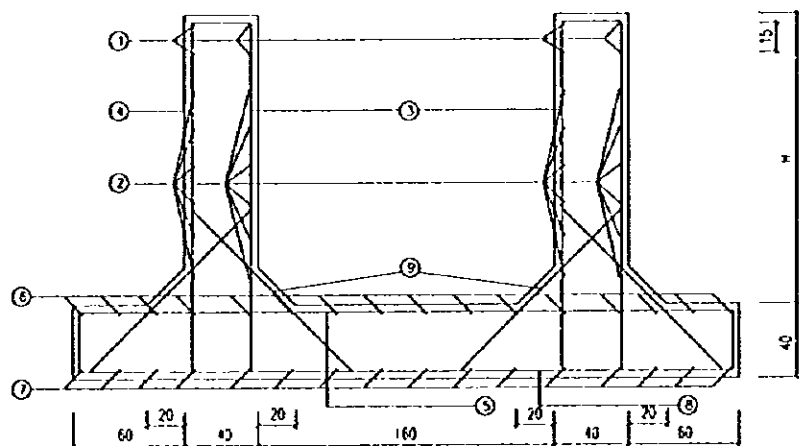
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) | |
|-----------------------------|--------------------|----------------------------------|-------|-------|-------|--------------------------------|--------|
| | | φ10 | φ12 | φ14 | φ16 | | |
| P215+29 H214+19 | P215+29 H214+02 | 1 | 385.5 | 760.7 | 657.3 | 303.0 | 22.881 |
| TOTAL | | | 385.5 | 760.7 | 657.3 | 303.0 | 22.881 |

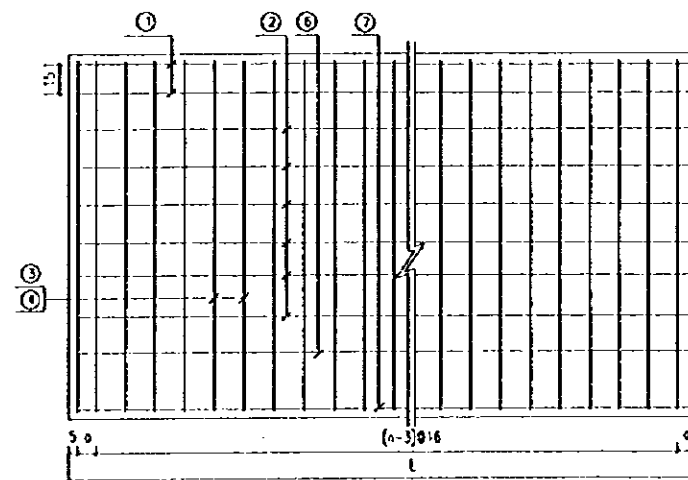
NOTE:

1. Unit : cm.

| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997 | |
| REINFORCEMENT OF TYPE 3 RC CULVERT(A5) | |
| SCALE | DWG1-DB(49/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ25 | 8 | --- | L-7 |
| ② | L-7 | φ10 | m | --- | L-7 |
| ③ | | φ16 | 2n | 16 | H+65 |
| ④ | | φ20 | 2n | 16 | H+65 |
| ⑤ | -353 | φ16 | n | 16 | 353 |
| ⑥ | L-7 | φ20 | 16 | --- | L-7 |
| ⑦ | L-7 | φ20 | 16 | --- | L-7 |
| ⑧ | | φ20 | n | 16 | 419 |
| ⑨ | -124 | φ12 | 4n | 16 | 124 |

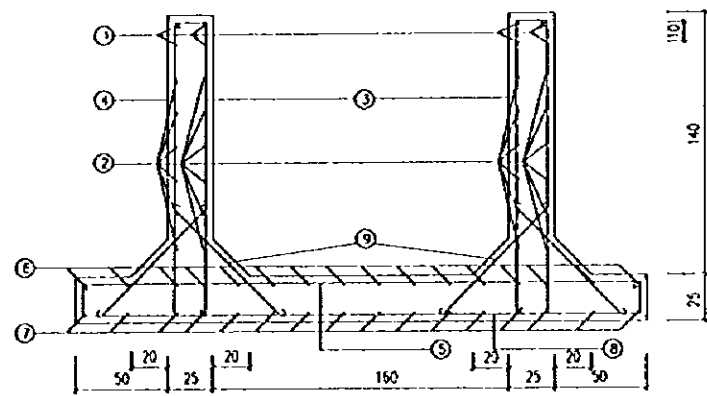
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H (cm) | L (cm) | o | m | n | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|--|--------------------|---------|--------|----|----|-----|----------------------------------|--------|---------|---------|--------|--------------------------------|
| | | | | | | | φ10 | φ12 | φ16 | φ20 | φ25 | |
| P215+00 ~ P215+00 H208+30 ~ H208+30 | 2 | 163 | 1998 | 10 | 28 | 128 | 687.9 | 1109.9 | 3229.1 | 8602.7 | 1228.7 | 112.847 |
| P215+00 ~ P209+00 H208+30 ~ H208+30 | 12 | 163~186 | 1998 | 10 | 32 | 128 | 4717.2 | 6659.6 | 19923.9 | 52474.7 | 7372.1 | 699.140 |
| P203+00 ~ P208+33 H208+30 ~ H208+30 | 1 | 186~187 | 698 | 8 | 32 | 45 | 136.4 | 198.2 | 610.0 | 1572.6 | 213.2 | 21.024 |
| TOTAL | | | | | | | 5541.5 | 7967.7 | 23763.0 | 62650.0 | 8814.0 | 833.011 |

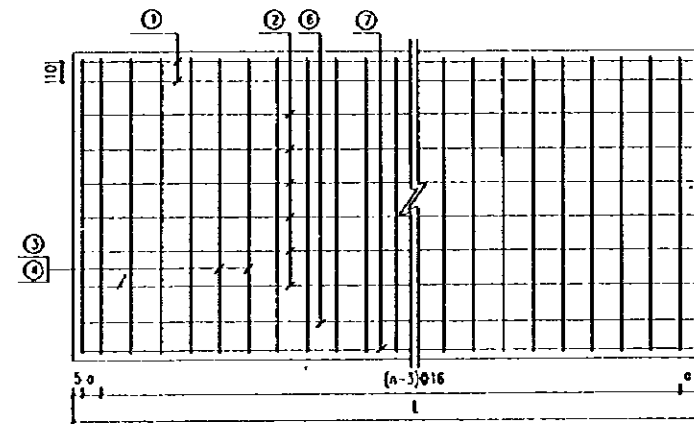
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC DITCH(A7-1) | |
| SCALE | DWG1-E8(19/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ16 | 8 | — | L-7 |
| ② | L-7 | φ10 | 24 | — | L-7 |
| ③ | | φ12 | 2n | 16 | 191 |
| ④ | | φ14 | 2n | 16 | 194 |
| ⑤ | | φ14 | n | 16 | 321 |
| ⑥ | L-7 | φ18 | 16 | — | L-7 |
| ⑦ | L-7 | φ18 | 16 | — | L-7 |
| ⑧ | | φ12 | n | 16 | 354 |
| ⑨ | | φ10 | 4n | 16 | 95 |

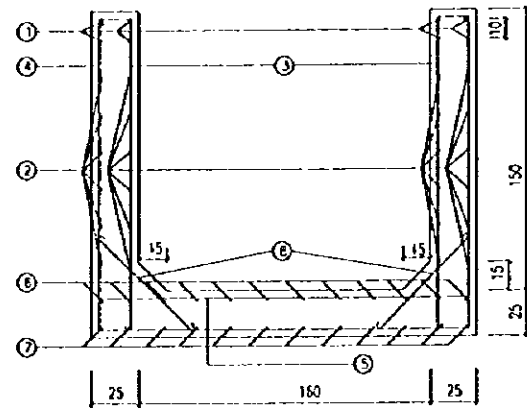
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | L (cm) | a | n | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|--|--------------------|--------|----|-----|----------------------------------|--------|--------|-------|--------|--------------------------------|
| | | | | | φ10 | φ12 | φ14 | φ16 | φ18 | |
| P207+10 ~ P207+10 H208+10.35 ~ H206+30.35 | 3 | 1998 | 10 | 126 | 1770.7 | 1282.2 | 4875.7 | 755.0 | 3822.7 | 93.207 |
| P207+10 ~ P207+10 H206+30.35 ~ H206+12.35 | 1 | 1798 | 14 | 113 | 530.2 | 383.3 | 1457.5 | 226.4 | 1146.2 | 27.959 |
| TOTAL | | | | | 2300.9 | 1665.5 | 6333.2 | 981.4 | 4968.9 | 121.166 |

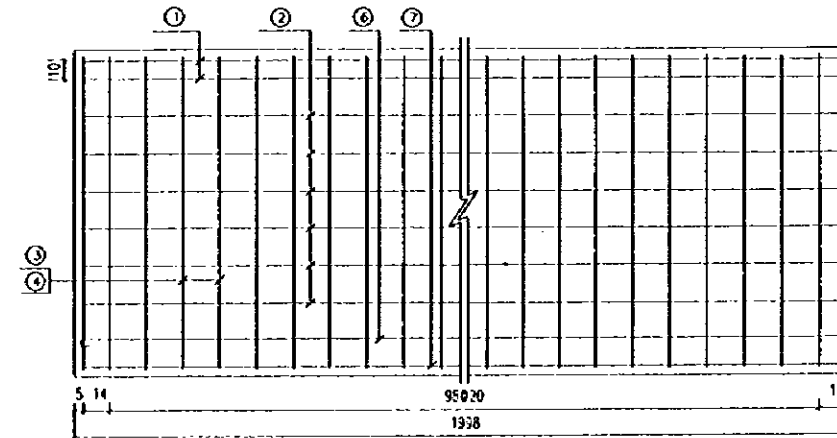
NOTE:

1. Unit : cm.

| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDDING INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(A7-1) | |
| SCALE | CNC1-D8(50/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 3 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

REVISIONS: P291103, P291120, H136105, H136105
BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|----|--|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1991 | φ14 | 8 | --- | 1991 | 159.28 | 192.7 |
| ② | 1931 | φ10 | 24 | 20 | 1991 | 477.84 | 294.8 |
| ③ | $\left. \begin{array}{l} 15 \\ 15 \end{array} \right\} 30$ | φ12 | 202 | 20 | 201 | 406.02 | 360.5 |
| ④ | $\left. \begin{array}{l} 15 \\ 20 \end{array} \right\} 35$ | φ12 | 101 | 20 | 554 | 559.54 | 496.9 |
| ⑤ | 203 | φ16 | 101 | 20 | 223 | 225.23 | 355.9 |
| ⑥ | 1931 | φ14 | 12 | --- | 2009 | 241.08 | 291.7 |
| ⑦ | 1931 | φ14 | 12 | --- | 1991 | 238.92 | 289.1 |
| ⑧ | 75 | φ10 | 202 | 20 | 88 | 177.76 | 109.7 |

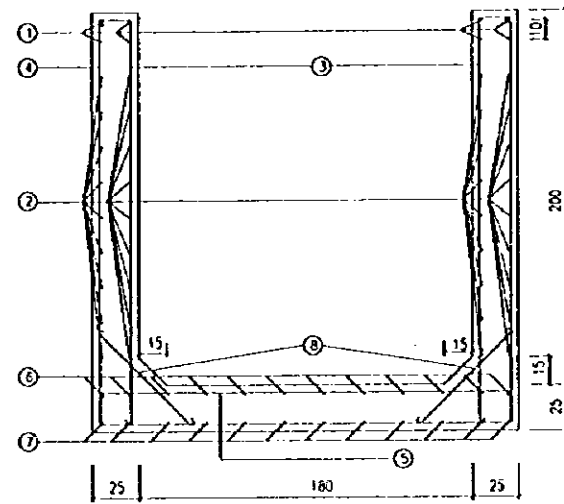
QUANTITIES OF MATERIALS

| φ10 (kg) | φ12 (kg) | φ14 (kg) | φ16 (kg) | C25 CONCRETE (m ³) |
|----------|----------|----------|----------|--------------------------------|
| 404.5 | 857.4 | 773.5 | 355.9 | 25.924 |

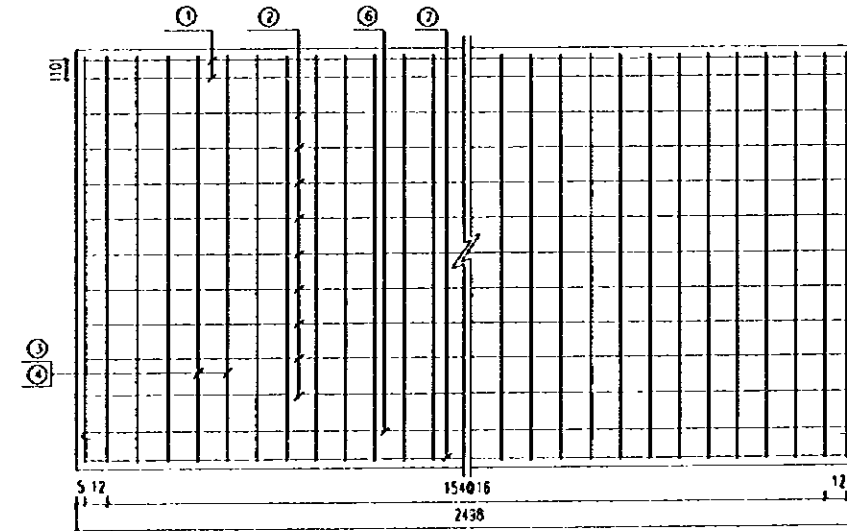
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 3 RC CULVERT(B1) | |
| SCALE | 1:200 |
| DWG. DB(52/85) | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 3 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|--|---------------|------|------------|-------------|------------------|-------------------|
| ① | — 2491 | φ14 | 8 | --- | 2491 | 199.28 | 241.1 |
| ② | — 2491 | φ10 | 36 | 20 | 2491 | 896.76 | 553.3 |
| ③ | $\left[\begin{array}{c} 16 \\ 223 \end{array} \right]_{16}$ | φ12 | 314 | 16 | 251 | 788.14 | 699.9 |
| ④ | $\left[\begin{array}{c} 16 \\ 223 \end{array} \right]_{16}$ | φ14 | 157 | 16 | 674 | 1058.18 | 1280.4 |
| ⑤ | — 223 | φ16 | 157 | 16 | 243 | 381.51 | 602.8 |
| ⑥ | — 2491 | φ14 | 12 | --- | 2509 | 301.08 | 364.3 |
| ⑦ | — 2491 | φ14 | 12 | --- | 2491 | 298.92 | 361.7 |
| ⑧ | — 75 | φ10 | 314 | 16 | 88 | 276.32 | 170.5 |

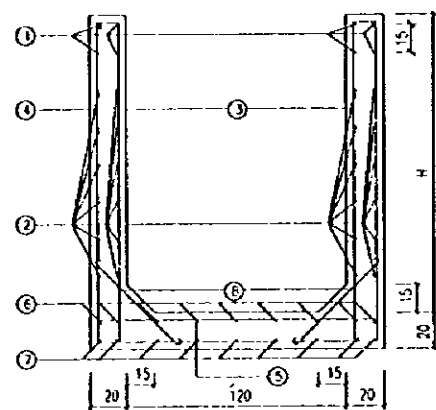
QUANTITIES OF MATERIALS

| φ10 (kg) | φ12 (kg) | φ14 (kg) | φ16 (kg) | C25 CONCRETE (m ³) |
|----------|----------|----------|----------|--------------------------------|
| 723.8 | 699.9 | 2247.5 | 602.8 | 39.906 |

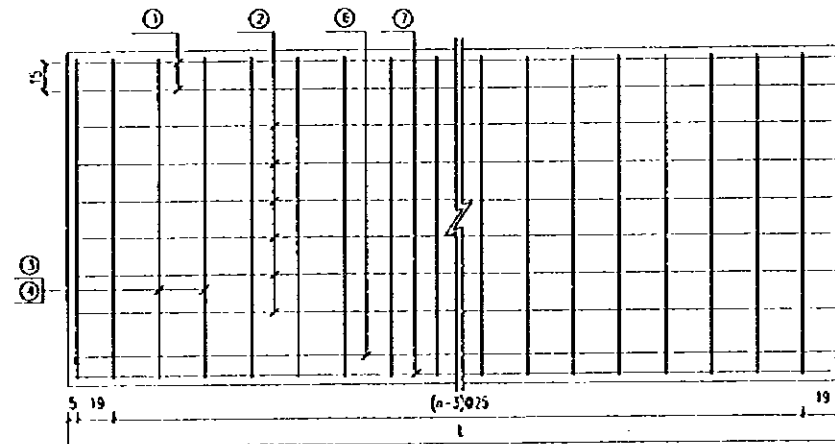
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 3 RC CULVERT (B1) | |
| SCALE | DWG1 DB(53/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H (cm) | L (cm) | m | n | QUANTITIES OF REINFORCEMENT (m) | | | C25 CONCRETE (m ³) |
|--|--------------------|---------|--------|----|----|---------------------------------|-------|-------|--------------------------------|
| | | | | | | ø8 | ø10 | ø12 | |
| P252+20 P252+34.55 H202+10.83 H202+17.5 | 1 | 119~99 | 1598 | 16 | 65 | 211.5 | 155.6 | 478.0 | 12.440 |
| P253+06 P253+20 H202+20 H202+20 | 1 | 92.6~94 | 1398 | 12 | 57 | 156.1 | 136.3 | 402.6 | 10.006 |
| TOTAL | | | | | | 367.6 | 291.9 | 880.6 | 22.446 |

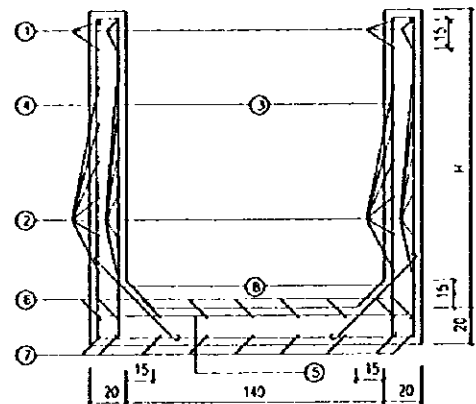
BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|--|---------------|------|------------|-------------|
| ① | L-7 | ø12 | 8 | — | L-7 |
| ② | L-7 | ø8 | m | — | L-7 |
| ③ | $\left[\begin{array}{c} 13 \\ \hline 2 \\ \hline 2 \end{array} \right]$ | ø8 | 2n | 25 | H+36 |
| ④ | $\left[\begin{array}{c} 13 \\ \hline 153 \\ \hline 2 \end{array} \right]$ | ø12 | n | 25 | 2H+194 |
| ⑤ | $\left[\begin{array}{c} 153 \\ \hline 2 \end{array} \right]$ | ø10 | n | 25 | 166 |
| ⑥ | L-7 | ø10 | 9 | — | L+6 |
| ⑦ | L-7 | ø12 | 9 | — | L-7 |
| ⑧ | $\left[\begin{array}{c} 61 \\ \hline 2 \end{array} \right]$ | ø8 | 2n | 25 | 71 |

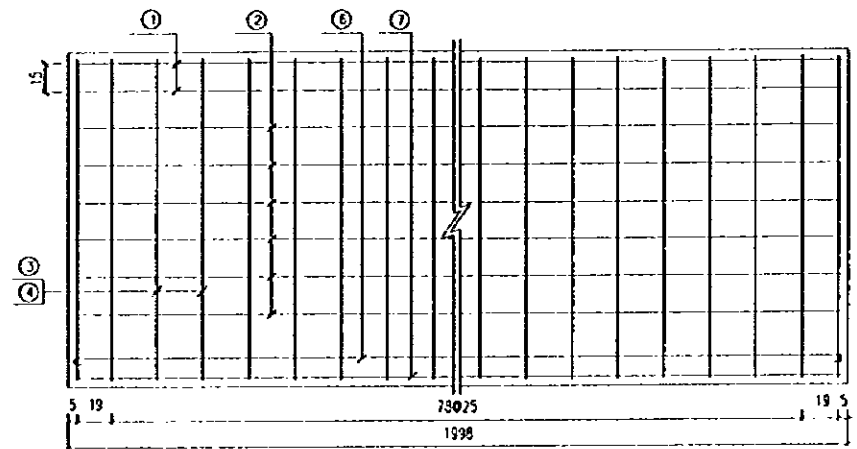
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 RC DITCH(B2) | |
| SCALE | DWG-08(54/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

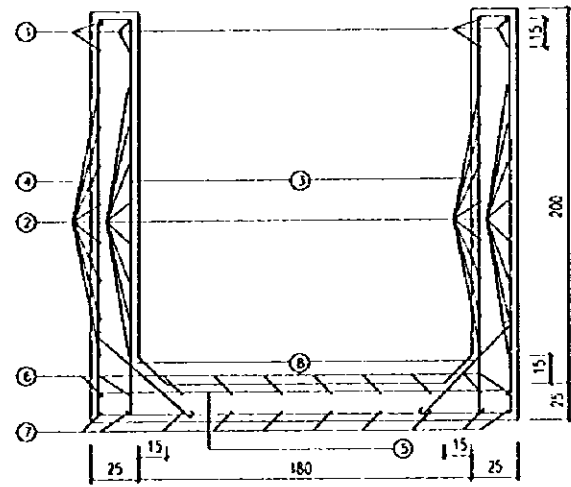
BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|------------|---------------|------|------------|-------------|
| ① | 1991 | φ12 | 8 | — | 1991 |
| ② | 1991 | φ8 | m | — | 1991 |
| ③ | | φ8 | 162 | 25 | H+36 |
| ④ | | φ12 | 81 | 25 | 2H+214 |
| ⑤ | | φ10 | 81 | 25 | 186 |
| ⑥ | 1991 | φ10 | 9 | — | 2004 |
| ⑦ | 1991 | φ12 | 9 | — | 1991 |
| ⑧ | | φ8 | 162 | 25 | 71 |

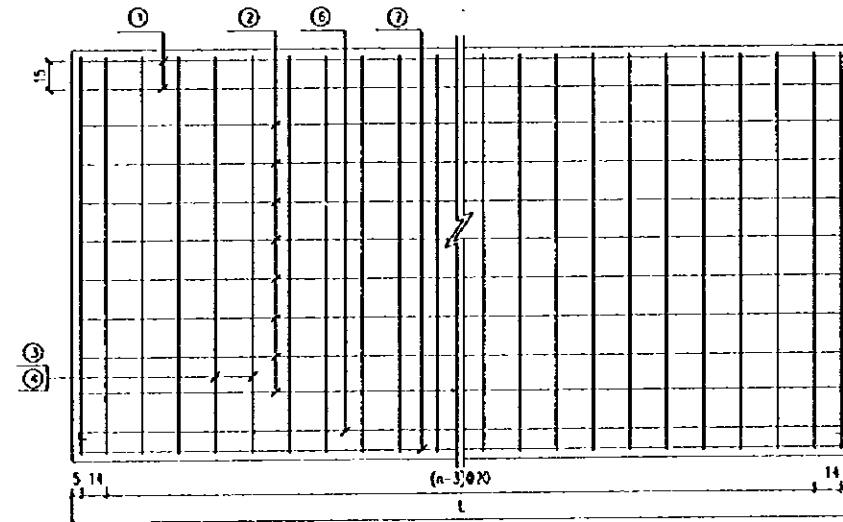
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H (cm) | m | QUANTITIES OF REINFORCEMENT (kg) | | | C25 CONCRETE (m ³) |
|--|--------------------|---------|----|----------------------------------|--------|--------|--------------------------------|
| | | | | φ8 | φ10 | φ12 | |
| P257+20 ~ P257+00 H202+20 ~ H202+20 | 7 | 94~107 | 12 | 1590.1 | 1429.7 | 4193.4 | 109.720 |
| P257+20 ~ P258+20 H202+20 ~ H202+20 | 2 | 109~133 | 16 | 546.7 | 408.5 | 1764.3 | 35.025 |
| TOTAL | | | | 2136.8 | 1838.2 | 5457.7 | 144.745 |

NOTE:
1. Unit : cm.



