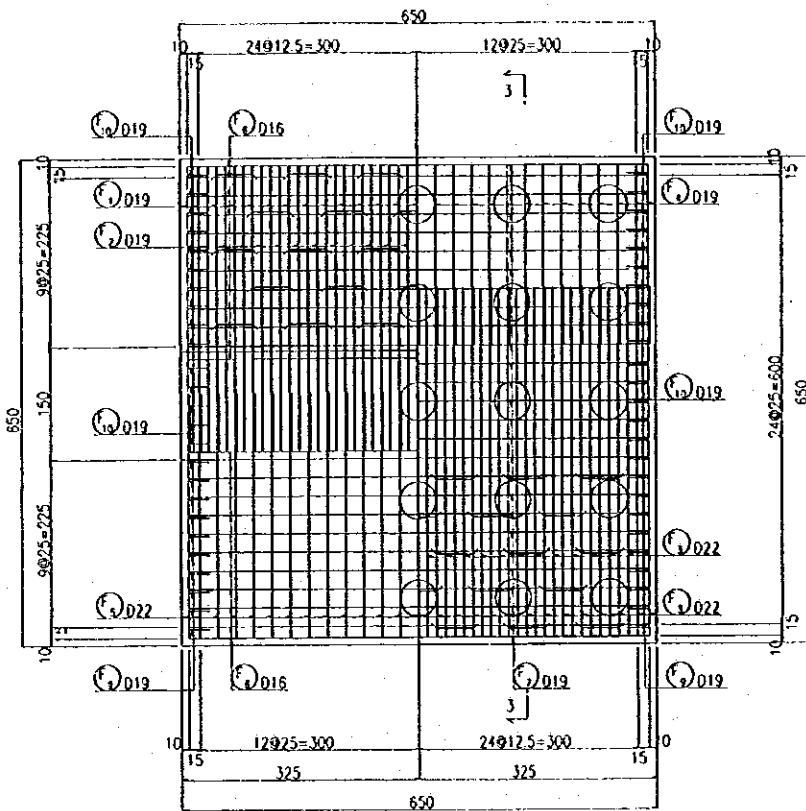
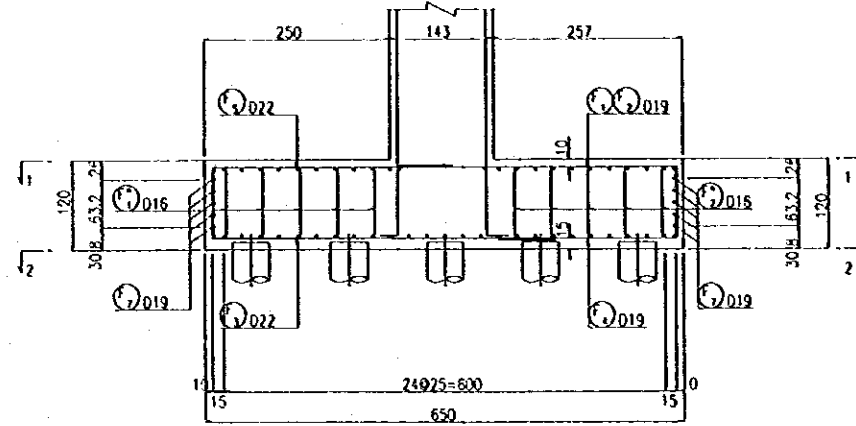
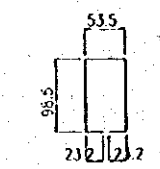
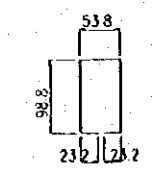
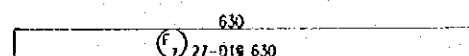
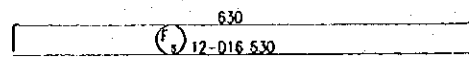
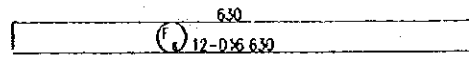




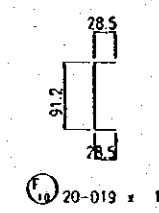
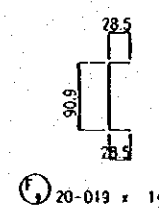
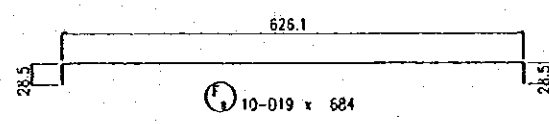
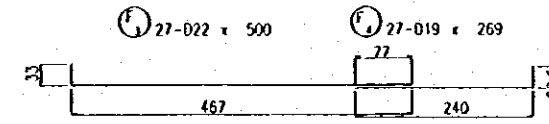
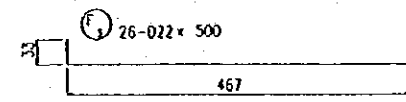
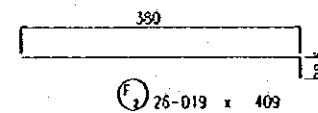
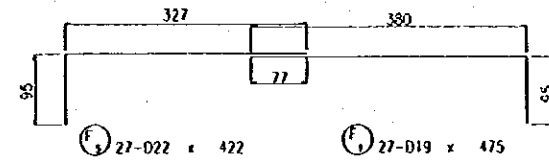
STEEL BAR SHEET



1 - 1      2 - 2

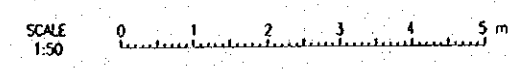


3 - 3



| REF. No. | Ø (mm) | LENGTH (cm) | NUM. | U.WEIGHT (kg/m) | WEIGHT/BAR (kg/bar) | WEIGHT (kg) | REMARKS |
|----------|--------|-------------|------|-----------------|---------------------|-------------|---------|
| P 1      | D16    | 237         | 43   | 1.580           | 3.745               | 161         |         |
| P 2      | D16    | 237         | 23   | 1.580           | 3.745               | 86          |         |
| P 3      | D16    | 540         | 8    | 1.580           | 8.532               | 68          |         |
| P 4      | D13    | 540         | 8    | 1.040           | 5.616               | 45          |         |
| P 5      | D13    | 69          | 21   | 1.040           | 0.718               | 15          |         |
| P 1      | D13    | 56          | 15   | 1.040           | 0.582               | 9           |         |
| A 1      | D19    | 525         | 45   | 2.230           | 11.706              | 527         |         |
| A 2      | D19    | 525         | 23   | 2.230           | 11.706              | 269         |         |
| A 3      | D16    | 520         | 8    | 1.580           | 8.216               | 66          |         |
| A 4      | D16    | 540         | 14   | 1.580           | 8.532               | 120         |         |
| A 5      | D13    | 540         | 15   | 1.040           | 5.616               | 84          |         |
| A 6      | D16    | 235         | 23   | 1.580           | 3.713               | 85          |         |
| A 7      | D16    | 540         | 8    | 1.580           | 8.532               | 68          |         |
| A 8      | D13    | 166         | 30   | 1.040           | 1.726               | 52          |         |
| A 1      | D13    | 149         | 70   | 1.040           | 1.550               | 109         |         |
| S 1      | D16    | 98          | 18   | 1.580           | 1.548               | 28          |         |
| S 2      | D16    | 88          | 15   | 1.580           | 1.390               | 21          |         |
| F 1      | D19    | 475         | 27   | 2.230           | 10.593              | 286         |         |
| F 2      | D19    | 409         | 26   | 2.230           | 9.121               | 237         |         |
| F 3      | D22    | 500         | 53   | 2.980           | 14.900              | 790         |         |
| F 4      | D19    | 269         | 27   | 2.230           | 5.999               | 162         |         |
| F 5      | D22    | 422         | 27   | 2.980           | 12.576              | 340         |         |
| F 6      | D16    | 630         | 24   | 1.580           | 9.954               | 239         |         |
| F 7      | D19    | 630         | 27   | 2.230           | 14.049              | 360         |         |
| F 8      | D19    | 684         | 10   | 2.230           | 15.253              | 153         |         |
| F 9      | D19    | 148         | 20   | 2.230           | 3.300               | 66          |         |
| F 10     | D19    | 149         | 20   | 2.230           | 3.323               | 67          |         |
| F 1      | D16    | 298         | 28   | 1.580           | 4.708               | 132         |         |
| F 2      | D16    | 297         | 28   | 1.580           | 4.693               | 131         |         |
|          |        |             |      | D22             | 1130                | Kg          |         |
|          |        |             |      | D19             | 2147                | Kg          |         |
|          |        |             |      | D16             | 1205                | Kg          |         |
|          |        |             |      | D13             | 314                 | Kg          |         |
|          |        |             |      | TOTAL           | 4796                | Kg          |         |

Note : The dimension in cm, except for reinforcing bar diameter in mm



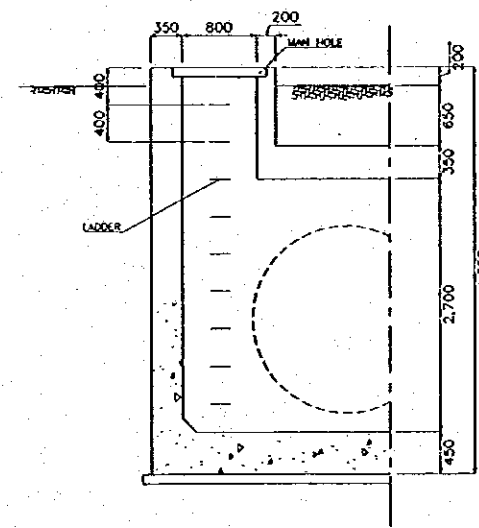
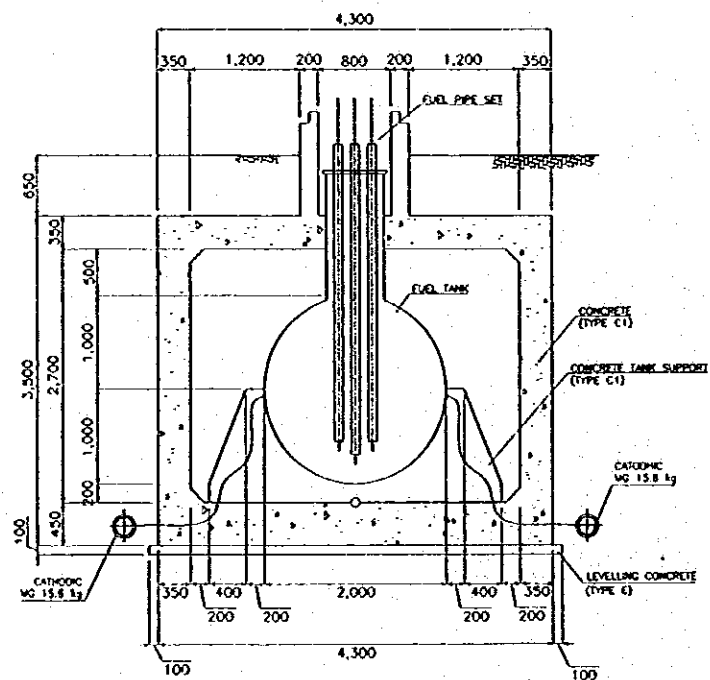
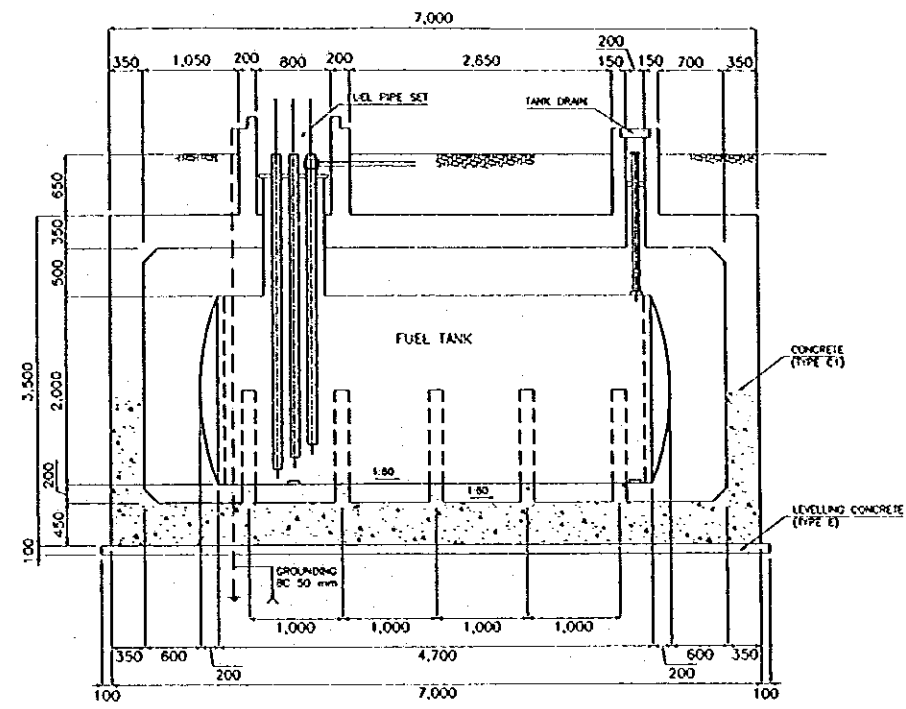
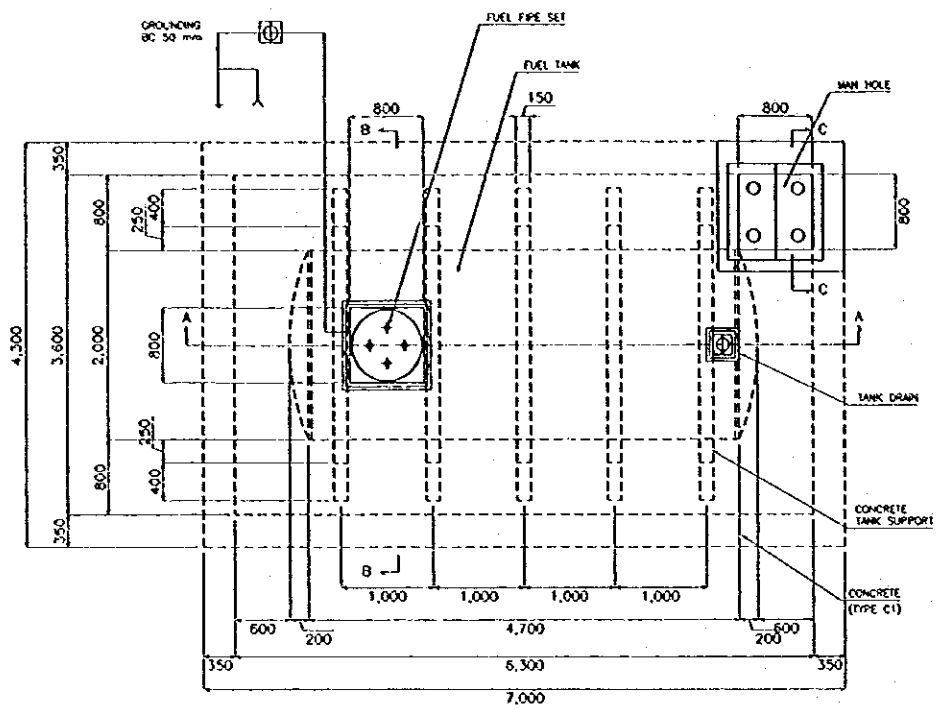
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THE REPUBLIC OF INDONESIA  
 MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF URBAN SETTLEMENT  
 JATUNSELUNG FLOOD CONTROL PROJECT  
 COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT  
 ASIN PUMPING STATION BRIDGE  
 SUBSTRUCTURE  
 REINFORCING BAR ARRANGEMENT OF ABUTMENT (2/2)

PROVINCE: CENTRAL JAVA  
 PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA  
 DISTRICT: SEMARANG CITY  
 DRAWING NO. U-P2-P-Br-5  
 SHEET NO. 113

DATE: \_\_\_\_\_ CONTRACT NO. \_\_\_\_\_

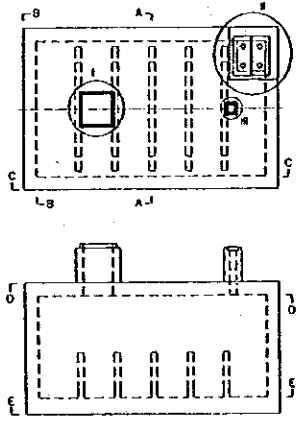
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 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_  
 PROJECT MANAGER



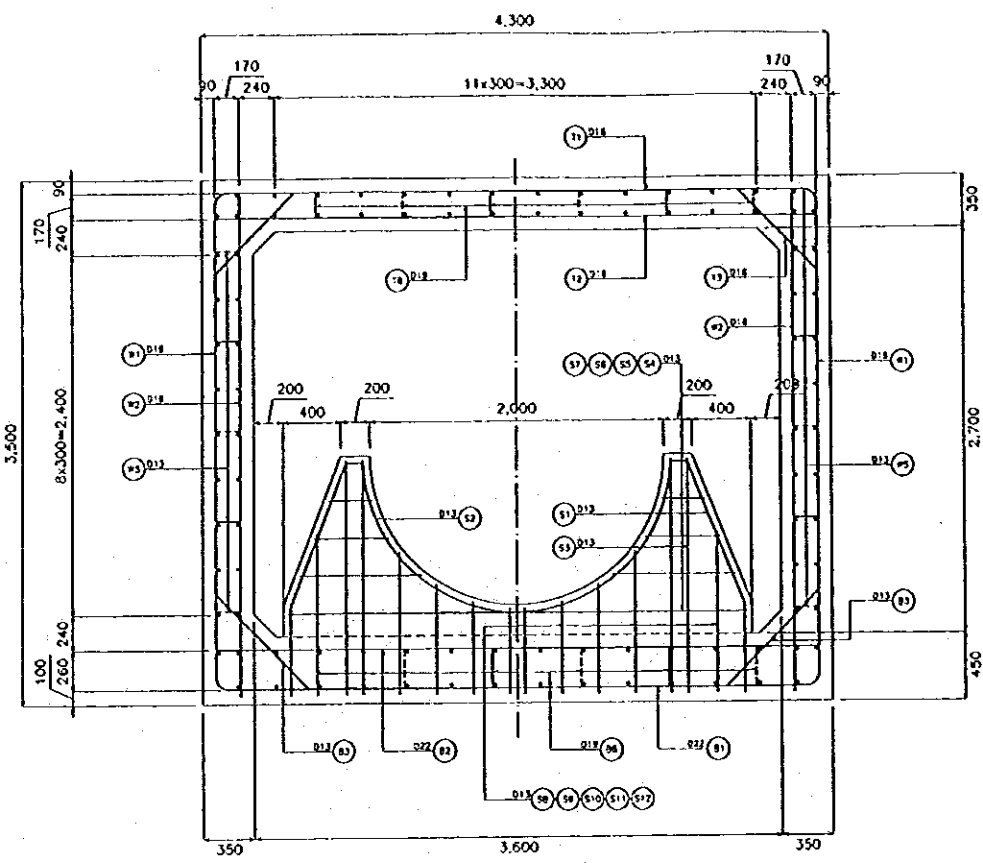
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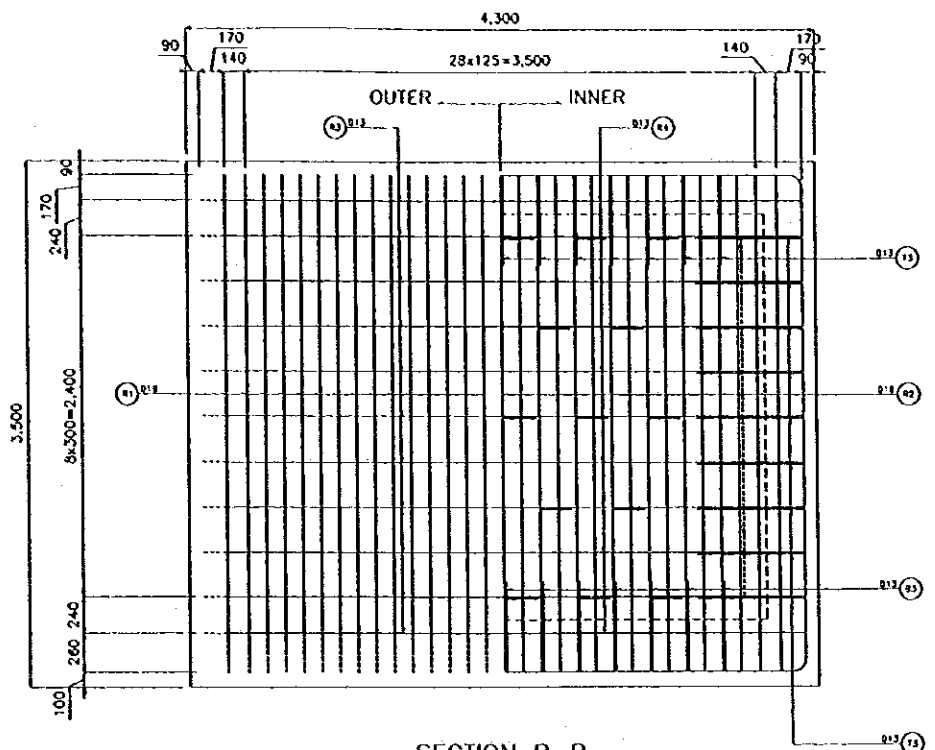
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| THE REPUBLIC OF INDONESIA<br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT<br>SURABAYA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br>FUEL TANK BOX<br>PLAN AND SECTIONS |  | PROVINCE<br>CENTRAL JAWA<br>PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SURABAYA IN THE REPUBLIC OF INDONESIA<br>DISTRICT<br>SURABAYA CITY<br>DRAWING NO. U-P2.P.M.1<br>SHEET NO. 114 |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>CITY ENGINEERING CO., LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>TAMEO INTERNATIONAL INC.   | DESIGNED<br>CHECKED<br>CESEY OF PLANNING AND DESIGN<br>PROJECT MANAGER | DATE<br>CONTRACT NO.   |



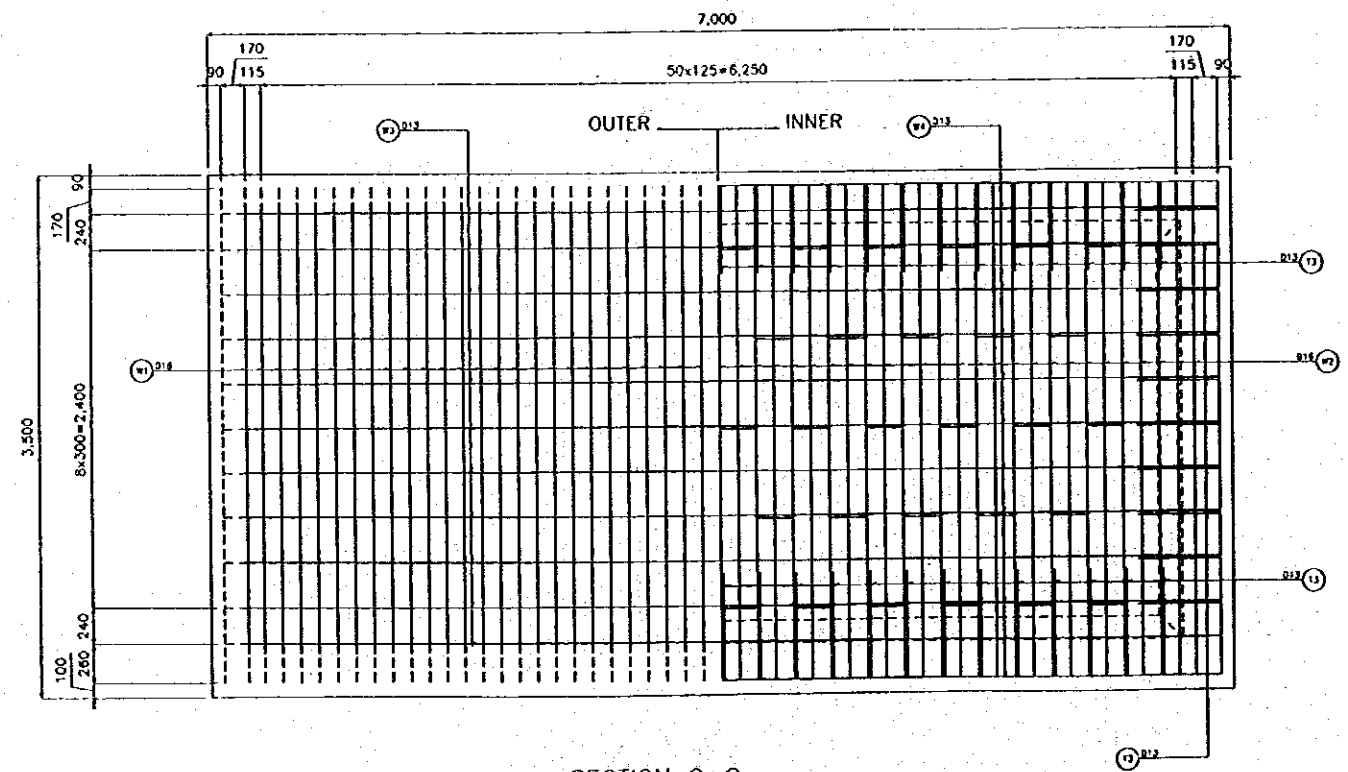
KEY PLAN



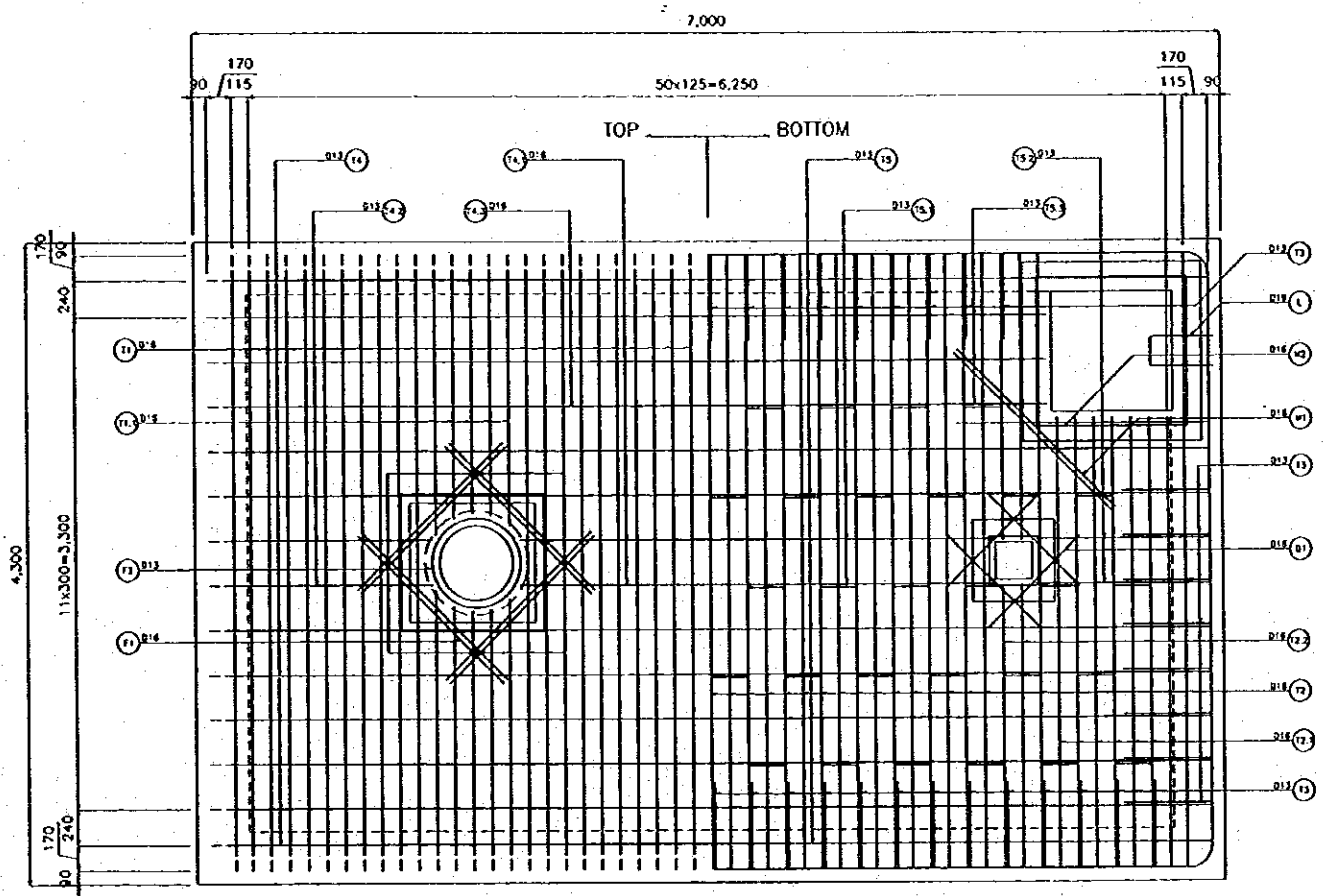
SECTION A-A



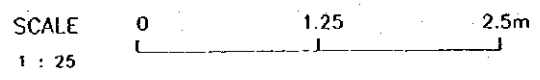
SECTION B-B



SECTION C-C

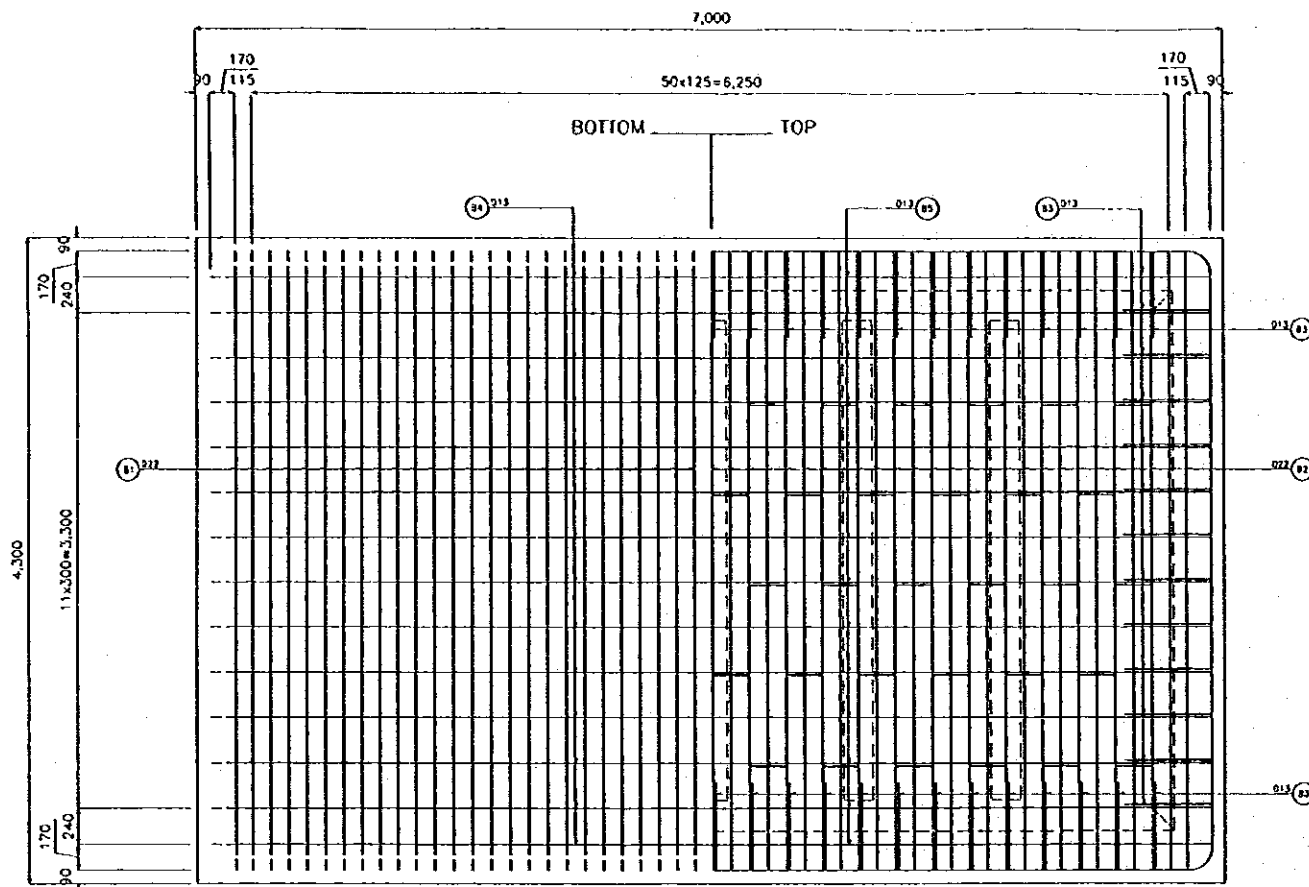


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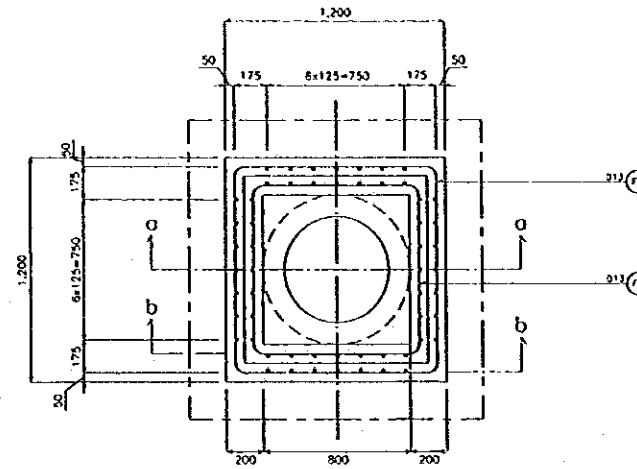


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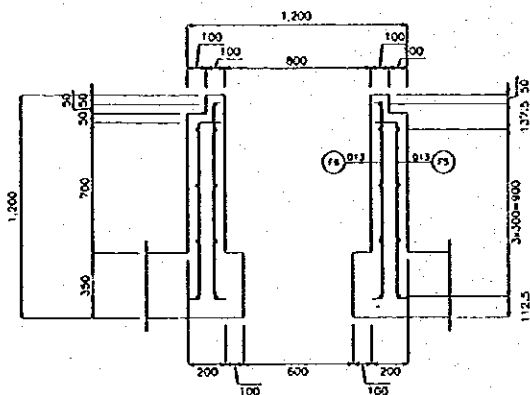
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT<br>JATUNGGULANA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br>FUEL TANK BOX<br>REINFORCING BAR ARRANGEMENT (1/4) |                             | PROVINCE<br>CENTRAL JAWA<br>DISTRICT<br>SEMARANG CITY<br>DRAWING NO. U-P2-P.MI-2<br>SHEET NO. 115 |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>CITY ENGINEERING CO., LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PAKSI INTERNATIONAL INC.<br>CITY OF PLANNING AND DESIGN<br>PROJECT MANAGER  | DESIGNED<br>CHECKED<br>DATE | CONTRACT NO.  |



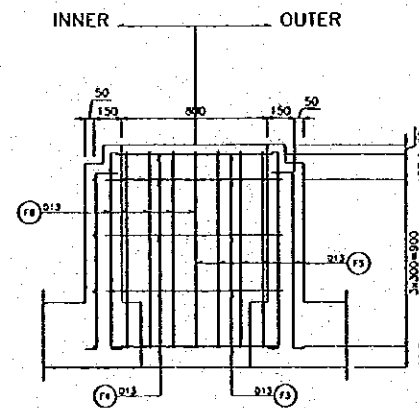
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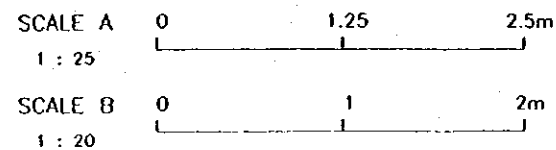
DETAIL I  
SCALE B



SECTION a-a  
SCALE B

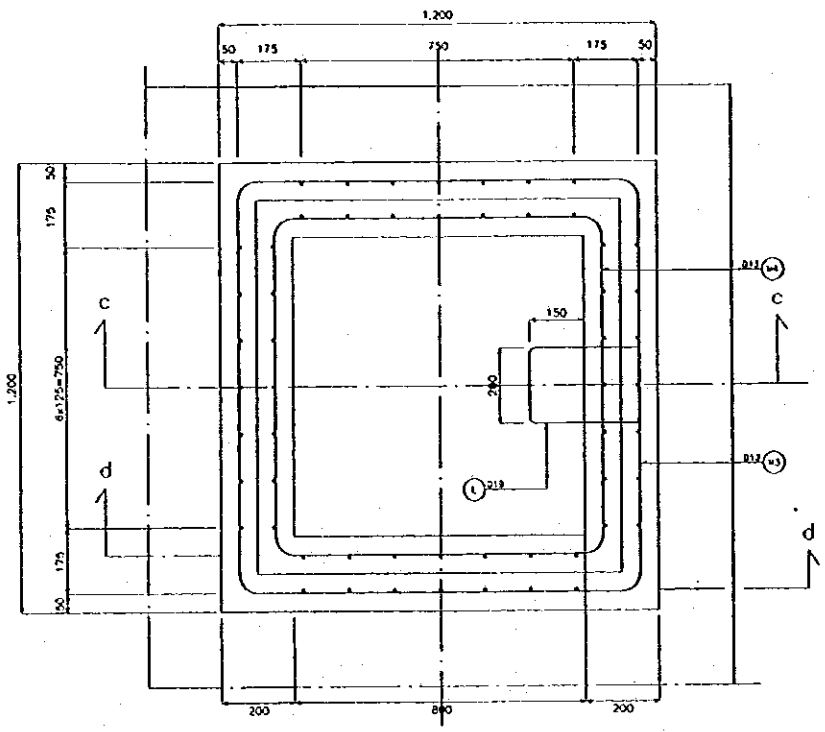


SECTION b-b  
SCALE B

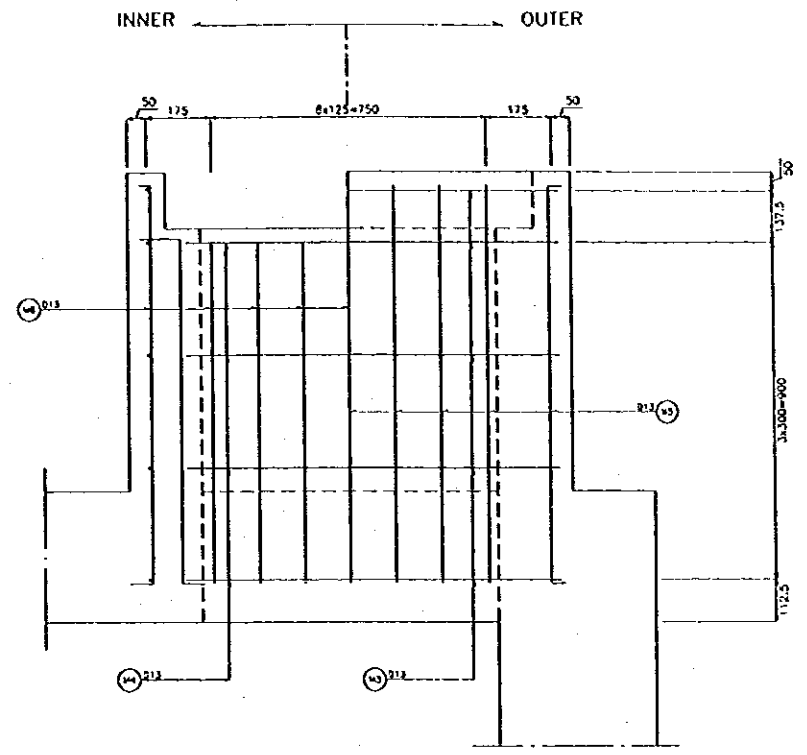


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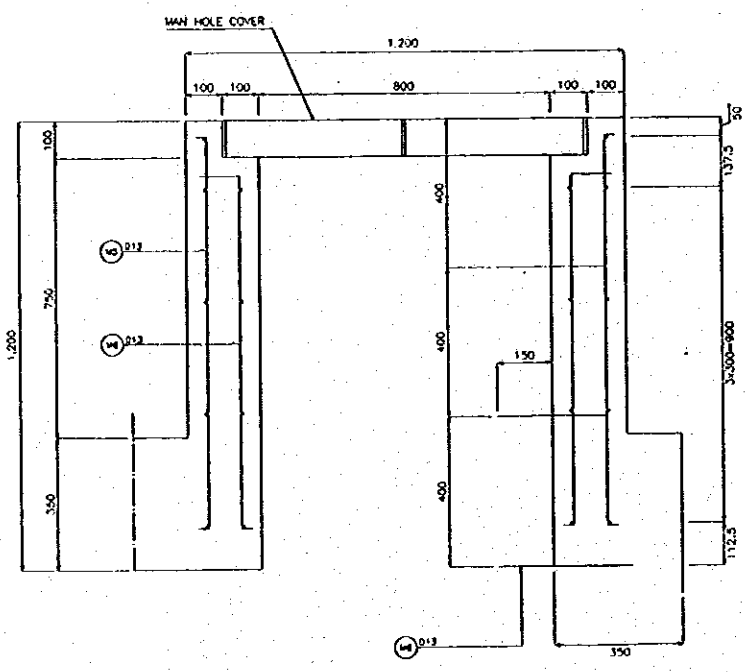
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| THE REPUBLIC OF INDONESIA<br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT<br>SURABAYA FLOOD CONTROL PROJECT<br>COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT<br>PUBLIC TANK BOX<br>REINFORCING BAR ARRANGEMENT (2/4) |                         | PROJECT<br>CENTRAL JAVA<br>PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SURABAYA IN THE REPUBLIC OF INDONESIA<br>DISTRICT<br>SURABAYA CITY<br>DRAWING NO. U-P2-P-MI-3<br>SHEET NO. 116 |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>CIL (CONSULTING) CO., LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PACO INTERNATIONAL INC.<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  | DESIGNED<br>CHECKED<br> | DATE<br>CONTRACT NO.   |



DETAIL II

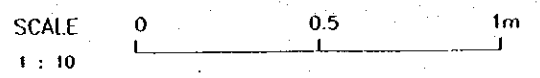
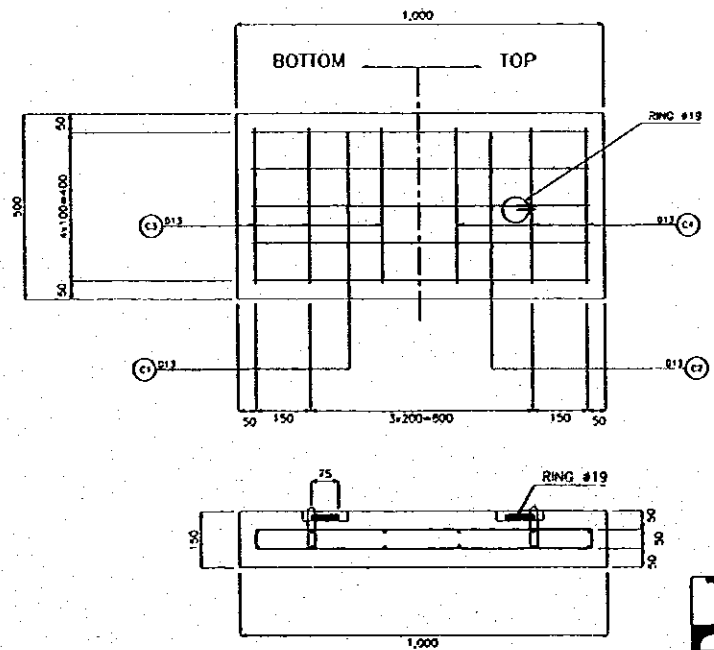


SECTION d-d



SECTION c-c

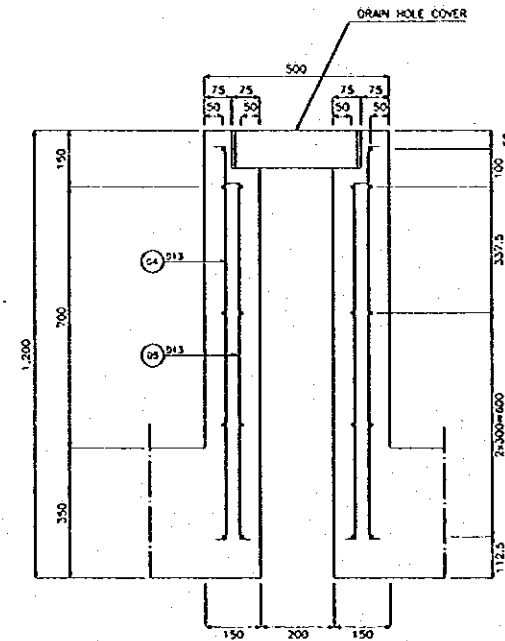
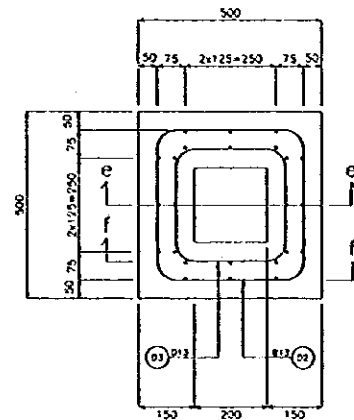
DETAIL OF MAN HOLE COVER



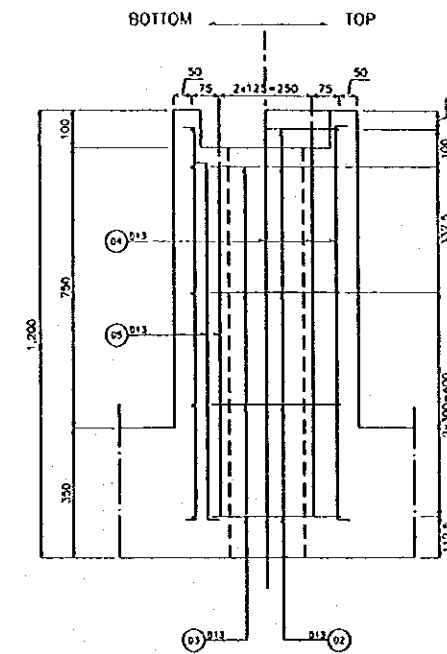
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT |                             | PROVINCE<br>CENTRAL JAVA  |
| BRATUNINGLUNA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br>FUEL TANK BOX<br>REINFORCING BAR ARRANGEMENT (24)                         |                             | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG IN THE REPUBLIC OF INDONESIA<br>DISTRICT<br>SEMARANG CITY<br>DRAWING NO. U-P2.P-MI-4<br>SHEET NO. 117 |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>CII (CONSULTING) CO., LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>TAIKOO INTERNATIONAL INC.    | DESIGNED<br>CHECKED<br>DATE | CONTRACT NO.  |
| CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER   | APPROVED                    | DATE  |

DETAIL III

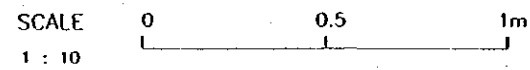
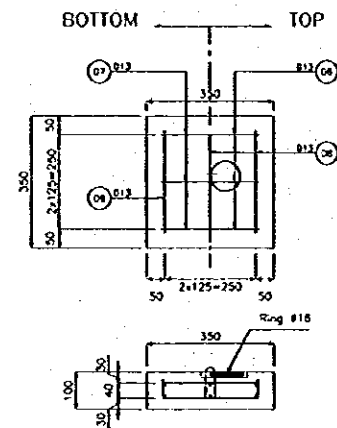


SECTION e-e



SECTION f-f

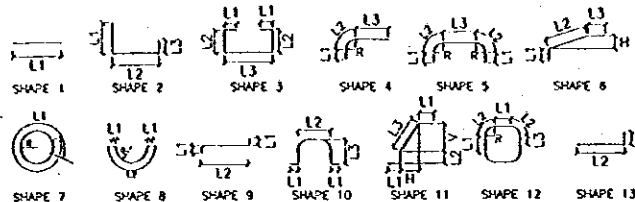
DETAIL OF DRAIN HOLE COVER



| NO. | DATE | REVISIONS | QUANTIFIED | DESIGNED | APPROVED |
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF URBAN SETTLEMENT |  | PROVINCE<br><b>CENTRAL JAYA</b>  |
| <b>BEATUNNELUNA FLOOD CONTROL PROJECT</b><br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br>FUEL TANK BOX<br>REINFORCING BAR ARRANGEMENT (4/4)                  |  | PROJECT NAME<br><b>FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN BEARANG IN THE REPUBLIC OF INDONESIA</b> |
| (JAIN INTERNATIONAL CORPORATION AGENT<br>CITY ENGINEERING CO. LTD. IN ASSOCIATION WITH<br>PACIFIC CONCRETE TANKS INTERNATIONAL AND<br>PAKSI PERKONSTRUKSI SRI     |  | DISTRICT<br><b>BEARANG CITY</b>  |
| DESIGNED<br>CHECKED<br>DATE   |  | DRAWING NO. <b>U-P2-P-MI-5</b><br>SHEET NO. <b>118</b>   |
| APPROVED<br>PROJECT MANAGER   |  | CONTRACT NO.   |

**BAR BENDING SCHEDULE**



| TYPE | SHAPE | DIA | NUMBER | LENGTH (mm) | L1 (mm) | L2 (mm) | L3 (mm) | V (mm) | H (mm) | R (mm) |
|------|-------|-----|--------|-------------|---------|---------|---------|--------|--------|--------|
| T1   | 5     | 16  | 39     | 4960        | 340     | 220     | 3840    |        |        | 140    |
| T2   | 1     | 16  | 41     | 4150        | 4152    |         |         |        |        |        |
| T3   | 6     | 13  | 97     | 970         | 100     | 768     | 100     | 543    | 543    |        |
| T4   | 5     | 13  | 9      | 7660        | 340     | 220     | 6540    |        |        | 140    |
| T5   | 1     | 13  | 9      | 6850        | 6845    |         |         |        |        |        |
| T6   | 3     | 19  | 60     | 850         | 100     | 189     | 276     |        |        |        |
| T1.1 | 4     | 16  | 10     | 2340        | 340     | 220     | 1779    |        |        | 140    |
| T2.1 | 1     | 16  | 8      | 3040        | 3042    |         |         |        |        |        |
| T2.2 | 1     | 16  | 4      | 1940        | 1942    |         |         |        |        |        |
| T4.1 | 1     | 13  | 2      | 3130        | 3126    |         |         |        |        |        |
| T4.2 | 4     | 13  | 2      | 1940        | 340     | 220     | 1383    |        |        | 140    |
| T4.3 | 4     | 13  | 4      | 6190        | 340     | 220     | 5528    |        |        |        |
| T5.1 | 1     | 13  | 2      | 3130        | 3126    |         |         |        |        |        |
| T5.2 | 4     | 13  | 2      | 1630        | 340     | 220     | 1073    |        |        | 140    |
| T5.3 | 1     | 13  | 3      | 5740        | 5736    |         |         |        |        |        |
| B1   | 5     | 22  | 53     | 5380        | 550     | 220     | 3840    |        |        | 140    |
| B2   | 1     | 22  | 53     | 4160        | 4164    |         |         |        |        |        |
| B3   | 8     | 13  | 70     | 1100        | 100     | 895     | 100     | 633    | 633    |        |
| B4   | 5     | 13  | 14     | 5380        | 550     | 220     | 3840    |        |        | 140    |
| B5   | 1     | 13  | 14     | 6850        | 6846    |         |         |        |        |        |
| B6   | 3     | 19  | 72     | 1030        | 100     | 279     | 276     |        |        |        |
| W1   | 5     | 16  | 106    | 4160        | 340     | 220     | 3040    |        |        | 140    |
| W2   | 1     | 16  | 106    | 3350        | 3352    |         |         |        |        |        |
| W3   | 5     | 13  | 92     | 7660        | 340     | 220     | 6540    |        |        | 140    |
| W4   | 1     | 13  | 26     | 3350        | 3346    |         |         |        |        |        |
| W5   | 2     | 13  | 112    | 570         | 100     | 196     | 276     |        |        |        |
| S1   | 11    | 13  | 20     | 1820        | 113     | 563     | 1031    | 950    | 400    |        |
| S2   | 8     | 13  | 10     | 3530        | 113     | 3299    |         |        |        | 1050   |
| S3   | 13    | 13  | 40     | 1640        | 113     | 1526    |         |        |        |        |
| S4   | 1     | 13  | 10     | 3130        | 3126    |         |         |        |        |        |
| S5   | 1     | 13  | 20     | 830         | 826     |         |         |        |        |        |
| S6   | 1     | 13  | 20     | 480         | 476     |         |         |        |        |        |
| S7   | 1     | 13  | 20     | 280         | 276     |         |         |        |        |        |
| S8   | 13    | 13  | 20     | 640         | 113     | 526     |         |        |        |        |
| S9   | 13    | 13  | 20     | 690         | 113     | 576     |         |        |        |        |
| S10  | 13    | 13  | 20     | 790         | 113     | 676     |         |        |        |        |
| S11  | 13    | 13  | 20     | 990         | 113     | 876     |         |        |        |        |
| S12  | 13    | 13  | 20     | 1190        | 113     | 1076    |         |        |        |        |

**BAR WEIGHT**

| TYPE | DIA (mm) | LENGTH (mm) | NUMBER | WEIGHT PER "M" (kg) | WEIGHT PER "BAR" (kg) | WEIGHT (kg) | SHAPE |
|------|----------|-------------|--------|---------------------|-----------------------|-------------|-------|
| T1   | 16       | 4960        | 39     | 1.58                | 7.837                 | 305.835     | 5     |
| T2   | 16       | 4150        | 41     | 1.58                | 6.557                 | 268.837     | 1     |
| T3   | 13       | 970         | 97     | 1.04                | 1.009                 | 97.854      | 6     |
| T4   | 13       | 7660        | 9      | 1.04                | 7.956                 | 71.698      | 5     |
| T5   | 13       | 6850        | 9      | 1.04                | 7.124                 | 64.116      | 1     |
| T6   | 19       | 850         | 60     | 2.23                | 1.896                 | 113.730     | 3     |
| T1.1 | 16       | 2340        | 10     | 1.58                | 3.697                 | 36.972      | 4     |
| T2.1 | 16       | 3040        | 8      | 1.58                | 4.803                 | 38.426      | 1     |
| T2.2 | 16       | 1940        | 4      | 1.58                | 3.065                 | 12.261      | 1     |
| T4.1 | 13       | 3130        | 2      | 1.04                | 3.255                 | 6.510       | 1     |
| T4.2 | 13       | 1940        | 2      | 1.04                | 2.018                 | 4.035       | 4     |
| T4.3 | 13       | 6190        | 4      | 1.04                | 6.438                 | 25.750      | 4     |
| T5.1 | 13       | 3130        | 2      | 1.04                | 3.255                 | 6.510       | 1     |
| T5.2 | 13       | 1630        | 2      | 1.04                | 1.695                 | 3.390       | 4     |
| T5.3 | 13       | 5740        | 3      | 1.04                | 5.970                 | 17.909      | 1     |
| B1   | 22       | 5380        | 53     | 2.98                | 16.032                | 849.717     | 5     |
| B2   | 22       | 4160        | 53     | 2.98                | 12.397                | 657.030     | 1     |
| B3   | 13       | 1100        | 70     | 1.04                | 1.144                 | 80.080      | 6     |
| B4   | 13       | 5380        | 14     | 1.04                | 5.595                 | 78.333      | 5     |
| B5   | 13       | 6850        | 14     | 1.04                | 7.124                 | 99.735      | 1     |
| B6   | 19       | 1030        | 72     | 2.23                | 2.297                 | 165.377     | 3     |
| W1   | 16       | 4160        | 106    | 1.58                | 6.573                 | 696.717     | 5     |
| W2   | 16       | 3350        | 106    | 1.58                | 5.293                 | 561.058     | 1     |
| W3   | 13       | 7660        | 92     | 1.04                | 7.956                 | 732.909     | 5     |
| W4   | 13       | 3350        | 26     | 1.04                | 3.484                 | 90.584      | 1     |
| W5   | 13       | 570         | 112    | 1.04                | 0.593                 | 66.394      | 2     |
| S1   | 13       | 1820        | 20     | 1.04                | 1.893                 | 37.856      | 11    |
| S2   | 13       | 3530        | 10     | 1.04                | 3.671                 | 36.712      | 8     |
| S3   | 13       | 1640        | 40     | 1.04                | 1.706                 | 68.224      | 13    |
| S4   | 13       | 3130        | 10     | 1.04                | 3.255                 | 32.552      | 1     |
| S5   | 13       | 830         | 20     | 1.04                | 0.853                 | 17.264      | 1     |
| S6   | 13       | 480         | 20     | 1.04                | 0.499                 | 9.984       | 1     |
| S7   | 13       | 280         | 20     | 1.04                | 0.291                 | 5.824       | 1     |
| S8   | 13       | 640         | 20     | 1.04                | 0.666                 | 13.312      | 13    |
| S9   | 13       | 690         | 20     | 1.04                | 0.718                 | 14.352      | 13    |
| S10  | 13       | 790         | 20     | 1.04                | 0.822                 | 16.432      | 13    |
| S11  | 13       | 990         | 20     | 1.04                | 1.030                 | 20.592      | 13    |
| S12  | 13       | 1190        | 20     | 1.04                | 1.236                 | 24.752      | 13    |

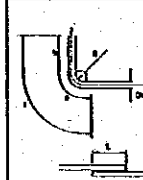
**BAR BENDING SCHEDULE**

| TYPE | SHAPE | DIA | NUMBER | LENGTH (mm) | L1 (mm) | L2 (mm) | L3 (mm) | V (mm) | H (mm) | R (mm) |
|------|-------|-----|--------|-------------|---------|---------|---------|--------|--------|--------|
| R1   | 5     | 16  | 62     | 4160        | 340     | 220     | 3040    |        |        | 140    |
| R2   | 1     | 16  | 62     | 3350        | 3352    |         |         |        |        |        |
| R3   | 5     | 13  | 22     | 5520        | 340     | 220     | 3040    |        |        | 140    |
| R4   | 1     | 13  | 22     | 4150        | 4146    |         |         |        |        |        |
| R5   | 2     | 13  | 54     | 570         | 100     | 196     | 276     |        |        |        |
| F1   | 1     | 16  | 16     | 1400        | 1400    |         |         |        |        |        |
| F2   | 7     | 13  | 2      | 2400        | 2399    |         |         |        |        |        |
| F3   | 12    | 13  | 4      | 4370        | 1000    | 79      | 50      |        |        | 50     |
| F4   | 12    | 13  | 5      | 3570        | 800     | 79      | 50      |        |        | 50     |
| F5   | 9     | 13  | 32     | 1160        | 87      | 988     |         |        |        |        |
| F6   | 2     | 13  | 28     | 1160        | 87      | 1038    | 30      |        |        |        |
| M1   | 1     | 16  | 4      | 1500        | 1500    |         |         |        |        |        |
| M2   | 13    | 16  | 2      | 1950        | 202     | 1750    |         |        |        |        |
| M3   | 12    | 13  | 5      | 4370        | 1000    | 79      | 50      |        |        | 50     |
| M4   | 12    | 13  | 4      | 3570        | 800     | 79      | 50      |        |        | 50     |
| M5   | 2     | 13  | 32     | 1160        | 87      | 1038    | 30      |        |        |        |
| M6   | 9     | 13  | 28     | 1160        | 87      | 988     |         |        |        |        |
| C1   | 2     | 13  | 5      | 1030        | 63      | 900     | 63      |        |        |        |
| C2   | 1     | 13  | 5      | 930         | 926     |         |         |        |        |        |
| C3   | 2     | 13  | 6      | 500         | 50      | 400     | 50      |        |        |        |
| C4   | 1     | 13  | 6      | 430         | 426     |         |         |        |        |        |
| D1   | 1     | 13  | 8      | 900         | 900     |         |         |        |        |        |
| D2   | 12    | 13  | 5      | 1570        | 300     | 79      | 50      |        |        | 50     |
| D3   | 12    | 13  | 4      | 1170        | 200     | 79      | 50      |        |        | 50     |
| D4   | 2     | 13  | 16     | 1160        | 87      | 1038    | 30      |        |        |        |
| D5   | 9     | 13  | 12     | 1160        | 87      | 988     |         |        |        |        |
| D6   | 1     | 13  | 3      | 280         | 276     |         |         |        |        |        |
| D7   | 2     | 13  | 3      | 360         | 53      | 250     | 53      |        |        |        |
| D8   | 1     | 13  | 3      | 280         | 276     |         |         |        |        |        |
| D9   | 2     | 13  | 3      | 330         | 40      | 250     | 40      |        |        |        |
| L    | 10    | 19  | 10     | 1040        | 100     | 200     | 319     |        |        |        |