REINFORCEMENT OF TYPE 1 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|----|------------|---------------|------|------------|-------------|
| ① | L-7 | Ø12 | 8 | -- | L-7 |
| ② | L-7 | Ø8 | 32 | -- | L-7 |
| ③ | | Ø10 | 2n | 20 | 249 |
| ④ | | Ø14 | n | 20 | 677 |
| ⑤ | | Ø10 | n | 20 | 236 |
| ⑥ | L-7 | Ø10 | 10 | -- | L+6 |
| ⑦ | L-7 | Ø12 | 10 | -- | L-7 |
| ⑧ | | Ø8 | 2n | 20 | 85 |

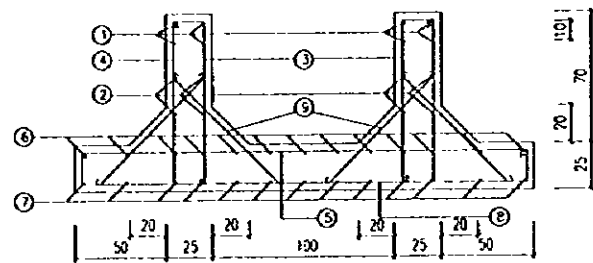
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | L (cm) | n | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|------------------------------------|--------------------|--------|-----|----------------------------------|--------|--------|--------|--------------------------------|
| | | | | Ø8 | Ø10 | Ø12 | Ø14 | |
| P292+08 P292+20 H202+20 H202+20 | 1 | 1198 | 61 | 191.5 | 350.5 | 190.4 | 499.7 | 19.138 |
| P292+20 P293+00 H202+20 H202+20 | 1 | 1998 | 101 | 319.5 | 581.1 | 318.2 | 827.4 | 31.918 |
| P295+00 P296+00 H202+20 H202+20 | 2 | 1998 | 101 | 639.0 | 1162.1 | 636.5 | 1654.7 | 63.836 |
| P295+00 P298+20 H202+20 H202+20 | 1 | 1998 | 101 | 319.5 | 581.1 | 318.2 | 827.4 | 31.918 |
| P300+20 P304+00 H202+20 H202+20 | 7 | 1998 | 101 | 2236.4 | 4067.4 | 2227.7 | 5791.5 | 223.426 |
| TOTAL | | | | 3705.9 | 6742.2 | 3691.0 | 9600.7 | 370.200 |

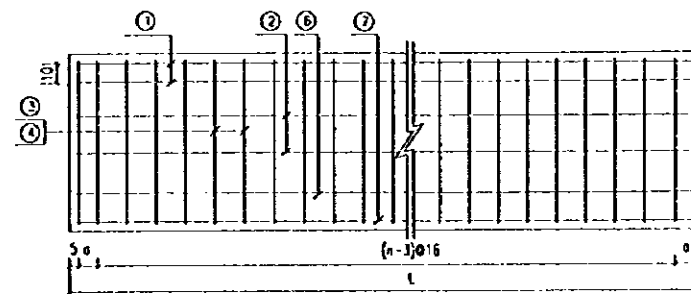
NOTE:

1. Unit : cm.

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|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDDING INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 RC CULVERT(B2) | |
| SCALE | DWG1-D8(58/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ16 | 8 | — | L-7 |
| ② | L-7 | φ10 | 8 | — | L-7 |
| ③ | | φ10 | 2n | 16 | 119 |
| ④ | | φ12 | 2n | 16 | 121 |
| ⑤ | | φ12 | n | 16 | 258 |
| ⑥ | L-7 | φ18 | 13 | — | L-7 |
| ⑦ | L-7 | φ18 | 13 | — | L-7 |
| ⑧ | | φ12 | n | 16 | 294 |
| ⑨ | | φ10 | 4n | 16 | 95 |

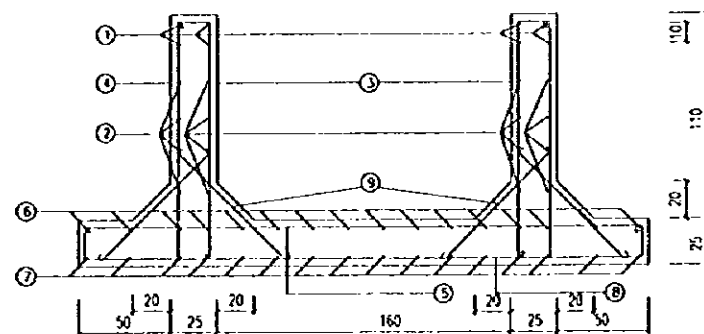
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | L (cm) | a | n | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|---|--------------------|--------|----|-----|----------------------------------|--------|--------|--------|--------------------------------|
| | | | | | φ10 | φ12 | φ16 | φ18 | |
| P250+2.74 P250+9.1 H201+6.23 H201+9.14 | 1 | 698 | 8 | 45 | 205.7 | 317.3 | 87.3 | 359.3 | 7.364 |
| P250+9.1 P252+20 H201+9.14 H202+10.8 | 5 | 1998 | 10 | 126 | 2893.6 | 4442.0 | 1258.3 | 5176.6 | 105.395 |
| TOTAL | | | | | 3099.3 | 4759.3 | 1345.6 | 5535.9 | 112.759 |

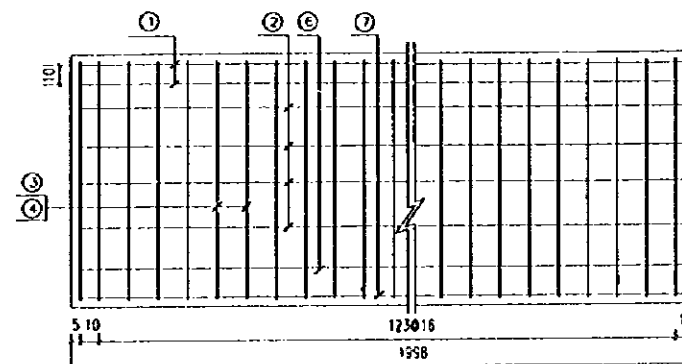
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(B2) | |
| SCALE | DWG1-D8(53/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|-------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | — 1931 | ∅16 | 8 | — | 1991 | 159.28 | 251.7 |
| ② | — 1931 | ∅10 | 16 | — | 1931 | 318.56 | 196.6 |
| ③ | — 18 126 | ∅10 | 252 | 16 | 159 | 400.68 | 247.2 |
| ④ | — 18 126 | ∅12 | 252 | 16 | 161 | 405.72 | 360.3 |
| ⑤ | — 303 | ∅14 | 126 | 16 | 321 | 404.46 | 489.4 |
| ⑥ | — 1931 | ∅18 | 16 | — | 1991 | 318.56 | 637.1 |
| ⑦ | — 1931 | ∅18 | 16 | — | 1991 | 318.56 | 637.1 |
| ⑧ | — 18 303 | ∅12 | 126 | 16 | 354 | 445.04 | 396.1 |
| ⑨ | — 82 | ∅10 | 504 | 16 | 95 | 478.8 | 295.4 |

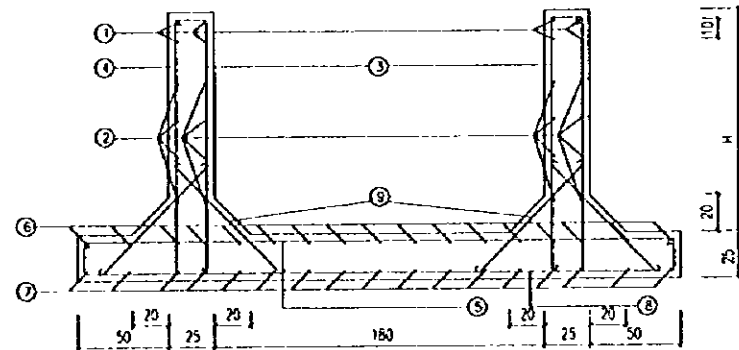
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|--|--------------------|----------------------------------|--------|--------|--------|---------|--------------------------------|
| | | ∅10 | ∅12 | ∅14 | ∅16 | ∅18 | |
| P258+20 ~ P263+00 H202+20 ~ H202+20 | 9 | 6652.8 | 6807.6 | 4404.6 | 2265.3 | 11467.8 | 252.647 |
| TOTAL | | 6652.8 | 6807.6 | 4404.6 | 2265.3 | 11467.8 | 252.647 |

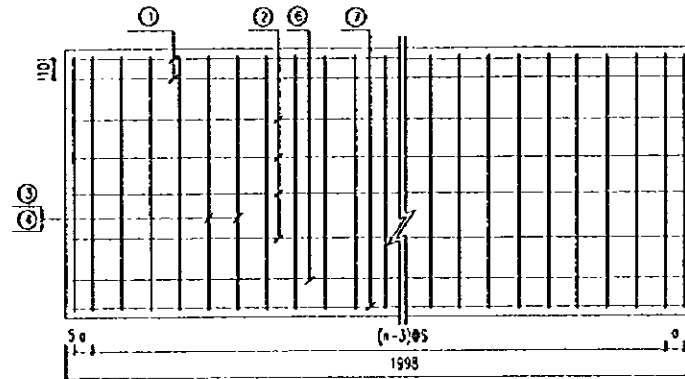
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(B2) | |
| SCALE 1:20 | DWG1-08(60/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H S a m n | | | | | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|--|--------------------|-----------|------|-----|----|-----|----------------------------------|--------|-------|---------|---------|--------------------------------|
| | | (cm) | | | | | φ10 | φ12 | φ14 | φ16 | φ18 | |
| P268+00 ~ P273+00 H202+20 ~ H202+20 | 10 | 130 | 16 | 10 | 20 | 126 | 5411.1 | 4050.4 | 11358 | 9345.1 | 13538.8 | 310.689 |
| P279+00 ~ P281+00 H202+20 ~ H202+20 | 4 | 180 | 12.5 | 6.5 | 32 | 161 | 3082.3 | 2642.1 | 0 | 13155.8 | 5415.5 | 144.256 |
| P293+00 ~ P295+00 H202+20 ~ H202+20 | 4 | 200 | 12.5 | 6.5 | 36 | 161 | 3278.9 | 2870.8 | 0 | 13562.5 | 5415.5 | 152.248 |
| P293+20 ~ P300+20 H202+20 ~ H202+20 | 4 | 200 | 12.5 | 6.5 | 36 | 161 | 3278.9 | 2870.8 | 0 | 13562.5 | 5415.5 | 152.248 |
| TOTAL | | | | | | | 15051.2 | 12434 | 11358 | 49626.7 | 29765.3 | 759.441 |

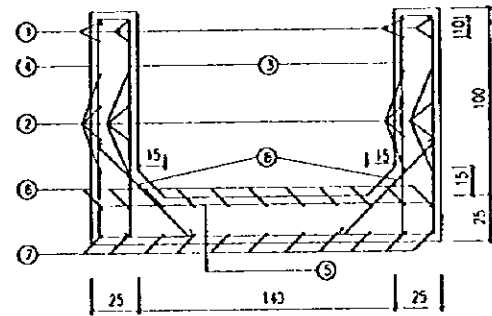
BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | |
|-----|------------|---------------|------|------------|-------------|------|
| ① | 1991 | φ16 | 8 | --- | 1991 | |
| ② | 1991 | φ10 | m | --- | 1991 | |
| ③ | 18 H+10 | 120<H<160 | φ12 | 2n | 16 | H+51 |
| | | 160<H<200 | φ12 | 2n | 12.5 | H+51 |
| ④ | H+18 18 | 120<H<160 | φ14 | 2n | 16 | H+54 |
| | | 160<H<200 | φ16 | 2n | 12.5 | H+56 |
| ⑤ | 323 | φ16 | n | 05③ | 343 | |
| ⑥ | 1991 | φ18 | 17 | --- | 1991 | |
| ⑦ | 1991 | φ18 | 17 | --- | 1991 | |
| ⑧ | 18 323 | 120<H<160 | φ14 | n | 05③ | 377 |
| | | 160<H<200 | φ16 | n | 05③ | 379 |
| ⑨ | 82 | φ10 | 4n | 05③ | 95 | |

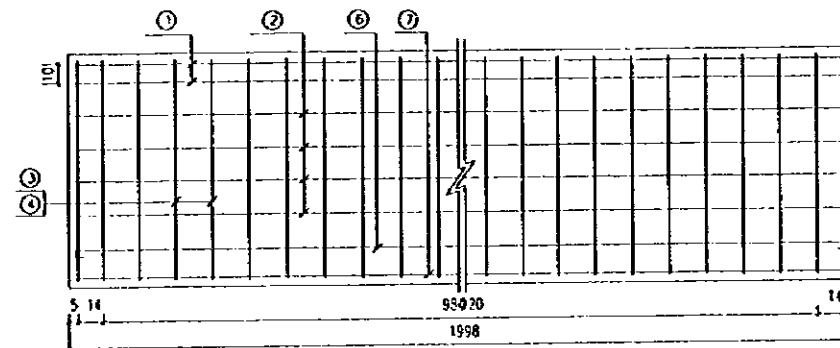
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(B2) | |
| SCALE 1:200 | DWG-DB(61/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 3 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1991 | φ14 | 8 | --- | 1991 | 159.28 | 192.7 |
| ② | 1991 | φ10 | 16 | --- | 1991 | 318.56 | 196.6 |
| ③ | 118 | φ10 | 202 | 20 | 149 | 300.98 | 185.7 |
| ④ | 183 | φ12 | 101 | 20 | 434 | 438.34 | 389.2 |
| ⑤ | 183 | φ14 | 101 | 20 | 201 | 203.01 | 245.6 |
| ⑥ | 1991 | φ14 | 11 | --- | 2009 | 220.99 | 267.4 |
| ⑦ | 1991 | φ14 | 11 | --- | 1991 | 219.01 | 265.0 |
| ⑧ | 75 | φ10 | 202 | 20 | 88 | 177.76 | 109.7 |

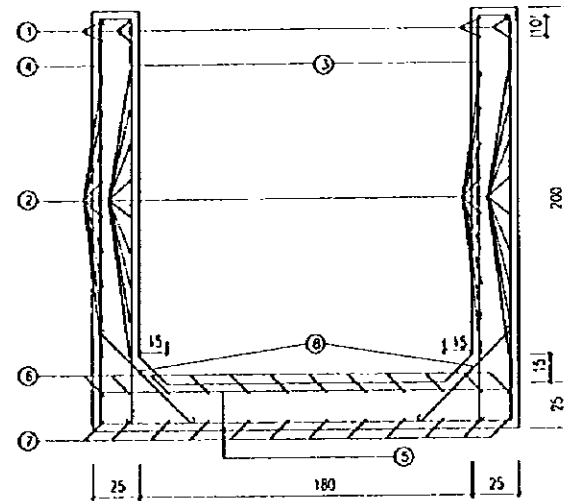
QUANTITIES OF MATERIALS

| φ10 (kg) | φ12 (kg) | φ14 (kg) | C25 CONCRETE (m³) |
|----------|----------|----------|-------------------|
| 492.0 | 389.2 | 970.7 | 19.930 |

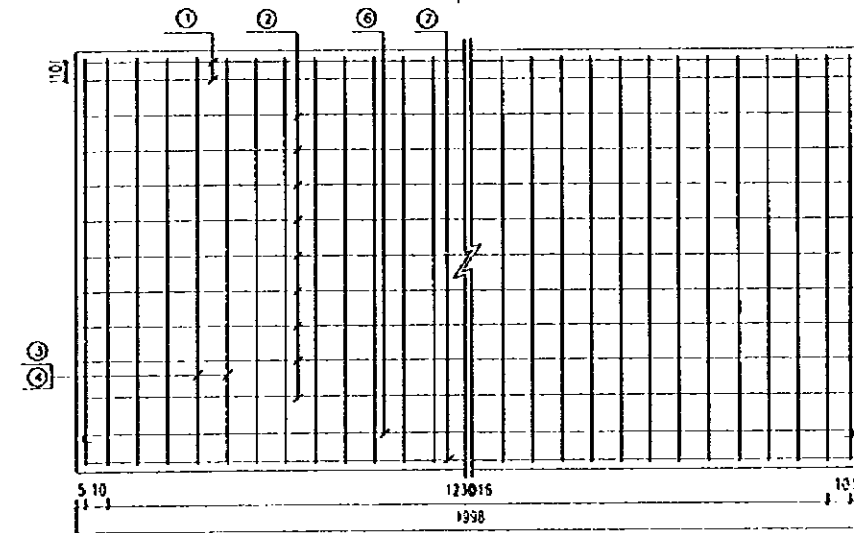
NOTE:

1. Unit : cm.

| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997 | |
| REINFORCEMENT OF TYPE 3 RC CULVERT(B2) | |
| SCALE | DWG: 08(62/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 3 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

P.308+29 ~ P.308+20
H205+21.5 ~ H206+11.5 BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|--|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1991 | φ14 | 8 | — | 1991 | 159.28 | 192.7 |
| ② | 1991 | φ10 | 36 | — | 1991 | 716.76 | 442.2 |
| ③ | $\left[\begin{array}{c} 18 \\ 20 \\ 21 \end{array} \right]$ | φ12 | 252 | 16 | 251 | 632.52 | 561.7 |
| ④ | $\left[\begin{array}{c} 18 \\ 223 \end{array} \right]$ | φ14 | 126 | 16 | 674 | 849.24 | 1027.6 |
| ⑤ | 223 | φ16 | 126 | 16 | 243 | 306.18 | 483.8 |
| ⑥ | 1998 | φ14 | 12 | — | 2009 | 241.08 | 291.7 |
| ⑦ | 1998 | φ14 | 12 | — | 1991 | 238.92 | 289.1 |
| ⑧ | $\left[\begin{array}{c} 18 \\ 75 \end{array} \right]$ | φ10 | 252 | 16 | 88 | 221.76 | 136.8 |

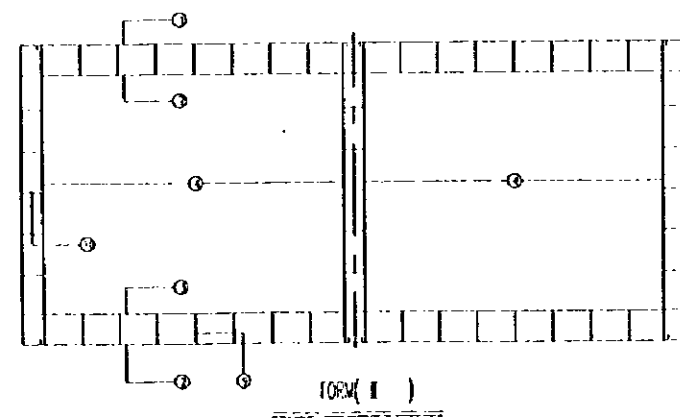
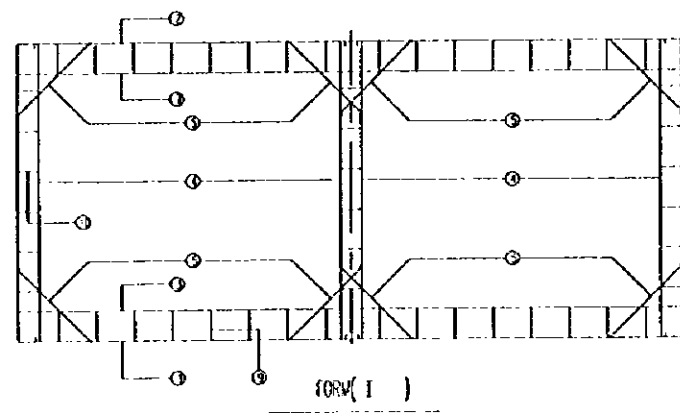
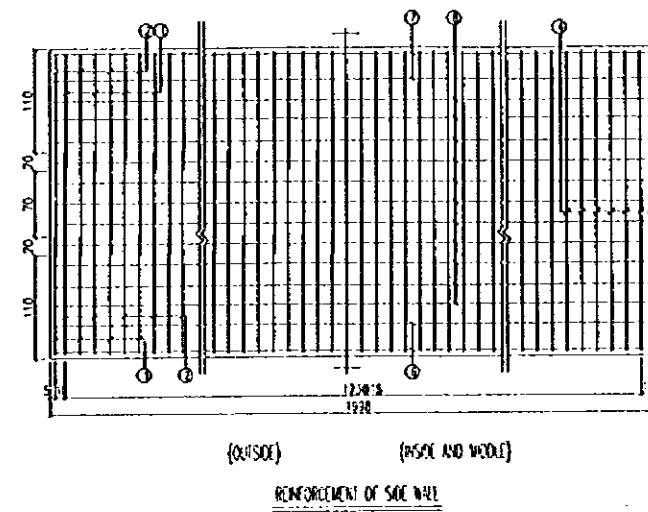
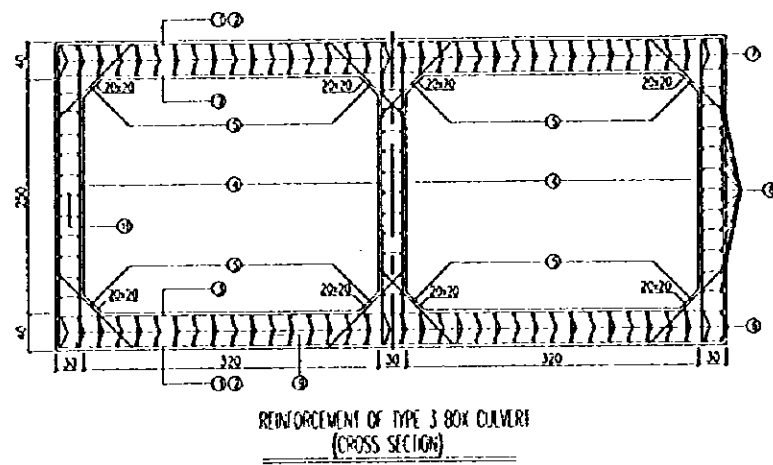
QUANTITIES OF MATERIALS

| φ10 (kg) | φ12 (kg) | φ14 (kg) | φ16 (kg) | C25 CONCRETE (m³) |
|----------|----------|----------|----------|-------------------|
| 579.0 | 561.7 | 1801.1 | 483.8 | 31.918 |

NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 3 RC CULVERT (B2) | |
| SCALE | DWG1-C6(63/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



BENDING SCHEDULE

| No. | DIAMETER (mm) | SHAPE (cm) | PITCH (cm) | LENGTH (cm) | No's | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|---------------|------------|------------|-------------|------|------------------|-------------------|
| ① | #18 | | 15 | 976 | 128 | 1229.76 | 2459.5 |
| ② | #18 | | 15 | 1156 | 128 | 1456.56 | 2913.1 |
| ③ | #18 | | 15 | 723 | 252 | 1821.96 | 3643.9 |
| ④ | #14 | | 15 | 541 | 504 | 1718.64 | 2079.6 |
| ⑤ | #14 | | 32 | 128 | 504 | 645.12 | 780.6 |
| ⑥ | #14 | | — | 1991 | 72 | 1433.52 | 1734.6 |
| ⑦ | #12 | | — | 1991 | 72 | 1433.52 | 1273.0 |
| ⑧ | #10 | | — | 1991 | 66 | 1314.06 | 810.8 |
| ⑨ | #10 | | — | 48 | 3780 | 1814.40 | 1119.5 |
| ⑩ | #10 | | — | 38 | 2079 | 790.02 | 487.4 |

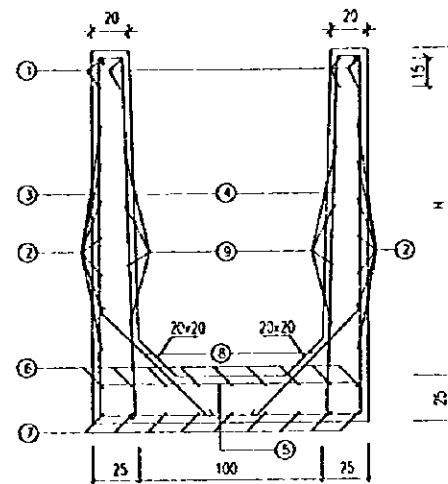
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|--|--------------------|----------------------------------|--------|--------|---------|--------------------------------|
| | | #10 | #12 | #14 | #18 | |
| #122.02 ~ #122.02 #021.30 ~ #021.30 | 1 | 2417.7 | 1273.0 | 4594.8 | 9916.5 | 164.835 |
| #122.02 ~ #122.02 #021.30 ~ #021.30 | 1 | 2417.7 | 1273.0 | 4594.8 | 9916.5 | 164.835 |
| TOTAL | | 4835.4 | 2546.0 | 9189.6 | 19833.0 | 329.670 |

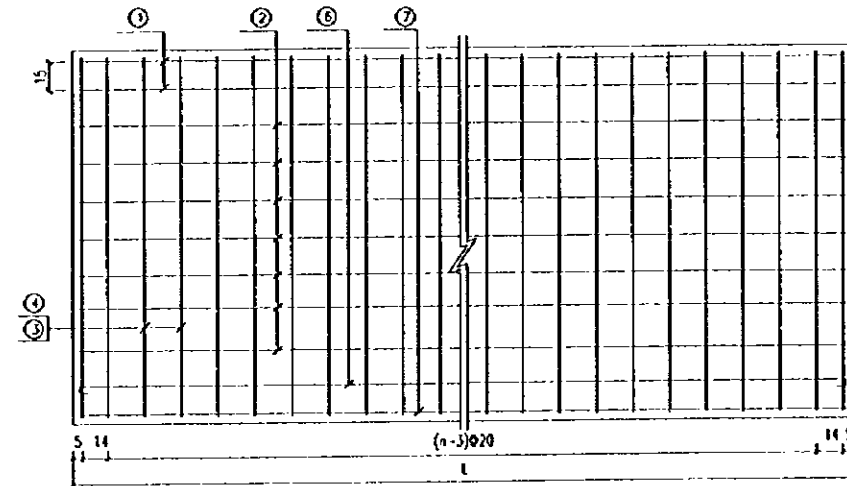
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 3 BOX CULVERT(B2) | |
| SCALE | DWG1-DB(64/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ12 | 8 | --- | L-7 |
| ② | L-7 | φ8 | 14 | --- | L-7 |
| ③ | | φ12 | n | 20 | 211+194 |
| ④ | | φ8 | 2n | 20 | 11+141 |
| ⑤ | | φ10 | n | 20 | 156 |
| ⑥ | L-7 | φ10 | 9 | --- | L16 |
| ⑦ | L-7 | φ12 | 9 | --- | L-7 |
| ⑧ | | φ8 | 2n | 20 | 91 |
| ⑨ | L-7 | φ8 | 8 | --- | L-7 |

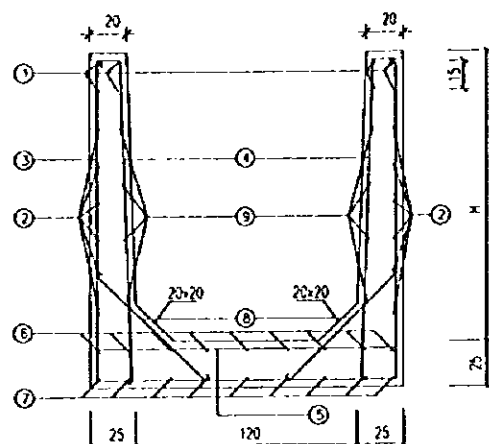
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H L n | | | QUANTITIES OF REINFORCEMENT (kg) | | | C25 CONCRETE (m ³) |
|--|--------------------|---------|------|----|----------------------------------|-------|--------|--------------------------------|
| | | (cm) | | | φ8 | φ10 | φ12 | |
| P243+16 ~ P243+25 H206+9.5 ~ H206+9.5 | 1 | 185~171 | 898 | 46 | 190.1 | 94.5 | 359.2 | 10.920 |
| P243+25 ~ P243+36 H206+9.5 ~ H206+9.5 | 1 | 171~172 | 1098 | 56 | 229.1 | 115.2 | 431.7 | 13.031 |
| P243+36 ~ P250+16 H206+9.5 ~ H206+9.5 | 1 | 172~173 | 1998 | 10 | 416.0 | 208.5 | 784.0 | 23.801 |
| TOTAL | | | | | 835.2 | 418.2 | 1574.9 | 47.752 |

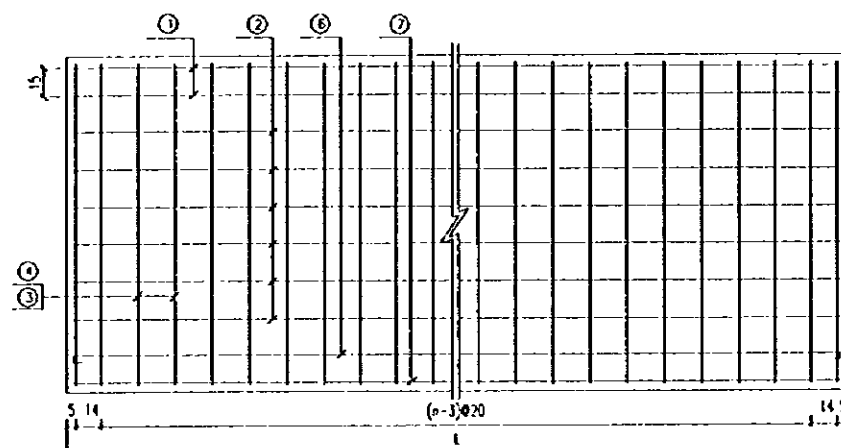
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(BJ) | |
| SCALE | 1:200 |
| DWG1-08(65/85) | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ12 | 8 | — | L-7 |
| ② | L-7 | φ8 | m1 | — | L-7 |
| ③ | | φ12 | n | 20 | 2H+214 |
| ④ | | φ8 | 2n | 20 | H+41 |
| ⑤ | | φ10 | n | 20 | 176 |
| ⑥ | L-7 | φ10 | 9 | — | L+6 |
| ⑦ | L-7 | φ12 | 9 | — | L-7 |
| ⑧ | | φ8 | 2n | 20 | 91 |
| ⑨ | L-7 | φ8 | m2 | — | L-7 |

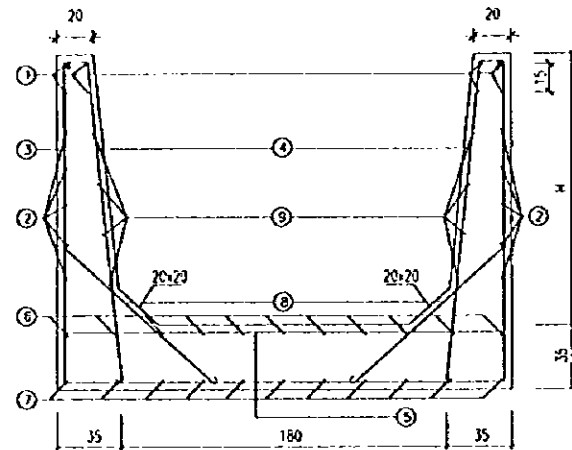
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H (cm) | L (cm) | m1 | m2 | n | QUANTITIES OF REINFORCEMENT (kg) | | | C25 CONCRETE (m ³) |
|--------------------------------------|--------------------|---------|--------|----|----|-----|----------------------------------|-------|--------|--------------------------------|
| | | | | | | | φ8 | φ10 | φ12 | |
| P250+16 P250+31 H206+9.5 H206+9.5 | 1 | 173~174 | 1498 | 14 | 8 | 76 | 313.0 | 166.1 | 603.7 | 18.661 |
| P250+31 P251+11 H206+9.5 H206+9.5 | 1 | 174~176 | 1998 | 14 | 8 | 101 | 418.0 | 221.0 | 806.4 | 25.025 |
| P251+11 P251+36 H206+9.5 H206+9.5 | 1 | 176~178 | 2498 | 14 | 8 | 126 | 524.0 | 275.9 | 1011.6 | 31.512 |
| P251+36 P252+09 H206+9.5 H206+9.5 | 1 | 178~199 | 1298 | 16 | 10 | 66 | 299.7 | 144.1 | 541.3 | 17.046 |
| TOTAL | | | | | | | 1554.7 | 807.1 | 2963.0 | 92.244 |

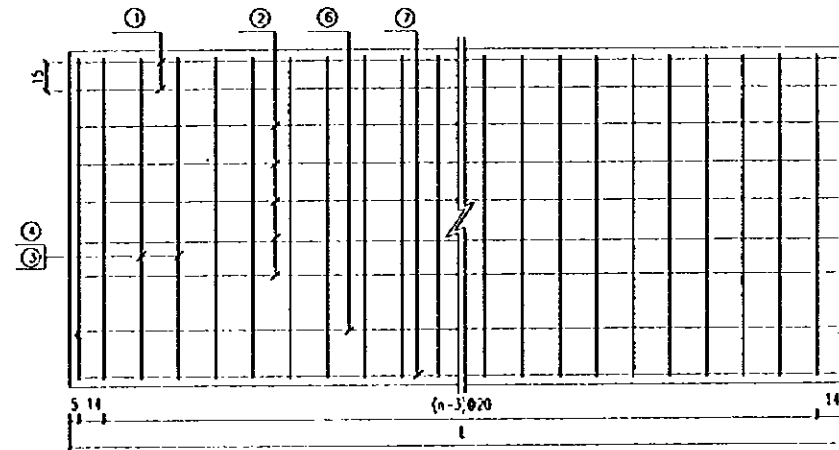
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(B3) | |
| SCALE | DWG1-DB(65/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ12 | 8 | — | L-7 |
| ② | L-7 | φ8 | 18 | — | L-7 |
| ③ | | φ14 | n | 20 | 2H+317 |
| ④ | | φ8 | 2n | 20 | H+52 |
| ⑤ | | φ10 | n | 20 | 256 |
| ⑥ | L-7 | φ10 | 11 | — | L+6 |
| ⑦ | L-7 | φ12 | 11 | — | L-7 |
| ⑧ | | φ8 | 2n | 20 | 119 |
| ⑨ | L-7 | φ8 | m2 | — | L-7 |

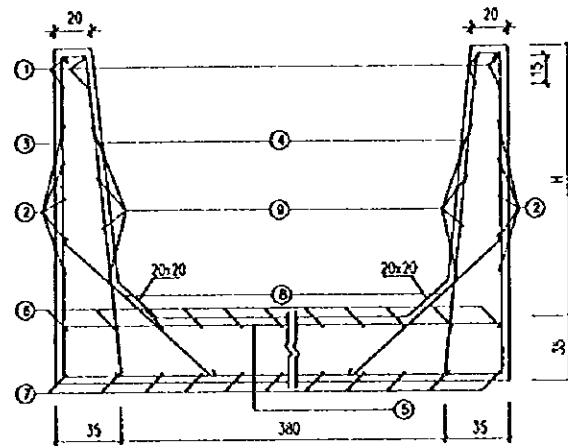
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | SEGMENT DIMENSIONS (cm) | | | | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|--|--------------------|-------------------------|------|----|-----|----------------------------------|--------|--------|--------|--------------------------------|
| | | H | L | m2 | n | φ8 | φ10 | φ12 | φ14 | |
| P254+09 ~ P254+20 H206+95 ~ H206+95 | 1 | 220~205 | 1098 | 12 | 56 | 298.9 | 163.4 | 184.1 | 502.8 | 22.880 |
| P254+20 ~ P257+00 H206+95 ~ H206+95 | 5 | 205~213 | 1998 | 10 | 101 | 2617.0 | 1477.7 | 1679.6 | 4491.7 | 206.244 |
| P257+20 ~ P261+00 H206+95 ~ H206+95 | 7 | 215~224 | 1998 | 12 | 101 | 3832.6 | 2068.8 | 2351.5 | 6467.4 | 296.818 |
| P261+00 ~ P261+10 H206+95 ~ H206+95 | 1 | 224~225 | 998 | 12 | 51 | 276.8 | 148.7 | 167.2 | 472.1 | 21.455 |
| TOTAL | | | | | | 7025.3 | 3858.6 | 4382.4 | 11934. | 547.397 |

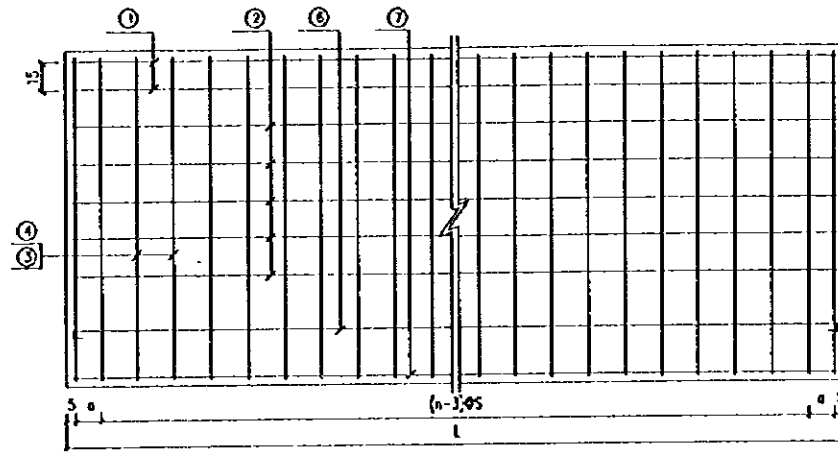
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(B3) | |
| SCALE | DWG-08(67/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ12 | 8 | — | L-7 |
| ② | L-7 | φ8 | m1 | — | L-7 |
| ③ | [Diagram] | 200x24 | n | 20 | 2H+517 |
| | | 248x30 | n | 15 | 2H+519 |
| | | 366x35 | n | 15 | 2H+499 |
| ④ | [Diagram] | φ8 | 2n | os③ | H+52 |
| ⑤ | [Diagram] | φ10 | n | os③ | 456 |
| ⑥ | L-7 | φ10 | 19 | — | L+6 |
| ⑦ | L-7 | φ12 | 19 | — | L-7 |
| ⑧ | [Diagram] | φ8 | 2n | os③ | 119 |
| ⑨ | L-7 | φ8 | m2 | — | L-7 |

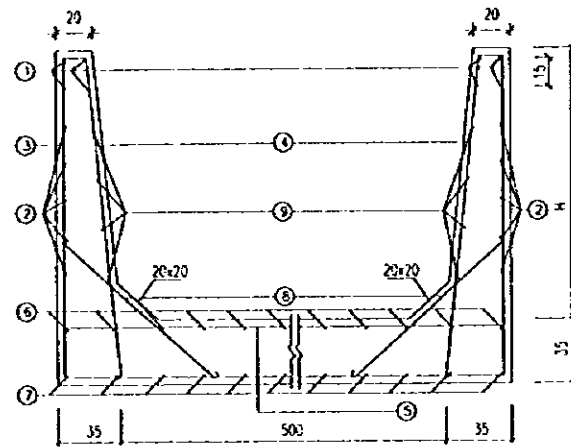
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H | L | S | a | m1 | m2 | n | QUANTITIES OF REINFORCEMENT (kg) | | | | | | C25 CONCRETE (m ³) |
|--|--------------------|---------|------|----|------|----|----|-----|----------------------------------|---------|---------|---------|----------|--------|--------------------------------|
| | | | | | | | | | φ8 | φ10 | φ12 | φ14 | φ16 | φ20 | |
| P261+10 ~ P261+20 H206+9.5 ~ H206+9.5 | 1 | 225~226 | 998 | 20 | 14 | 20 | 12 | 51 | 285.0 | 261.2 | 237.6 | 597.4 | 0 | 0 | 28.495 |
| P261+20 ~ P261+34 H206+9.5 ~ H206+9.5 | 1 | 226~246 | 1398 | 20 | 14 | 20 | 12 | 71 | 404.1 | 364.4 | 333.5 | 849.6 | 0 | 0 | 40.724 |
| P261+34 ~ P261+05 H206+9.5 ~ H206+9.5 | 1 | 248~231 | 1098 | 20 | 14 | 20 | 12 | 56 | 319.5 | 287.0 | 261.6 | 674.9 | 0 | 0 | 32.196 |
| P264+05 ~ P264+30 H206+9.5 ~ H206+9.5 | 1 | 231~233 | 2498 | 20 | 14 | 20 | 12 | 126 | 716.0 | 648.0 | 597.2 | 1495.6 | 0 | 0 | 72.217 |
| P264+30 ~ P270+10 H206+9.5 ~ H206+9.5 | 11 | 233~249 | 1998 | 20 | 14 | 20 | 14 | 101 | 6557.4 | 5710.0 | 5251.0 | 13429.7 | 0 | 0 | 646.263 |
| P270+10 ~ P270+27 H206+9.5 ~ H206+9.5 | 1 | 249~265 | 1698 | 15 | 11.5 | 22 | 14 | 114 | 625.9 | 520.5 | 405.4 | 0 | 1860.6 | 0 | 51.424 |
| P272+27 ~ P273+00 H206+9.5 ~ H206+9.5 | 1 | 271~255 | 1298 | 15 | 14 | 22 | 14 | 87 | 481.9 | 397.6 | 309.5 | 0 | 1436.5 | 0 | 39.738 |
| P273+00 ~ P278+20 H206+9.5 ~ H206+9.5 | 11 | 255~271 | 1998 | 15 | 11.5 | 22 | 14 | 134 | 8168.1 | 6731.3 | 5251.0 | 0 | 24337.2 | 0 | 672.856 |
| P278+20 ~ P279+23 H206+9.5 ~ H206+9.5 | 1 | 271~272 | 898 | 15 | 16.5 | 24 | 16 | 60 | 350.5 | 274.8 | 213.6 | 0 | 1006.8 | 0 | 27.912 |
| P279+23 ~ P279+00 H206+9.5 ~ H206+9.5 | 1 | 272~288 | 1098 | 15 | 11.5 | 24 | 16 | 74 | 436.0 | 337.6 | 261.6 | 0 | 1261.6 | 0 | 34.642 |
| P281+00 ~ P281+20 H206+9.5 ~ H206+9.5 | 1 | 294~281 | 1998 | 15 | 11.5 | 26 | 16 | 134 | 815.7 | 611.9 | 477.4 | 0 | 2316.2 | 0 | 63.861 |
| P281+20 ~ P291+00 H206+9.5 ~ H206+9.5 | 19 | 281~306 | 1998 | 15 | 11.5 | 26 | 16 | 134 | 15618.5 | 11626.5 | 9069.9 | 0 | 44490.8 | 0 | 1225.89 |
| P291+00 ~ P291+10 H206+9.5 ~ H206+9.5 | 1 | 306~307 | 998 | 15 | 14 | 28 | 18 | 67 | 432.8 | 305.2 | 237.6 | 0 | 0 | 1839.5 | 32.942 |
| TOTAL | | | | | | | | | 35211.4 | 28077.4 | 22906.9 | 17047.2 | 276709.7 | 1839.5 | 2969.160 |

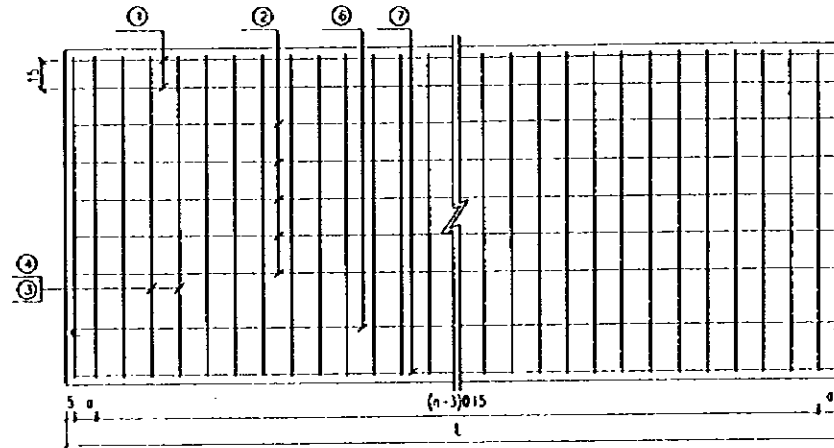
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(B3) | |
| SCALE | DWG1-02(68/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|----|------------|-----------------------|------|------------|-------------|
| ① | L-7 | φ12 | 8 | — | L-7 |
| ② | L-7 | φ8 | m1 | — | L-7 |
| ③ | 583 | 308CH318 | n | 15 | 2H+619 |
| | | 319CH355 | n | 15 | 2H+619 |
| ④ | 119 | φ8 | 2n | 15 | H+52 |
| ⑤ | 583 | φ10 | n | 15 | 576 |
| ⑥ | L-7 | φ10 | 24 | — | L+6 |
| ⑦ | L-7 | φ12 | 24 | — | L-7 |
| ⑧ | 109 | φ8 | 2n | 15 | 119 |
| ⑨ | L-7 | φ8 | 18 | — | L-7 |

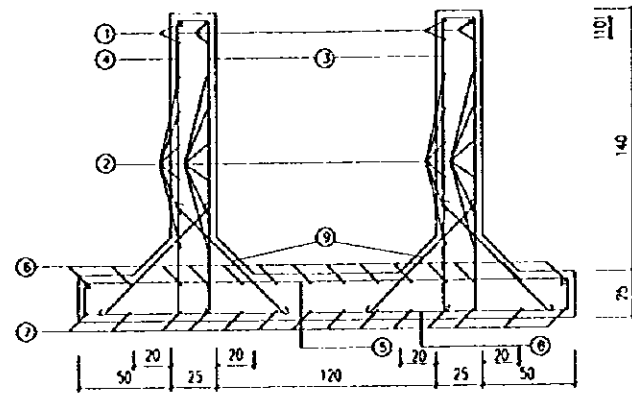
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | SEGMENT DIMENSIONS (cm) | | | | | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|--|--------------------|-------------------------|------|------|----|-----|----------------------------------|--------|--------|---------|---------|--------------------------------|
| | | ll | L | o | m1 | n | φ8 | φ10 | φ12 | φ20 | φ25 | |
| P291+10 ~ P291+20 H206+9.5 ~ H206+9.5 | 1 | 307~308 | 998 | 14 | 28 | 67 | 433.3 | 386.8 | 281.6 | 2041.3 | 0 | 37.188 |
| P291+20 ~ P292+20 H206+9.5 ~ H206+9.5 | 2 | 308~311 | 1998 | 11.5 | 28 | 134 | 1740.8 | 1546.0 | 1131.5 | 8191.7 | 0 | 149.341 |
| P292+20 ~ P292+33 H206+9.5 ~ H206+9.5 | 1 | 311~312 | 1298 | 14 | 28 | 87 | 566.2 | 502.3 | 366.9 | 2667.9 | 0 | 48.652 |
| P292+33 ~ P293+06 H206+9.5 ~ H206+9.5 | 1 | 312~327 | 1298 | 14 | 28 | 87 | 571.7 | 502.3 | 366.9 | 2702.2 | 0 | 49.223 |
| P293+06 ~ P295+19 H206+9.5 ~ H206+9.5 | 1 | 333~317 | 1298 | 14 | 30 | 87 | 585.7 | 502.3 | 366.9 | 0 | 4258.2 | 49.616 |
| P295+19 ~ P295+03 H206+9.5 ~ H206+9.5 | 1 | 317~319 | 2398 | 9 | 28 | 161 | 1056.4 | 928.2 | 679.4 | 4988.7 | 0 | 99.740 |
| P296+03 ~ P293+23 H206+9.5 ~ H206+9.5 | 5 | 319~327 | 1998 | 11.5 | 28 | 134 | 4423.6 | 3864.9 | 2828.8 | 0 | 32690.0 | 380.769 |
| TOTAL | | | | | | | 9377.7 | 8232.8 | 6022.0 | 20591.8 | 36948.2 | 805.529 |