**BAR WEIGHT**



| TYPE | DIA (mm) | LENGTH (mm) | NUMBER | WEIGHT PER "M" (kg) | WEIGHT PER "BAR" (kg) | WEIGHT (kg) | SHAPE |
|------|----------|-------------|--------|---------------------|-----------------------|-------------|-------|
| R1   | 16       | 4160        | 62     | 1.58                | 6.573                 | 407.514     | 5     |
| R2   | 16       | 3350        | 62     | 1.58                | 5.293                 | 328.166     | 1     |
| R3   | 13       | 5520        | 22     | 1.04                | 5.741                 | 126.298     | 5     |
| R4   | 13       | 4150        | 22     | 1.04                | 4.316                 | 94.952      | 1     |
| R5   | 13       | 570         | 54     | 1.04                | 0.593                 | 32.011      | 2     |
| F1   | 16       | 1400        | 16     | 1.58                | 2.212                 | 35.392      | 1     |
| F2   | 13       | 2400        | 2      | 1.04                | 2.496                 | 4.992       | 7     |
| F3   | 13       | 4370        | 4      | 1.04                | 4.545                 | 18.179      | 12    |
| F4   | 13       | 3570        | 5      | 1.04                | 3.713                 | 18.564      | 12    |
| F5   | 13       | 1160        | 32     | 1.04                | 1.206                 | 38.605      | 9     |
| F6   | 13       | 1160        | 28     | 1.04                | 1.206                 | 33.779      | 2     |
| M1   | 16       | 1500        | 4      | 1.58                | 2.370                 | 9.480       | 1     |
| M2   | 16       | 1950        | 2      | 1.58                | 3.081                 | 6.162       | 13    |
| M3   | 13       | 4370        | 5      | 1.04                | 4.545                 | 22.724      | 12    |
| M4   | 13       | 3570        | 4      | 1.04                | 3.713                 | 14.851      | 12    |
| M5   | 13       | 1160        | 32     | 1.04                | 1.206                 | 38.605      | 2     |
| M6   | 13       | 1160        | 28     | 1.04                | 1.206                 | 33.779      | 9     |
| C1   | 13       | 1030        | 5      | 1.04                | 1.071                 | 5.356       | 2     |
| C2   | 13       | 930         | 5      | 1.04                | 0.987                 | 4.836       | 1     |
| C3   | 13       | 500         | 6      | 1.04                | 0.520                 | 3.120       | 2     |
| C4   | 13       | 430         | 6      | 1.04                | 0.417                 | 2.683       | 1     |
| D1   | 13       | 900         | 8      | 1.04                | 0.936                 | 7.488       | 1     |
| D2   | 13       | 1570        | 5      | 1.04                | 1.633                 | 8.164       | 12    |
| D3   | 13       | 1170        | 4      | 1.04                | 1.217                 | 4.867       | 12    |
| D4   | 13       | 1160        | 16     | 1.04                | 1.206                 | 19.302      | 2     |
| D5   | 13       | 1160        | 12     | 1.04                | 1.206                 | 14.477      | 9     |
| D6   | 13       | 280         | 3      | 1.04                | 0.291                 | 0.874       | 1     |
| D7   | 13       | 360         | 3      | 1.04                | 0.374                 | 1.123       | 2     |
| D8   | 13       | 280         | 3      | 1.04                | 0.291                 | 0.873       | 1     |
| D9   | 13       | 330         | 3      | 1.04                | 0.343                 | 1.030       | 2     |
| L    | 19       | 1040        | 10     | 2.23                | 2.319                 | 23.192      | 10    |

**BAR BENDING DETAIL**



| DIA | a   | b   | l   | R  | OVERLAP |             |
|-----|-----|-----|-----|----|---------|-------------|
|     |     |     |     |    | L       | WEIGHT (Kg) |
| D13 | 66  | 156 | 222 | 42 | 455     | 0.473       |
| D16 | 75  | 193 | 288 | 48 | 580     | 0.885       |
| D19 | 94  | 236 | 330 | 60 | 665     | 1.483       |
| D22 | 104 | 272 | 376 | 66 | 770     | 2.295       |
| D25 | 122 | 308 | 428 | 78 | 875     | 3.369       |
| D29 | 141 | 349 | 490 | 90 | 1015    | 5.268       |
| D32 | 151 | 385 | 536 | 96 | 1120    | 7.047       |

| NO. | DATE | REVISIONS | ISSUED | DESIGNED | APPROVED |
|-----|------|-----------|--------|----------|----------|
|     |      |           |        |          |          |
|     |      |           |        |          |          |

|  |   |  |   |                |
|--|---|--|---|----------------|
| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF URBAN SETTLEMENT<br>SURABAYA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br>FUEL TANK BOX<br>BAR BENDING SCHEDULE AND BAR WEIGHT |   |  | PROVINCE :<br><b>CENTRAL JAWA</b><br>PROJECT NAME :<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SURABAYA IN THE REPUBLIC OF INDONESIA<br>DISTRICT :<br>SURABAYA CITY<br>DRAWING NO. :<br>U-P2-P-MI-6<br>SHEET NO. :<br><b>119</b><br>CONTRACT NO. : |                |
| UJIAN INTERNASIONAL GEOGRAFIKA AGENSI<br>CITI ENGINEERING CO. LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PABCO INTERNATIONAL INC.  | DESIGNED<br> | CHECKED<br> | DATE :  | CONTRACT NO. : |
| APPROVED<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  |   |  | DATE :  |                |



## DRAWING LIST

| NO | SHEET     | DRAWING TITLE                                   | SCALE   |        |        |
|----|-----------|---|---------|--------|--------|
|    | <b>2</b>  | <b>ASIN PUMPING STATION COMPLEX</b>             |         |        |        |
|    | <b>1</b>  | <b>PUMP CONTROL BUILDING</b>                    |         |        |        |
| 1  | A2 - 000  | DRAWING LIST                                    | NTS     |        |        |
| 2  | A2 - 001  | GENERAL ABBREVIATION AND SYMBOL                 | NTS     |        |        |
| 3  | A2 - 100  | EXTERIOR FINISH SCHEDULE                        | NTS     |        |        |
| 4  | A2 - 101  | INTERIOR FINISH SCHEDULE                        | NTS     |        |        |
| 5  | A2 - 102  | FLOOR AREA TABLE                                | NTS     |        |        |
| 6  | A2 - 103  | SITE PLAN                                       | 1 - 200 |        |        |
| 7  | A2 - 104  | FLOOR PLAN, ROOF PLAN, CEILING PLAN & DETAIL    | 1 - 100 | 1 - 20 |        |
| 8  | A2 - 105  | ELEVATION                                       | 1 - 100 |        |        |
| 9  | A2 - 106  | SECTION 1-1 & DETAIL SECTION                    | 1 - 50  | 1 - 10 |        |
| 10 | A2 - 107  | SECTION 2-2, INTERIOR ELEVATION & DETAIL        | 1 - 100 | 1 - 50 | 1 - 10 |
| 11 | A2 - 108  | MISCELLANEOUS DETAIL 1                          | 1 - 20  | 1 - 10 | 1 - 5  |
| 12 | A2 - 108a | MISCELLANEOUS DETAIL 2                          | 1 - 25  |        |        |
| 13 | A2 - 108b | MISCELLANEOUS DETAIL 3                          | 1 - 20  | 1 - 10 | 1 - 2  |
| 14 | A2 - 109  | KEY PLAN, DOOR & WINDOW SCHEDULE                | 1 - 100 | 1 - 50 |        |
| 15 | A2 - 110  | DRAINAGE PLAN & DETAIL                          | 1 - 200 | 1 - 10 |        |
| 16 | C2 - 100  | COLUMN, TIE BEAM & FRAMING ELEVATION            | 1 - 100 |        |        |
| 17 | C2 - 101  | SECTION & DETAIL OF COLUMN AND BEAM             | 1 - 10  |        |        |
| 18 | C2 - 102  | ROOF STRUCTURE PLAN & TYPICAL                   | 1 - 100 | 1 - 20 |        |
| 19 | C2 - 103  | TYPICAL ROOF TRUSS                              | 1 - 10  |        |        |
| 20 | C2 - 104  | DETAIL ROOF STRUCTURE                           | 1 - 20  | 1 - 10 |        |
| 21 | E2 - 100  | LIGHTNING CONDUCTOR PLAN & DETAIL               | 1 - 100 | 1 - 10 | 1 - 1  |
| 22 | E2 - 101  | LIGHTING PLAN & ONE LINE ELECTRICAL DIAGRAM     | 1 - 100 |        |        |
| 23 | E2 - 102  | GENERAL LIGHTING PLAN & DETAIL                  | NTS     |        |        |
| 24 | P2 - 100  | ISOMETRIC WATER SUPPLY DIAGRAM                  | NTS     |        |        |
| 25 | P2 - 101  | BEREPUT AND GROUND RESERVOIR                    | 1 - 20  |        |        |
|    | <b>2</b>  | <b>MANAGEMENT OFFICE</b>                        |         |        |        |
| 26 | A2 - 200  | FLOOR PLAN, ROOF PLAN & CEILING PLAN            | 1 - 100 |        |        |
| 27 | A2 - 201  | ELEVATION                                       | 1 - 100 |        |        |
| 28 | A2 - 202  | SECTION & DETAIL SECTION                        | 1 - 50  | 1 - 20 |        |
| 29 | A2 - 203  | INTERIOR ELEVATION & DETAIL                     | 1 - 100 | 1 - 50 | 1 - 10 |
| 30 | A2 - 204  | DETAIL PLAN & DETAIL SECTION                    | 1 - 20  | 1 - 10 |        |
| 31 | A2 - 205  | KEY PLAN & DOOR WINDOW SCHEDULE                 | 1 - 100 | 1 - 50 |        |
| 32 | C2 - 200  | FOUNDATION PLAN AND DETAIL                      | 1 - 100 | 1 - 20 |        |
| 33 | C2 - 201  | COLUMN, TIE BEAM AND FRAMING ELEVATION          | 1 - 100 | 1 - 10 |        |
| 34 | C2 - 202  | ROOF STRUCTURE PLAN & TYPICAL                   | 1 - 100 | 1 - 20 | 1 - 10 |
| 35 | C2 - 203  | DETAIL TRUSS STRUCTURE                          | 1 - 20  | 1 - 10 |        |
|    | <b>3</b>  | <b>STAFF HOUSE</b>                              |         |        |        |
| 36 | A2 - 300  | FLOOR PLAN, ROOF PLAN, CEILING PLAN & ELEVATION | 1 - 100 |        |        |
| 37 | A2 - 301  | SECTION   | 1 - 50  |        |        |
| 38 | A2 - 302  | INTERIOR ELEVATION & DETAIL PLAN                | 1 - 50  | 1 - 20 | 1 - 10 |
| 39 | A2 - 303  | KEY PLAN & DOOR WINDOW SCHEDULE                 | 1 - 100 | 1 - 50 |        |
| 40 | C2 - 300  | FOUNDATION PLAN & DETAIL                        | 1 - 100 | 1 - 20 |        |
| 41 | C2 - 301  | COLUMN, TIE BEAM & FRAMING ELEVATION            | 1 - 100 | 1 - 10 |        |
| 42 | C2 - 302  | ROOF STRUCTURE PLAN & TYPICAL                   | 1 - 50  | 1 - 20 |        |
| 43 | C2 - 303  | DETAIL TRUSS STRUCTURE                          | 1 - 20  | 1 - 10 |        |
|    | <b>4</b>  | <b>GARAGE</b>                                   |         |        |        |
| 44 | A2 - 400  | FLOOR PLAN, ROOF PLAN & CEILING PLAN            | 1 - 100 |        |        |
| 45 | A2 - 401  | ELEVATION                                       | 1 - 100 |        |        |
| 46 | A2 - 402  | SECTION & DETAIL SECTION                        | 1 - 50  | 1 - 10 |        |
| 47 | A2 - 403  | INTERIOR ELEVATION & DETAIL                     | 1 - 50  | 1 - 10 | 1 - 5  |
| 48 | A2 - 404  | KEY PLAN & DOOR WINDOW SCHEDULE                 | 1 - 100 | 1 - 50 |        |
| 49 | C2 - 400  | FOUNDATION PLAN AND DETAIL                      | 1 - 100 | 1 - 20 |        |
| 50 | C2 - 401  | COLUMN, TIE BEAM AND FRAMING ELEVATION          | 1 - 100 | 1 - 10 |        |
| 51 | C2 - 402  | ROOF STRUCTURE PLAN & TYPICAL                   | 1 - 100 | 1 - 20 | 1 - 10 |
| 52 | C2 - 403  | ROOF STRUCTURE TYPICAL & DETAIL                 | 1 - 20  |        |        |

| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
|-----|------|-----------|------------|----------|----------|
|     |      |           |            |          |          |
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT  |  | PROVINCE<br><b>CENTRAL JAWA</b>  |
| <b>PLATUNSELUMA FLOOD CONTROL PROJECT</b><br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>DRAWING LIST</b>           |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG BY THE REPUBLIC OF INDONESIA |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>JICA ENGINEERING CO., LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL, INC.<br>PACIFIC INTERNATIONAL, INC. |  | DISTRICT<br><b>SEMARANG CITY</b>   |
| DESIGNED<br>   |  | DRAWING NO A2-000<br>SHEET NO. <b>120</b>  |
| CHECKED<br>  |  | DATE<br>CONTRACT NO.   |
| APPROVED<br><br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  |  |

# ASIN PUMPING STATION

| GENERAL  | ABBREVIATIONS  | SYMBOLS  |  |  |   |
|--|--|--|--|--|---|
| <p>1. THESE CONTRACT DRAWINGS INDICATES THE ARCHITECTURAL REQUIREMENT FOR BUILDING STRUCTURE FOR THE CONSTRUCTION OF CENTRE FOR INFORMATION AND RECORD.</p> <p>2. DIMENSIONS IN THESE DRAWINGS ARE BASED UPON THE METRIC SYSTEM.</p> <p>3. REFERENCE LINE IS BASED UPON BENCH MARK ELEVATION AS SHOWN ON DWG A-001 SITE PLAN.</p> <p>4. FLOOR LEVELS INDICATED ARE TO TOP OF FLOOR FINISH OF RESPECTIVE FLOOR.</p> <p>5. THE CEILING HEIGHT GIVEN IS FROM TOP OF RESPECTIVE FLOOR FINISH TO CEILING.</p> <p>6. STRUCTURE, MECHANICAL AND ELECTRICAL WORK DETAILS AND DIMENSIONS MAY BE ADJUSTED FROM TIME TO TIME AS WORK PROGRESSES AND AS NECESSARY TO SUIT ARCHITECTURAL CONDITIONS ENCOUNTERED THE ADJUSTMENTS SUBJECT TO APPROVAL BY THE CONSULTANT.</p> <p>7. DRAWINGS ARE GROUPED AND IDENTIFIED IN DIVISION AND GENERALLY COMPRISED AS FOLLOWS:</p> <p><b>1. PUMPING HOUSE</b></p> <p>A2 - 000 DRAWING LIST<br/>GENERAL ABBREVIATION &amp; SYMBOL<br/>AREA SCHEDULE</p> <p>A2 - 100 EXTERIOR FINISH SCHEDULE<br/>INTERIOR FINISH SCHEDULE<br/>Site Plan ( Part Plan )<br/>Floor Plan, Roof Plan &amp; Ceiling Plan<br/>Elevation<br/>Section I - I &amp; Detail Section<br/>Section II - II, Interior Elevation &amp; Detail<br/>Macellaneous Detail<br/>Key Plan, Door Window Schedule<br/>Drainage Plan &amp; Detail</p> <p>C2 - 100 CONSTRUCTION DRAWING</p> <p>E2 - 100 ELECTRICAL DRAWING</p> <p>P2 - 100 PLUMBING DRAWING</p> <p><b>2. CONTROL HOUSE</b></p> <p>A2 - 200 Floor Plan, Roof Plan &amp; Ceiling Plan<br/>Elevation<br/>Section &amp; Detail Section<br/>Interior Elevation &amp; Detail<br/>Detail Plan &amp; Detail Section<br/>Key Plan, Door Window Schedule</p> <p>C2 - 200 Construction Drawing</p> <p><b>3. STAFF HOUSE</b></p> <p>A2 - 300 Floor Plan, Roof Plan, Ceiling Plan &amp; Elevation<br/>Section I - I &amp; Section II - II<br/>Interior Elevation &amp; Detail Plan<br/>Key Plan, Door Window Schedule</p> <p>C2 - 300 Construction Drawing</p> <p><b>4. GARAGE BUILDING</b></p> <p>A2 - 400 Floor Plan, Roof Plan &amp; Ceiling Plan<br/>Elevation<br/>Section<br/>Interior Elevation<br/>Key Plan, Door Window Schedule</p> <p>C2 - 400 Construction Drawing</p> | <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"> <p>ABV. ABOVE</p> <p>A/C ACQUISITION</p> <p>ADJ. ADJUSTABLE</p> <p>ALT. ALTERNATIVE</p> <p>ALF. ALUMINUM FOL.</p> <p>ALUM. ALUMINUM</p> <p>ANCH. ANCHOR</p> <p>APPRX. APPROXIMATELY</p> <p>A.F.P. ACCESS (FLOOR PANEL)</p> <p>ARCH. ARCHITECTURAL</p> <p>ASPH. ASPHALT</p> <p>AXL. AXIS LINE</p> <p>XL. AXLE</p> <p>O. OIL</p> <p>B. BASE</p> <p>B.B. BASEBOARD</p> <p>B.D. BOARD</p> <p>B.D.G. BULKING</p> <p>B.M. BENCH MARK</p> <p>BTWN. BETWEEN</p> <p>CAB. CABINET</p> <p>CPT. 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TELEVISION</p> <p>TERR. TERRAZZO</p> <p>T.F. TROWEL FINISH</p> <p>TYP. TYPICAL</p> <p>T.B. TERRAZZO BLOCK</p> <p>UG.C.T. UNGLAZED CERAMIC TILE</p> <p>U.N.O. UNLESS NOTED</p> <p>OTHER W.H.S.E. OTHER W.H.S.E.</p> <p>VERT. VERTICAL</p> <p>V.A.T. VINYL ASBESTOS TILE</p> <p>V.E.P. VINYL EMULSION PAINT</p> <p>V.B. VENT BLOCK</p> <p>W. WIDTH</p> <p>WD. WOODEN DOOR</p> <p>W/GL. WIRE GLASS</p> <p>W.C. WATER CLOSET</p> <p>W.P. WATERPROOFING</p> <p>WT. WEIGHT</p> <p>W.W. WINDOW</p> <p>WO. WOOD</p> <p>WL. WALL</p> | <p><b>MATERIALS</b></p> <p> EARTH</p> <p> CONCRETE</p> <p> BRICK</p> <p> STONE</p> <p> LIGHT-WEIGHT CONCRETE</p> <p> WOOD</p> <p> INSULATION</p> <p> FIRE PROTECTION</p> <p><b>DOORS &amp; WINDOWS</b></p> <p> SINGLE SWING DOOR &amp; WINDOW</p> <p> DOUBLE SWING DOOR</p> <p> PAIR SWING DOOR</p> <p> PROJECTED WINDOW</p> <p> SINGLE SLIDING DOOR</p> <p> DOUBLE SLIDING DOOR</p> <p> PIVOTED WINDOW</p> <p><b>FIXTURES</b></p> <p> EXPOSED OR PENDANT INCANDESCENT LAMP</p> <p> RECESSED INCANDESCENT LAMP</p> <p> EMERGENCY LAMP</p> <p> EXPOSED OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE</p> <p> RECESSED INDIVIDUAL FLUORESCENT FIXTURE</p> <p> EMERGENCY LAMP (RECESSED TYPE)</p> <p> EMERGENCY LAMP</p> <p> DIFFUSER LINEAR TYPE</p> <p> DIFFUSER ROUND TYPE</p> <p> DIFFUSER NOZZEL TYPE</p> <p> EXPOSED SPENSER</p> <p> EXPOSED SPENSER</p> <p> RETURN AIR GRILLE</p> <p> RETURN AIR GRILLE LINEAR TYPE</p> <p> SMOKE DETECTOR</p> <p> SPRINKLER HEAD</p> <p> CONCEALED</p> <p> EXHAUST</p> <p> ACCESS PANEL</p> <p> CURTAIN TRACK</p> <p> FIRE HYDRANT</p> <p> MANHOLE</p> <p> CHIMNEY DUCT</p> <p><b>SYMBOLS LEGEND</b></p> <p>AXIS  NUMBER</p> <p> AXIS LINE</p> <p>DETAIL  DRAWING NUMBER</p> <p> SHEET NUMBER</p> <p>SECTION  DRAWING NUMBER</p> <p> SHEET NUMBER</p> <p>ELEVATION  DRAWING NUMBER</p> <p> SHEET NUMBER</p> <p>BUILDING  BUILDING NUMBER</p> <p>ROOM NUMBER  ROOM NUMBER</p> <p>FLOOR  FLOOR</p> <p>FLOOR LEVEL  FLOOR FINISH LEVEL FROM RESPECTIVE LEVEL</p> <p> TOP OF SLAB FROM RESPECTIVE LEVEL</p> <p>DOOR  NUMBER</p> <p>STAR, STEP &amp; SLOPE  STAR NUMBER</p> <p>INTERIOR ELEVATION  DRAWING NUMBER</p> <p> INTERIOR ELEVATION ORIENTATION</p> <p> SHEET NUMBER</p> <p>PARTITION  STEEL (WOOD, ALUN, ETC.)</p> <p> NUMBER</p> |
| <p>ABV. ABOVE</p> <p>A/C ACQUISITION</p> <p>ADJ. ADJUSTABLE</p> <p>ALT. ALTERNATIVE</p> <p>ALF. ALUMINUM FOL.</p> <p>ALUM. ALUMINUM</p> <p>ANCH. ANCHOR</p> <p>APPRX. APPROXIMATELY</p> <p>A.F.P. ACCESS (FLOOR PANEL)</p> <p>ARCH. ARCHITECTURAL</p> <p>ASPH. ASPHALT</p> <p>AXL. AXIS LINE</p> <p>XL. AXLE</p> <p>O. OIL</p> <p>B. BASE</p> <p>B.B. BASEBOARD</p> <p>B.D. BOARD</p> <p>B.D.G. BULKING</p> <p>B.M. BENCH MARK</p> <p>BTWN. BETWEEN</p> <p>CAB. CABINET</p> <p>CPT. CARPET</p> <p>CEMT. CEMENT</p> <p>CEMT. MORTAR TROWEL</p> <p>CE. CEILING</p> <p>C.H. CEILING HEIGHT</p> <p>C.C. CENTRE COUNTER</p> <p>C.M.T. CERAMIC TILE</p> <p>C.A. COLOR ANOXYDIZED</p> <p>COL. COLUMN</p> <p>COR. CORNER</p> <p>CONT. CONTINUOUS</p> <p>CEMENT. CEMENT</p> <p>CEMENT. W / COLOUR HARDENER</p> <p>DIA. DIAMETER</p> <p>DIM. DIMENSION</p> <p>DN. DOWN</p> <p>DR. DOOR</p> <p>D.S. DUCT SPACE</p> <p>DWG. DRAWING</p> <p>E. EAST</p> <p>EA. EACH</p> <p>ELEC. ELECTRICITY</p> <p>ELEV. ELEVATOR</p> <p>E.P.S. ELECTRIC PIPE SHUNT</p> <p>E.O. EQUAL</p> <p>EXH. EXHAUST</p> <p>EXPU. EXPOSED</p> <p>E.J. EXTENSION JOINT</p> <p>EXT. EXTERIOR</p> <p>EQUIP. EQUIPMENT</p> <p>E.W.C. EXHAUSTIVE WATER CLOSED</p> <p>E.R.C. EPOXY RESIN COATING</p>  | <p>FL. FLOOR</p> <p>FB. FIBRE</p> <p>(F) FEMALE</p> <p>FN. FINISH</p> <p>F.D.M.P. FIRE DAMPER</p> <p>F.H. FIRE HYDRANT</p> <p>F.P.R.C. FIRE PROTECTION</p> <p>F.O. FLOOR OPEN</p> <p>FL. FLOOR LEVEL</p> <p>FO. FOOTING</p> <p>FD. FOUNDATION</p> <p>F. FIBRE</p> <p>FCB. FIBRE CEMENT BOARD</p> <p>G.S. GLASS</p> <p>GALV. GALVANIZED</p> <p>GI. GALVANIZED IRON</p> <p>GL. GROUND FLOOR LEVEL</p> <p>G.L. GROUND LEVEL</p> <p>G.C.TILE. GLAZED CERAMIC TILE</p> <p>G.F. GROUND FLOOR</p> <p>GYP. GYPSUM</p> <p>ORL. ORILL</p> <p>G.P.B. GYPSUM PLASTER BOARD</p> <p>G.P.T. GYPSUM PLASTER TROWEL</p> <p>GB. GLASS BLOCK</p> <p>H. HEIGHT</p> <p>H.W.D. HARDWOOD</p> <p>H.Z.L. HORIZONTAL</p> <p>H.B. HOOK BATTEN #/S/P</p> <p>I.D. INSIDE DIAMETER</p> <p>INSUL. INSULATION</p> <p>INT. INTERIOR</p> <p>JOINT. JOINT</p> <p>L. LENGH</p> <p>LAM. LAMINATED</p> <p>LAD. LADDER</p> <p>(M) MALE</p> <p>MACH. MACHINE</p> <p>MAT. MATERIAL</p> <p>MECH. MECHANICAL</p> <p>MAR. MARBLE</p> <p>MET. METAL</p> <p>M.N. MINIMUM</p> <p>MIR. MIRROR</p> <p>M.A.TILE. MARBLE, ACQUASTICAL TILE</p> <p>M.D. MOLDING</p> <p>MDF. MANN DISTRIBUTOR FRAME</p> <p>N. NORTH</p> <p>NO. NUMBER</p> <p>N.L.C. NOT IN CONTRACT</p> <p>N.T.S. NOT TO SCALE</p> <p>O.C. ON CENTRE</p> <p>O.D. OUTSIDE DIAMETER</p> <p>OH. OVERHEAD</p>   | <p>P. PAINT</p> <p>P.C. PRECAST CONCRETE</p> <p>PL. PLATE</p> <p>PLAS. PLASTER</p> <p>PLYD. PLYWOOD</p> <p>POL. POLISHED</p> <p>F.P.R.C. FIRE PROTECTION</p> <p>POP.C.T. PORCELAIN TILE</p> <p>P.S. PIPE SHUNT</p> <p>P.IN. PARTITION</p> <p>P.V.C. POLY VINYL CHLORIDE</p> <p>PHG. PENTHOUSE FLOOR LEVEL</p> <p>PHL. PENTHOUSE ROOF</p> <p>R.C. REINFORCED CONCRETE</p> <p>R.D. ROOF DRAIN</p> <p>R.F. ROOF FLOOR</p> <p>RM. ROOM</p> <p>R.S. RESIDENT</p> <p>R.L. RAIN LEADER</p> <p>S. SCALE</p> <p>SD. STEEL DOOR</p> <p>SEC. SECTION</p> <p>SHI. SHEET</p> <p>SPEC.S. SPECIFICATIONS</p> <p>SO. SQUARE</p> <p>SS. STAINLESS STEEL</p> <p>SSD. STAINLESS STEEL DOOR</p> <p>SSW. STAINLESS STEEL WINDOW</p> <p>ST. STAIRCASE</p> <p>STL. STEEL</p> <p>STOR. STORAGE</p> <p>STRUC.T. STRUCTURAL</p> <p>SUSP. SUSPENSER</p> <p>SW. STEEL WINDOW</p> <p>SP.W.C. SPRAYED WHITE CEMENT</p> <p>STM. STONE</p> <p>T. THICK</p> <p>TEL. TELEPHONE</p> <p>T.V. TELEVISION</p> <p>TERR. TERRAZZO</p> <p>T.F. TROWEL FINISH</p> <p>TYP. TYPICAL</p> <p>T.B. TERRAZZO BLOCK</p> <p>UG.C.T. UNGLAZED CERAMIC TILE</p> <p>U.N.O. UNLESS NOTED</p> <p>OTHER W.H.S.E. OTHER W.H.S.E.</p> <p>VERT. VERTICAL</p> <p>V.A.T. VINYL ASBESTOS TILE</p> <p>V.E.P. VINYL EMULSION PAINT</p> <p>V.B. VENT BLOCK</p> <p>W. WIDTH</p> <p>WD. WOODEN DOOR</p> <p>W/GL. WIRE GLASS</p> <p>W.C. WATER CLOSET</p> <p>W.P. WATERPROOFING</p> <p>WT. WEIGHT</p> <p>W.W. WINDOW</p> <p>WO. WOOD</p> <p>WL. WALL</p> |  |  |   |

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| <p>THE REPUBLIC OF INDONESIA</p> <p>MINISTRY OF PUBLIC WORKS</p> <p>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT</p>            |  | <p>PROVINCE: CENTRAL JAVA</p> <p>PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCE DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA</p> |
| <p>JRATUNSELUNA FLOOD CONTROL PROJECT</p> <p>COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT</p> <p><b>ASIN PUMPING STATION COMPLEX</b></p> <p>GENERAL ABBREVIATION &amp; SYMBOL</p> |  | <p>DISTRICT: SEMARANG CITY</p> <p>DRAWING NO. A2-001/U-P2-P-00-02</p> <p>SHEET NO. 424</p>   |
| <p>DESIGNED: <i>[Signature]</i></p> <p>CHECKED: <i>[Signature]</i></p> <p>DATE: _____</p> <p>CONTRACT NO. _____</p>   | <p>APPROVED: <i>[Signature]</i></p> <p>CHIEF OF PLANNING AND DESIGN</p> <p>PROJECT MANAGER</p> |  |

| NO. | DATE | REVISIONS | QUOTED | DESIGNED | APPROVED |
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## EXTERIOR FINISH SCHEDULE

**EXTERIOR FINISH SCHEDULE FOR CONTROL OFFICE**  
ASIN PUMPING STATION

| ITEMS                      |  |
|----------------------------|--|
| <b>ROOF :</b>              |  |
| MAIN ROOF                  | CERAMIC TILE ROOF  |
| VALLEY                     | COLORBOND METAL SHEET SIMILAR COLOR WITH ROOF (CERAMIC TILE ROOF)  |
| FASCIA                     | EXTERIOR WOOD PAINT FINISH ON BENGKIRAI WOOD   |
| <b>EXTERIOR WALL :</b>     |  |
| WALL                       | TERRACOTA TILE 100x200 DOFF<br>EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH                        |
| COLUMN                     | TERRACOTA TILE 100x200 DOFF<br>EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH                        |
| BEAM                       | EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH   |
| <b>CORRIDOR SKIRTING :</b> |  |
| EXTERNAL CORRIDOR          | NON-SLIP, TEXTURED, CERAMIC TILE 300x300<br>GRAVE ABOVE THE GROUND   |
| <b>WINDOW AND DOOR :</b>   |  |
| FRAME                      | ANODIZED ALUMINIUM FRAME   |
| CEILING                    | EXTERIOR PAINT FINISH ON FIBER CEMENT  |
| LOUVER                     | ANODIZED ALUMINIUM LOUVER  |
| DOOR                       | ANODIZED ALUMINIUM DOOR FRAME W/ GLASS OR PAINTED PLYWOOD LEAVES<br>WOODEN FRAME W/ PAINTED PLYWOOD LEAVES |
| WINDOW                     | ANODIZED ALUMINIUM WINDOW FRAME W/ GLASS LEAVES  |

**EXTERIOR FINISH SCHEDULE FOR GARAGE**  
ASIN PUMPING STATION

| ITEMS                      |   |
|----------------------------|---|
| <b>ROOF :</b>              |   |
| MAIN ROOF                  | CERAMIC TILE ROOF   |
| FASCIA                     | EXTERIOR WOOD PAINT FINISH ON BENGKIRAI WOOD  |
| <b>EXTERIOR WALL :</b>     |   |
| WALL                       | TERRACOTA TILE 100x200 DOFF<br>EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH   |
| COLUMN                     | TERRACOTA TILE 100x200 DOFF<br>EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH   |
| BEAM                       | EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH  |
| <b>CORRIDOR SKIRTING :</b> |   |
| EXTERNAL CORRIDOR          | NON-SLIP, TEXTURED, CERAMIC TILE 300x300<br>LIGHT CONCRETE FINISH W/ TEXTURED WATERPROOFING MORTAR TROWEL<br>GRAVE ABOVE THE GROUND |
| <b>WINDOW AND DOOR :</b>   |   |
| FRAME                      | ANODIZED ALUMINIUM FRAME  |
| CEILING                    | EXTERIOR PAINT FINISH ON FIBER CEMENT   |
| LOUVER                     | ANODIZED ALUMINIUM LOUVER   |
| DOOR                       | ANODIZED ALUMINIUM DOOR FRAME W/ PAINTED PLYWOOD LEAVES<br>ANODIZED ALUMINIUM ROLLING DOOR  |
| WINDOW                     | ANODIZED ALUMINIUM WINDOW FRAME W/ GLASS LEAVES   |

**EXTERIOR FINISH SCHEDULE FOR STAFF HOUSE**  
ASIN PUMPING STATION

| ITEMS                      |  |
|----------------------------|--|
| <b>ROOF :</b>              |  |
| MAIN ROOF                  | CERAMIC TILE ROOF  |
| VALLEY                     | COLORBOND METAL SHEET SIMILAR COLOR WITH ROOF (CERAMIC TILE ROOF)  |
| FASCIA                     | EXTERIOR WOOD PAINT FINISH ON BENGKIRAI WOOD   |
| <b>EXTERIOR WALL :</b>     |  |
| WALL                       | TERRACOTA TILE 100x200 DOFF<br>EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH                        |
| COLUMN                     | TERRACOTA TILE 100x200 DOFF<br>EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH                        |
| BEAM                       | EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH   |
| <b>CORRIDOR SKIRTING :</b> |  |
| EXTERNAL CORRIDOR          | NON-SLIP, TEXTURED, CERAMIC TILE 300x300<br>GRAVE ABOVE THE GROUND   |
| <b>WINDOW AND DOOR :</b>   |  |
| FRAME                      | ANODIZED ALUMINIUM FRAME   |
| CEILING                    | EXTERIOR PAINT FINISH ON FIBER CEMENT  |
| LOUVER                     | ANODIZED ALUMINIUM LOUVER  |
| DOOR                       | ANODIZED ALUMINIUM DOOR FRAME W/ GLASS OR PAINTED PLYWOOD LEAVES<br>WOODEN FRAME W/ PAINTED PLYWOOD LEAVES |
| WINDOW                     | ANODIZED ALUMINIUM WINDOW FRAME W/ GLASS LEAVES  |

**EXTERIOR FINISH SCHEDULE FOR PUMPING HOUSE**  
ASIN PUMPING STATION

| ITEMS                      |   |
|----------------------------|---|
| <b>ROOF :</b>              |   |
| MAIN ROOF                  | CERAMIC TILE ROOF   |
| FASCIA                     | EXTERIOR WOOD PAINT FINISH ON BENGKIRAI WOOD                  |
| <b>EXTERIOR WALL :</b>     |   |
| WALL                       | EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH          |
| COLUMN                     | EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH          |
| BEAM                       | EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH          |
| <b>CORRIDOR SKIRTING :</b> |   |
| EXTERNAL CORRIDOR          | LIGHT CONCRETE FINISH W/ TEXTURED WATERPROOFING MORTAR TROWEL |
| <b>WINDOW AND DOOR :</b>   |   |
| FRAME                      | STEEL FRAME FINISH W/ PAINT                                   |
| CEILING                    | EXTERIOR PAINT FINISH ON PLYWOOD                              |
| DOOR                       | STEEL DOOR FINISH W/ PAINT                                    |

| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT |                               | PROVINCE<br>CENTRAL JAWA   |
| IRATUNSELUNA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>EXTERIOR FINISH SCHEDULE</b>     |                               | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG BY THE REPUBLIC OF INDONESIA |
| LAPAN INTERNATIONAL COOPERATION AGENCY<br>CEE ENGINEERING COLLECTIVE INC. PARTNERING WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PACIFIC INTERNATIONAL INC.  |                               | DISTRICT<br>SEMARANG CITY  |
| CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER   |                               | DRAWING NO. J2-100 U- P2-P- 84-03<br>SHEET NO. 122   |
| DESIGNED<br><i>M. Hidayat</i>   | CHECKED<br><i>[Signature]</i> | DATE<br>CONTRACT NO.   |

# INTERIOR FINISH SCHEDULE

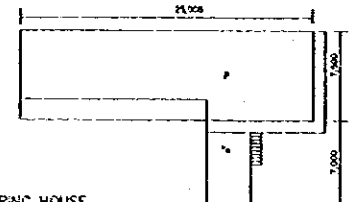
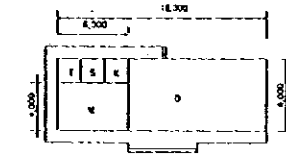
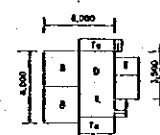
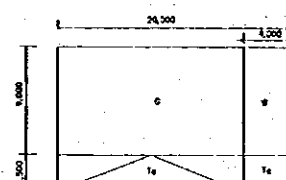
ASIN PUMPING STATION

| ASIN PUMPING STATION |              | FLOOR  | BASE   | WALL  | CEILING   | ACCESSORIES   | CEILING HEIGHT |
|----------------------|--------------|--|--|---|---|---|----------------|
|                      |              | CERAMIC TILE 300 mm x 300 mm<br>CERAMIC TILE (NON SLIP) 300 mm x 300 mm<br>CERAMIC TILE (NON SLIP) 200 mm x 200 mm<br>CONCRETE w/ MORTAR FIN | MORTAR TROWEL FIN. w/ PAINT<br>MORTAR TROWEL FIN. BASE w/ WATER RESISTANT PAINT<br>MORTAR TROWEL FIN. BASE w/ WATER RESISTANT PAINT OVER LAVATORY<br>RAYBAND GLASS HEIGHT 100 mm | MORTAR TROWEL FIN. w/ PAINT<br>CERAMIC TILE 200 mm x 200 mm<br>TIMBER SKRITING 900 HEIGHT | GYPSUM BOARD w/ PAINT w/ WOODEN FRAME<br>MINERAL ACOUSTIC TILE 600 mm x 600 mm w/ STRIKE FISSURED TYPE<br>FIBRE CEMENT BOARD w/ WOODEN FRAME w/ PAINT | COUNTER DESK<br>MIRROR ABOVE THE WASTAFEL<br>UNDER FLOOR DUCTING<br>AIR CONDITION |                |
| ROOM NUMBER          | ROOM NAMES   |  |  |   |   |   |                |
| PUMPING HOUSE        |              |  |  |   |   |   |                |
| 1                    | PUMPING ROOM |  |  |   |   |   | NO CEILING     |
| 2                    | TERRACE      |  |  |   |   |   | NO CEILING     |
| 3                    | RAMP         |  |  |   |   |   | NO CEILING     |
| 4                    | STAIRS       |  |  |   |   |   | NO CEILING     |
| GARAGE               |              |  |  |   |   |   |                |
| 1                    | GARAGE       |  |  |   |   |   | 4200           |
| 2                    | WORK SHOP    |  |  |   |   |   | 4200           |
| 3                    | TERRACE      |  |  |   |   |   |                |
| 4                    | STAIRS       |  |  |   |   |   |                |
| 5                    | RAMP         |  |  |   |   |   |                |
| CONTROL OFFICE       |              |  |  |   |   |   |                |
| 1                    | OFFICE       |  |  |   |   |   | 3000           |
| 2                    | MEETING ROOM |  |  |   |   |   | 3000           |
| 3                    | PANTRY       |  |  |   |   |   | 2800           |
| 4                    | STORAGE      |  |  |   |   |   | 2800           |
| 5                    | TOILET       |  |  |   |   |   | 2760           |
| 6                    | TERRACE      |  |  |   |   |   | 2760           |
| 7                    | STAIRS       |  |  |   |   |   |                |
| STAFF HOUSE          |              |  |  |   |   |   |                |
| 1                    | LIVING ROOM  |  |  |   |   |   | 3000           |
| 2                    | DINING ROOM  |  |  |   |   |   | 3000           |
| 3                    | KITCHEN      |  |  |   |   |   | 2800           |
| 4                    | TOILET       |  |  |   |   |   | 2800           |
| 5                    | BED ROOM 1   |  |  |   |   |   | 3000           |
| 6                    | BED ROOM 2   |  |  |   |   |   | 3000           |
| 7                    | TERRACE      |  |  |   |   |   | 2600           |

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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT |  | PROVINCE<br>CENTRAL JAVA   |
| PRATUNSELUNA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>INTERIOR FINISH SCHEDULE</b>     |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG BY THE REPUBLIC OF INDONESIA |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>OTE ENGINEERING CO. LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PAKO INTERNATIONAL INC.        |  | DISTRICT<br>SEMARANG CITY  |
| DESIGNED: <i>[Signature]</i><br>CHECKED: <i>[Signature]</i><br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  | DRAWING NO. A2-101 V.P.S.-P.04-04<br>SHEET NO. 123   |
| APPROVED: <i>[Signature]</i><br>PROJECT MANAGER   |  | DATE: _____<br>CONTRACT NO.: _____   |

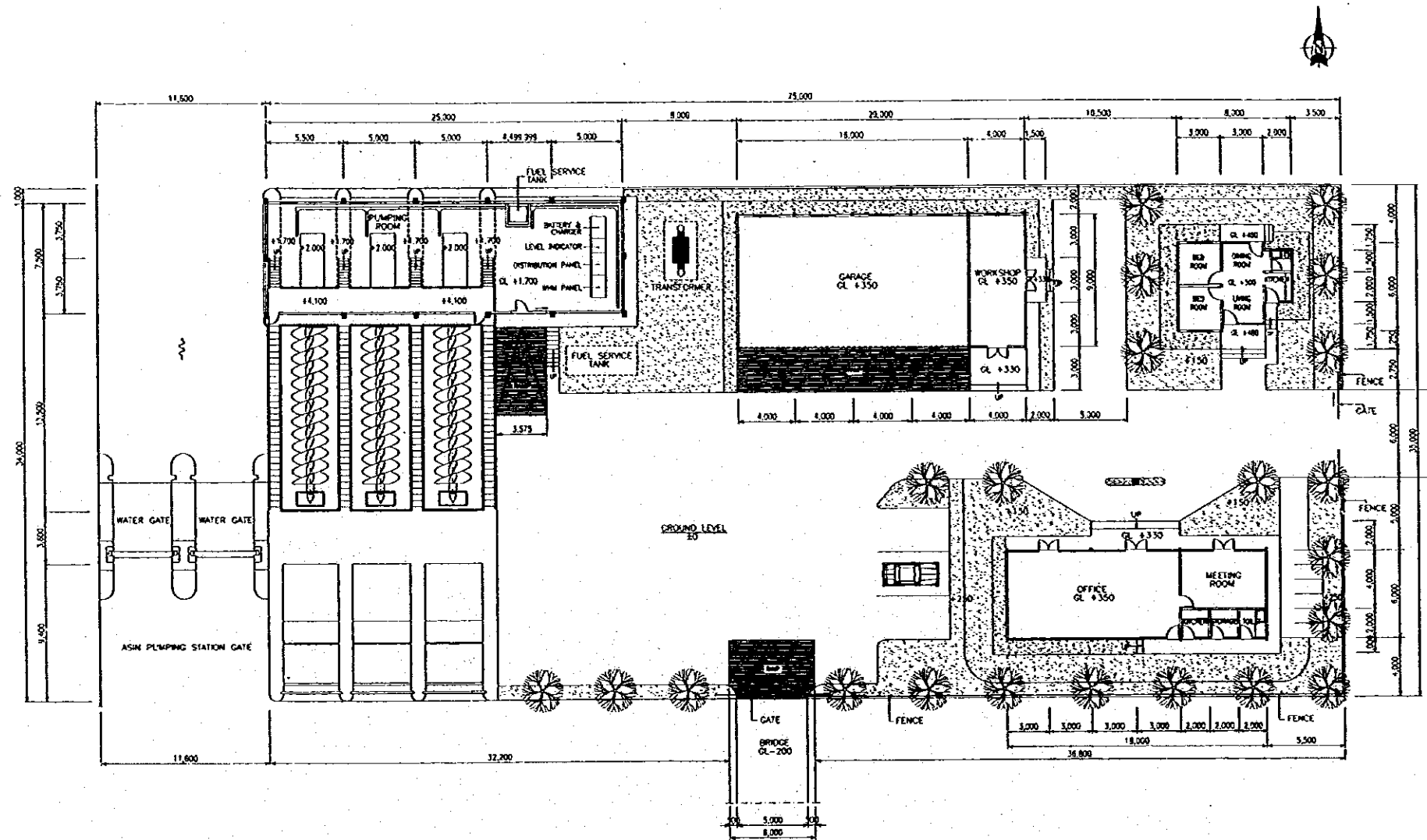
# FLOOR AREA TABLE

| PUMPING HOUSE   |    |              |   | CONTROL OFFICE  |   |            |               |  |                        |                        |  |
|---|----|--------------|---|---|---|------------|---------------|--|------------------------|------------------------|--|
|    |    |              |   |    |   |            |               |  |                        |                        |  |
| CODE  |    | FLOOR AREA   |   | CODE  |   | FLOOR AREA |               |  |                        |                        |  |
| 1   | P  | PUMPING ROOM | 7,500x3,500   | 187,500 M <sup>2</sup>  | 1 | O          | OFFICE ROOM   | 12,000x6,000   | 72,000 M <sup>2</sup>  |                        |  |
| 2   | Te | TERRACE      | $((10,000 \times 1,000) + (7,500 \times 1,000)) / 3 =$  | 5,800 M <sup>2</sup>  | 2 | M          | MEETING ROOM  | 6,000x4,000  | 24,000 M <sup>2</sup>  |                        |  |
| 3   |    |              |   |   | 3 | K          | KITCHEN       | 2,000x2,000  | 4,000 M <sup>2</sup>   |                        |  |
| 4   |    |              |   |   | 4 | S          | STORAGE       | 2,000x2,000  | 4,000 M <sup>2</sup>   |                        |  |
| 5   |    |              |   |   | 5 | T          | TOILET        | 2,000x2,000  | 4,000 M <sup>2</sup>   |                        |  |
| 6   |    |              |   |   | 6 | Te         | TERRACE       | $((2,000 \times 6,000) + (1,000 \times 13,000) + (8,000 \times 1,000) + (1,000 \times 3,000)) / 3 =$ | 13,600 M <sup>2</sup>  |                        |  |
| TOTAL   |    |              |   | 193,300 M <sup>2</sup>  |   | TOTAL      |               |  |                        | 121,000 M <sup>2</sup> |  |
|  |    |              |   |  |   |            |               |  |                        |                        |  |
| CODE  |    | FLOOR AREA   |   | CODE  |   | FLOOR AREA |               |  |                        |                        |  |
| 1   | B  | BED ROOM     | 2x3,000x3,000   | 18,000 M <sup>2</sup>   | 1 | G          | GARAGE ROOM   | 16,000x2,000   | 144,000 M <sup>2</sup> |                        |  |
| 2   | D  | DINING ROOM  | (3,000x3,000)+(500x1,500)   | 9,750 M <sup>2</sup>  | 2 | W          | WORKSHOP ROOM | 9,000x4,000  | 36,000 M <sup>2</sup>  |                        |  |
| 3   | L  | LIVING ROOM  | 3,000x2,500   | 7,500 M <sup>2</sup>  | 3 | Te         | TERRACE       | $((2,900 \times 21,000) + (1,500 \times 3,000)) / 3 =$   | 19,200 M <sup>2</sup>  |                        |  |
| 4   | T  | TOILET       | 1,500x1,500   | 2,250 M <sup>2</sup>  | 4 |            |               |  |                        |                        |  |
| 5   | K  | KITCHEN      | 2,000x2,000   | 4,000 M <sup>2</sup>  | 5 |            |               |  |                        |                        |  |
| 6   | Te | TERRACE      | $((3,000 \times 1,250) + (1,000 \times 3,000) + (1,500 \times 900) + (300 \times 4,400)) / 3 =$ | 3,140 M <sup>2</sup>  | 6 |            |               |  |                        |                        |  |
| TOTAL   |    |              |   | 44,640 M <sup>2</sup>   |   | TOTAL      |               |  |                        | 199,000 M <sup>2</sup> |  |

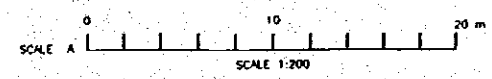
**GRAND TOTAL 558.690 M<sup>2</sup>**

| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT |  | PROVINCE<br>CENTRAL JAWA   |
| PRATUNSELUNA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>FLOOR AREA TABLE</b>             |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG IN THE REPUBLIC OF INDONESIA |
| PT. AIR INFRASTRUCTURAL COOPERATION AGENCY<br>PT. ENGINEERING CO. LTD. BY APPOINTMENT WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>JAYCO INTERNATIONAL INC.   |  | DISTRICT<br>SEMARANG CITY  |
| DESIGNED<br>CHECKED<br>CIPRO OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  | DRAWING NO. A2-102 U-P2-P-00-00<br>SHEET NO. 124<br>DATE<br>CONTRACT NO.   |

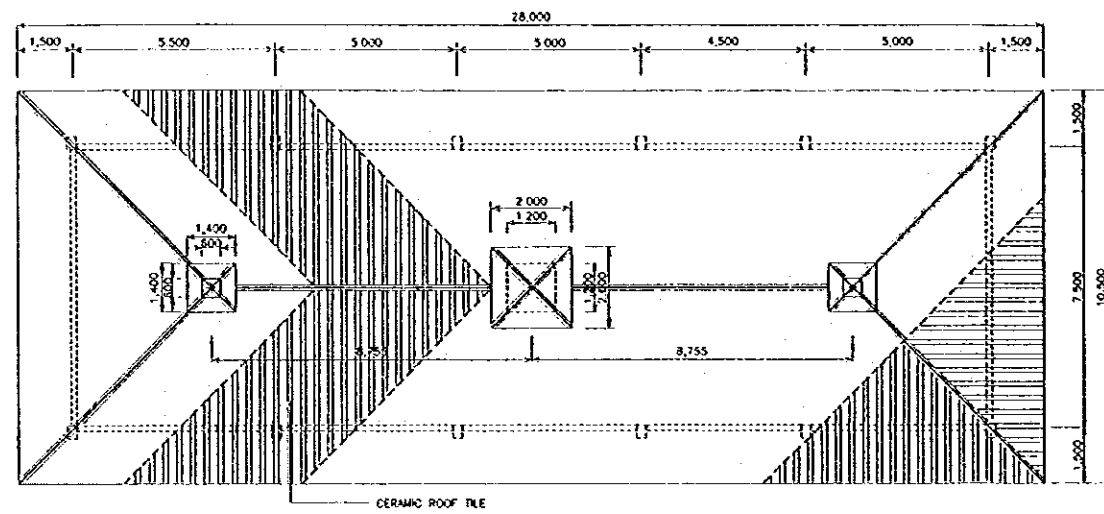


SITE PLAN  
SCALE A

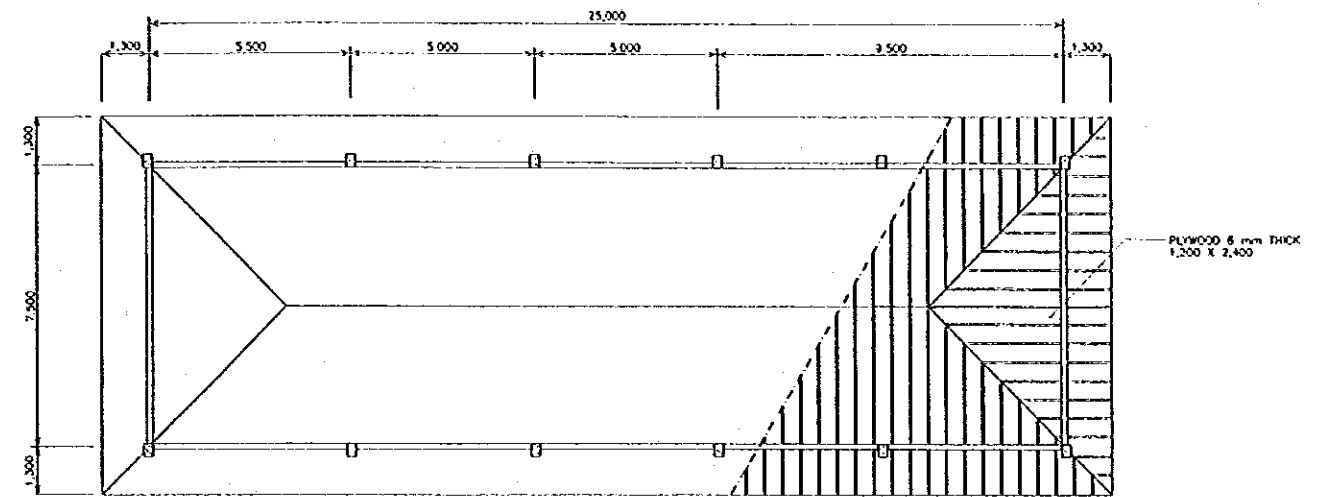


| NO | DATE | REVISIONS | PREPARED | DESIGNED | APPROVED |
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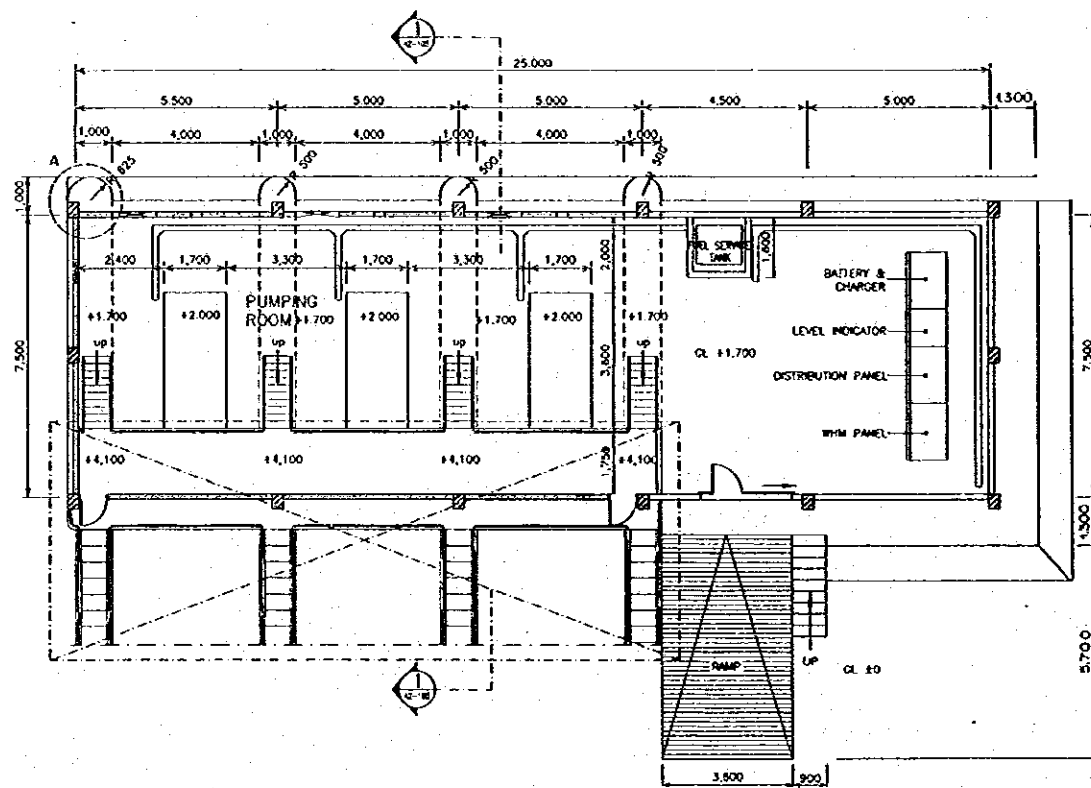
|   |                             |              |  |
|---|-----------------------------|--------------|--|
| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT |                             | PROVINCE     | CENTRAL JAWA   |
|   |                             | PROJECT NAME | FLOOD CONTROL, URBAN DRAINAGE AND TRAFFIC IMPROVEMENT DEVELOPMENT OF SEMARANG BY THE REPUBLIC OF INDONESIA |
| RAJAWALUMAJA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br>ASIN PUMPING STATION COMPLEX<br>SITE PLAN                                  |                             | DISTRICT     | SEMARANG CITY  |
|   |                             | DRAWING NO.  | A2-102U-P2-P-Bu-6  |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>CITY ENGINEERING COLLEGE IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PARCO INTERNATIONAL INC.       |                             | SHEET NO.    | 125  |
|   |                             | DATE         |  |
| APPROVED  | CHEF OF PLANNING AND DESIGN | CHECKED      |  |
|   | PROJECT MANAGER             |              |  |
|   |                             |              | CONTRACT NO.   |



**ROOF PLAN**  
SCALE A A2/104

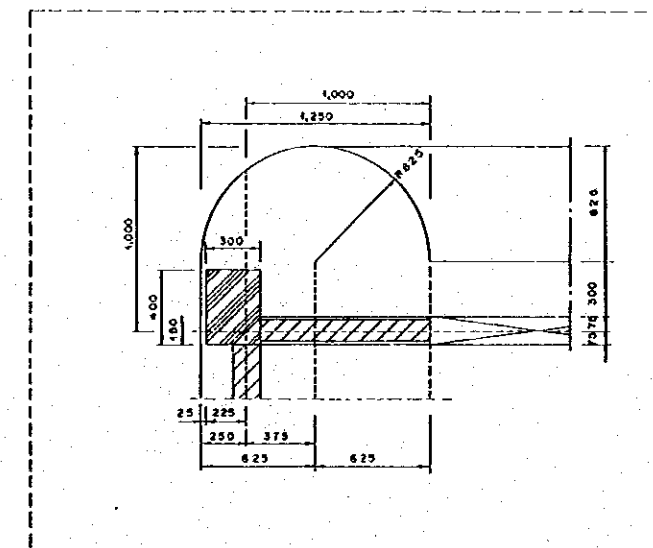


**REFLECTED CEILING PLAN**  
SCALE A A2/104

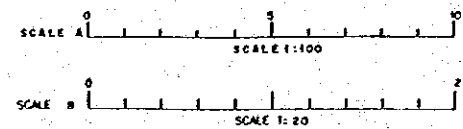


**FLOOR PLAN**  
SCALE A A2/104


- NOTES :**
1. STRUCTURE IS CIVIL WORK.
  2. X MARK IS CIVIL WORK.