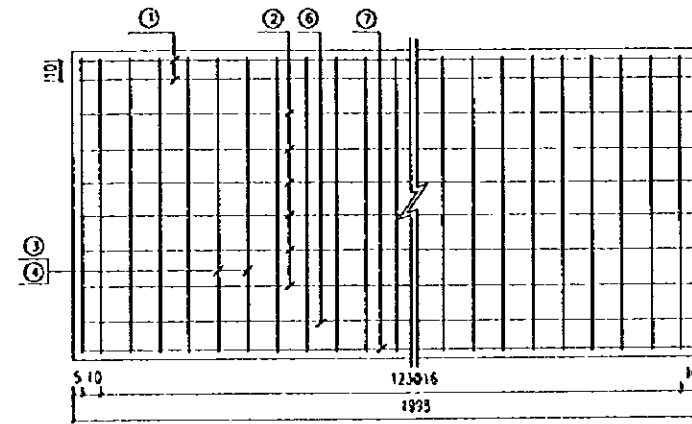
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(B3) | |
| SCALE 1:200 | DNCI-DB(89/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|----|------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1991 | ∅16 | 8 | --- | 1991 | 159.28 | 251.7 |
| ② | 1991 | ∅10 | 24 | --- | 1991 | 477.84 | 294.8 |
| ③ | | ∅12 | 252 | 16 | 191 | 481.32 | 427.4 |
| ④ | | ∅14 | 252 | 16 | 194 | 488.88 | 591.5 |
| ⑤ | | ∅12 | 126 | 16 | 278 | 350.28 | 311.0 |
| ⑥ | 1991 | ∅18 | 14 | --- | 1991 | 278.74 | 557.5 |
| ⑦ | 1991 | ∅18 | 14 | --- | 1991 | 278.74 | 557.5 |
| ⑧ | | ∅14 | 126 | 16 | 317 | 399.42 | 483.3 |
| ⑨ | | ∅10 | 504 | 16 | 95 | 478.80 | 295.4 |

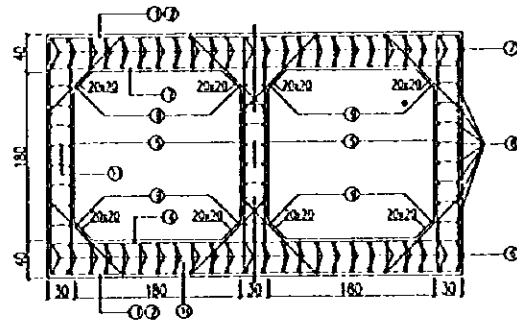
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|--------------------------------------|--------------------|----------------------------------|--------|--------|--------|--------|--------------------------------|
| | | ∅10 | ∅12 | ∅14 | ∅16 | ∅18 | |
| P252+09 P254+09 H206+9.5 H206+9.5 | 4 | 2360.8 | 2953.6 | 4299.2 | 1006.8 | 4460.0 | 116.284 |
| TOTAL | | 2360.8 | 2953.6 | 4299.2 | 1006.8 | 4460.0 | 116.284 |

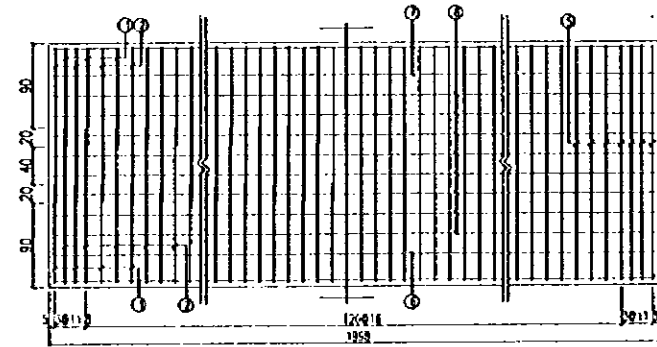
NOTE:

1. Unit : cm.

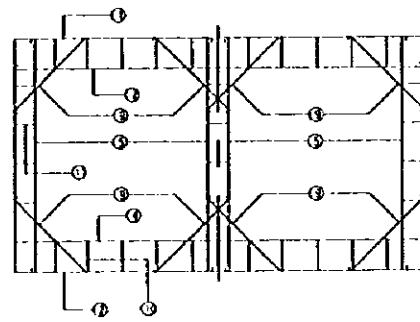
| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(B3) | |
| SCALE | DWG-DB(70/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



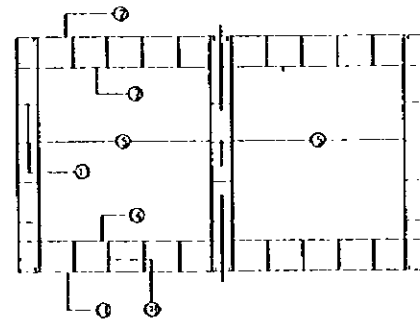
REINFORCEMENT OF TYPE 2 BOX CULVERT
(CROSS SECTION)



(OUTSIDE) (INSIDE AND ROOF)
REINFORCEMENT OF SIDE WALL



FORM I



FORM I

BENDING SCHEDULE

| No | DIAMETER (mm) | SHAPE (cm) | PITCH (cm) | LENGTH (cm) | No's | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|----|---------------|------------|------------|-------------|------|------------------|-------------------|
| ① | #16 | | 16 | 656 | 127 | 833.12 | 1316.3 |
| ② | #16 | | 16 | 776 | 127 | 985.52 | 1557.1 |
| ③ | #16 | | 16 | 483 | 127 | 588.01 | 929.1 |
| ④ | #20 | | 16 | 443 | 127 | 562.61 | 1358.5 |
| ⑤ | #12 | | 16 | 268 | 508 | 1361.44 | 1209.0 |
| ⑥ | #18 | | — | 1991 | 48 | 955.68 | 1911.4 |
| ⑦ | #16 | | — | 1991 | 48 | 955.68 | 1540.0 |
| ⑧ | #10 | | — | 1991 | 48 | 955.68 | 589.7 |
| ⑨ | #12 | | 32 | 125 | 512 | 640.00 | 568.3 |
| ⑩ | #10 | | — | 45 | 2283 | 1098.24 | 677.6 |
| ⑪ | #10 | | — | 38 | 1524 | 579.12 | 357.3 |

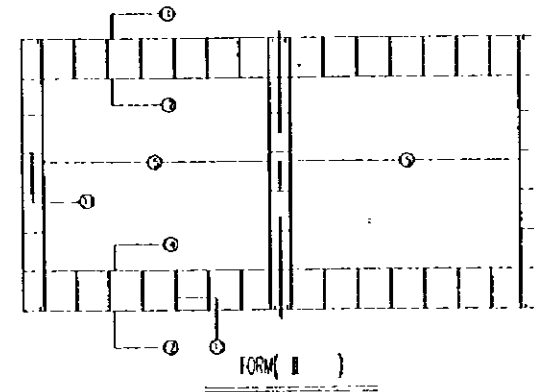
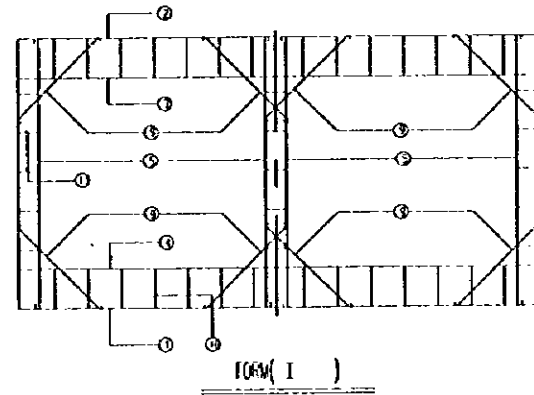
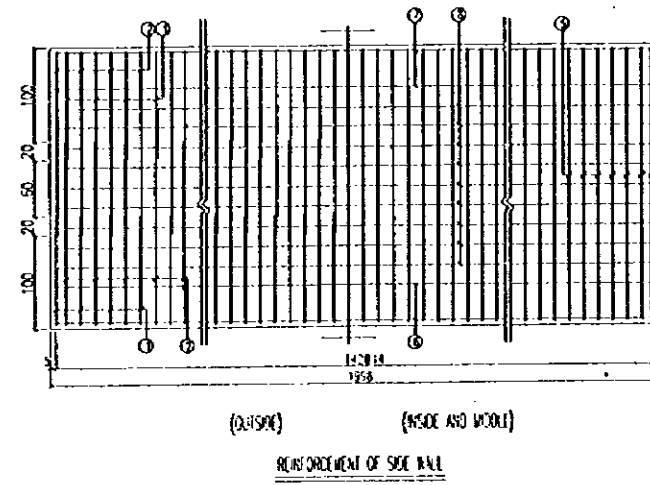
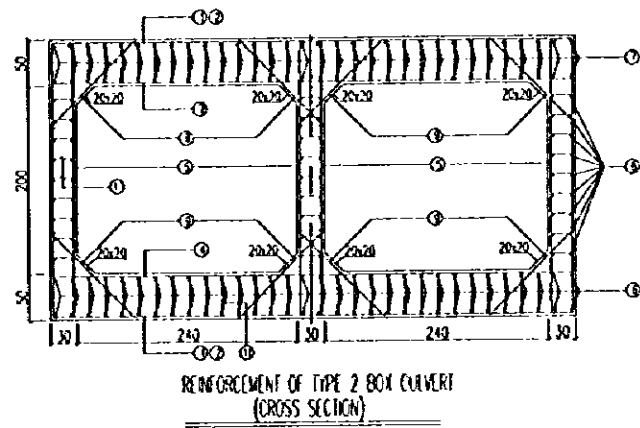
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|------------------------------|--------------------|----------------------------------|---------|---------|---------|---------|--------------------------------|
| | | #10 | #12 | #16 | #18 | #20 | |
| 2261+26 ~ 2273+26 R006+15 | 4 | 6498.4 | 7109.2 | 21250.0 | 7645.6 | 5554.0 | 429.970 |
| 2273+27 ~ 2277+27 R006+15 | 4 | 6498.4 | 7109.2 | 21250.0 | 7645.6 | 5554.0 | 429.970 |
| 2277+28 ~ 2281+28 R006+15 | 4 | 6498.4 | 7109.2 | 21250.0 | 7645.6 | 5554.0 | 429.970 |
| TOTAL | | 19495.2 | 21327.6 | 63750.0 | 22936.8 | 16662.0 | 1289.910 |

NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 BOX CULVERT(B3) | |
| SCALE | DWG1-DB(11/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



BENDING SCHEDULE

| No | DIAMETER (mm) | SHAPE (cm) | PITCH (cm) | LENGTH (cm) | No's | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|----|---------------|------------|------------|-------------|------|------------------|-------------------|
| ① | #18 | | 14 | 796 | 143 | 1138.28 | 2276.6 |
| ② | #18 | | 14 | 956 | 143 | 1367.08 | 2734.2 |
| ③ | #18 | | 14 | 563 | 143 | 805.09 | 1610.2 |
| ④ | #22 | | 14 | 563 | 143 | 805.09 | 2404.8 |
| ⑤ | #14 | | 14 | 314 | 572 | 1778.92 | 2152.5 |
| ⑥ | #18 | | 14 | 1991 | 64 | 1274.24 | 2548.5 |
| ⑦ | #16 | | 14 | 1991 | 64 | 1274.24 | 2013.3 |
| ⑧ | #10 | | 14 | 1991 | 54 | 1075.14 | 663.4 |
| ⑨ | #14 | | 28 | 143 | 576 | 823.68 | 996.7 |
| ⑩ | #10 | | 28 | 58 | 3720 | 2157.60 | 1331.2 |
| ⑪ | #10 | | 28 | 38 | 1932 | 734.16 | 453.0 |

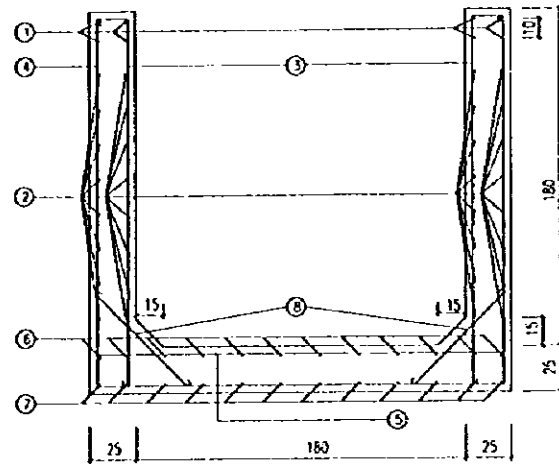
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|--|--------------------|----------------------------------|---------|---------|---------|---------|--------------------------------|
| | | #10 | #14 | #16 | #18 | #22 | |
| 2021.26 - 2021.26 1926.85 - 1926.85 | 4 | 9790.4 | 12536.8 | 8053.2 | 36678.0 | 9619.2 | 612.157 |
| 2020.21 - 2020.21 1926.85 - 1926.85 | 5 | 12238.0 | 15746.0 | 10066.5 | 45847.5 | 12024.0 | 765.234 |
| TOTAL | | 22028.4 | 28342.8 | 18119.7 | 82525.5 | 21643.2 | 1377.421 |

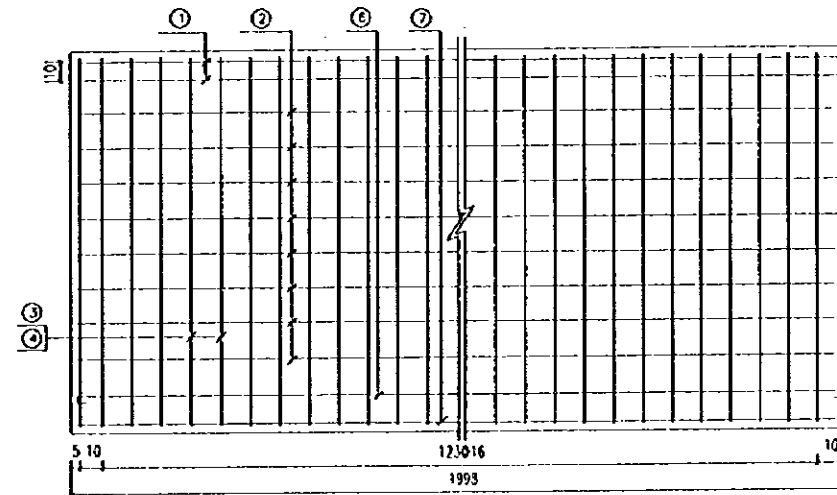
NOTE:

1. Unit : cm.

| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997 | |
| REINFORCEMENT OF TYPE 2 BOX CULVERT(BJ) | |
| SCALE | DWG1-08(12/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 3 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1991 | φ14 | 8 | — | 1991 | 159.28 | 192.7 |
| ② | 1991 | φ10 | 32 | — | 1991 | 637.12 | 393.1 |
| ③ | | φ12 | 252 | 16 | 231 | 582.12 | 516.9 |
| ④ | | φ14 | 126 | 16 | 637 | 802.62 | 971.2 |
| ⑤ | | φ16 | 126 | 16 | 243 | 305.18 | 483.8 |
| ⑥ | 1991 | φ14 | 12 | — | 2009 | 241.08 | 291.7 |
| ⑦ | 1991 | φ14 | 12 | — | 1991 | 238.92 | 289.1 |
| ⑧ | | φ10 | 252 | 16 | 88 | 221.76 | 136.8 |

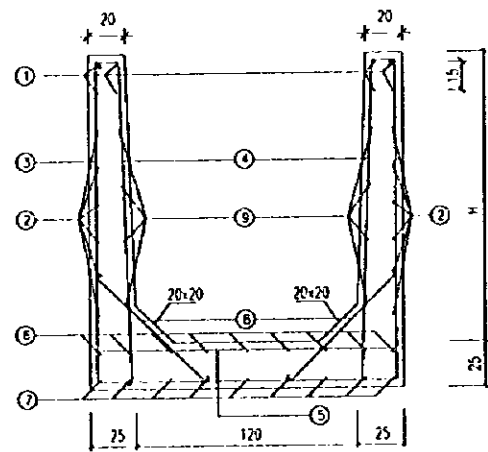
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|------------------------------------|--------------------|----------------------------------|-------|--------|-------|--------------------------------|
| | | φ10 | φ12 | φ14 | φ16 | |
| P257+00 P257+20 H206195 H206195 | 1 | 529.9 | 516.9 | 1744.7 | 483.8 | 29.920 |
| TOTAL | | 529.9 | 516.9 | 1744.7 | 483.8 | 29.920 |

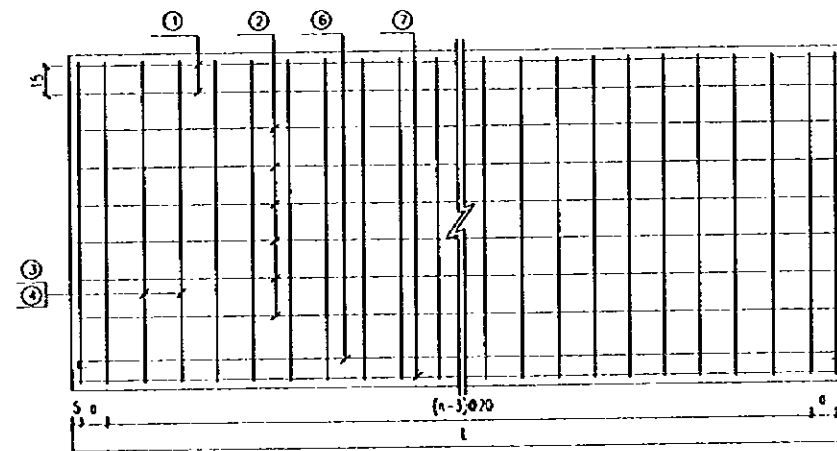
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 3 RC CULVERT(B3) | |
| SCALE | DWG1-08(13/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

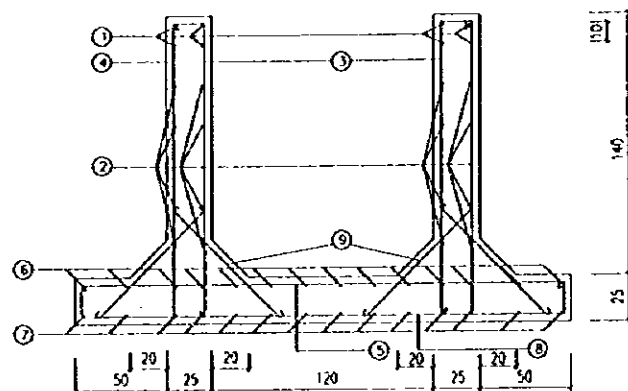
| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|---|---------------|------|------------|-------------|
| ① | L-7 | φ12 | 8 | — | L-7 |
| ② | L-7 | φ8 | m1 | — | L-7 |
| ③ | $\left[\begin{array}{c} 15 \\ 18 \end{array} \right] \frac{20}{2}$ | φ12 | n | 20 | 2H+214 |
| ④ | $\left[\begin{array}{c} 15 \\ 18 \end{array} \right] \frac{20}{2}$ | φ8 | 2n | 20 | H+41 |
| ⑤ | $\left[\begin{array}{c} 15 \\ 18 \end{array} \right] \frac{20}{2}$ | φ10 | n | 20 | 176 |
| ⑥ | L-7 | φ10 | 9 | — | L+6 |
| ⑦ | L-7 | φ12 | 9 | — | L-7 |
| ⑧ | $\left[\begin{array}{c} 15 \\ 18 \end{array} \right] \frac{20}{2}$ | φ8 | 2n | 20 | 91 |
| ⑨ | L-7 | φ8 | m2 | 30 | L-7 |

SEGMENTS AND QUANTITIES OF MATERIALS

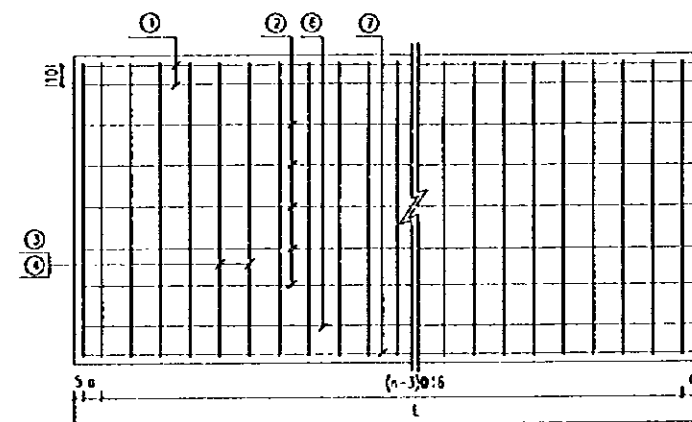
| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H (cm) | L (cm) | a | m1 | m2 | n | QUANTITIES OF REINFORCEMENT (kg) | | | C25 CONCRETE (m ³) |
|---|--------------------|---------|--------|------|----|----|-----|----------------------------------|--------|--------|--------------------------------|
| | | | | | | | | φ8 | φ10 | φ12 | |
| P250+31 ~ P250+31 H211+00 ~ H209+20 | 3 | 159~164 | 1998 | 14 | 12 | 8 | 101 | 1174.4 | 662.9 | 2316.6 | 71.434 |
| P250+31 ~ P250+31 H209+20 ~ H209+0.35 | 1 | 164~165 | 1963 | 16.5 | 12 | 8 | 99 | 386.4 | 216.8 | 772.6 | 23.659 |
| P250+31 ~ P250+31 H209+0.35 ~ H208+20.35 | 1 | 165~192 | 1998 | 14 | 14 | 10 | 101 | 438.5 | 221.0 | 817.2 | 25.564 |
| TOTAL | | | | | | | | 1999.3 | 1100.7 | 3936.4 | 120.657 |

NOTE:
1. Unit : cm.

| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(B3-1) | |
| SCALE $\frac{1}{100}$ | DWG1-DB(74/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|------------|---------------|------|------------|-------------|
| ① | L-7 | φ16 | 8 | --- | L-7 |
| ② | L-7 | φ10 | 20 | --- | L-7 |
| ③ | | φ12 | 2n | 16 | 191 |
| ④ | | φ14 | 2n | 16 | 194 |
| ⑤ | | φ12 | n | 16 | 278 |
| ⑥ | L-7 | φ18 | 14 | --- | L-7 |
| ⑦ | L-7 | φ18 | 14 | --- | L-7 |
| ⑧ | | φ14 | n | 16 | 317 |
| ⑨ | | φ10 | 4n | 16 | 95 |

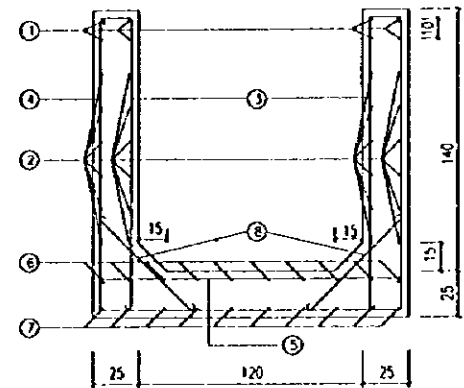
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | L (cm) | a (cm) | n | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) |
|-----------------------------|--------------------|--------|--------|-----|----------------------------------|--------|--------|--------|--------|--------------------------------|
| | | | | | φ10 | φ12 | φ14 | φ16 | φ18 | |
| P250+31 H208+20.35 | 4 | 1998 | 10 | 120 | 2164.4 | 2953.8 | 4293.4 | 1006.7 | 4459.8 | 116.284 |
| P250+31 H206+20.35 | 1 | 998 | 14 | 63 | 270.0 | 369.2 | 537.4 | 125.3 | 555.0 | 14.521 |
| TOTAL | | | | | 2434.4 | 3323.0 | 4836.8 | 1132.0 | 5014.8 | 130.805 |

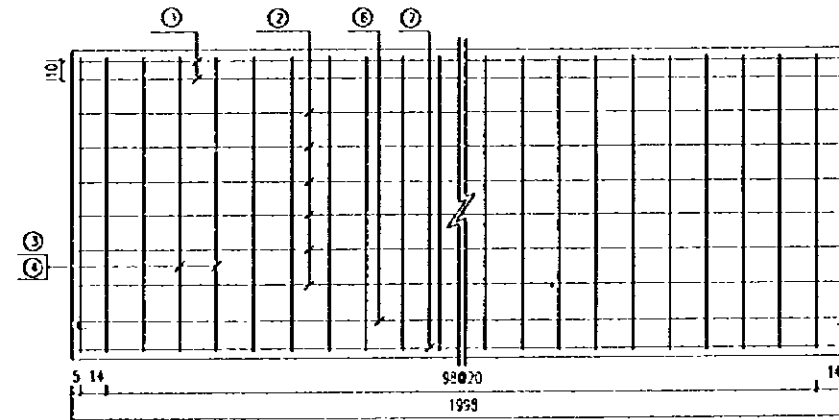
NOTE:

1. Unit : cm.

| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997 | |
| REINFORCEMENT OF TYPE 2 RC CULVERT(BJ-1) | |
| SCALE | DWG1-08(75/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 3 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

P259104 P259104
R208118 R208138 BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1991 | φ14 | 8 | --- | 1991 | 159.28 | 192.7 |
| ② | 1991 | φ10 | 24 | --- | 1991 | 477.84 | 294.8 |
| ③ | | φ12 | 202 | 20 | 191 | 385.82 | 342.6 |
| ④ | | φ12 | 101 | 20 | 494 | 498.94 | 443.1 |
| ⑤ | | φ12 | 101 | 20 | 178 | 179.78 | 159.6 |
| ⑥ | 1991 | φ14 | 10 | --- | 2009 | 200.90 | 243.1 |
| ⑦ | 1991 | φ14 | 10 | --- | 1991 | 199.10 | 240.9 |
| ⑧ | | φ10 | 202 | 20 | 88 | 177.76 | 109.7 |

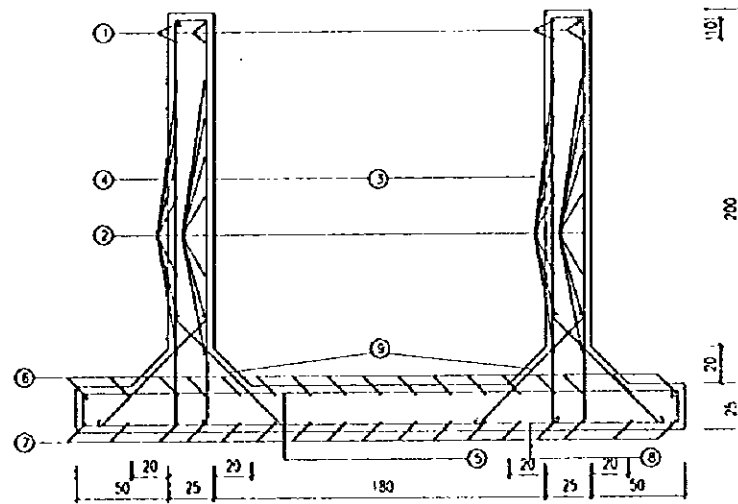
QUANTITIES OF MATERIALS

| φ10 (kg) | φ12 (kg) | φ14 (kg) | C25 CONCRETE (m³) |
|----------|----------|----------|-------------------|
| 404.5 | 945.3 | 676.7 | 22.927 |

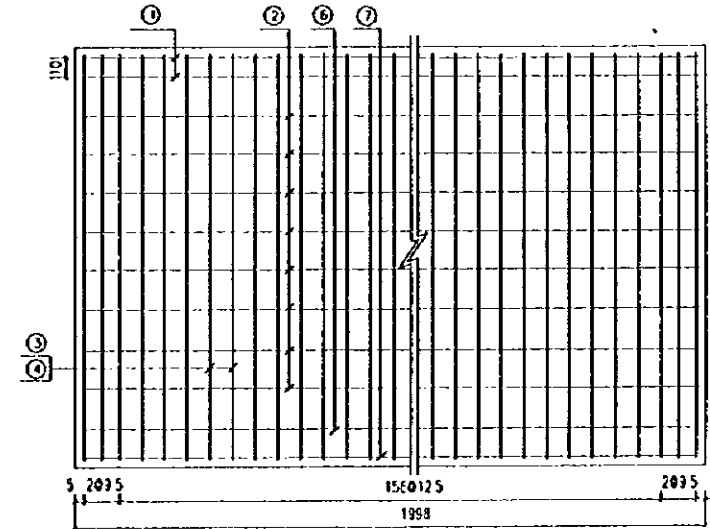
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 3 RC CULVERT(04-0) | |
| SCALE | DWG-08(76/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|--|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1991 | φ16 | 8 | --- | 1991 | 159.28 | 251.7 |
| ② | 1991 | φ10 | 32 | --- | 1991 | 637.12 | 393.1 |
| ③ | $\begin{matrix} 18 \\ 20 \end{matrix}$ | φ12 | 322 | 12.5 | 251 | 808.22 | 717.7 |
| ④ | $\begin{matrix} 21 \\ 19 \end{matrix}$ | φ16 | 322 | 12.5 | 256 | 824.32 | 1302.4 |
| ⑤ | $\begin{matrix} 32 \\ 3 \end{matrix}$ | φ16 | 161 | 12.5 | 343 | 552.23 | 872.5 |
| ⑥ | 1991 | φ18 | 17 | --- | 1991 | 338.47 | 676.9 |
| ⑦ | 1991 | φ18 | 17 | --- | 1991 | 338.47 | 676.9 |
| ⑧ | $\begin{matrix} 18 \\ 32.5 \end{matrix}$ | φ16 | 161 | 12.5 | 379 | 610.19 | 964.1 |
| ⑨ | $\begin{matrix} 8 \\ 82 \end{matrix}$ | φ10 | 644 | 12.5 | 95 | 611.8 | 377.5 |

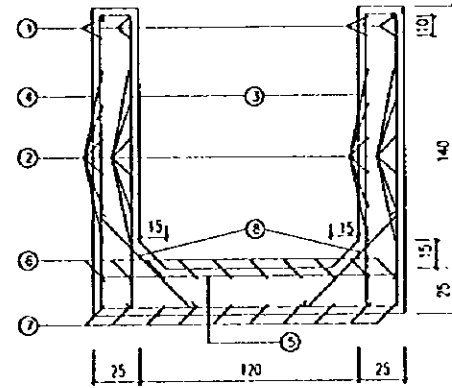
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|--|--------------------|----------------------------------|--------|---------|--------|--------------------------------|
| | | φ10 | φ12 | φ16 | φ18 | |
| P261+20 P261+20 H208+11.75 H206+11.75 | 4 | 3082.4 | 2870.8 | 13562.8 | 5415.2 | 152.248 |
| TOTAL | | 3082.4 | 2870.8 | 13562.8 | 5415.2 | 152.248 |

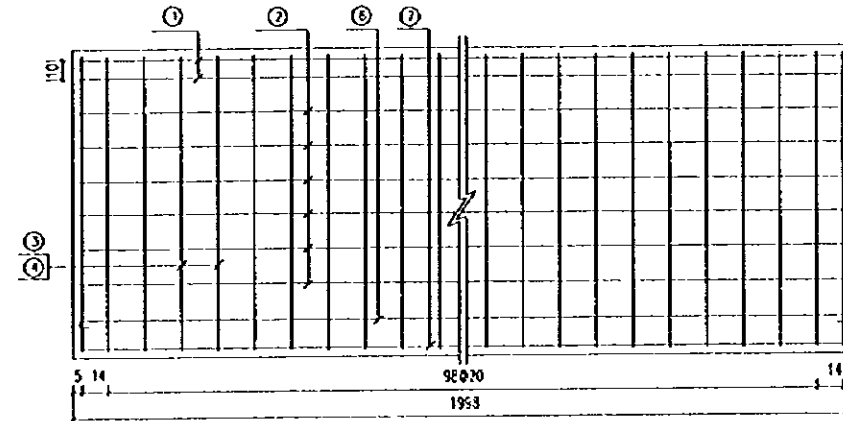
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(S4-1) | |
| SCALE | DWG1-DB(17/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 3 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

P257+02 - P257+27
P208+34 P208+34 BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|----|------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1991 | φ14 | 8 | --- | 1991 | 159.28 | 192.7 |
| ② | 1991 | φ10 | 24 | --- | 1991 | 477.84 | 294.8 |
| ③ | | φ12 | 202 | 20 | 191 | 385.82 | 342.6 |
| ④ | | φ12 | 101 | 20 | 494 | 498.94 | 443.1 |
| ⑤ | | φ12 | 101 | 20 | 178 | 179.78 | 159.6 |
| ⑥ | 1991 | φ14 | 10 | --- | 2009 | 200.90 | 243.1 |
| ⑦ | 1991 | φ14 | 10 | --- | 1991 | 199.10 | 240.9 |
| ⑧ | | φ10 | 202 | 20 | 88 | 177.76 | 109.7 |

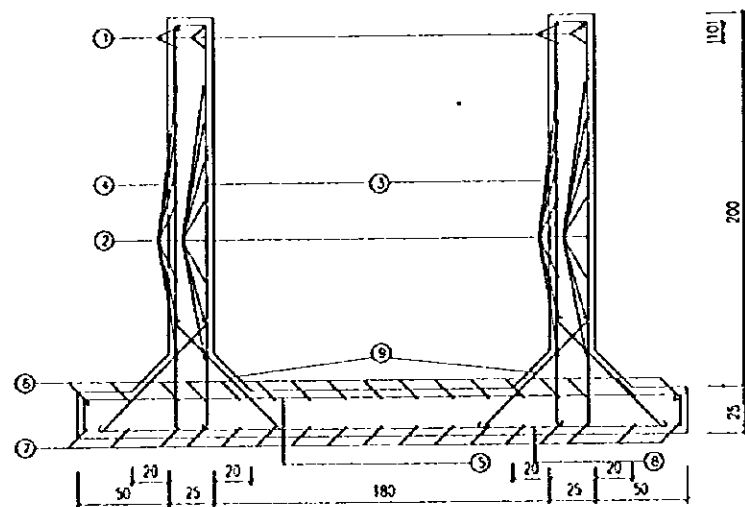
QUANTITIES OF MATERIALS

| φ10 (kg) | φ12 (kg) | φ14 (kg) | C25 CONCRETE (m ³) |
|----------|----------|----------|--------------------------------|
| 404.5 | 945.3 | 676.7 | 22.927 |

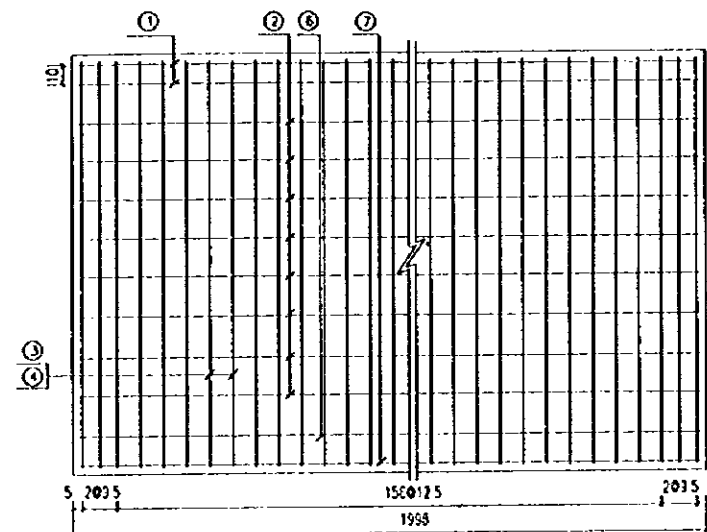
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 3 RC CULVERT(B4-1) | |
| SCALE | DWG-08(78/35) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|--|---------------|------|------------|-------------|------------------|-------------------|
| ① | —1991 | φ16 | 8 | --- | 1991 | 159.28 | 251.7 |
| ② | —1991 | φ10 | 32 | --- | 1991 | 637.12 | 393.1 |
| ③ | $\begin{matrix} 18 \\ \text{---} \\ 718 \end{matrix}$ | φ12 | 322 | 12.5 | 251 | 808.22 | 717.7 |
| ④ | $\begin{matrix} 718 \\ \text{---} \\ 18 \end{matrix}$ | φ16 | 322 | 12.5 | 256 | 824.32 | 1302.4 |
| ⑤ | $\begin{matrix} 323 \\ \text{---} \\ 323 \end{matrix}$ | φ16 | 161 | 12.5 | 343 | 552.23 | 872.5 |
| ⑥ | —1991 | φ18 | 17 | --- | 1991 | 338.47 | 676.9 |
| ⑦ | —1991 | φ18 | 17 | --- | 1991 | 338.47 | 676.9 |
| ⑧ | $\begin{matrix} 18 \\ \text{---} \\ 323 \end{matrix}$ | φ16 | 161 | 12.5 | 379 | 610.19 | 964.1 |
| ⑨ | $\begin{matrix} 25 \\ \text{---} \\ 82 \end{matrix}$ | φ10 | 644 | 12.5 | 95 | 611.8 | 377.5 |

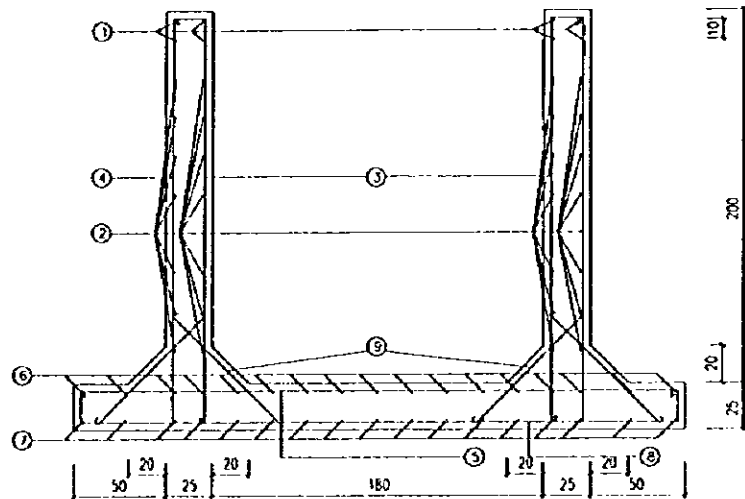
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|--|--------------------|----------------------------------|--------|---------|--------|--------------------------------|
| | | φ10 | φ12 | φ16 | φ18 | |
| P270+10 P270+10 H208+11.75 H208+11.75 | 4 | 3082.4 | 2870.8 | 13562.8 | 5415.2 | 152.248 |
| TOTAL | | 3082.4 | 2870.8 | 13562.8 | 5415.2 | 152.248 |

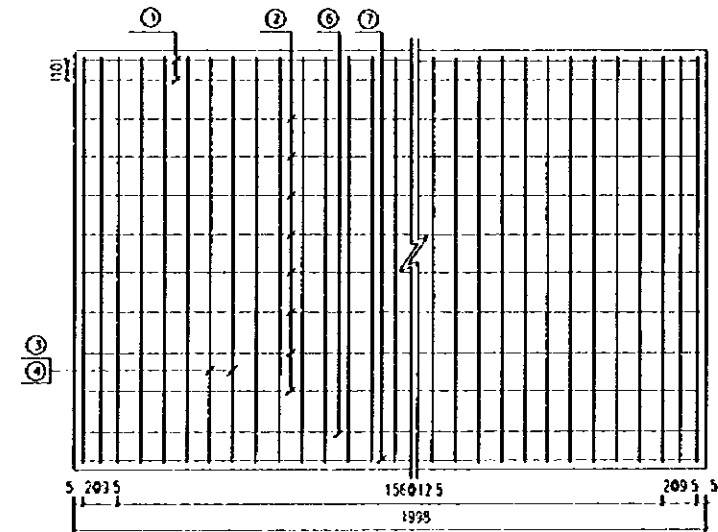
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(BA-2) | |
| SCALE | 1:200 |
| ONGI-D8(79/85) | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|--|---------------|------|------------|-------------|------------------|-------------------|
| ① | — 1991 | φ16 | 8 | — | 1991 | 159.28 | 251.7 |
| ② | — 1991 | φ10 | 32 | — | 1991 | 637.12 | 593.1 |
| ③ | $\begin{matrix} 18 \\ \text{---} \\ 210 \end{matrix}$ | φ12 | 322 | 12.5 | 251 | 808.22 | 717.7 |
| ④ | $\begin{matrix} 218 \\ \text{---} \\ 18 \end{matrix}$ | φ16 | 322 | 12.5 | 256 | 824.32 | 1302.4 |
| ⑤ | $\begin{matrix} 323 \\ \text{---} \\ 323 \end{matrix}$ | φ16 | 161 | 12.5 | 343 | 552.23 | 872.5 |
| ⑥ | — 1991 | φ18 | 17 | — | 1991 | 338.47 | 676.9 |
| ⑦ | — 1991 | φ18 | 17 | — | 1991 | 338.47 | 676.9 |
| ⑧ | $\begin{matrix} 18 \\ \text{---} \\ 323 \end{matrix}$ | φ16 | 161 | 12.5 | 379 | 610.19 | 964.1 |
| ⑨ | $\begin{matrix} \text{---} \\ \text{---} \\ 82 \end{matrix}$ | φ10 | 644 | 12.5 | 95 | 611.8 | 377.5 |

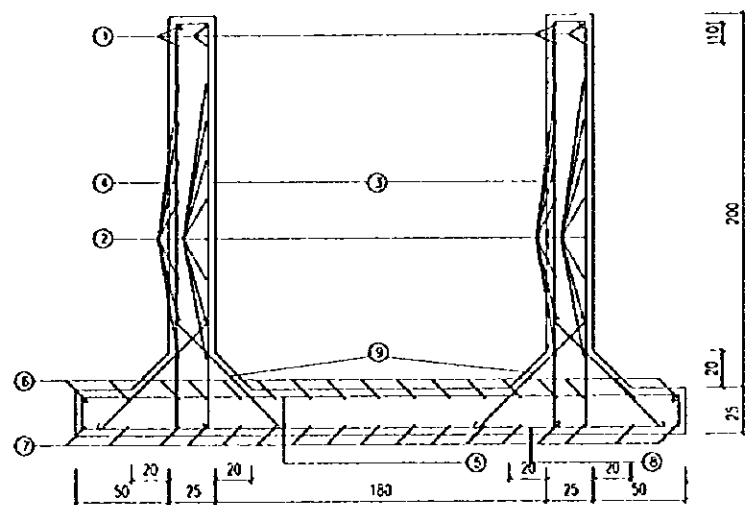
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|--|--------------------|----------------------------------|--------|---------|--------|--------------------------------|
| | | φ10 | φ12 | φ16 | φ18 | |
| P281+20 P281+20 1+208+11.75 1+205+11.75 | 4 | 3082.4 | 2870.8 | 13562.8 | 5415.2 | 152.248 |
| TOTAL | | 3082.4 | 2870.8 | 13562.8 | 5415.2 | 152.248 |

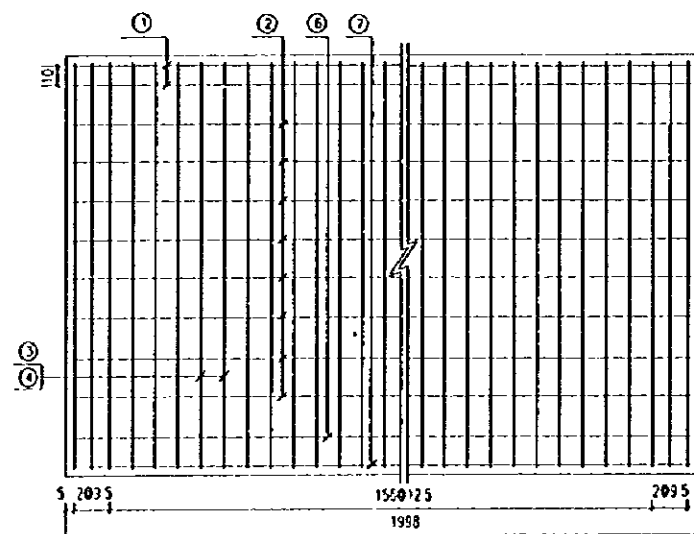
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(84-3) | |
| SCALE $\frac{1}{200}$ | DWG1-D8(80/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | — 1991 | ∅16 | 8 | — | 1991 | 159.28 | 251.7 |
| ② | — 1991 | ∅10 | 32 | — | 1991 | 637.12 | 393.1 |
| ③ | | ∅12 | 322 | 12.5 | 251 | 808.22 | 717.7 |
| ④ | | ∅16 | 322 | 12.5 | 256 | 824.32 | 1302.4 |
| ⑤ | | ∅16 | 161 | 12.5 | 343 | 552.23 | 872.5 |
| ⑥ | — 1991 | ∅18 | 17 | — | 1991 | 338.47 | 676.9 |
| ⑦ | — 1991 | ∅18 | 17 | — | 1991 | 338.47 | 676.9 |
| ⑧ | | ∅16 | 161 | 12.5 | 379 | 610.19 | 964.1 |
| ⑨ | | ∅10 | 644 | 12.5 | 95 | 611.8 | 377.5 |

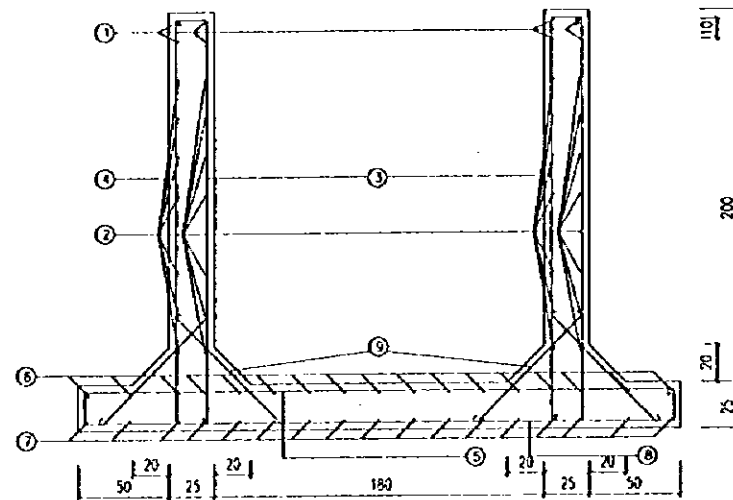
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|--|--------------------|----------------------------------|--------|---------|--------|--------------------------------|
| | | ∅10 | ∅12 | ∅16 | ∅18 | |
| P291+20 P291+20 H208+12.35 H206+12.35 | 4 | 3082.4 | 2870.8 | 13562.8 | 5415.2 | 152.248 |
| TOTAL | | 3082.4 | 2870.8 | 13562.8 | 5415.2 | 152.248 |

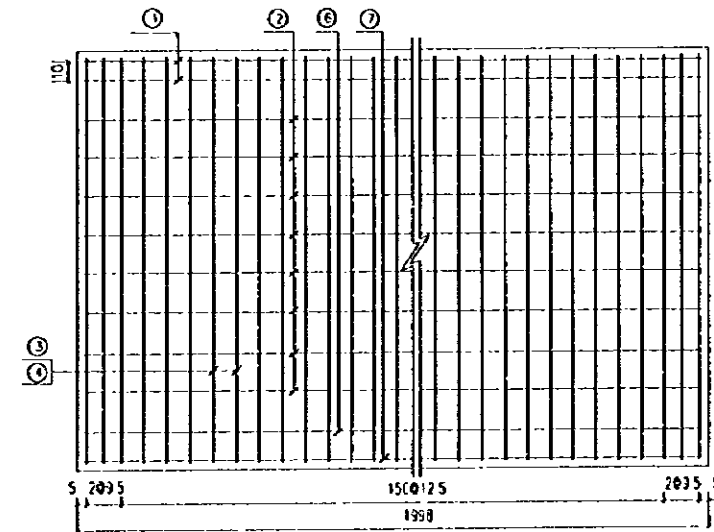
NOTE:

1. Unit : cm.

| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997 | |
| REINFORCEMENT OF TYPE 2 RC CULVERT(84-4) | |
| SCALE | DWG1-08(81/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|----|------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | — 1991 — | φ16 | 8 | — | 1991 | 159.28 | 251.7 |
| ② | — 1991 — | φ10 | 32 | — | 1991 | 637.12 | 393.1 |
| ③ | | φ12 | 322 | 12.5 | 251 | 808.22 | 717.7 |
| ④ | | φ16 | 322 | 12.5 | 256 | 824.32 | 1302.4 |
| ⑤ | | φ16 | 161 | 12.5 | 343 | 552.23 | 872.5 |
| ⑥ | — 1991 — | φ18 | 17 | — | 1991 | 338.47 | 676.9 |
| ⑦ | — 1991 — | φ18 | 17 | — | 1991 | 338.47 | 676.9 |
| ⑧ | | φ16 | 161 | 12.5 | 379 | 610.19 | 964.1 |
| ⑨ | | φ10 | 644 | 12.5 | 95 | 611.8 | 377.5 |

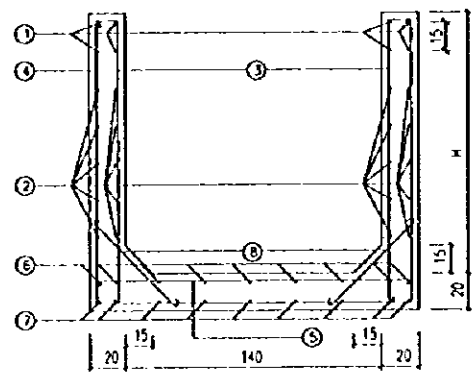
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | C25 CONCRETE (m ³) |
|---|--------------------|----------------------------------|--------|---------|--------|--------------------------------|
| | | φ10 | φ12 | φ16 | φ18 | |
| P303+00 ~ P303+00 H208+9.5 ~ H208+29.5 | 3 | 2311.8 | 2153.1 | 10172.1 | 4061.4 | 114.186 |
| TOTAL | | 2311.8 | 2153.1 | 10172.1 | 4061.4 | 114.186 |

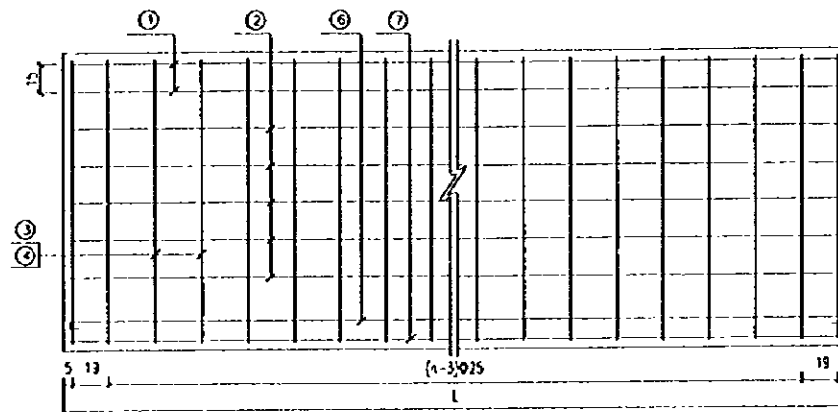
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(B4-S) | |
| SCALE | DWG1-D8(82/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 1 RC DITCH
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) |
|-----|--|---------------|------|------------|-------------|
| ① | L-7 | φ12 | 8 | — | L-7 |
| ② | L-7 | φ8 | m | — | L-7 |
| ③ | $\left\{ \begin{array}{l} 11 \\ 2 \end{array} \right\} \frac{11}{2}$ | φ8 | 2n | 25 | 11+36 |
| ④ | $\left[\begin{array}{l} 11 \\ 2 \end{array} \right] \frac{11}{2}$ | φ12 | n | 25 | 211+214 |
| ⑤ | $\left[\begin{array}{l} 11 \\ 2 \end{array} \right]$ | φ10 | n | 25 | 186 |
| ⑥ | L-7 | φ10 | 9 | — | L+6 |
| ⑦ | L-7 | φ12 | 9 | — | L-7 |
| ⑧ | $\left[\begin{array}{l} 11 \\ 2 \end{array} \right]$ | φ8 | 2n | 25 | 71 |

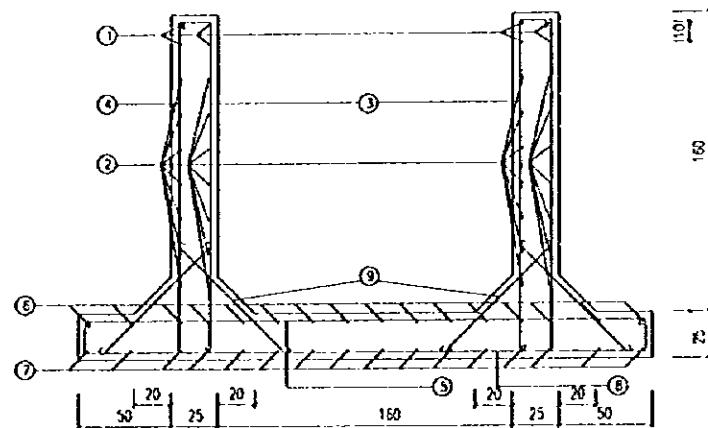
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | H (cm) | | m | n | QUANTITIES OF REINFORCEMENT (kg) | | | C25 CONCRETE (m ³) |
|--|--------------------|---------|------|----|----|----------------------------------|--------|---------|--------------------------------|
| | | 11 | L | | | φ8 | φ10 | φ12 | |
| P243+10 ~ P253+30 H221+30 ~ H221+30 | 21 | 102~130 | 1998 | 16 | 81 | 5639.1 | 4289.0 | 13048.6 | 355.174 |
| P253+30 ~ P254+00 H221+30 ~ H221+30 | 1 | 130~131 | 998 | 20 | 41 | 155.2 | 102.8 | 322.5 | 9.027 |
| TOTAL | | | | | | 5794.3 | 4391.8 | 13371.1 | 364.201 |

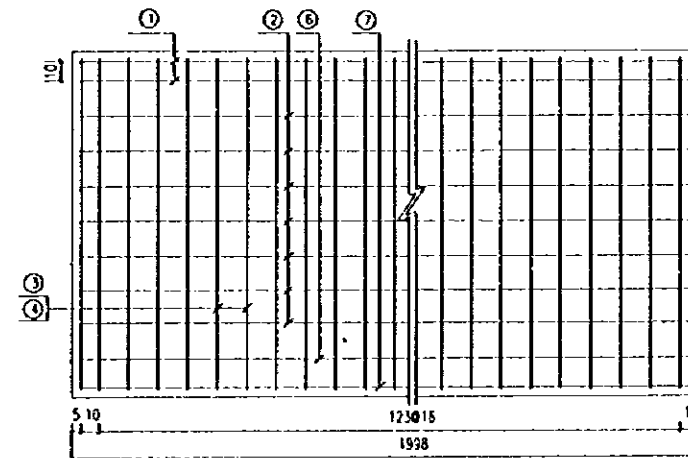
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 1 RC DITCH(85) | |
| SCALE $\frac{1}{20}$ | DWG1-D8(83/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 2 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

| No | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|----|------------|---------------|------|------------|-------------|------------------|-------------------|
| ① | 1331 | φ16 | 8 | --- | 1991 | 159.28 | 251.7 |
| ② | 1991 | φ10 | 28 | --- | 1991 | 557.48 | 344.0 |
| ③ | | φ12 | 252 | 16 | 211 | 531.72 | 472.2 |
| ④ | | φ14 | 252 | 16 | 214 | 539.28 | 652.5 |
| ⑤ | | φ14 | 126 | 16 | 321 | 404.46 | 489.4 |
| ⑥ | 1331 | φ18 | 16 | --- | 1991 | 318.56 | 637.1 |
| ⑦ | 1331 | φ18 | 16 | --- | 1991 | 318.56 | 637.1 |
| ⑧ | | φ14 | 126 | 16 | 354 | 446.04 | 539.7 |
| ⑨ | | φ10 | 504 | 16 | 95 | 478.80 | 295.4 |

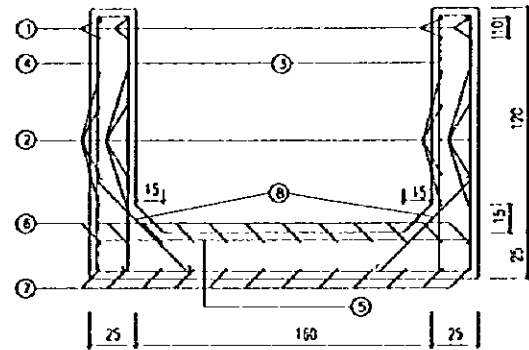
SEGMENTS AND QUANTITIES OF MATERIALS

| STARTING/ENDING COORDINATES | NUMBER OF SEGMENTS | QUANTITIES OF REINFORCEMENT (kg) | | | | | C25 CONCRETE (m ³) | |
|-----------------------------|-----------------------|----------------------------------|--------|--------|--------|--------|--------------------------------|---------|
| | | φ10 | φ12 | φ14 | φ16 | φ18 | | |
| P254+20 H206+30.75 | P254+20 H206+10.75 | 5 | 3197.0 | 2361.0 | 8408.0 | 1258.5 | 6371.0 | 165.335 |
| TOTAL | | | 3197.0 | 2361.0 | 8408.0 | 1258.5 | 6371.0 | 165.335 |

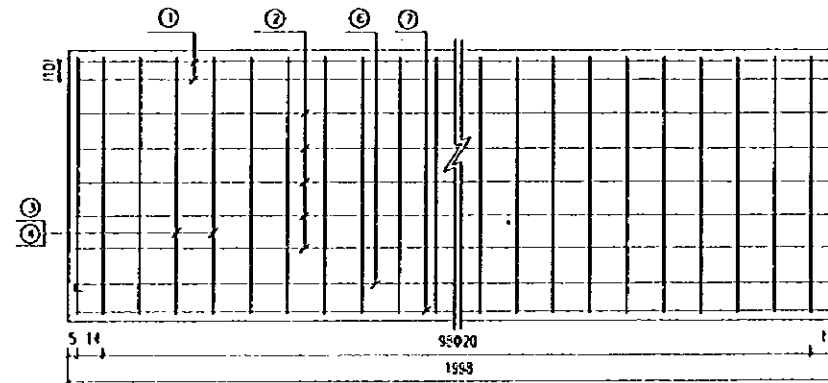
NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 2 RC CULVERT(B5) | |
| SCALE | DWG: D8(B4/B5) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



REINFORCEMENT OF TYPE 3 RC CULVERT
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

P254+20 - P254+20 BENDING SCHEDULE
H214+20 H214+00

| No. | SHAPE (cm) | DIAMETER (mm) | No's | PITCH (cm) | LENGTH (cm) | TOTAL LENGTH (m) | TOTAL WEIGHT (kg) |
|-----|--|---------------|------|------------|-------------|------------------|-------------------|
| ① | —1991— | φ14 | 8 | — | 1991 | 159.28 | 192.7 |
| ② | —1991— | φ10 | 20 | — | 1991 | 398.20 | 245.7 |
| ③ | $\left[\begin{array}{l} 18 \\ 24 \end{array} \right]$ | φ10 | 202 | 20 | 169 | 341.38 | 210.6 |
| ④ | $\left[\begin{array}{l} 20 \\ 25 \end{array} \right]$ | φ12 | 101 | 20 | 494 | 498.94 | 443.1 |
| ⑤ | $\left[\begin{array}{l} 20 \\ 25 \end{array} \right]$ | φ16 | 101 | 20 | 223 | 225.23 | 355.9 |
| ⑥ | —1991— | φ14 | 12 | — | 2009 | 241.08 | 291.7 |
| ⑦ | —1991— | φ14 | 12 | — | 1991 | 238.92 | 289.1 |
| ⑧ | $\left[\begin{array}{l} 75 \\ 75 \end{array} \right]$ | φ10 | 202 | 20 | 88 | 177.76 | 103.7 |

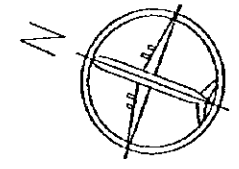
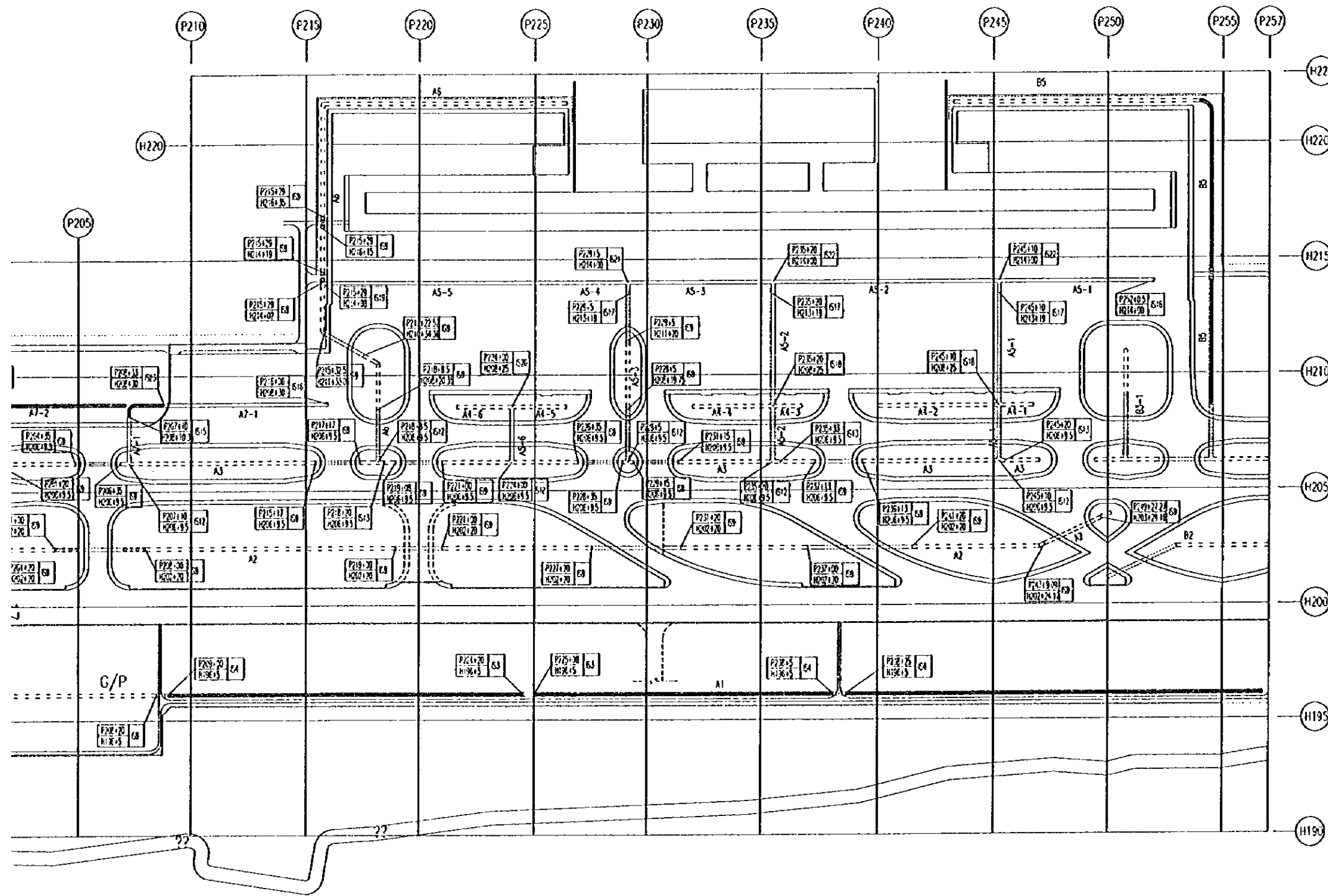
QUANTITIES OF MATERIALS

| φ10 (kg) | φ12 (kg) | φ14 (kg) | φ16 (kg) | C25 CONCRETE (m ³) |
|----------|----------|----------|----------|--------------------------------|
| 566.0 | 443.1 | 773.5 | 355.9 | 22.927 |

NOTE:

1. Unit : cm.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| REINFORCEMENT OF TYPE 3 RC CULVERT(85) | |
| SCALE $\frac{1}{20}$ | DWG1-DB(85/85) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |

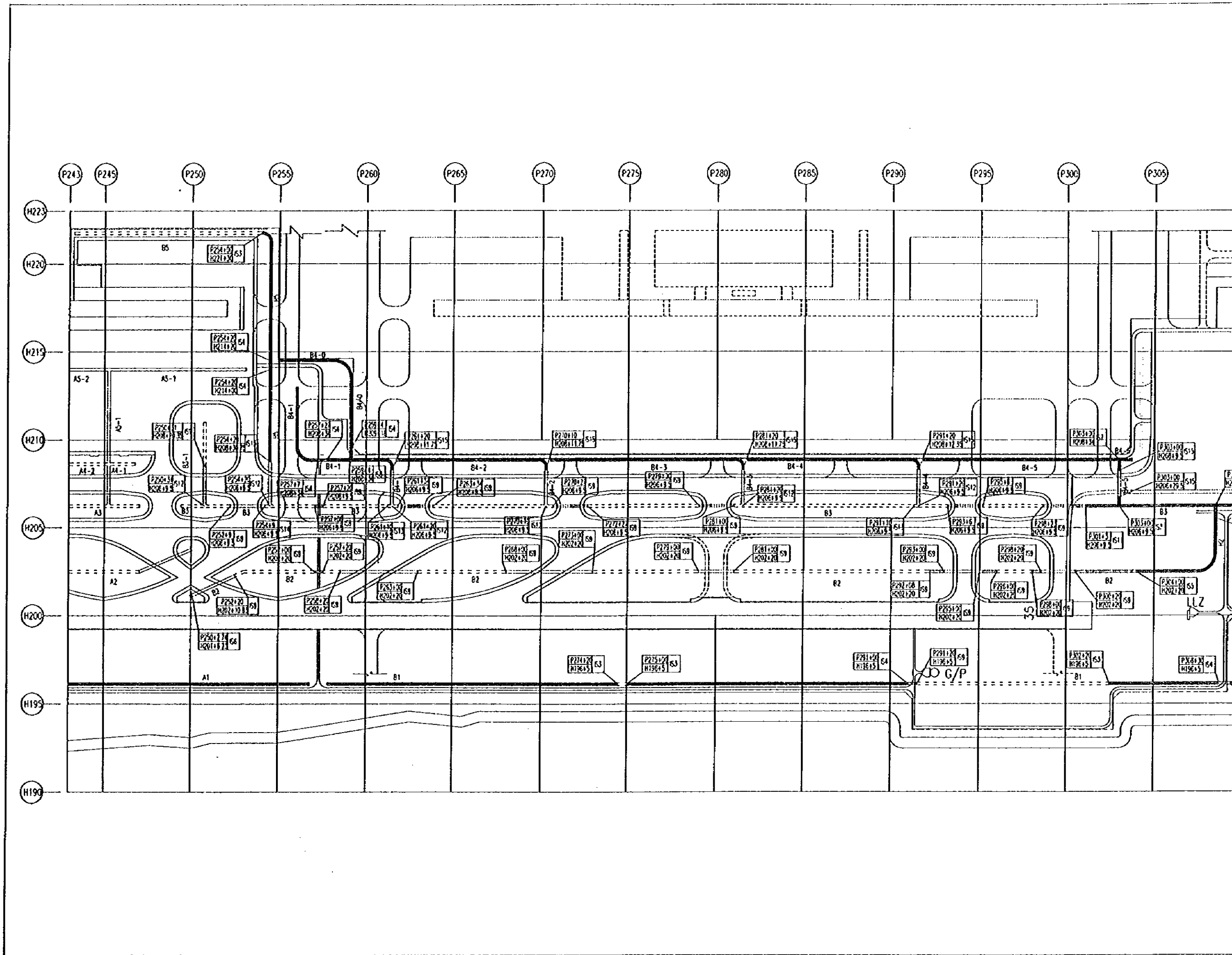


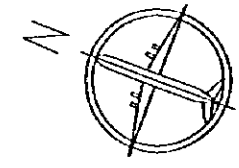
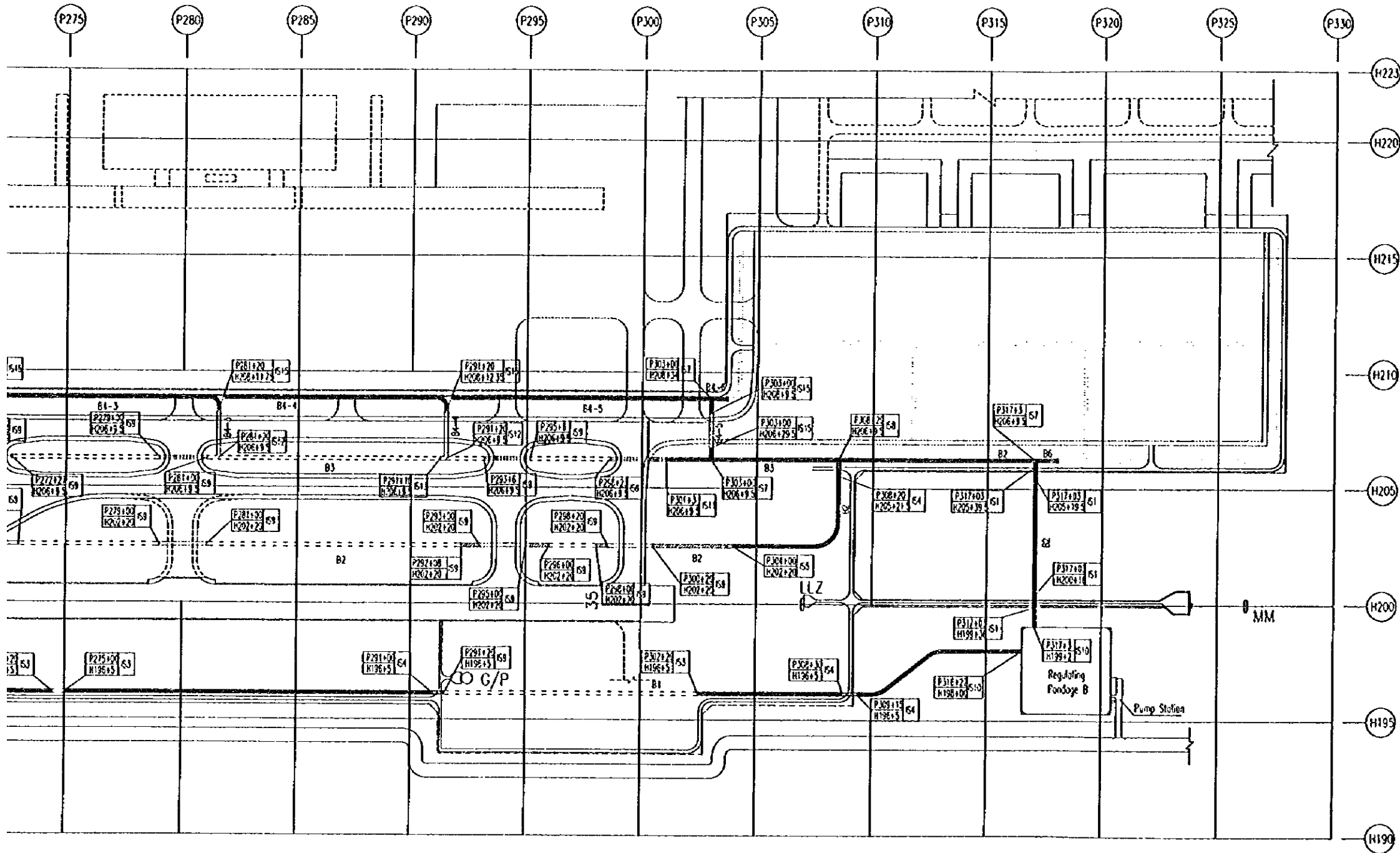
NOTE