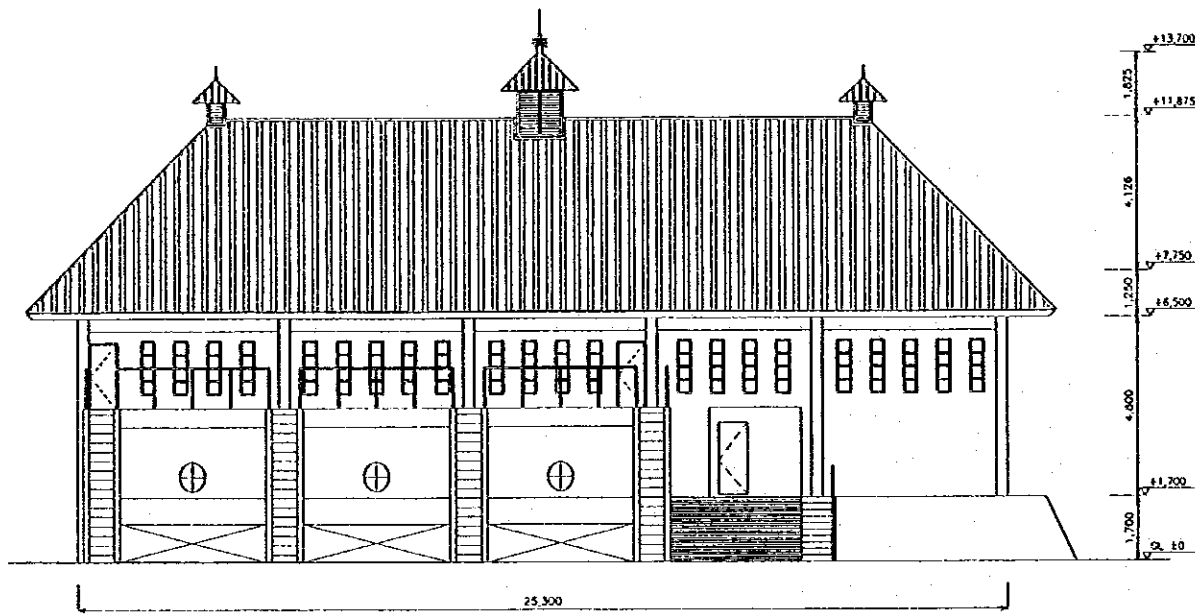


**DETAIL A**  
SCALE B A2/104

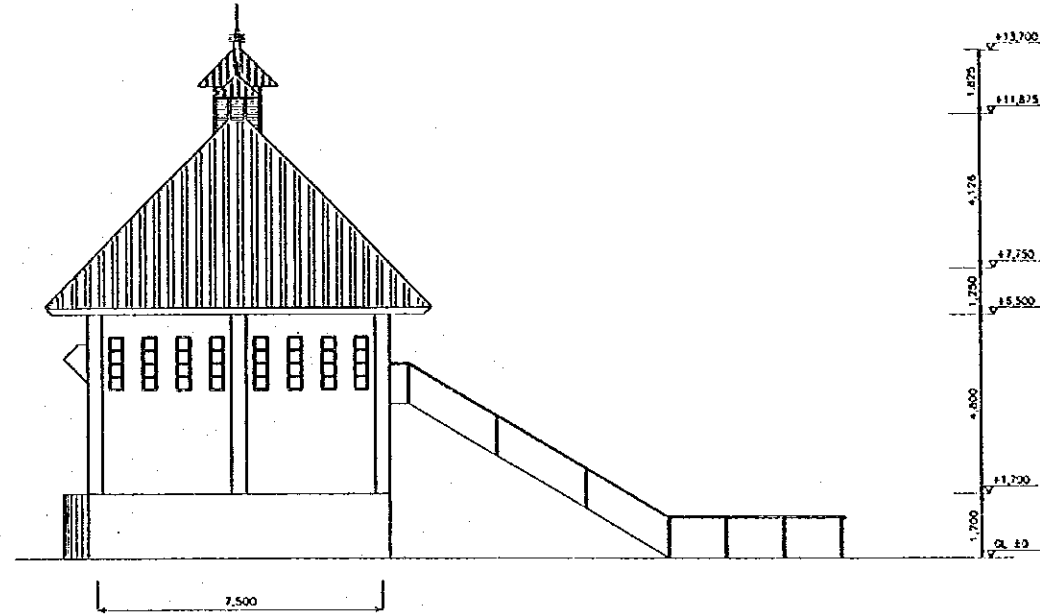


| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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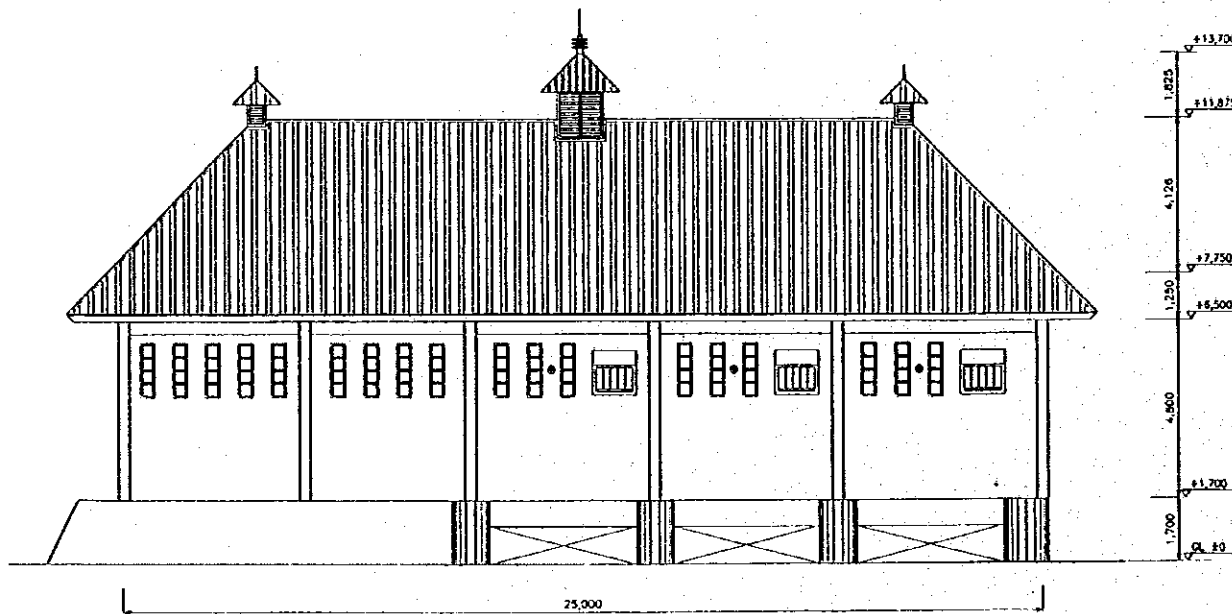
|  |              |   |
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| <br><b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT | PROVINCE     | CENTRAL JAWA  |
|  | PROJECT NAME | FLOOD CONTROL URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA |
|  | DISTRICT     | SEMARANG CITY   |
|  | DRAWING NO.  | A2-104-M-P2-P-84-07   |
| SAPTA INTERNATIONAL COOPERATION AGENCY<br>C/O BROWNSHAW CO. LTD. 8th FLOOR 10th<br>FACILITY CONTROL PLANT INTERNATIONAL, AND<br>PACIFIC INTERNATIONAL PTE. LTD.  | DESIGNED     | <i>[Signature]</i>  |
| CHEF OF PLANNING AND DESIGN  | CHECKED      | <i>[Signature]</i>  |
| PROJECT MANAGER  | DATE         | CONTRACT NO.  |
|  |              | 126   |



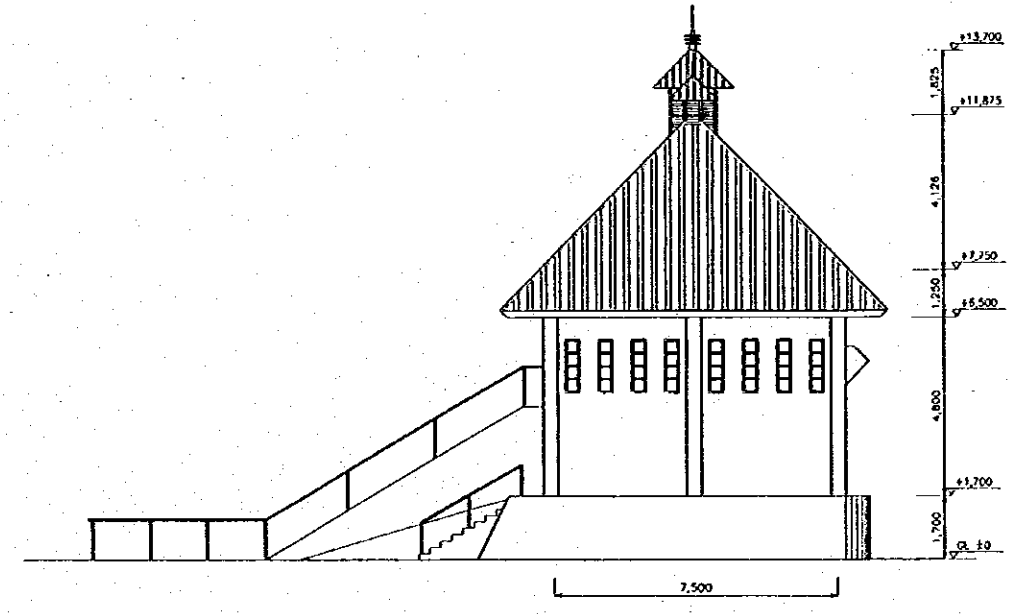
SOUTH ELEVATION  
SCALE A A2 | 105



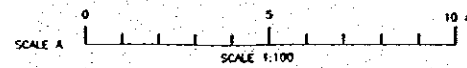
WEST ELEVATION  
SCALE A A2 | 105



NORTH ELEVATION  
SCALE A A2 | 105



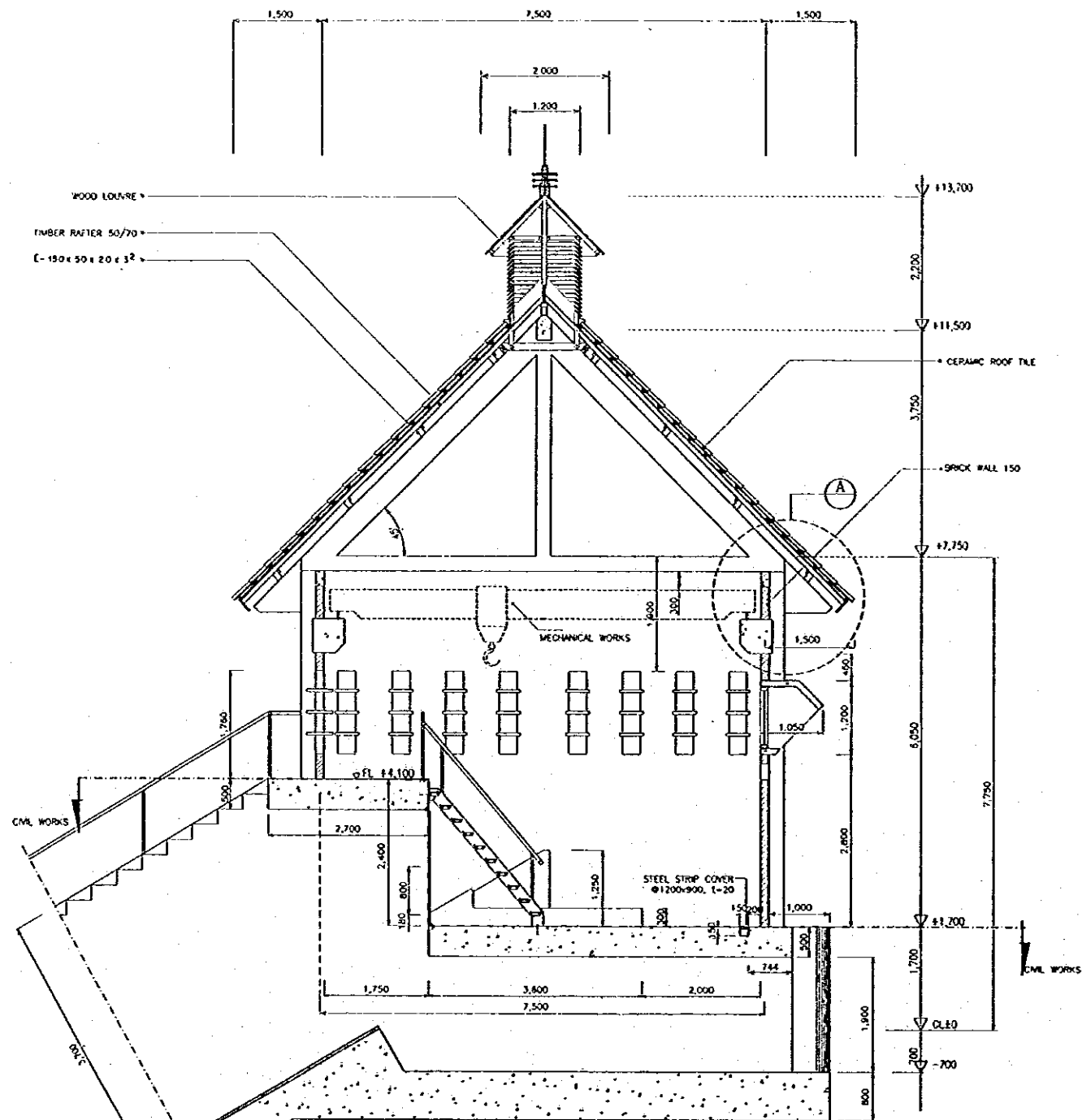
EAST ELEVATION  
SCALE A A2 | 105



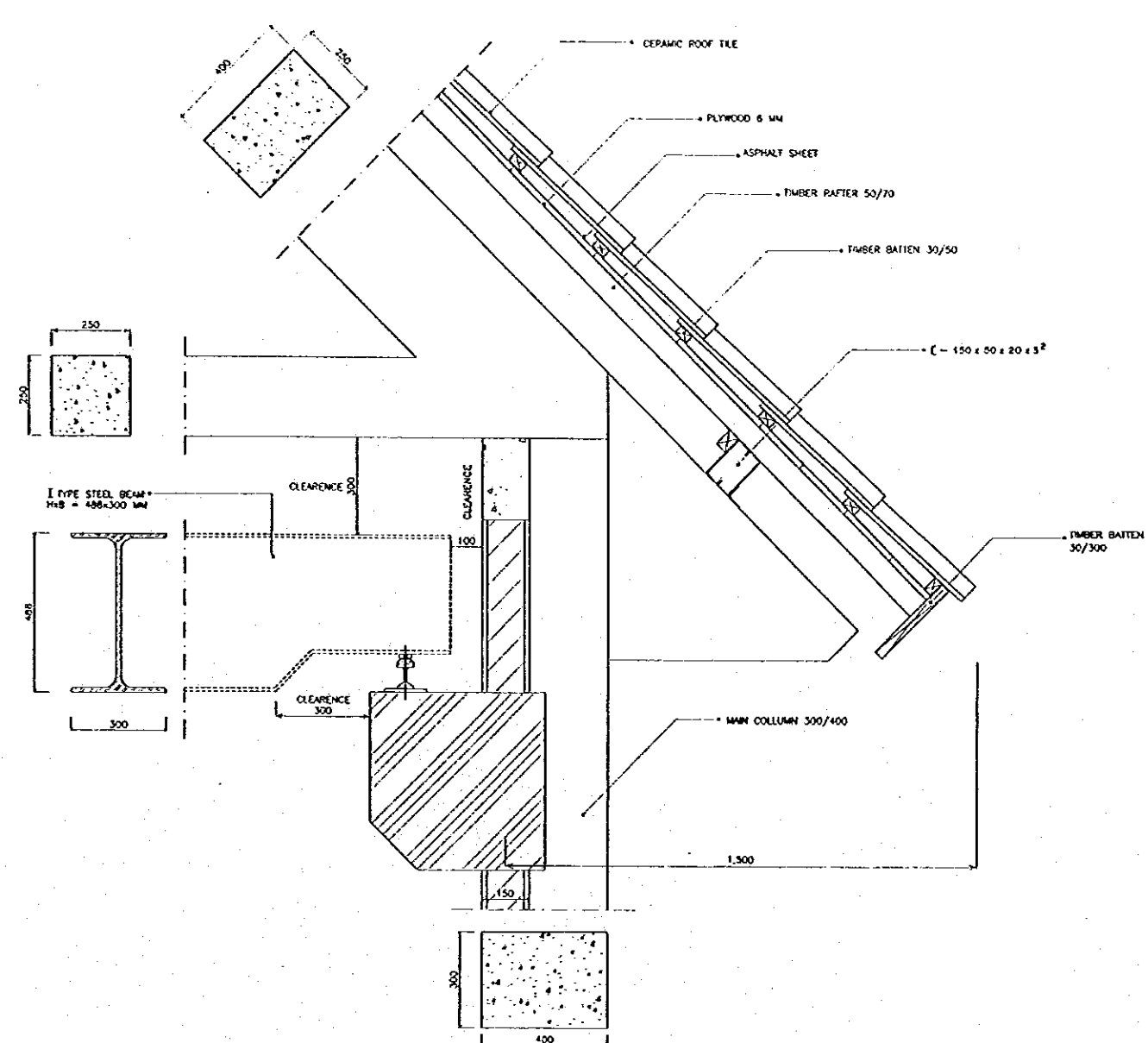
| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT |  | PROVINCE<br>CENTRAL JAWA   |
| BRATUNGSILUNA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br>ASIN PUMPING STATION COMPLEX<br>ELEVATION<br>PUMP CONTROL BUILDING        |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG BY THE REPUBLIC OF INDONESIA |
| LUPA INTERNATIONAL COOPERATION AGENCY<br>CE ENGINEERING COLTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PANDU INTERNATIONAL INC.           |  | DISTRICT<br>SEMARANG CITY  |
| DESIGNED<br>CHECKED<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  | DRAWING NO. A2-105 U-P2-P-BH-08<br>SHEET NO. 127<br>DATE<br>CONTRACT NO.   |

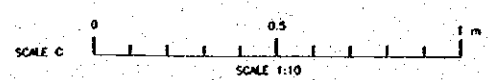
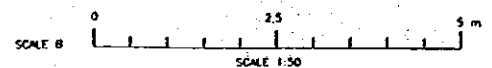




SECTION  
SCALE B

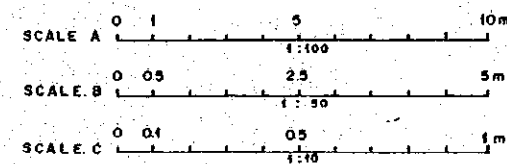
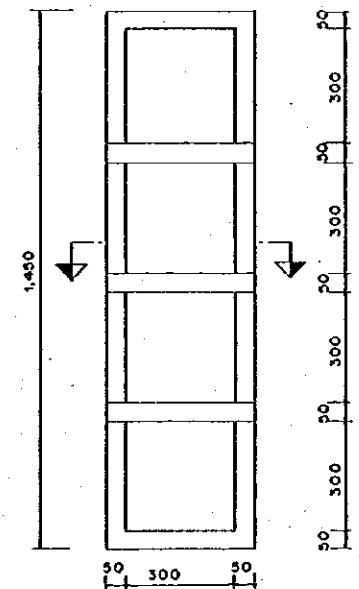
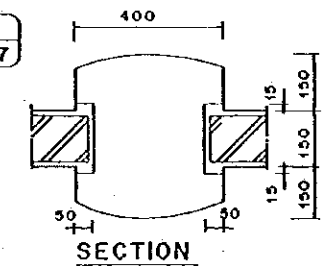
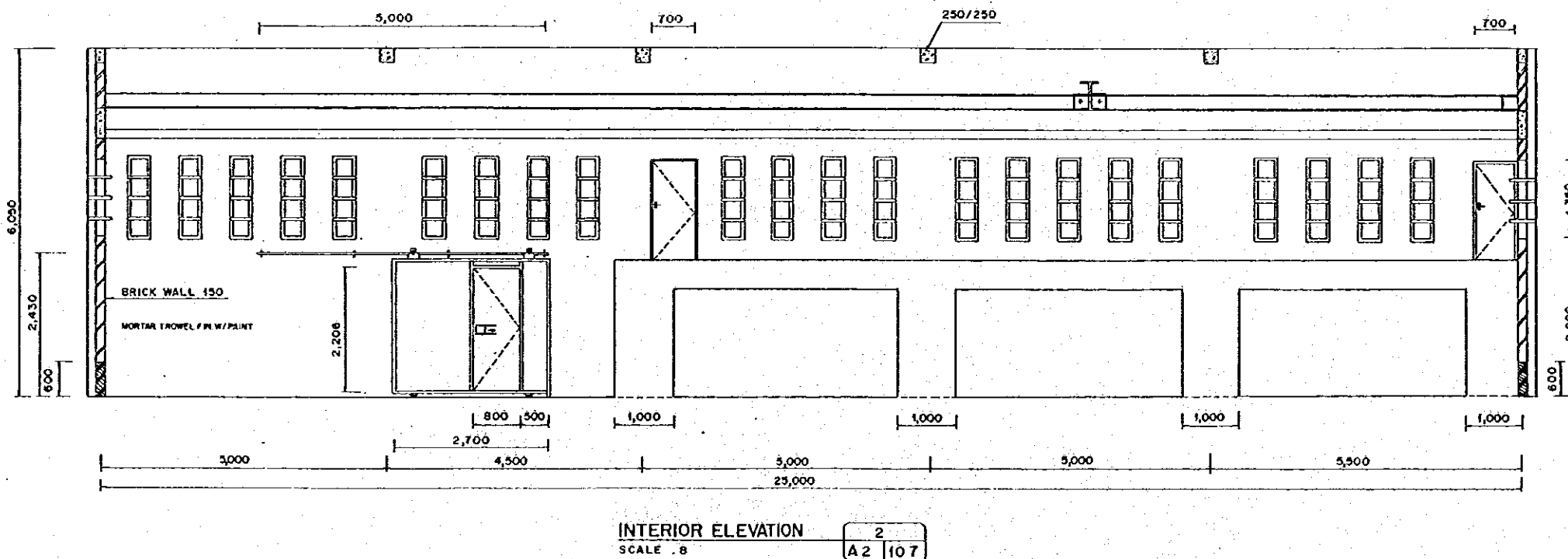
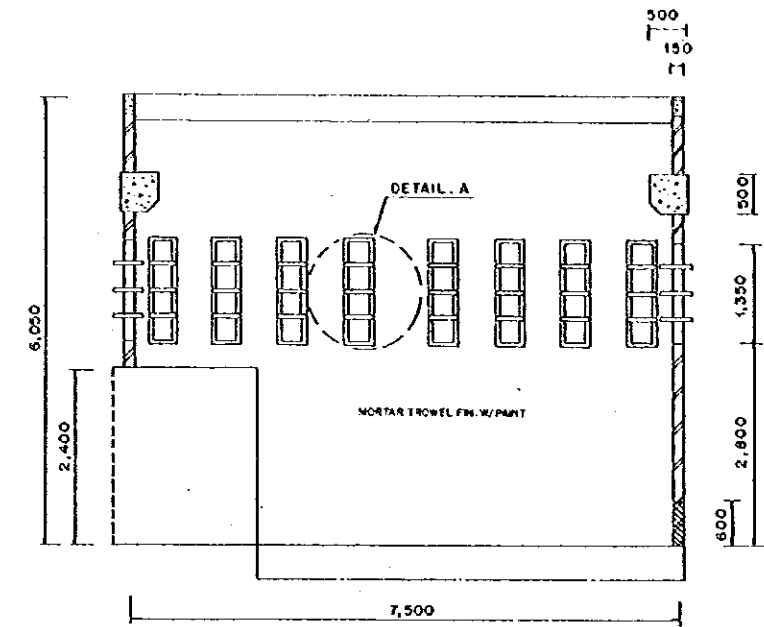
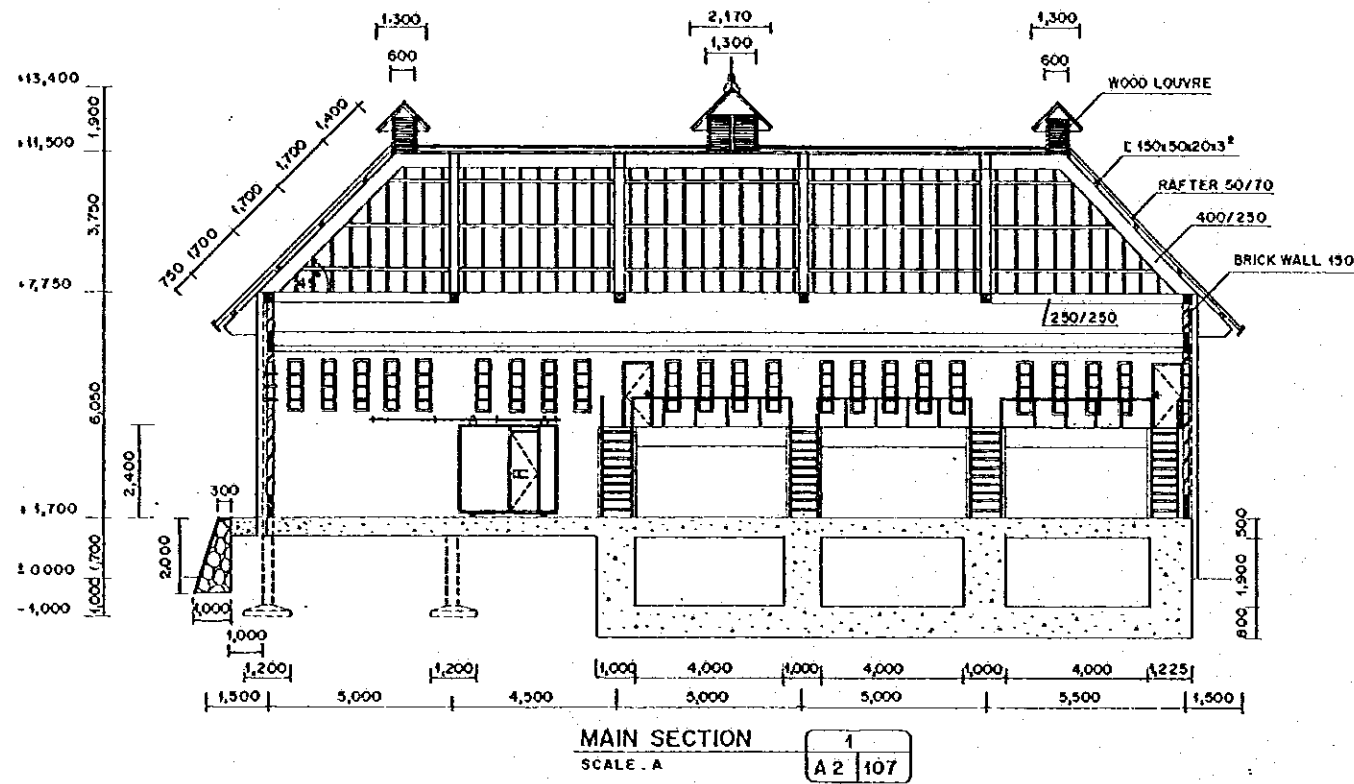


DETAIL  
SCALE C



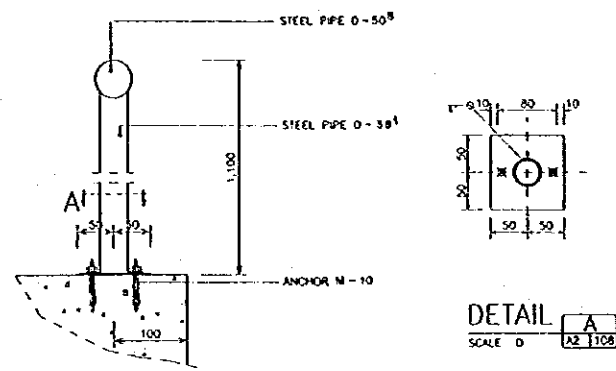
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT            |  | PROVINCE<br>CENTRAL JAWA   |
| JATUNGSILUMA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br>ASIN PUMPING STATION COMPLEX<br>SECTION I-1 & DETAIL SECTION<br>PUMP CONTROL BUILDING |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG IN THE REPUBLIC OF INDONESIA |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>LTD. (JICA) IN COOPERATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL, INC.<br>PACIFIC INTERNATIONAL, INC.                          |  | DISTRICT<br>SEMARANG CITY  |
| DESIGNED<br>CHECKED  |  | DRAWING NO. A2-108 U-P2-P-8a-08<br>SHEET NO. 12B   |
| CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  | DATE<br>CONTRACT NO.   |

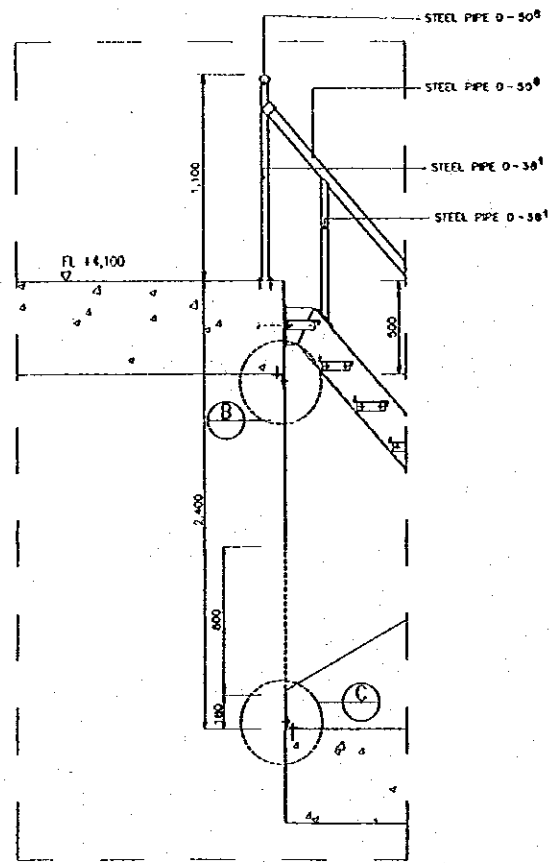


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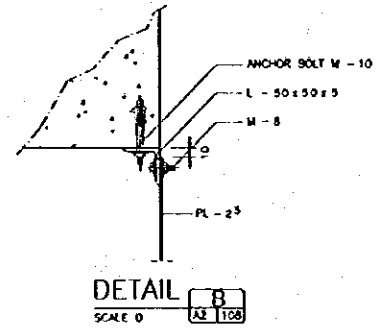
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT  |  | PROVINCE<br><b>CENTRAL JAVA</b>  |
| SURABAYA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>SECTION II - II INTERIOR ELEVATION &amp; DETAIL</b><br><b>PUMP CONTROL BUILDING</b> |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SURABAYA IN THE REPUBLIC OF INDONESIA |
| SUDAN INTERNATIONAL COOPERATION AGENCY<br>CIL (INDONESIA) CO., LTD. IN ASSOCIATION WITH<br>PACIFIC OVERSEAS ENTERPRISES (INDONESIA) LTD.<br>(P.O. INTERNATIONAL) PCL   |  | DISTRICT<br><b>SURABAYA CITY</b>   |
| DESIGNED<br>CHECKED  |  | DRAWING NO. <b>A2 - 107</b> (1-PS-P-04-10)<br>SHEET NO. <b>129</b>   |
| CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  | DATE<br>CONTRACT NO.   |



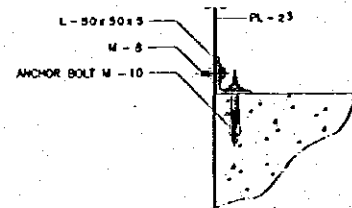
DETAIL REILING  
SCALE D



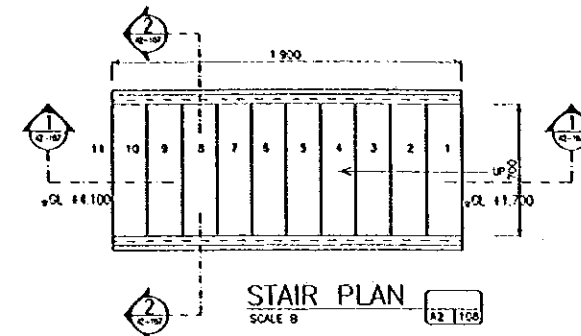
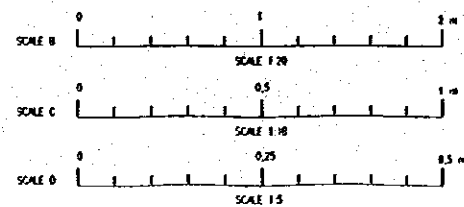
DETAIL  
SCALE B



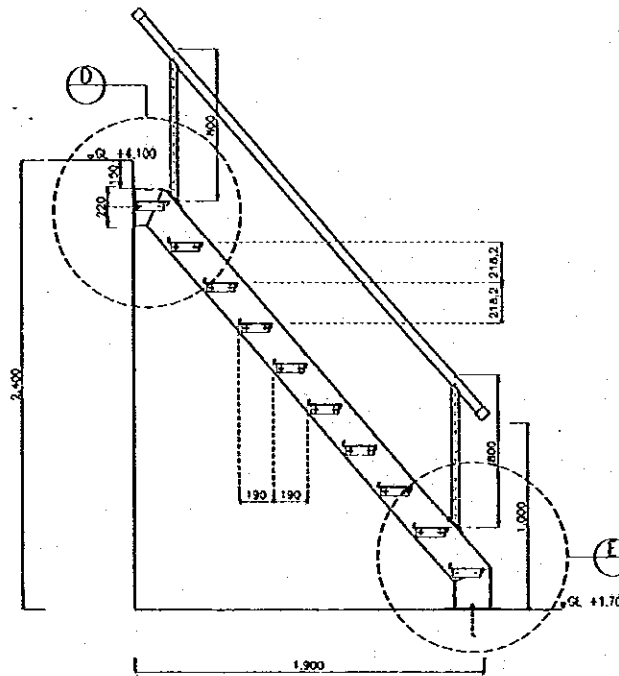
DETAIL  
SCALE D



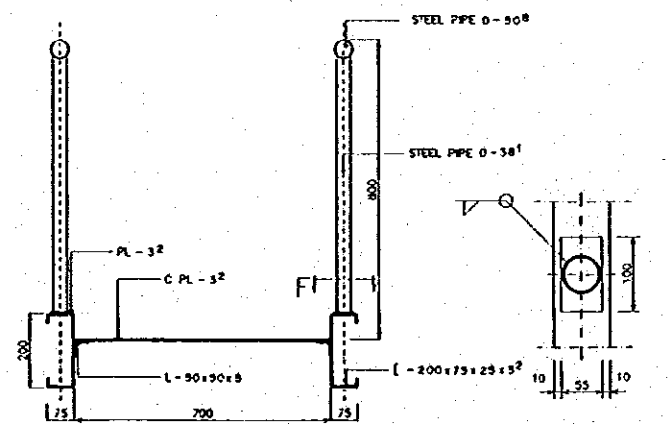
DETAIL  
SCALE D



STAIR PLAN  
SCALE B

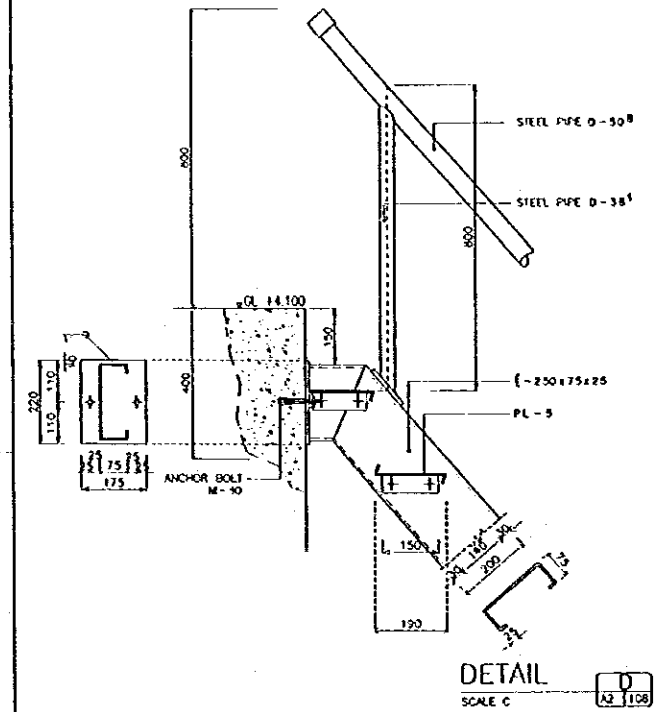


SECTION  
SCALE B

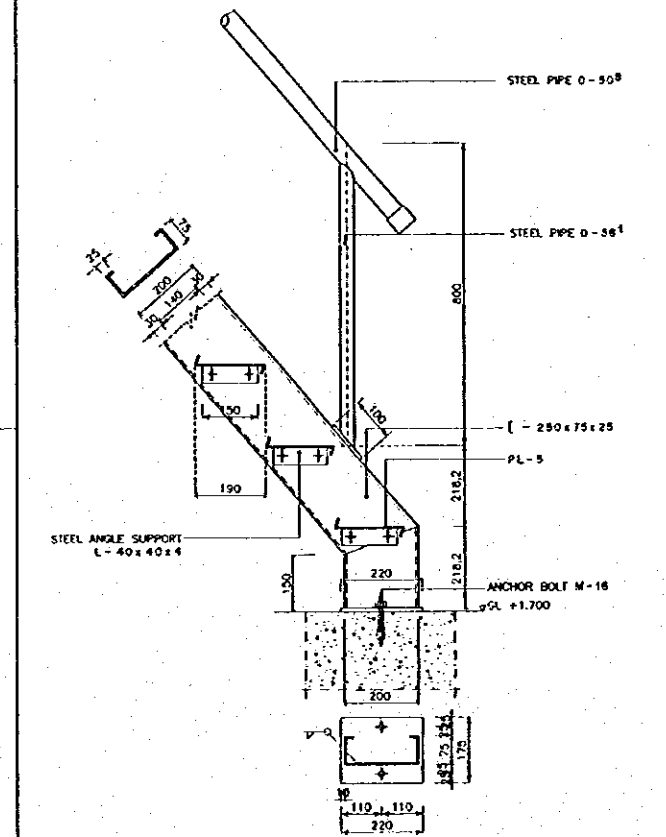


SECTION  
SCALE C

DETAIL  
SCALE D



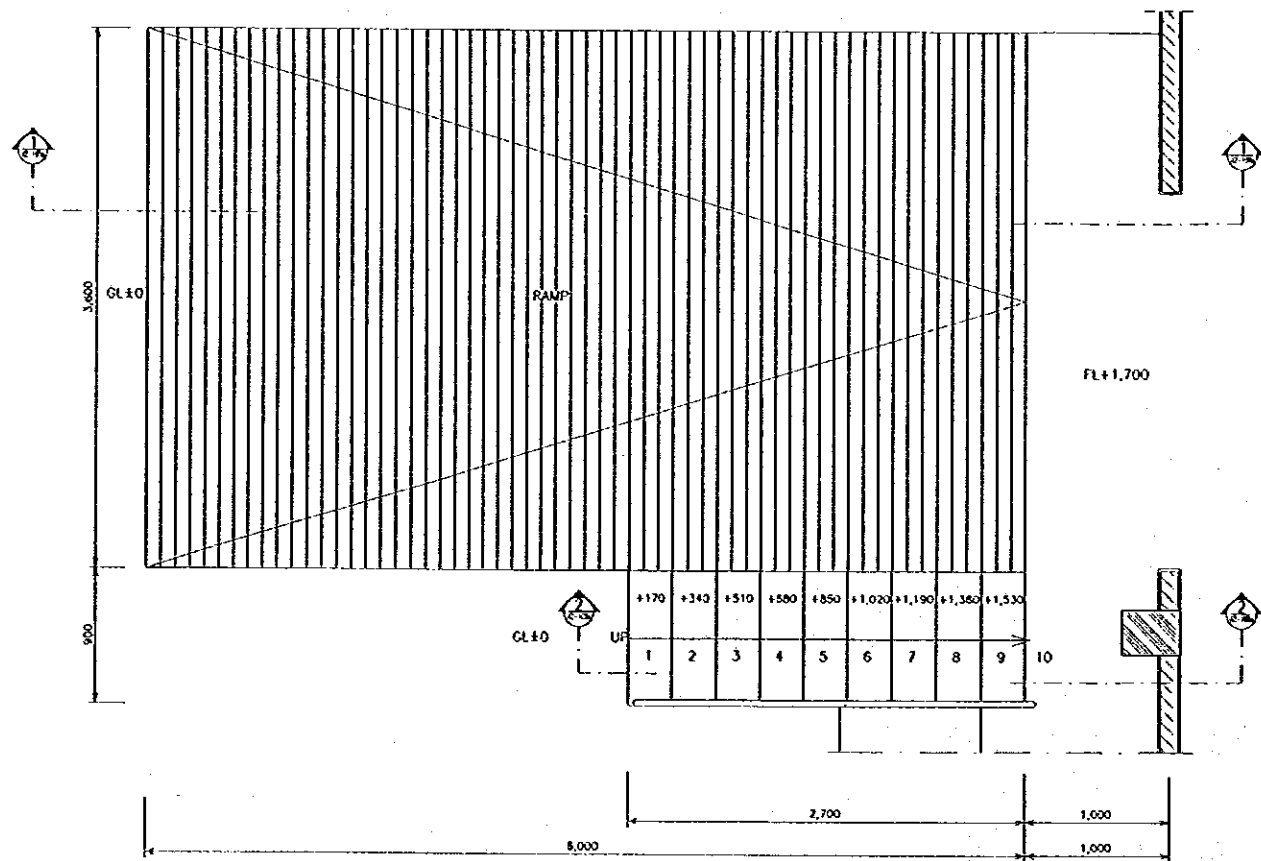
DETAIL  
SCALE C



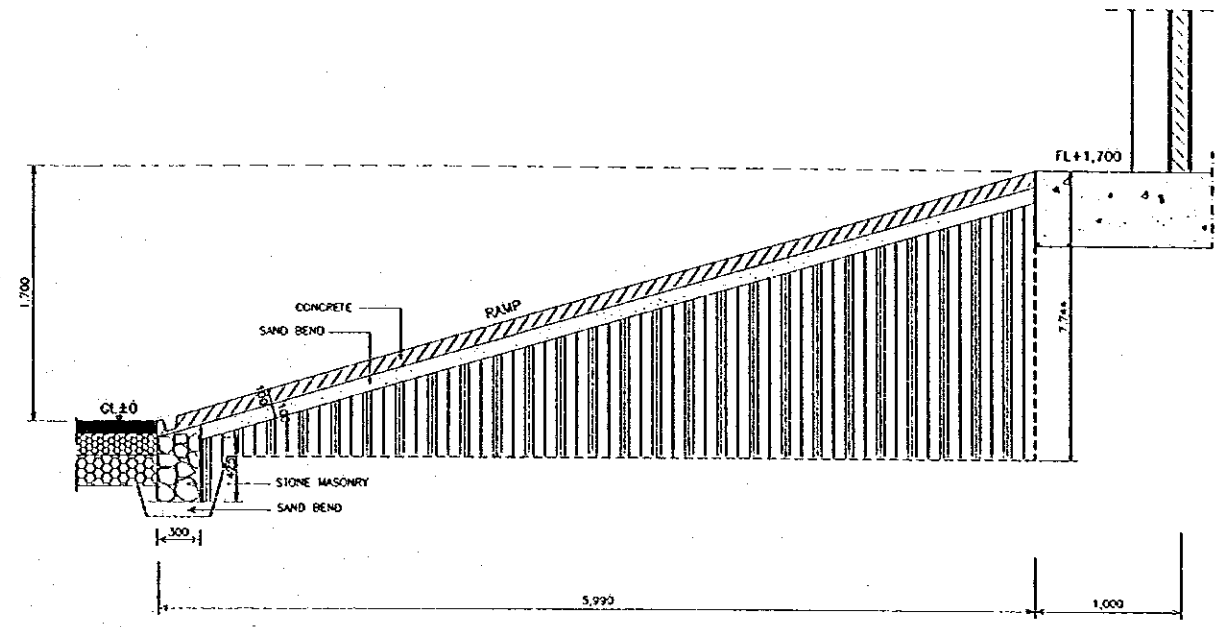
DETAIL  
SCALE C

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| THE REPUBLIC OF INDONESIA<br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT            |  | PROVINCE<br>CENTRAL JAVA   |
| IRATUNSELUNA FLOOD CONTROL PROJECT<br>COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT<br>ASIN PUMPING STATION COMPLEX<br>MISCELLANEOUS DETAIL 4<br>PUMP CONTROL BUILDING |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG OF THE REPUBLIC OF INDONESIA |
| DEPARTMENT OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  | DISTRICT<br>SEMARANG CITY  |
| DESIGNED<br>CHECKED   |  | DRAWING NO. A2-108-U-P2-P-Bu-H<br>SHEET NO.<br>130   |
| DATE  |  | CONTRACT NO.   |

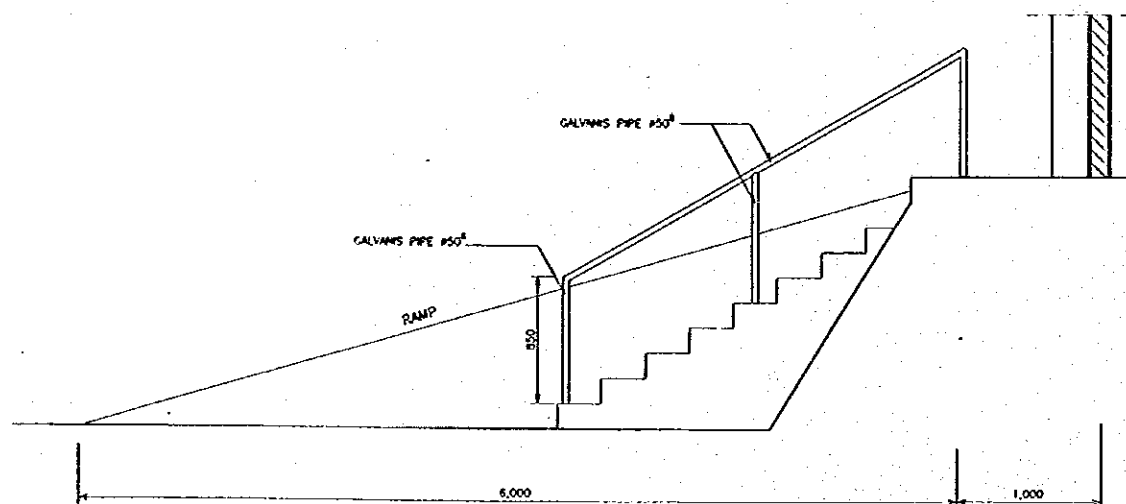
| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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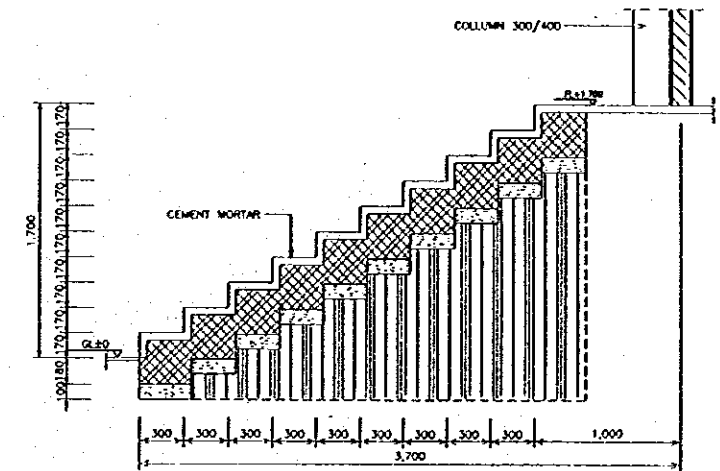
DETAIL  
SCALE A



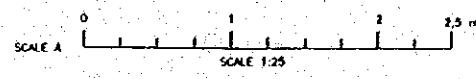
SECTION  
SCALE A



ELEVATION  
SCALE A

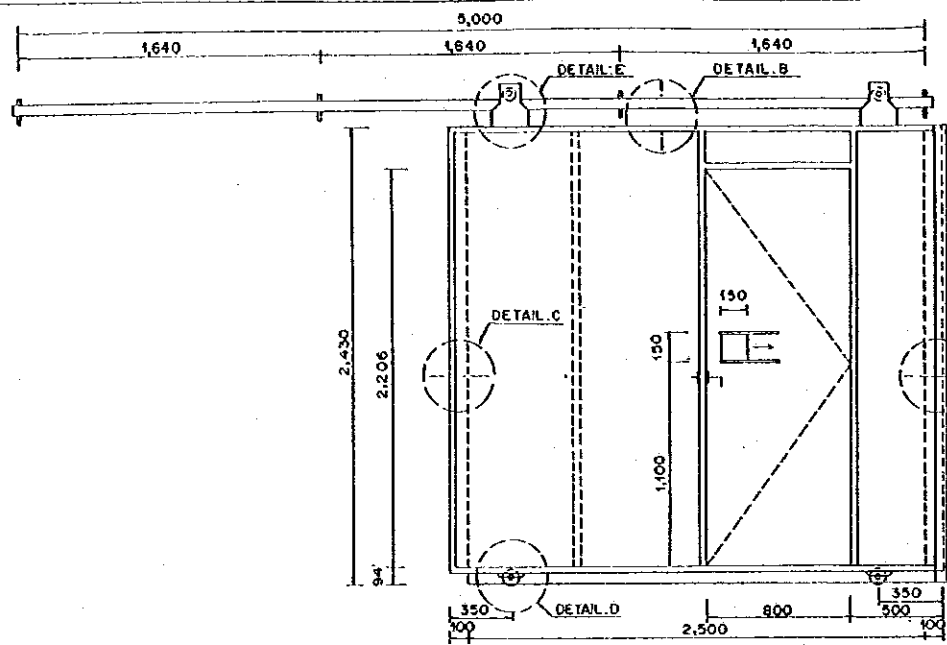


SECTION  
SCALE A

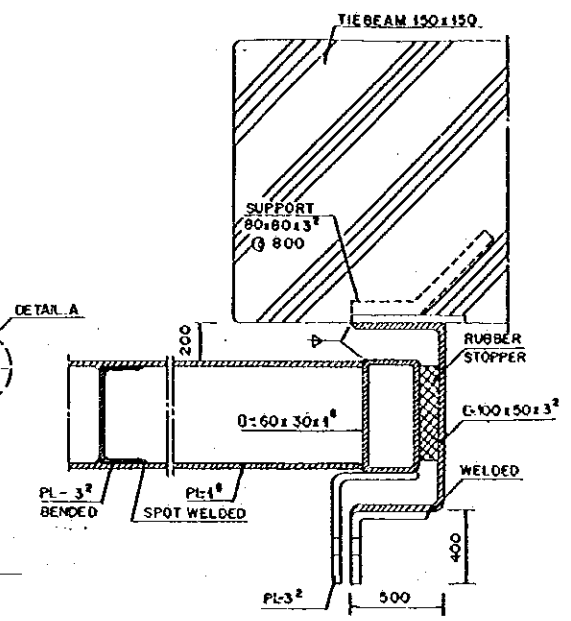


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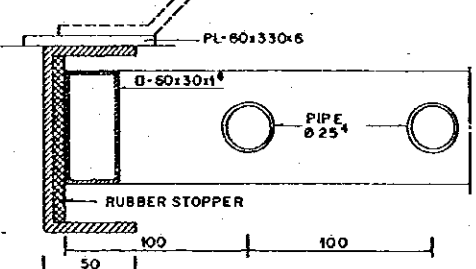
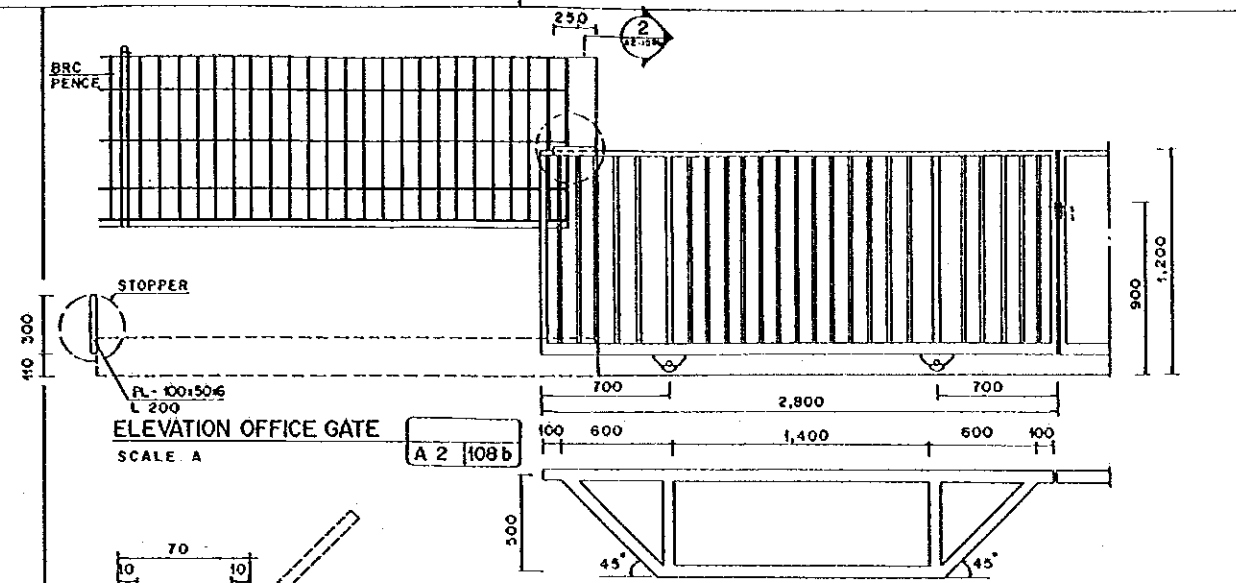
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT      |  | PROVINCE<br>CENTRAL JAWA   |
| PT. MULIA INTERNATIONAL COOPERATION AGENCY<br>CTE IN-CONSTRUCTION CO. LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PANGLOSS INTERNATIONAL INC. |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG BY THE REPUBLIC OF INDONESIA |
| WATUNGSELUNA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br>ASIN PUMPING STATION COMPLEX<br>MISCELLANEOUS DETAIL 2<br>PUMP CONTROL BUILDING |  | DISTRICT<br>SEMARANG CITY  |
| DESIGNED<br>CHECKED  |  | DRAWING NO. AZ-106/AI-P2-P-04-12<br>SHEET NO. 131  |
| APPROVED<br>DIRECTOR OF PLANNING AND DESIGN<br>PROJECT MANAGER   |  | DATE<br>CONTRACT NO.   |



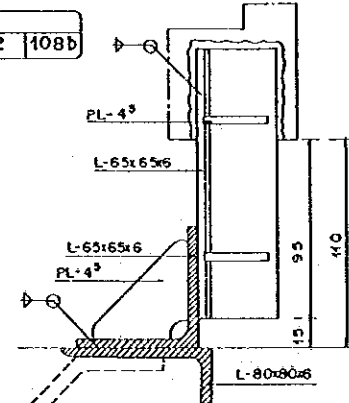
ELEVATION PUMPING HOUSE DOOR  
SCALE A



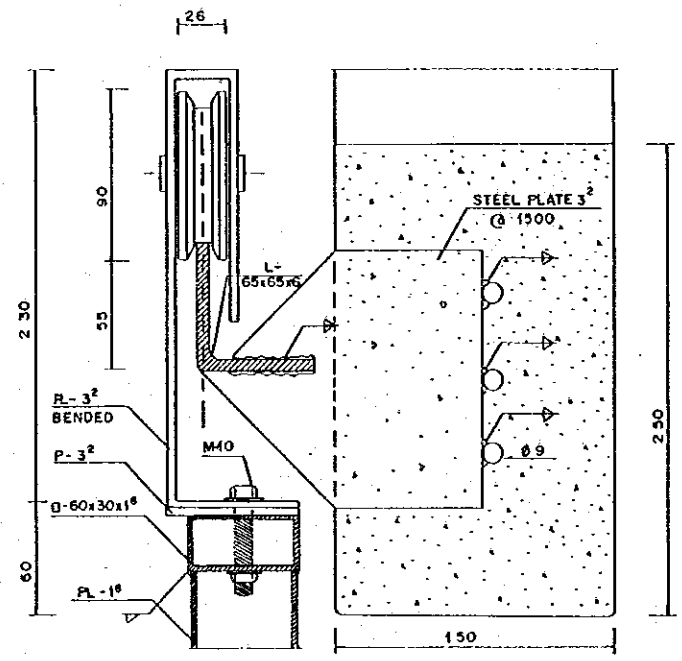
DETAIL A  
SCALE A  
A 2 108b



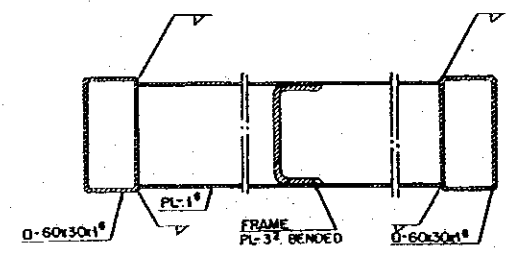
MAIN GATE PLAN  
SCALE A  
A 2 108b



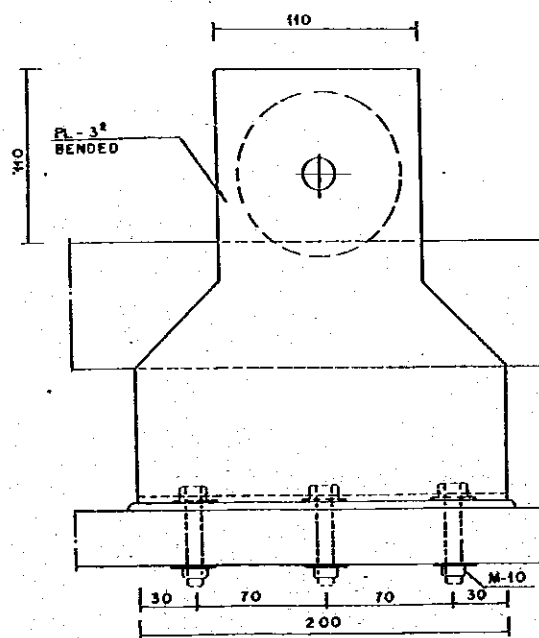
STOPPER DETAIL  
SCALE C  
A 2 108b



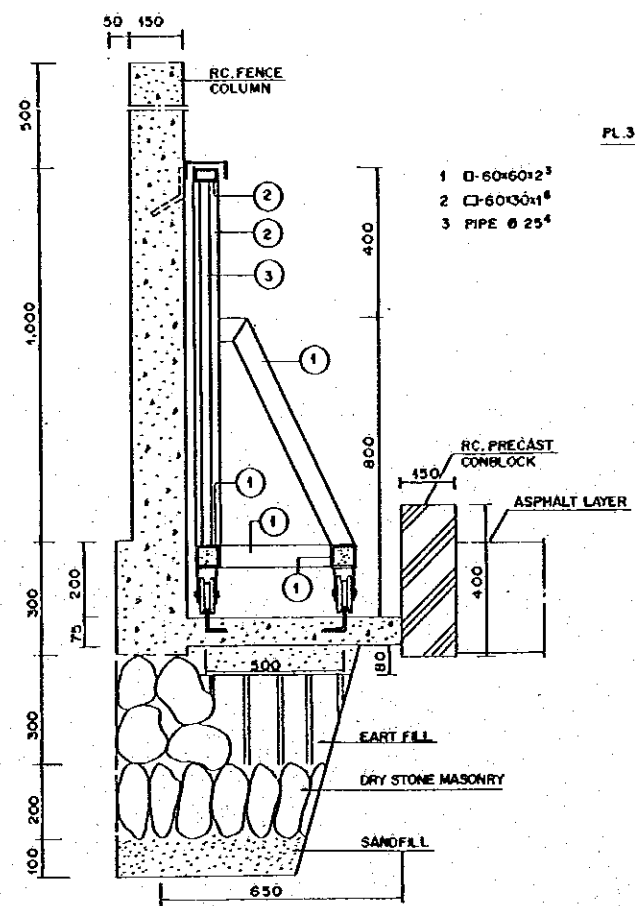
DETAIL B  
SCALE C  
A 2 108b



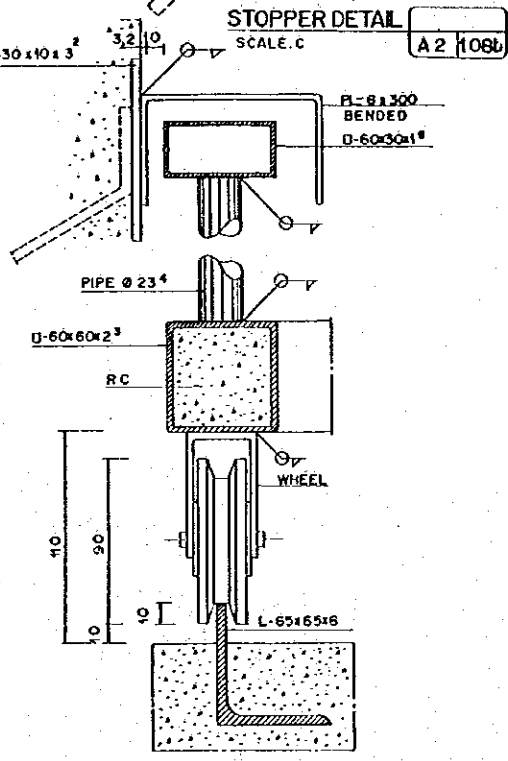
DETAIL C  
SCALE A  
A 2 108b



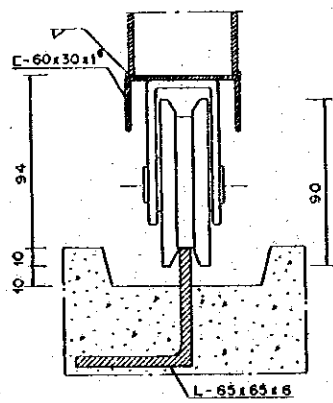
DETAIL E  
SCALE C  
A 2 108b



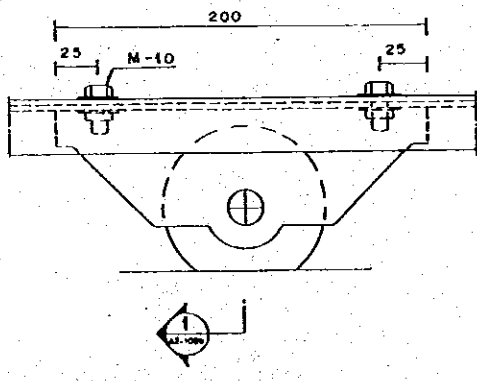
SECTION 2  
SCALE B  
A 2 108b



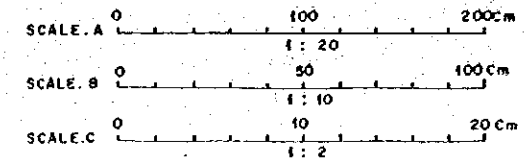
DETAIL SECTION  
SCALE C  
A 2 108b



SECTION 1  
SCALE C  
A 2 108b



DETAIL D  
SCALE C  
A 2 10 b



| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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THE REPUBLIC OF INDONESIA  
MINISTRY OF PUBLIC WORKS  
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

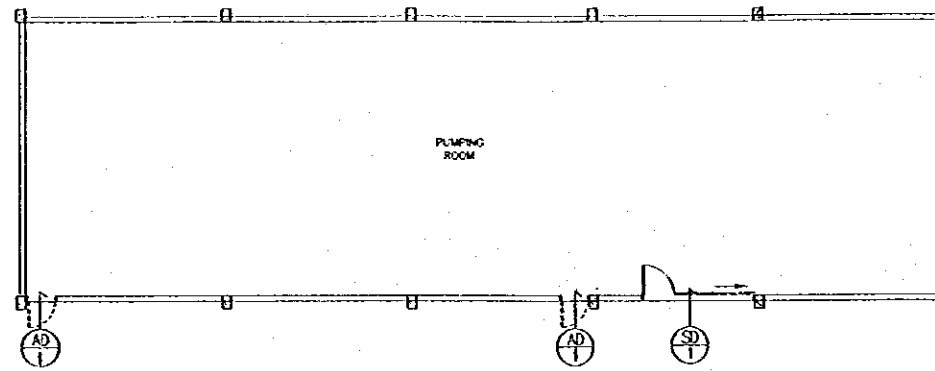
IRATUNSELUNA FLOOD CONTROL PROJECT  
COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT  
ASIN PUMPING STATION COMPLEX  
MISCELLANEOUS DETAIL 3  
PUMP CONTROL BUILDING

INFORMAL TECHNICAL COOPERATION AGENCY  
PTI ENGINEERING COLTD. IN ASSOCIATION WITH  
PACIFIC CONSULTANTS INTERNATIONAL AND  
TACSO INTERNATIONAL INC.

DESIGNED: [Signature]  
CHECKED: [Signature]  
APPROVED: [Signature]

CHIEF OF PLANNING AND DESIGN  
PROJECT MANAGER

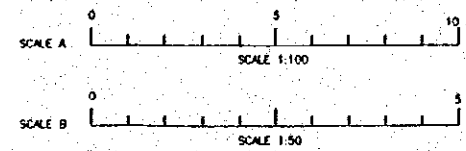
PROVINCE: CENTRAL JAWA  
PROJECT NAME: FLOOD CONTROL URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF SEMARANG IN THE REPUBLIC OF INDONESIA  
DISTRICT: SEMARANG CITY  
DRAWING NO: A 2-108b-P2-P.04-18  
SHEET NO: 132  
DATE: [Blank]  
CONTRACT NO: [Blank]



DOOR & WINDOW KEY PLAN A2.1109  
SCALE A

| MARK     |        | QTY   | <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">SD 1</span> | 1       | <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">AD 1</span> | 2       |
|----------|--------|-------|--|---------|--|---------|
| SHAPE    |        |       |  |         |  |         |
| TYPE     |        |       | SINGLE SWING & SLIDING   |         | SINGLE SWING   |         |
| MATERIAL | FINISH | FRAME | STEEL  |         | ALU  |         |
|          |        | PANEL | STEEL PLATE 3 MM   | PAINTED | STEEL PLATE 3 MM   | PAINTED |
| GLASS    |        |       |  |         |  |         |
| HARDWARE |        |       | METAL FITTINGS COMPLETE SET  |         | METAL FITTINGS COMPLETE SET  |         |
| POSITION |        |       | PUMPING ROOM   |         | PUMPING ROOM   |         |

DOOR & WINDOW SCHEDULE A2.1109  
SCALE B



**LEGEND :**

AD : ALUMINUM DOOR  
SD : STEEL DOOR

**MATERIAL :**  
ALU : ALUMINUM

DOORS & WINDOWS SYMBOL

REFERENCE NO.