- 1. Unit: m.
- 2. Legend:

| | | | | | |
|----------------|---|----------------|-----------|----------------|---------------|
| | MASONRY DITCH | | | | |
| | TYPE 1 U-SHAPE RC DITCH | | | | |
| | TYPE 1 RC DITCH | | | | |
| | TYPE 1 RC CULVERT | | | | |
| | TYPE 2 RC CULVERT | | | | |
| | TYPE 2 RC DITCH | | | | |
| | TYPE 2 BOX CULVERT | | | | |
| | TYPE 3 RC CULVERT | | | | |
| | TYPE 3 BOX CULVERT | | | | |
| | CULVERT | | | | |
| | <table border="1" style="font-size: small;"> <tr> <td>P Coor. Grades</td> <td>Number of</td> </tr> <tr> <td>H Coor. Grades</td> <td>Intersections</td> </tr> </table> | P Coor. Grades | Number of | H Coor. Grades | Intersections |
| P Coor. Grades | Number of | | | | |
| H Coor. Grades | Intersections | | | | |

| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| INDEX PLAN FOR STORM DRAINAGE INTERSECTION STRUCTURES(1/2) | |
| SCALE | DWG1-09(1/29) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |

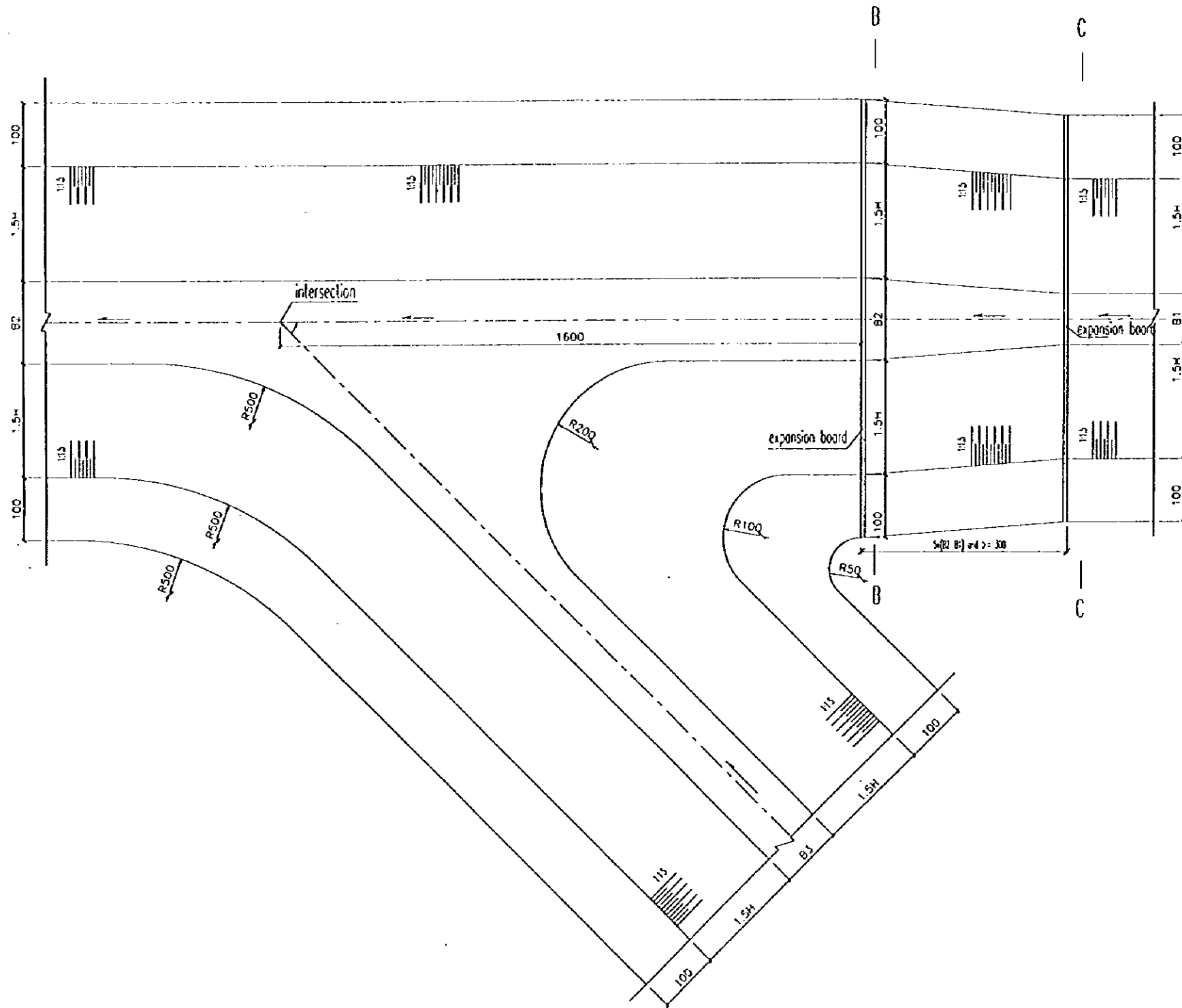




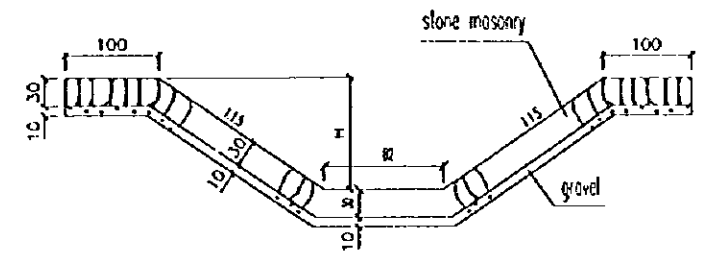
NOTE

1. Unit:m.
2. Legend:

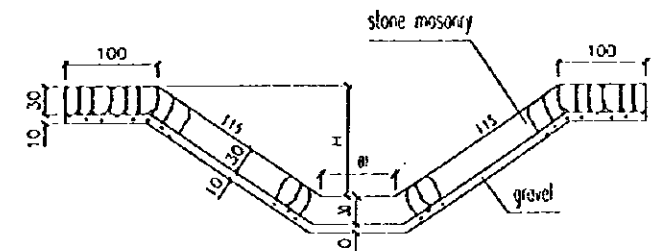
| | |
|--|--|
| | MASONRY DITCH |
| | TYPE 1 U-SHAPE RC DITCH |
| | TYPE 1 RC DITCH |
| | TYPE 1 RC CULVERT |
| | TYPE 2 RC CULVERT |
| | TYPE 2 RC DITCH |
| | TYPE 2 BOX CULVERT |
| | TYPE 3 RC CULVERT |
| | TYPE 3 BOX CULVERT |
| | INLET |
| | P Coordinates Number of H Coordinates Intersection |



Plane



B-B

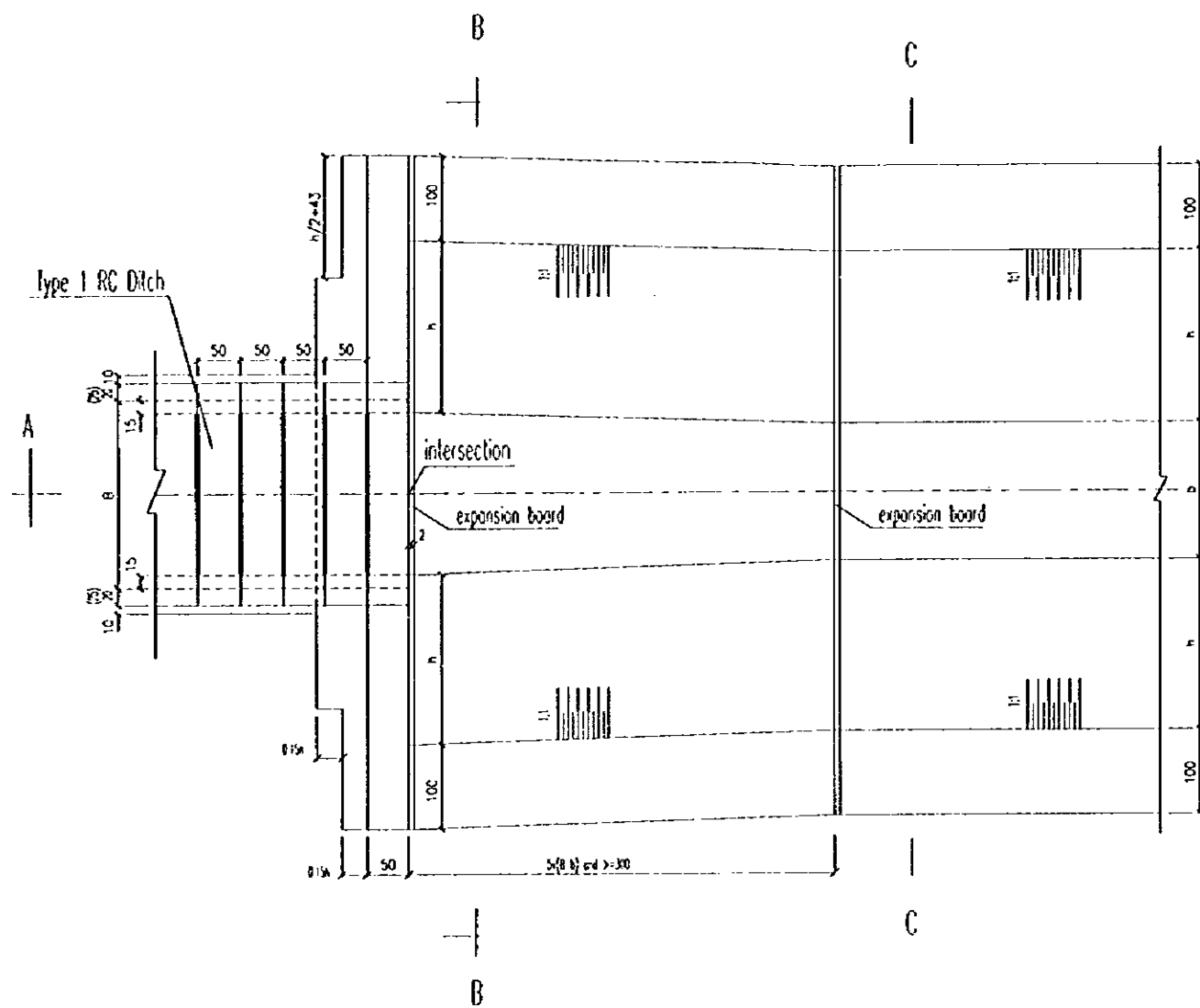


C-C

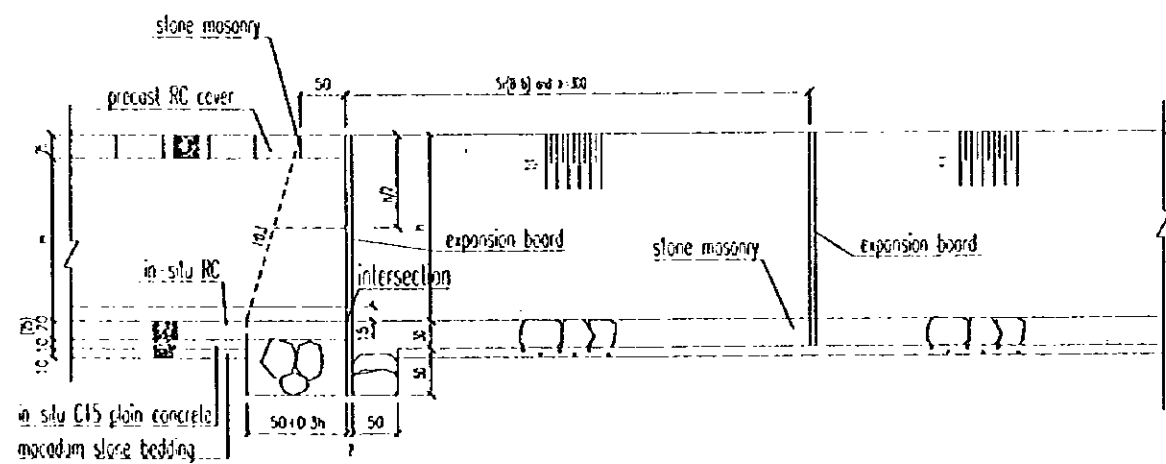
NOTE

1. Unit: cm.
2. Expansion joint material: 2cm thickness timber board
3. See "DWG1-D9(1~2/29)" for coordinates of intersection.

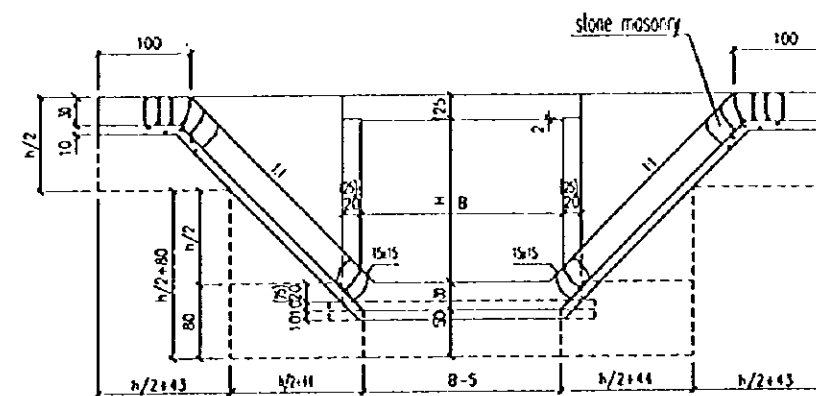
| | |
|--|---------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT SEPTEMBER 1997 | |
| DETAILS OF STORM DRAINAGE INTERSECTION STRUCTURES (S2) | |
| NO. SCALE | DWG1-D9(1/29) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



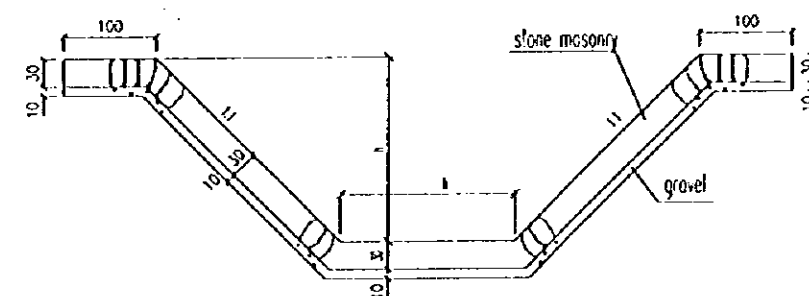
Plane



A--A



B--B

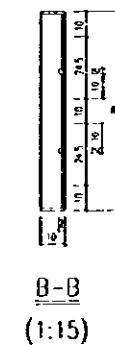
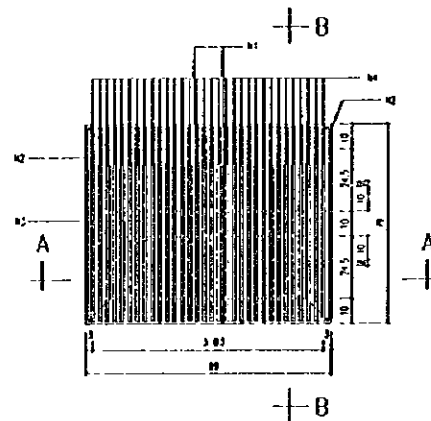
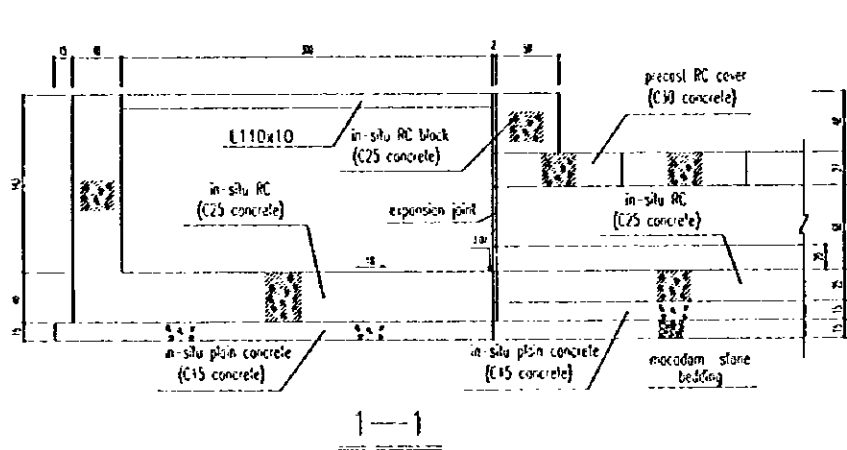
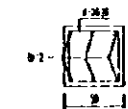
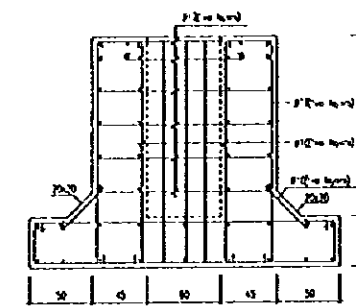
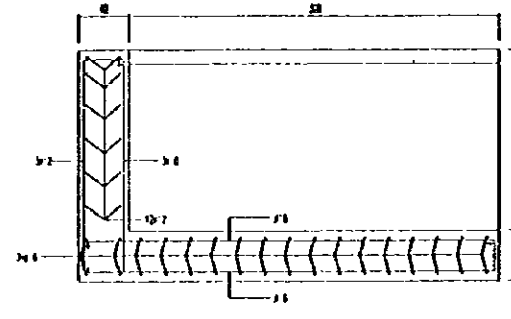
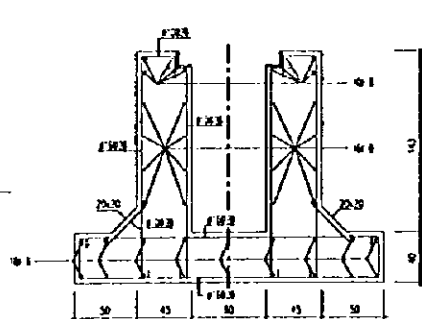
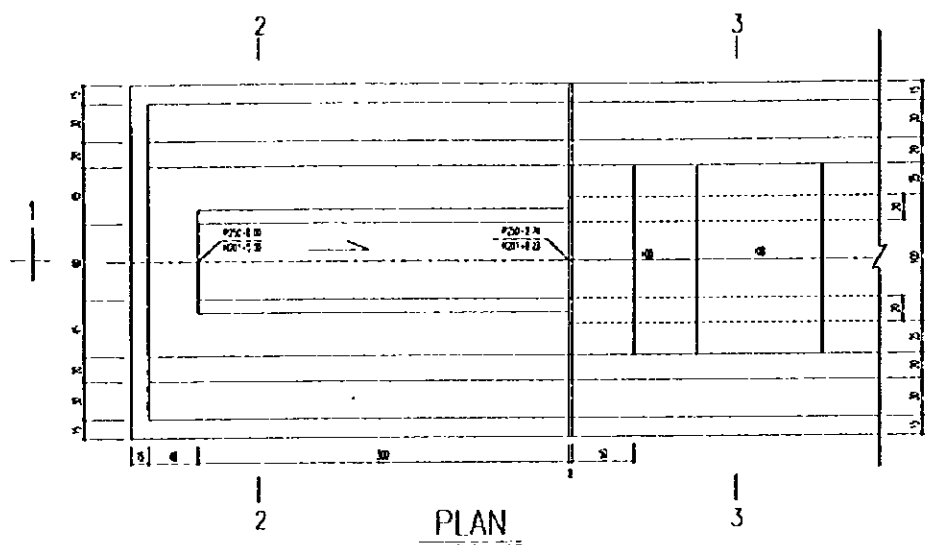


C--C

NOTE

1. Unit: cm.
2. Expansion joint material: 2cm thickness timber board.
3. See "DWG1-D9(1~2/29)" for coordinates of intersection.

| | |
|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| DETAILS OF STORM DRAINAGE INTERSECTION STRUCTURES(SJ) | |
| NO SCALE | DWG1-D9(5/29) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |

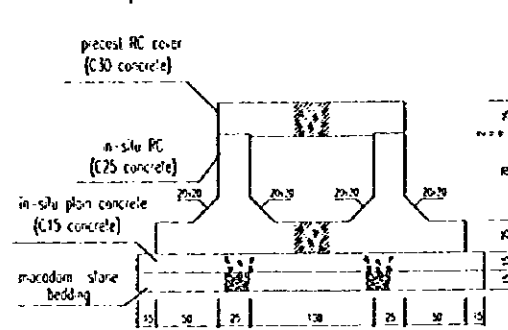
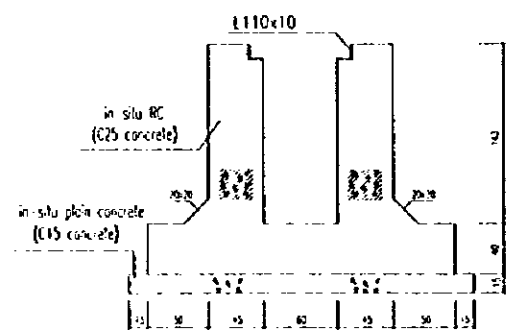
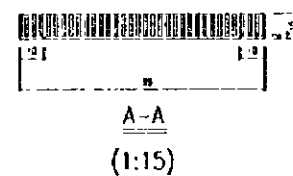


Material Quantities

| No. | Reinforced Bar | | | Concrete | | Angle Steel | No. of Steel Grating |
|--------|----------------|------|-------|----------------|------|-------------|----------------------|
| | Ø10 | Ø12 | Ø16 | C25 | C15 | | |
| Unit | kg | | | m ³ | | kg | |
| Amount | 109.4 | 30.1 | 427.4 | 9.13 | 1.49 | 100.2 | 3 |