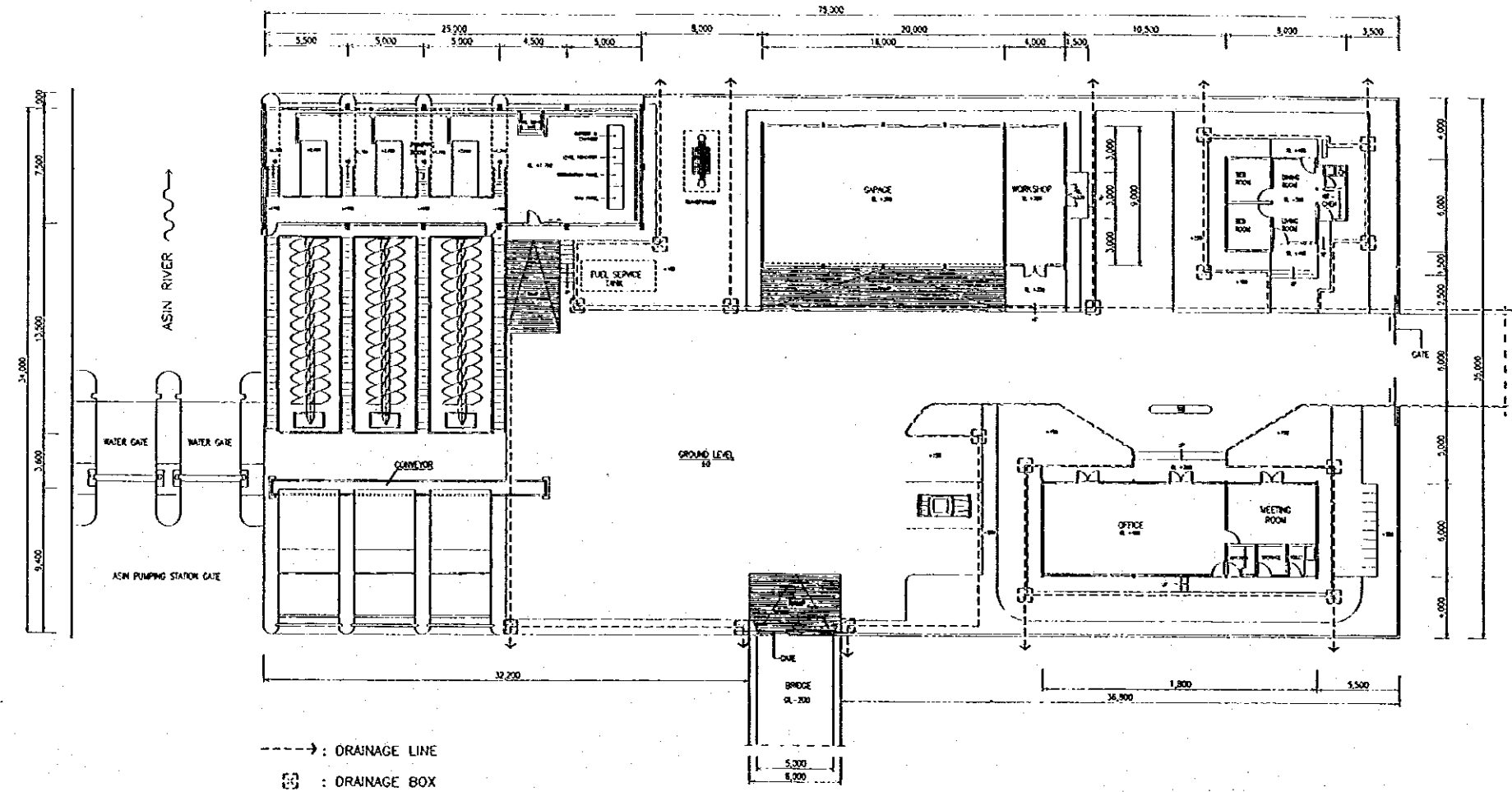
| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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**THE REPUBLIC OF INDONESIA**  
MINISTRY OF PUBLIC WORKS  
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

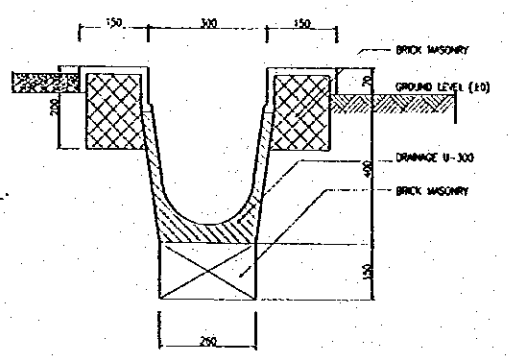
PROVINCE: CENTRAL JAVA  
PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF SEMARANG IN THE REPUBLIC OF INDONESIA  
DISTRICT: SEMARANG CITY  
DRAWING NO: A2-109 M-P2-R-06-14  
SHEET NO: 133

BRATUNGSILUMA FLOOD CONTROL PROJECT  
COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT  
ASIN PUMPING STATION COMPLEX  
KEY PLAN, DOOR & WINDOW SCHEDULE  
PUMP CONTROL BUILDING

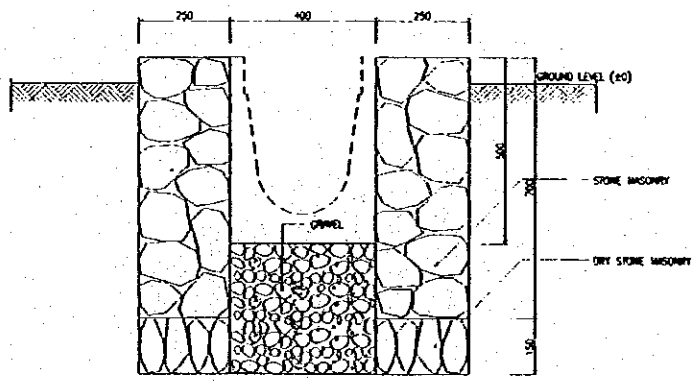
DATE:   
CONTRACT NO:   
DESIGNED:   
CHECKED:   
APPROVED:   
PROJECT MANAGER:



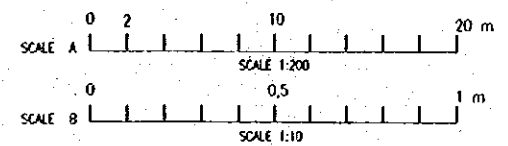
**DRAINAGE PLAN**  
SCALE A



**TYPICAL DRAINAGE**  
SCALE B

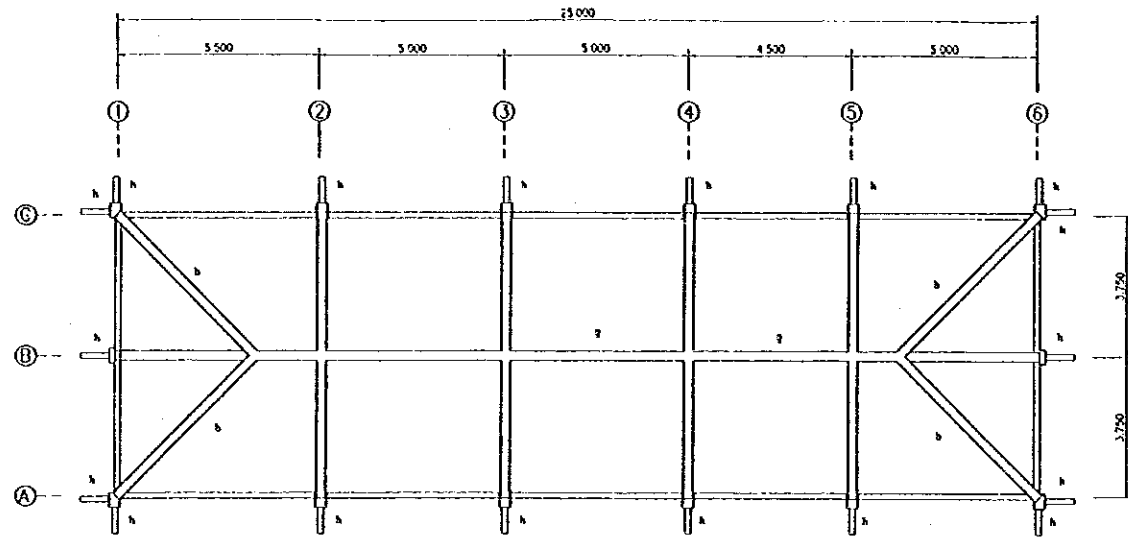


**DRAINAGE BOX**  
SCALE B

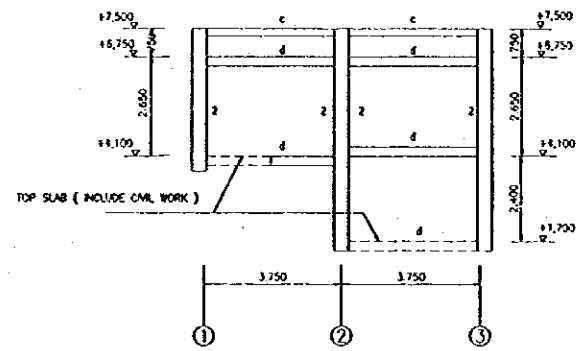


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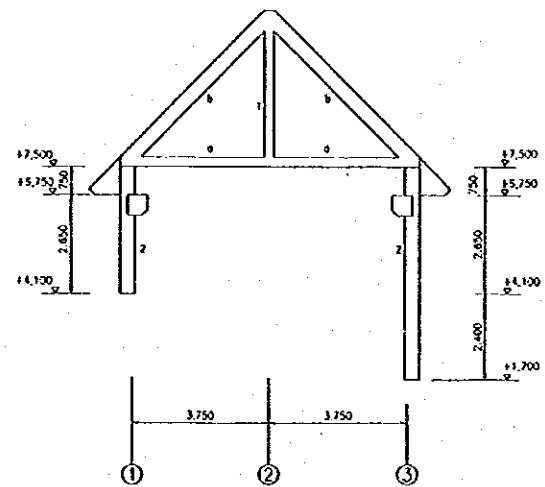
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT |  | PROVINCE<br>CENTRAL JAVA   |
| DRATUNSRILUNA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX<br/>         DRAINAGE PLAN AND DETAIL</b> |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG BY THE REPUBLIC OF INDONESIA |
| PT. RANIRI INTERNATIONAL CO. LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL INC.<br>PACIFIC INTERNATIONAL INC.                                     |  | DISTRICT<br>SEMARANG CITY  |
| DESIGNED<br>CHECKED   |  | DRAWING NO. A2-110 U-P2-P-86-18<br>SHEET NO.<br>134  |
| APPROVED<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER   |  | DATE<br>CONTRACT NO.   |



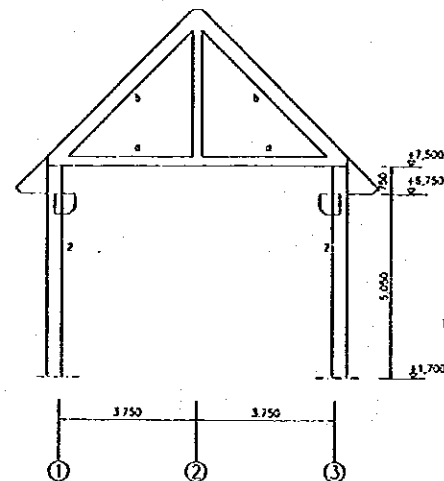
COLUMN AND BEAM PLAN  
SCALE A



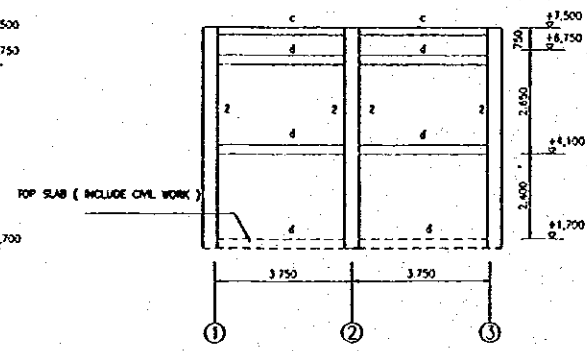
FRAMING LINE 1  
SCALE A



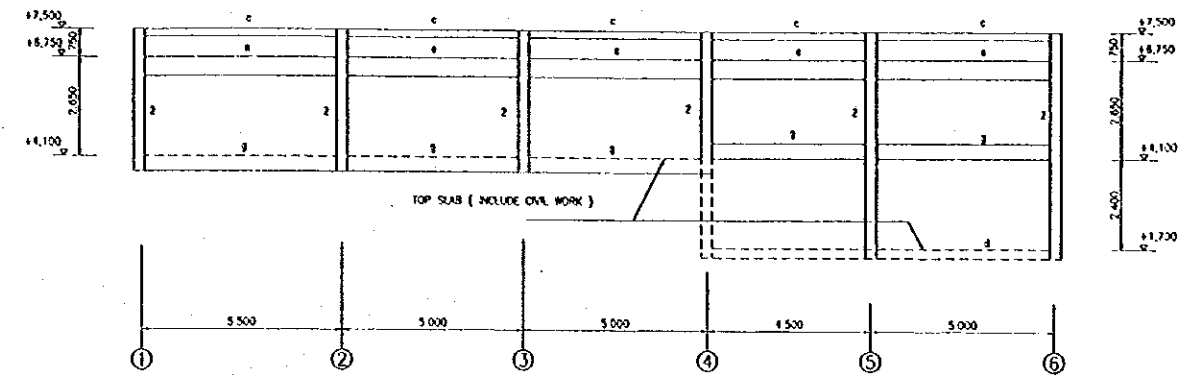
FRAMING LINE 2,3,4  
SCALE A



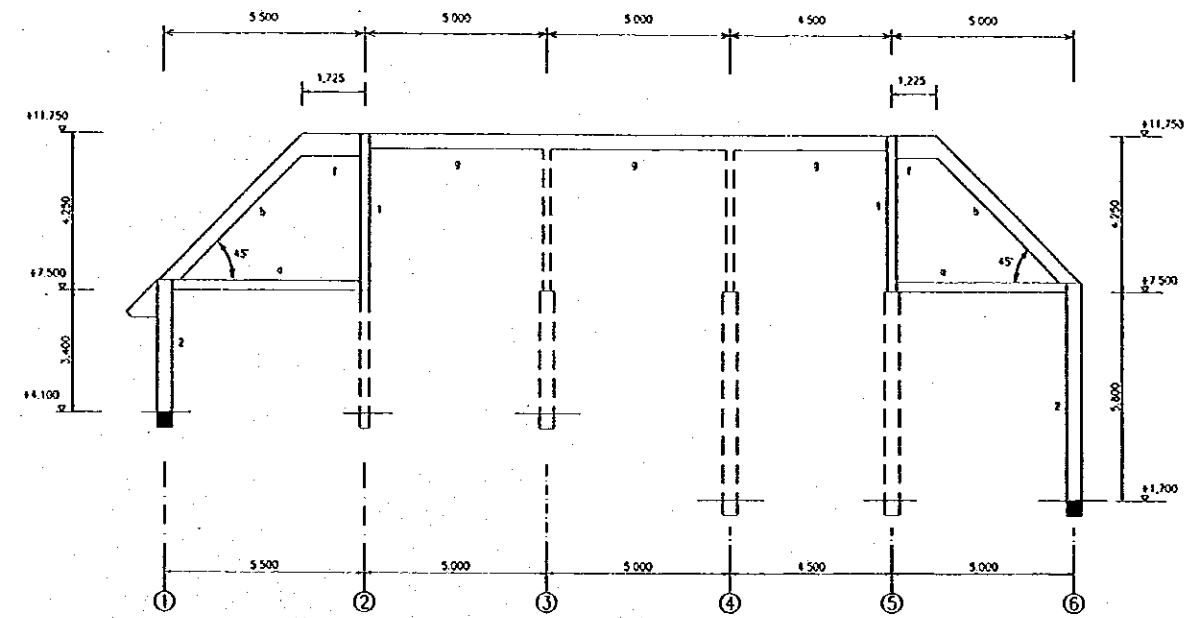
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SCALE A



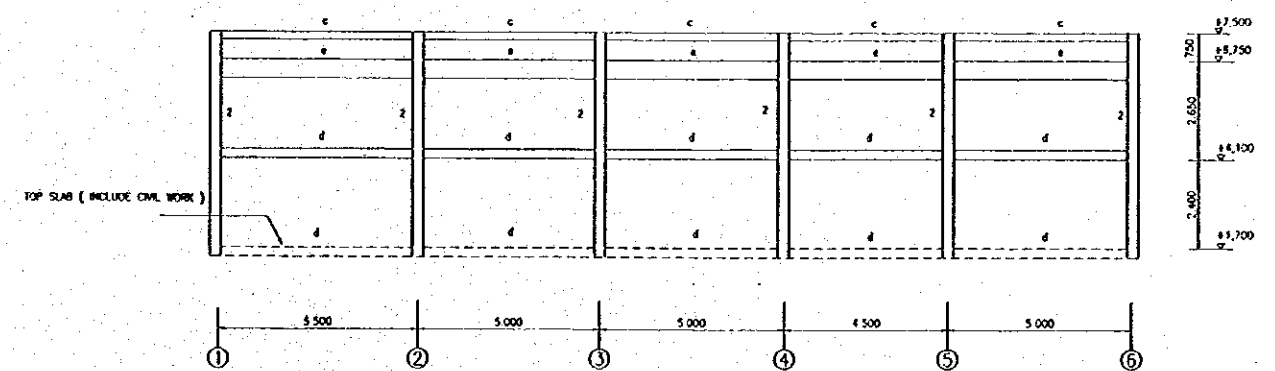
FRAMING LINE 6  
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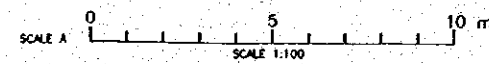
FRAMING A  
SCALE A



FRAMING B  
SCALE A



FRAMING C  
SCALE A



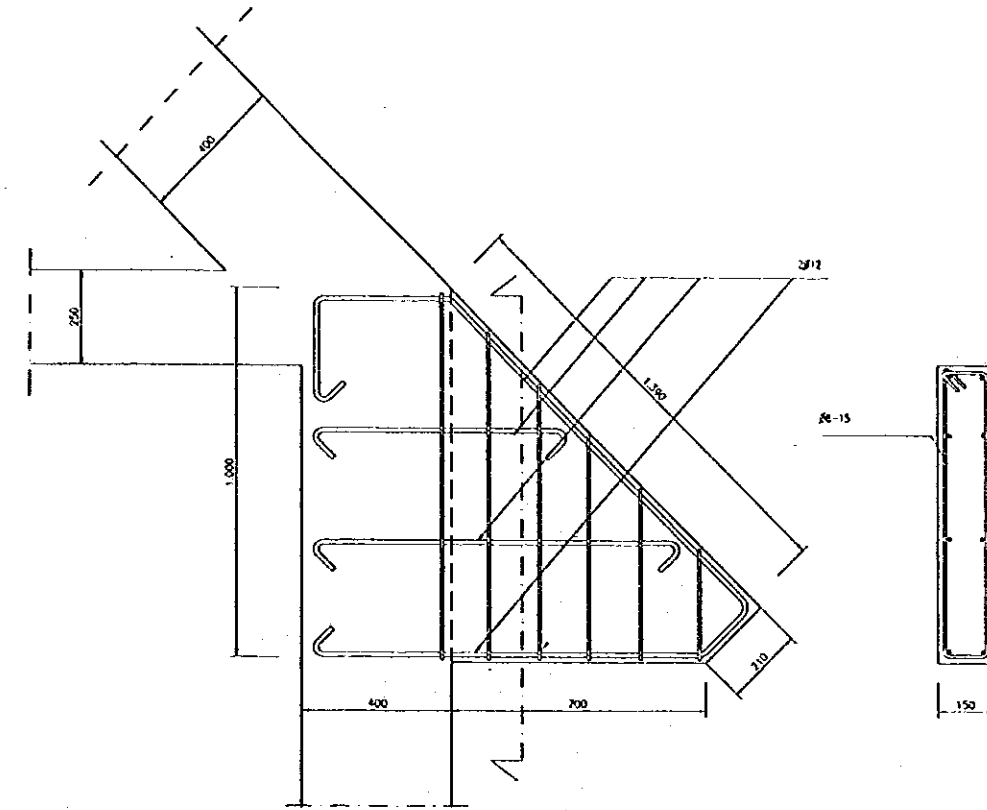
| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT   |                      | PROVINCE<br>CENTRAL JAWA   |
| IRATUNSELUMA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>COLUMN, TIE BEAM AND FRAMING ELEVATION</b><br><b>PUMP CONTROL BUILDING</b> |                      | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>IRATUNSELUMA OF THE REPUBLIC OF INDONESIA |
| IAPM INTERNATIONAL COOPERATION AGENCY<br>CIE ENGINEERING CONSULTANTS OPERATIONAL AND<br>PARTNER CONSULTANTS OPERATIONAL AND<br>JALINDO INTERNATIONAL INC.   |                      | DISTRICT<br>SEMARANG CITY  |
| DESIGNED<br>CHECKED<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  | DATE<br>CONTRACT NO. | DRAWING NO. C2-190-11-P2-P-06-16<br>SHEET NO. 135  |



| SECTION OF BEAM REINFORCEMENT |             |         |             |        |             |        |             |       |             |         |             |         |             |        |
|-------------------------------|-------------|---------|-------------|--------|-------------|--------|-------------|-------|-------------|---------|-------------|---------|-------------|--------|
| ARRANGEMENT                   | BEAM TYPE ① |         | BEAM TYPE ② |        | BEAM TYPE ③ |        | BEAM TYPE ④ |       | BEAM TYPE ⑤ |         | BEAM TYPE ⑥ |         | BEAM TYPE ⑦ |        |
|                               | WD SPAN     | EDGE    | WD SPAN     | EDGE   | WD SPAN     | EDGE   | WD SPAN     | EDGE  | WD SPAN     | EDGE    | WD SPAN     | EDGE    | WD SPAN     | EDGE   |
| TOP                           | 2018        | 2018    | 4D18        | 4D18   | 2018        | 2018   | 2015        | 2016  | 6018        | 6018    | 3018        | 3018    | 2018        | 2018   |
| MIDDLE                        | —           | —       | 2#12        | 2#12   | —           | —      | —           | —     | 2018        | 2#12    | 2#12        | 2#12    | 2#12        | 2#12   |
| BOTTOM                        | 2018        | 2018    | 4D18        | 4D18   | 2018        | 2018   | 2018        | 2018  | 4D18        | 4D18    | 3018        | 3018    | 2018        | 2018   |
| STIRRUP                       | #12-250     | #12-250 | #8-200      | #8-150 | #8-200      | #8-150 | #8-90       | #8-90 | #10-300     | #10-300 | #10-250     | #10-250 | #8-200      | #8-150 |

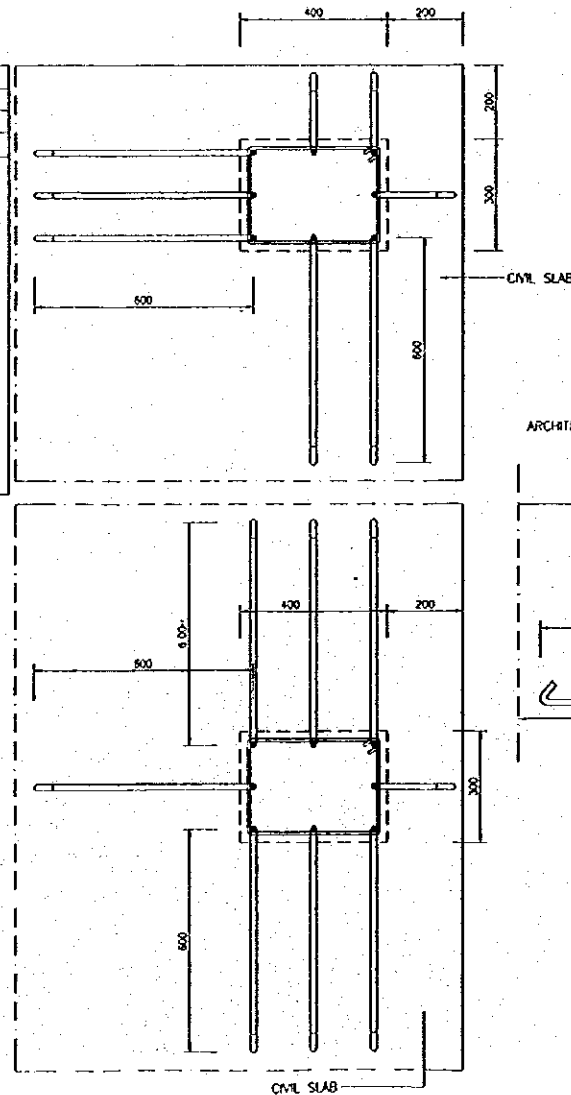
SECTION BEAM REINFORCEMENT  
SCALE A



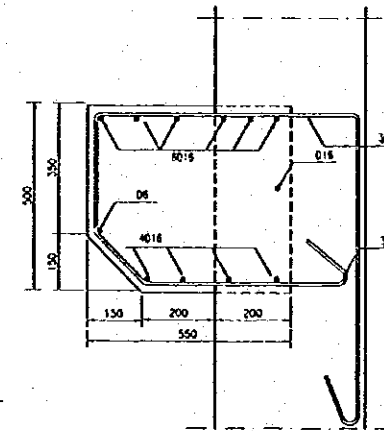
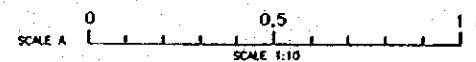
DETAIL OVERHANG REINFORCEMENT  
SCALE A

| TYPICAL COLUMN REINFORCEMENT |               |               |
|------------------------------|---------------|---------------|
| ARRANGEMENT                  | COLUMN TYPE ① | COLUMN TYPE ② |
|                              | 8018          | 8018          |
| STIRRUP                      | #8-150        | #8-150        |

SECTION OF COLUMN REINFORCEMENT  
SCALE A



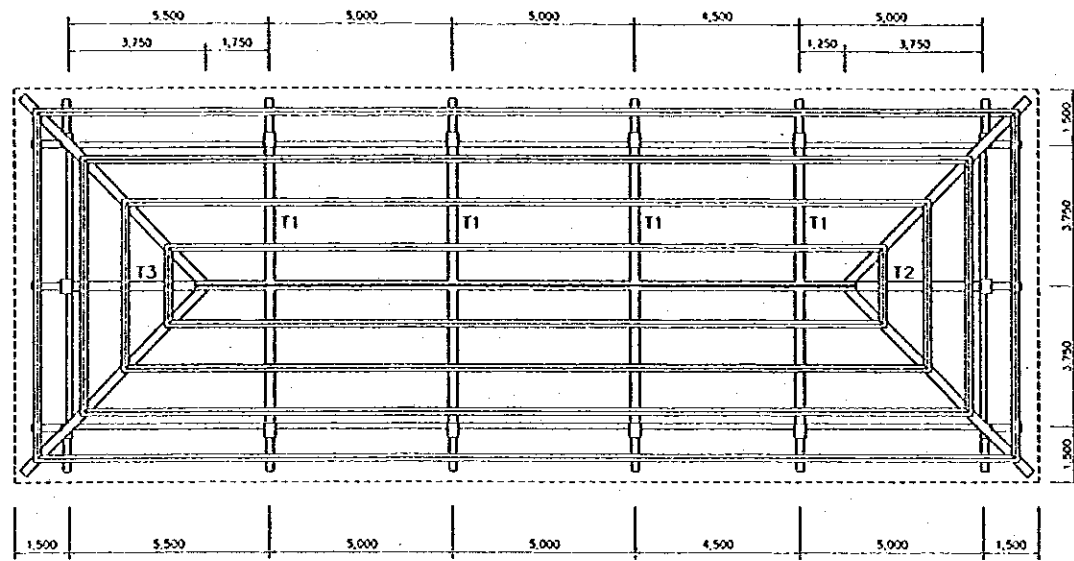
DETAIL CONNECTION  
SCALE A



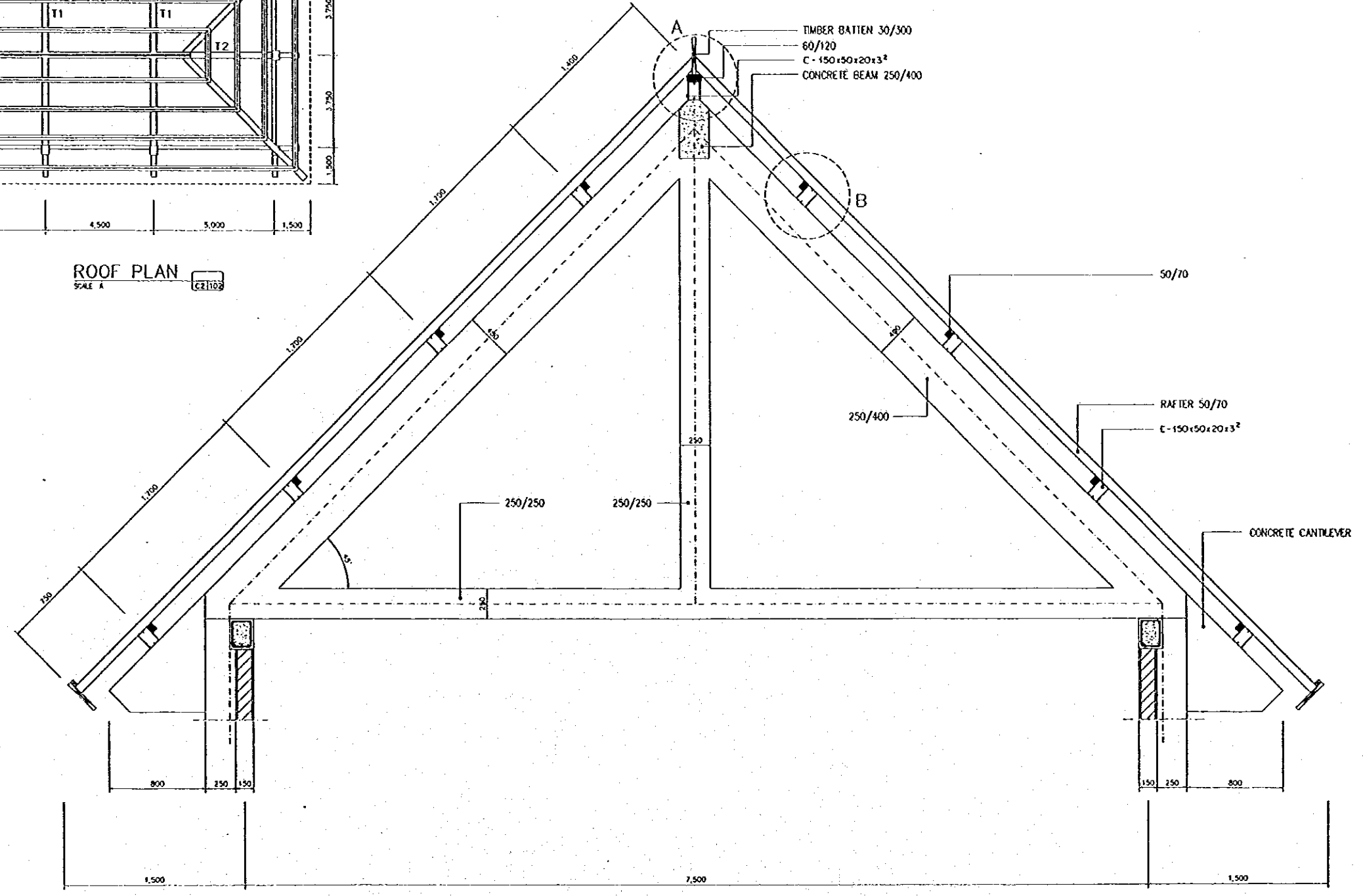
DETAIL BEAM REINFORCEMENT  
SCALE A

| NO. | DATE | REVISIONS | ORIGINATOR | DESIGNER | APPROVER |
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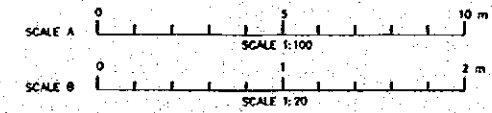
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT   |  | PROVINCE<br>CENTRAL JAVA  |
| <b>JRATUNSELUMA FLOOD CONTROL PROJECT</b><br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIH PUMPING STATION COMPLEX</b><br><b>SECTION &amp; DETAIL OF COLUMN AND BEAM</b><br><b>PUMP CONTROL BUILDING</b> |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>REGIONS OF THE REPUBLIC OF INDONESIA |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>CITY ENGINEERING OFFICE IN COOPERATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL, INC.<br>PACIFIC INTERNATIONAL, INC.   |  | DISTRICT<br>SEMARANG CITY   |
| DESIGNED: <i>[Signature]</i><br>CHECKED: <i>[Signature]</i><br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  | DRAWING NO. CE-101/U-P2-P-BB-17<br>SHEET NO. 136<br>DATE CONTRACT NO.   |