Material Quantities of Each Steel Grating

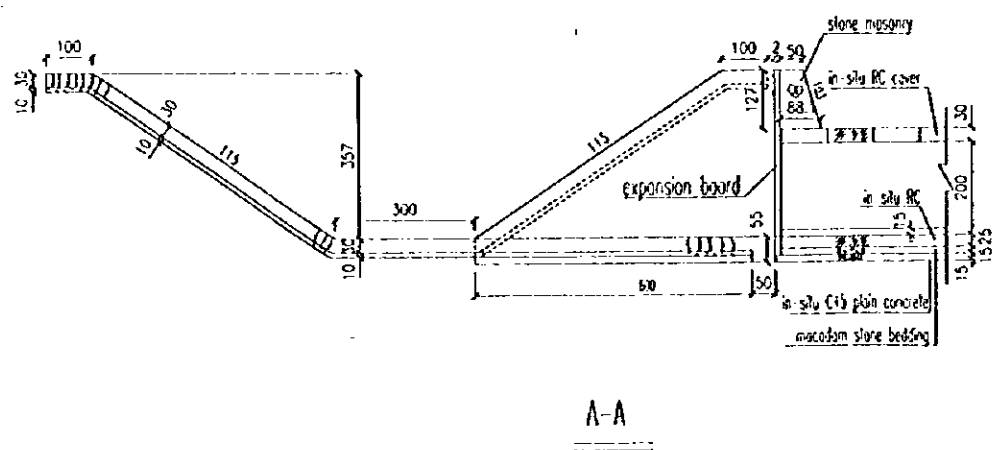
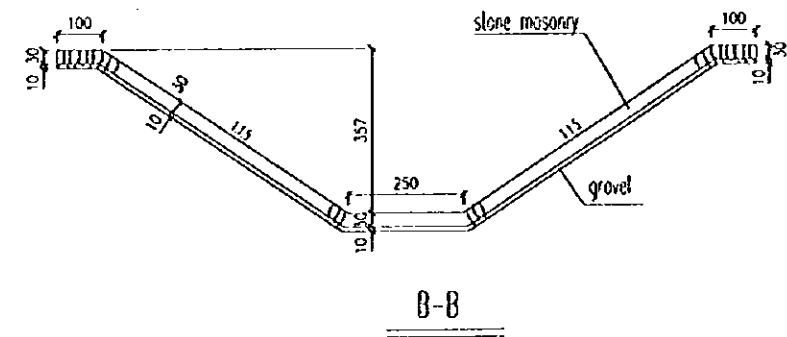
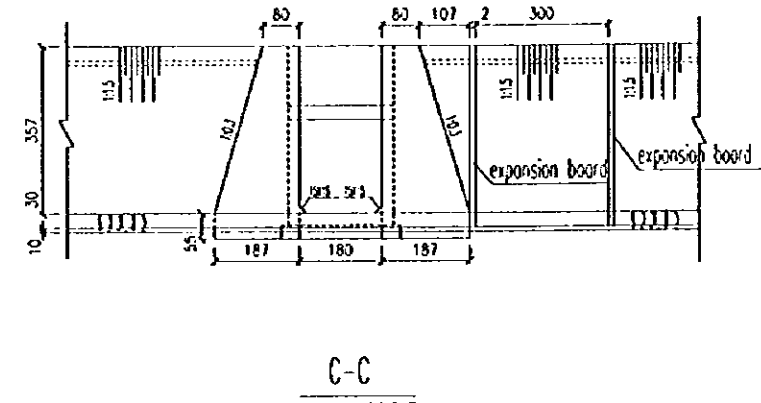
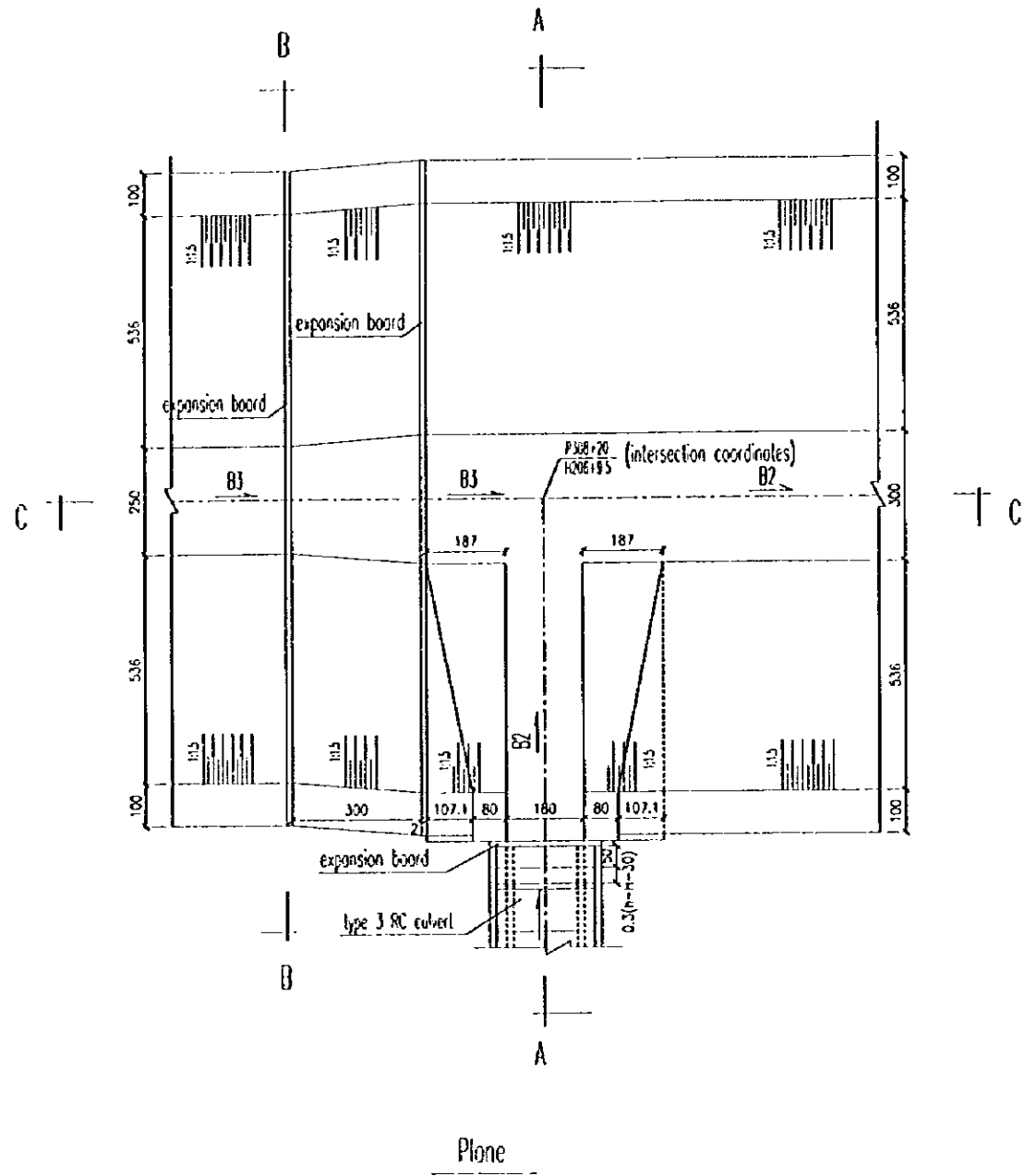
| No. | Specifications (mm) | Length (mm) | No. | Total Length (m) | Total Weight (kg) |
|-----|---------------------|-------------|-----|------------------|-------------------|
| 1 | Angle Steel L125x10 | 99.0 | 2 | 1.980 | 29.5 |
| 2 | Angle Steel L100x10 | 79.0 | 7 | 5.530 | 23.08 |
| 3 | Flat Steel 100x10 | 79.0 | 1 | 0.790 | 6.70 |
| 4 | Flat Steel 80x10 | 79.0 | 32 | 24.640 | 243.68 |



NOTE

1. Units : for dimensions , cm; for heights , m.
2. Scale : 1:30 , except otherwise shown .
3. Material for steel gratings : 16Mn steel .
4. Three steel gratings are covered on the top of the RC structure .

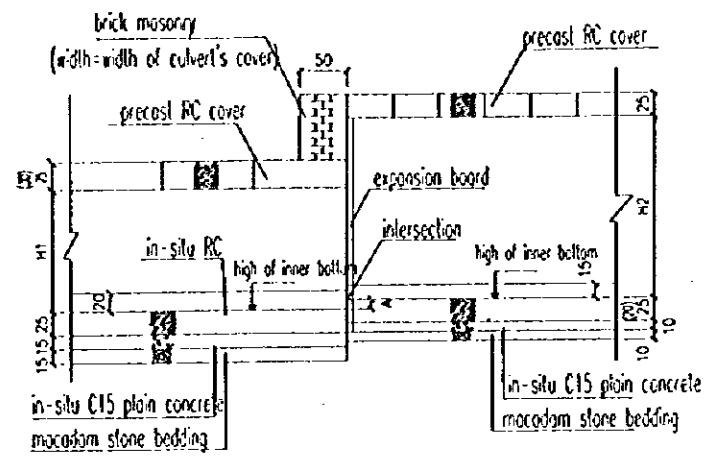
| | |
|--|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| DETAILS OF STORM DRAINAGE INTERSECTION STRUCTURES (16) | |
| SCALE | AS NOTED |
| DWG-09(B/23) | |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



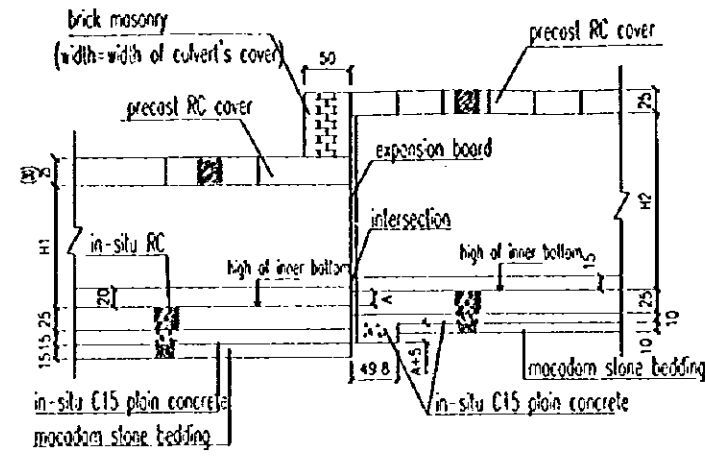
NOTE

1. Unit: cm.
2. Expansion joint material: 2cm thickness timber board.
3. See "DWG1-D9(1~2/29)" for coordinates of intersection.

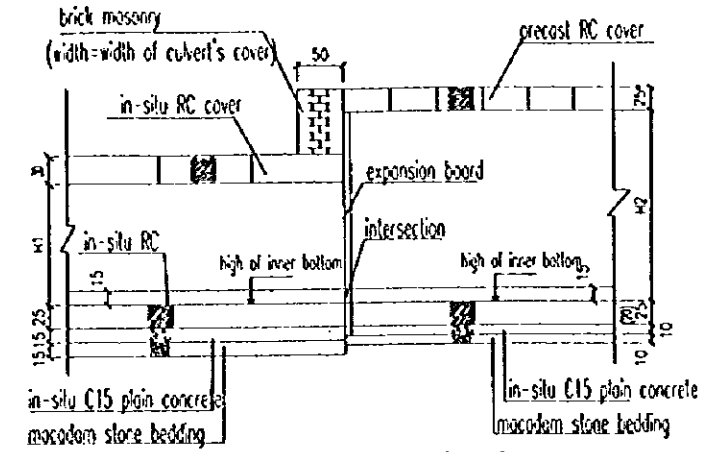
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|---|----------------|
| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| DETAILS OF STORM DRAINAGE INTERSECTION STRUCTURES (IS8) | |
| SCALE | DWG1-D9(10/29) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



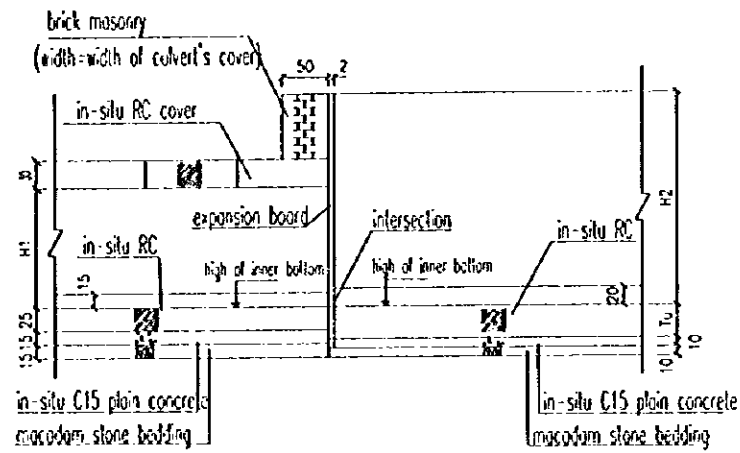
Type 1 RC Ditch Intersect
Type 2 RC Culvert(A<10cm)
(Elevation)



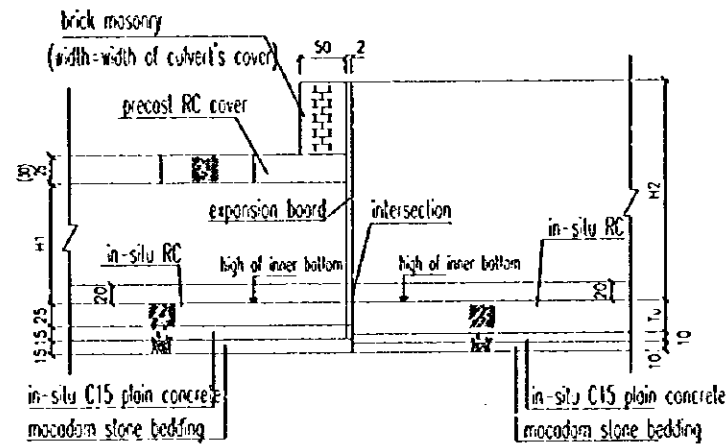
Type 1 RC Ditch Intersect
Type 2 RC Culvert(A≥10cm)
(Elevation)



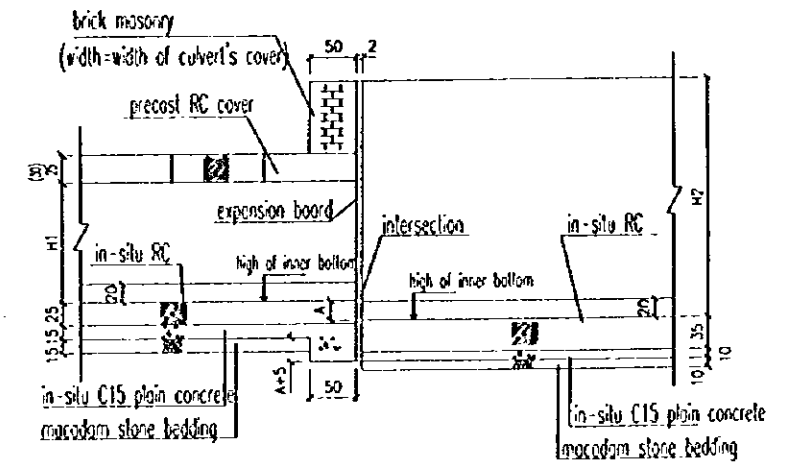
Type 1 RC Ditch Intersect
Type 3 RC Culvert
(Elevation)



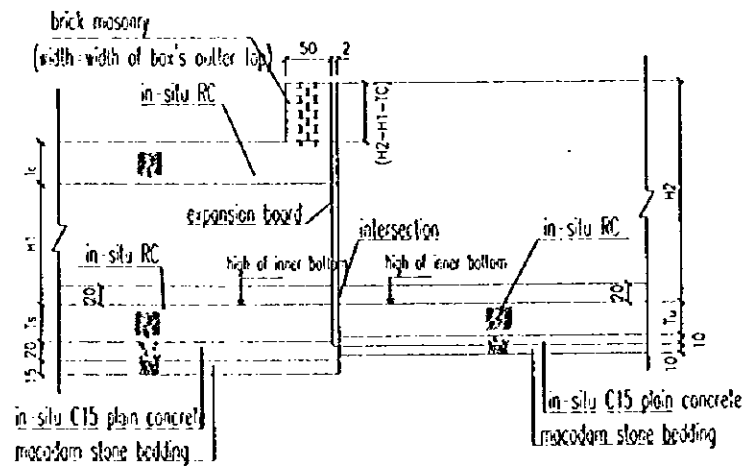
Type 1 U-shape RC Ditch intersect
Type 2 RC Culvert
(Elevation)



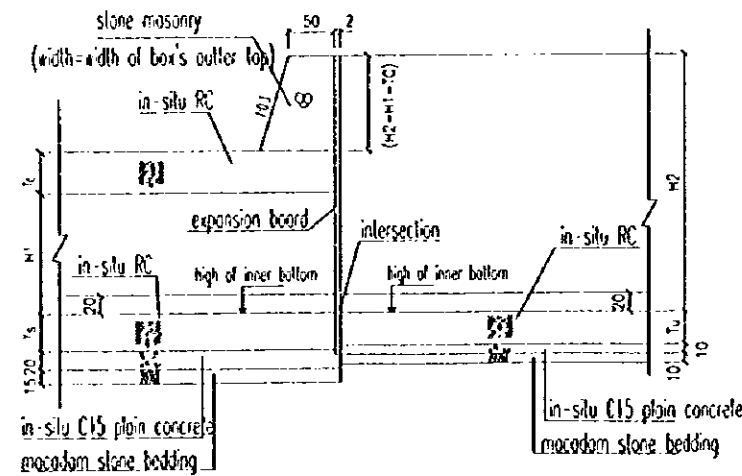
Type 1 U-shape RC Ditch intersect
Type 2 RC Culvert(A=0)
(Elevation)



Type 1 U-shape RC Ditch intersect
Type 2 RC Culvert(A≥10cm)
(Elevation)



Type 1 U-shape RC Ditch intersect
Type 2 RC Box Culvert(H2-H1-TC<100cm)
(Elevation)

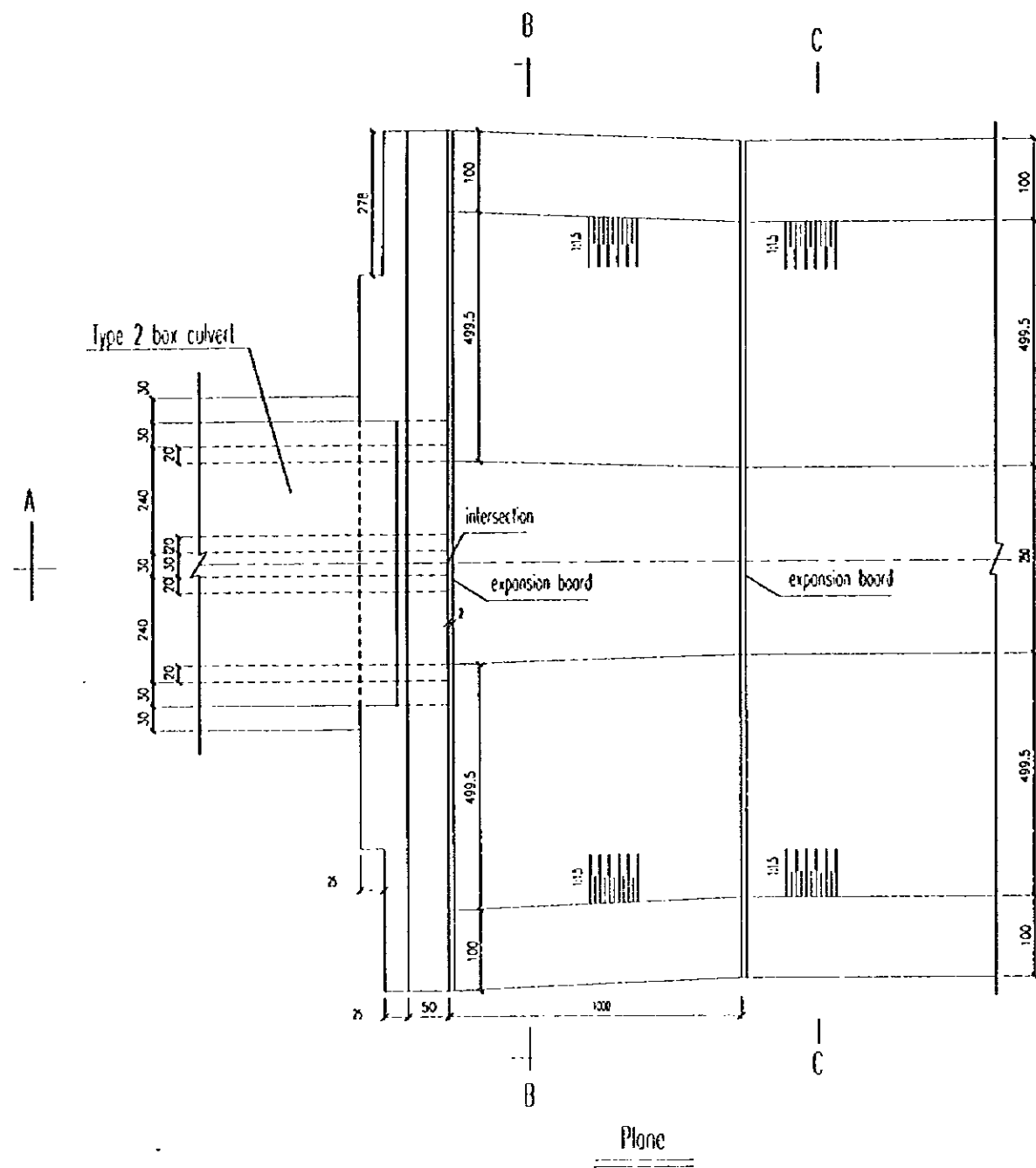


Type 1 U-shape RC Ditch intersect
Type 2 RC Box Culvert(H2-H1-TC≥100cm)
(Elevation)

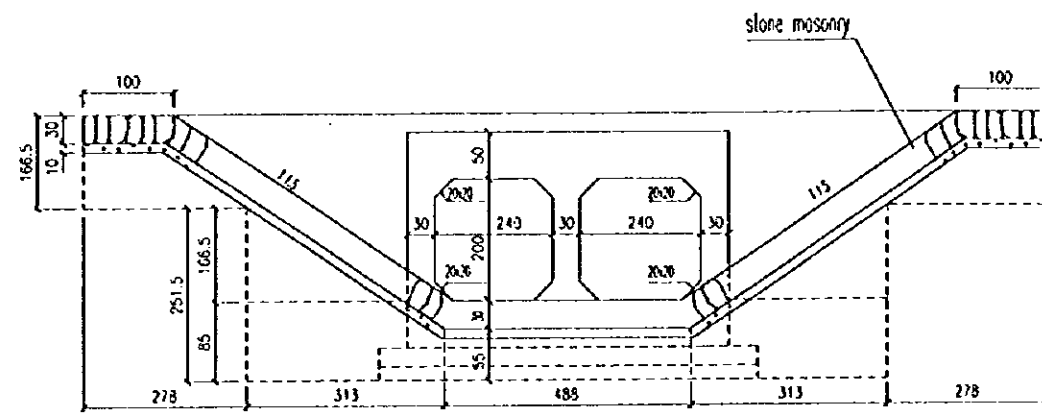
NOTE

1. Unit: cm.
2. Expansion joint material: 2cm thickness polyvinyl board.
3. See "DWG1-D9(1~2/29)" for coordinates of intersection.

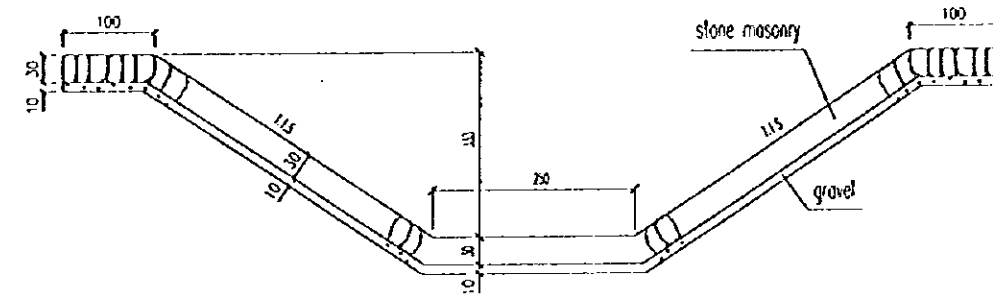
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| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| DETAILS OF STORM DRAINAGE INTERSECTION STRUCTURES (IS) | |
| NO SCALE | DWG1-D9(11/29) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |



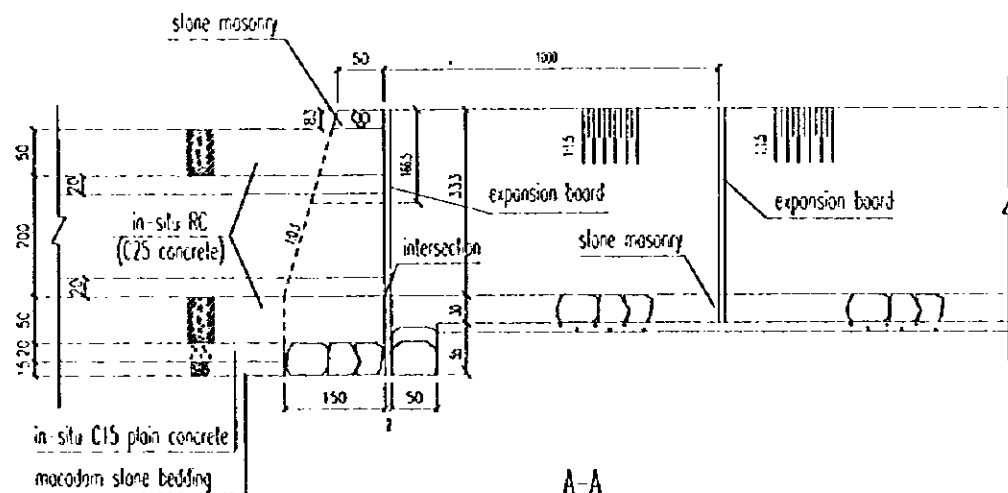
Plane



B-B



C-C



A-A

NOTE

1. Unit: cm.
2. Expansion joint material: 2cm thickness timber board
3. See "DWG1-D9(1~2/29)" for coordinates of intersection.

| | |
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| PEOPLE'S REPUBLIC OF CHINA | |
| SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997 |
| DETAILS OF STORM DRAINAGE INTERSECTION STRUCTURES (S11) | |
| NO SCALE | DWG1-D9(13/29) |
| JAPAN INTERNATIONAL COOPERATION AGENCY | |