ROOF PLAN  
SCALE A

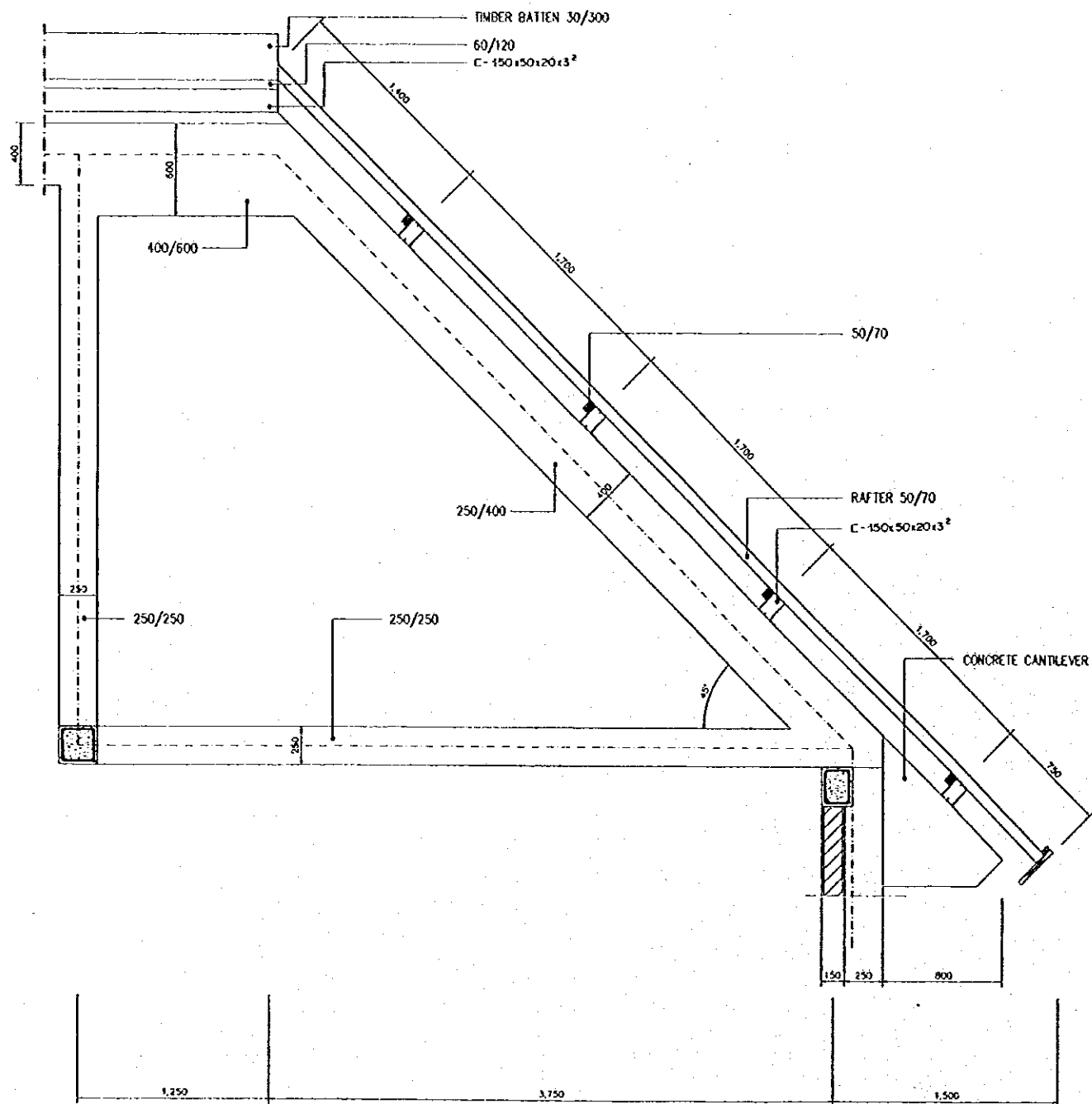


TRUSS TYPE T1  
SCALE B

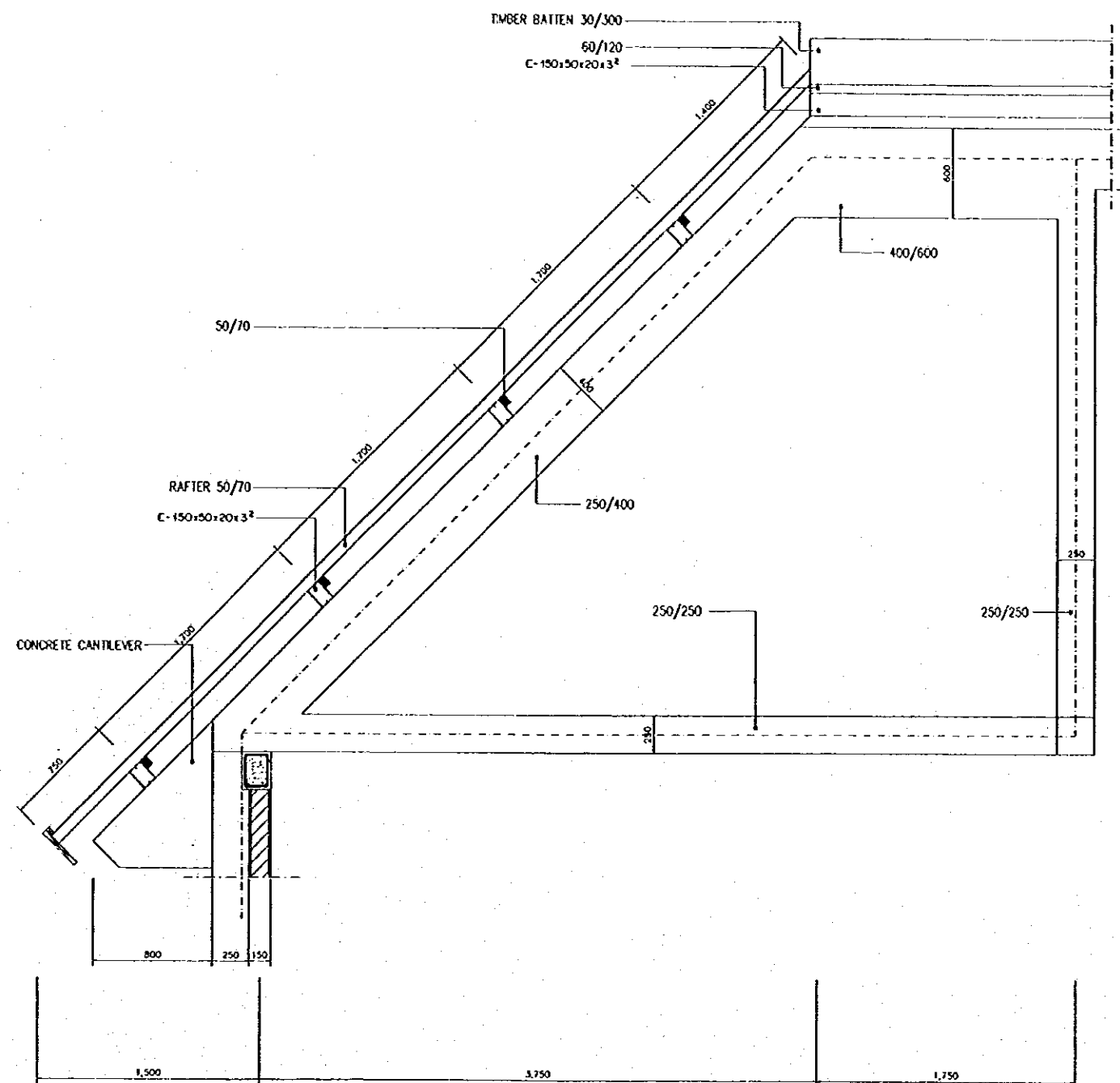


| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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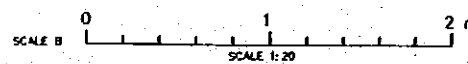
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT             |  | PROVINCE<br>CENTRAL JAVA  |
| JATUNGSILANA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br>ASIN PUMPING STATION COMPLEX<br>ROOF STRUCTURE PLAN & TYPICAL<br>PUMP CONTROL BUILDING |  | PROJECT NAME<br>FLOOD CONTROL URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG OF THE REPUBLIC OF INDONESIA |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>OCE ENGINEERING CO., LTD IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL A/S<br>PACIFIC INTERNATIONAL INC.                 |  | DISTRICT<br>SEMARANG CITY   |
| DESIGNED<br>CHECKED<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  | DRAWING NO. G2-100/U-P2-P-De-10<br>SHEET NO. 137<br>DATE<br>CONTRACT NO.  |



TRUSS TYPE T2  
SCALE 1/20

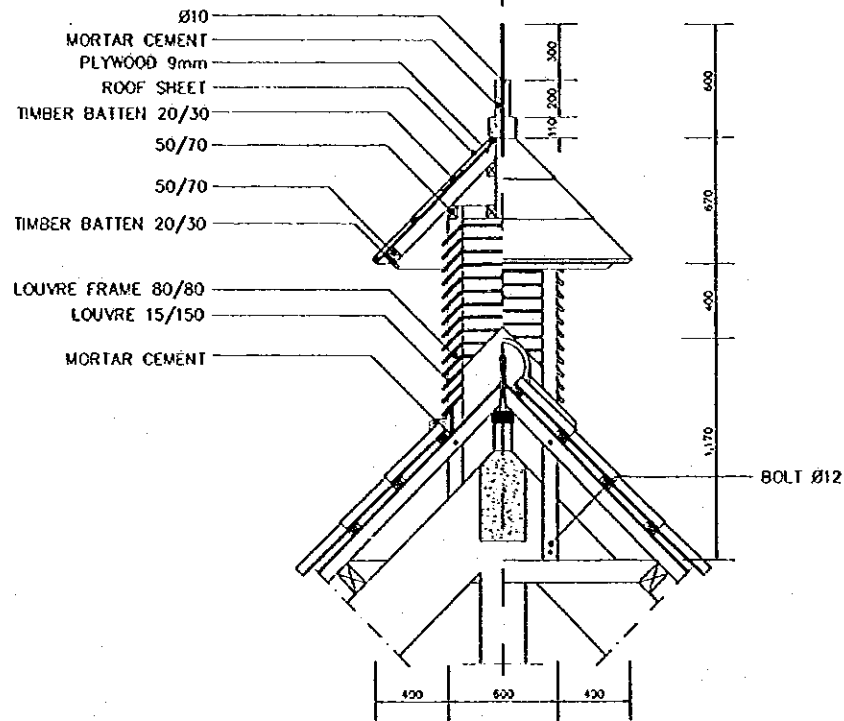


TRUSS TYPE T3  
SCALE 1/20

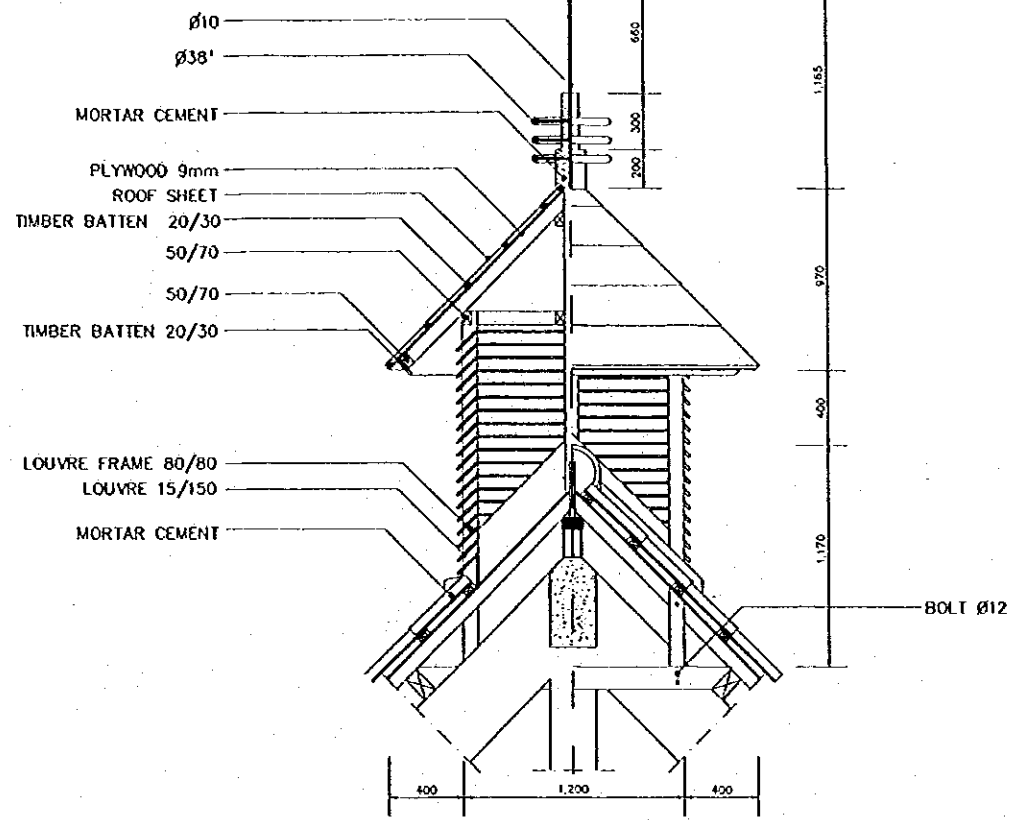


| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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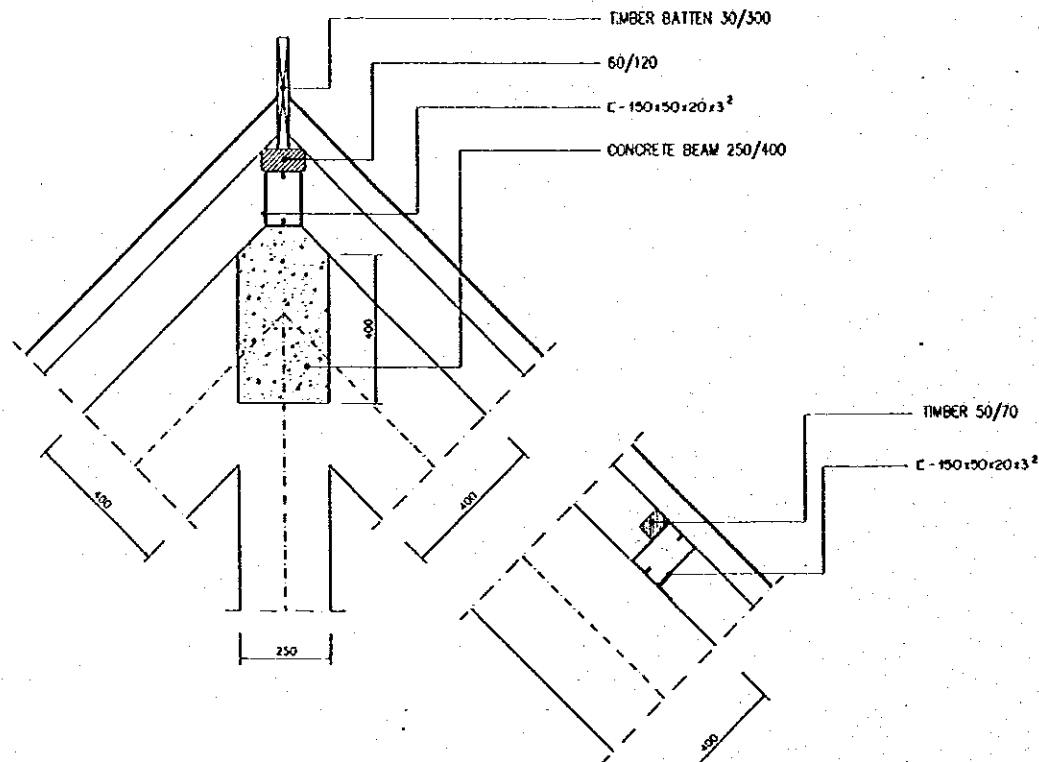
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENTS                      |  | PROVINCE<br>CENTRAL JAWA   |
| IRATUMSELUNA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>TYPICAL ROOF TRUSS</b><br><b>PUMP CONTROL BUILDING</b> |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG IN THE REPUBLIC OF INDONESIA |
| 10/AN INTERNATIONAL CONSULTING AGENCY<br>CIVIL ENGINEERING OF ASIN IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PAKO INTERNATIONAL INC.                              |  | DISTRICT<br>SEMARANG CITY  |
| DESIGNED<br>CHECKED<br>APPROVED<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  | DRAWING NO: 103 U-P2-P-Ba-10<br>SHEET NO. 138<br>DATE<br>CONTRACT NO.  |



DETAIL R1  
SCALE C

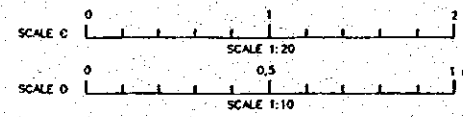


DETAIL R2  
SCALE C



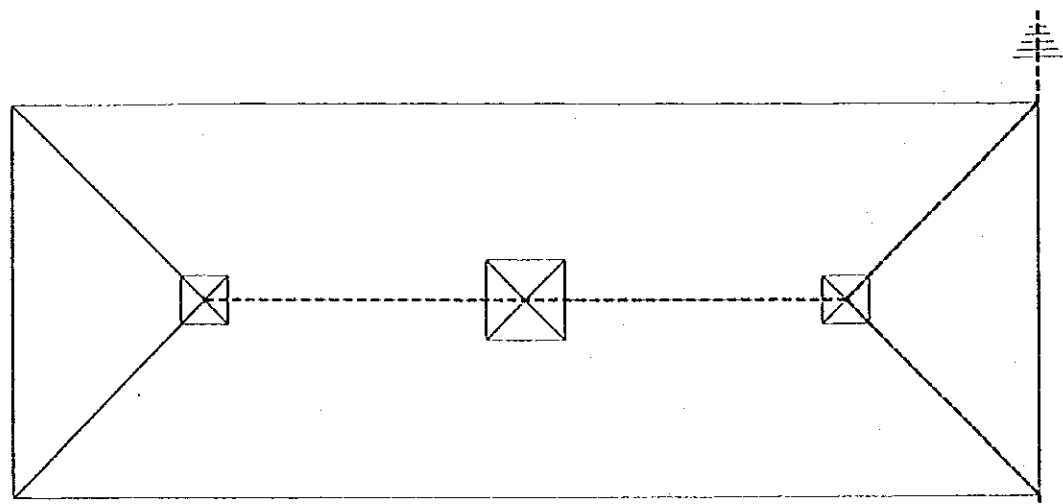
DETAIL A  
SCALE D

DETAIL B  
SCALE D

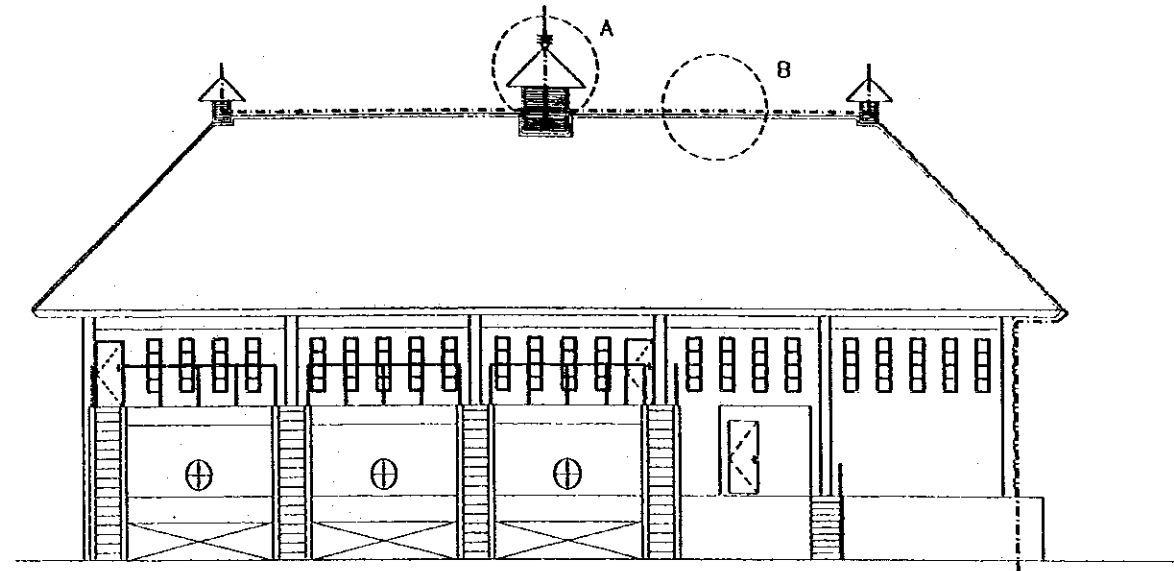


| NO. | DATE | REVISIONS | ORGANIZES | DESIGNED | APPROVED |
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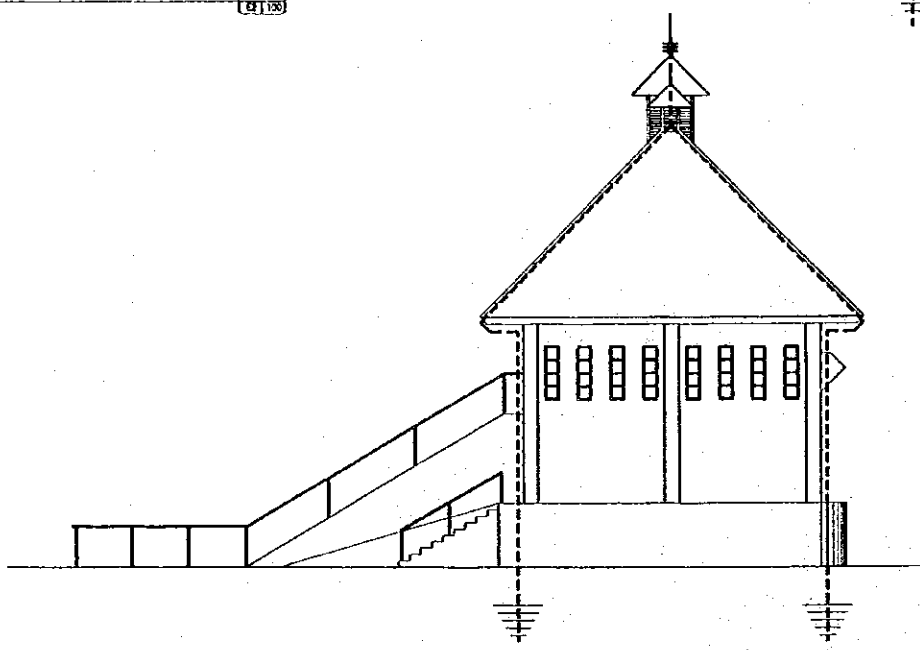
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT                           |              | PROVINCE<br>CENTRAL JAYA   |
| IRATUNSELUMA FLOOD CONTROL PROJECT<br>COMPONENT 1: URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>DETAIL ROOF STRUCTURE</b><br><b>PUMP CONTROL BUILDING</b> |              | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT AT<br>SEMARANG IN THE REPUBLIC OF INDONESIA |
| PT. INTERNATIONAL CONSULTING AGENCY<br>CIVIL ENGINEERING OFFICE IN AMSTERDAM, THE<br>NETHERLANDS<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PARTNER INTERNATIONAL INC.                     |              | DISTRICT<br>SEMARANG CITY  |
| DESIGNED<br><i>[Signature]</i><br>CHECKED<br><i>[Signature]</i>   | DATE<br>1999 | DRAWING NO. C2-104 U-PE-F-80-80<br>SHEET NO. 139<br>CONTRACT NO.   |
| APPROVED<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER   |              |  |



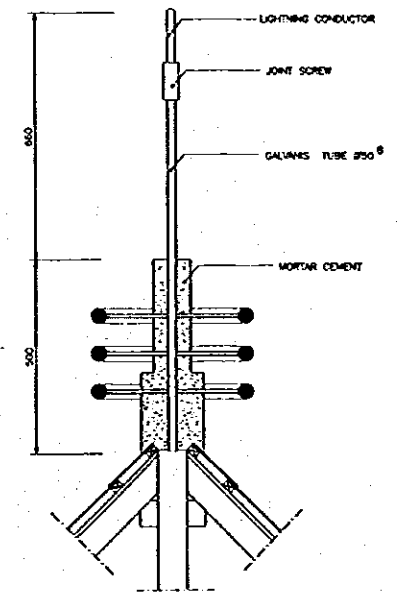
LIGHTNING CONDUCTOR DIAGRAM  
SCALE A



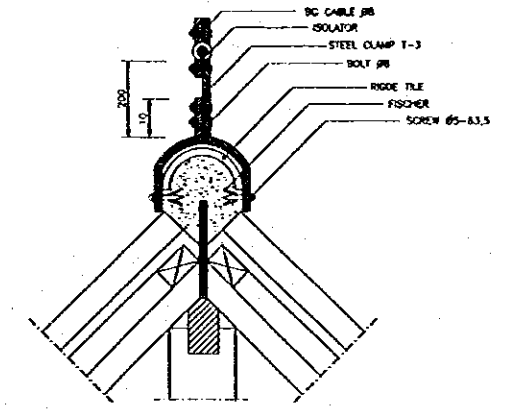
SOUTH ELEVATION  
SCALE A



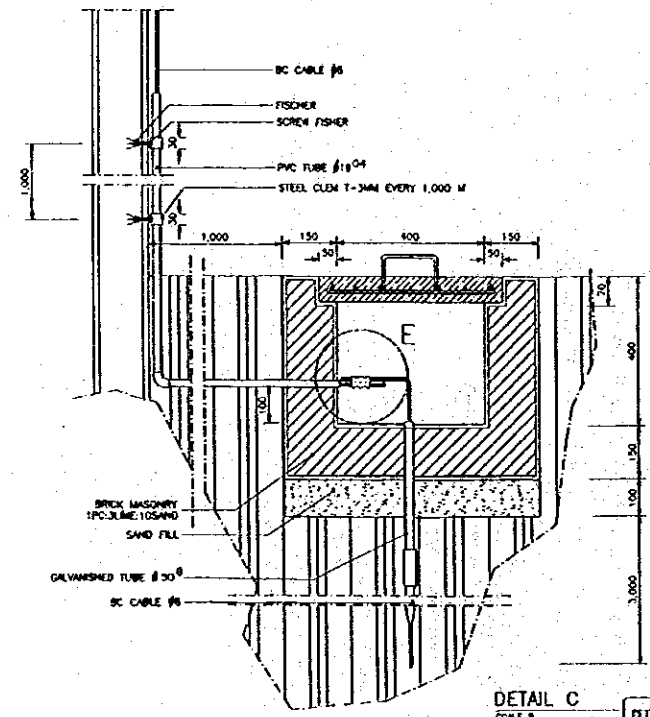
EAST ELEVATION  
SCALE A



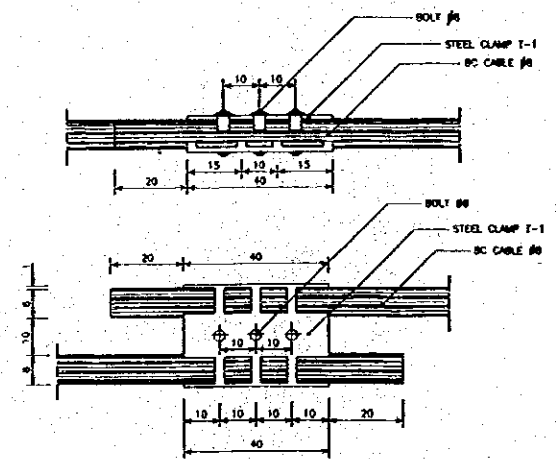
DETAIL A  
SCALE B



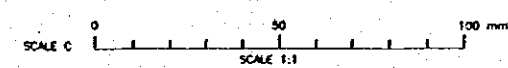
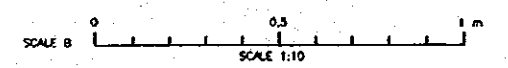
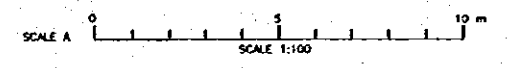
DETAIL B  
SCALE B



DETAIL C  
SCALE B



DETAIL E  
SCALE C

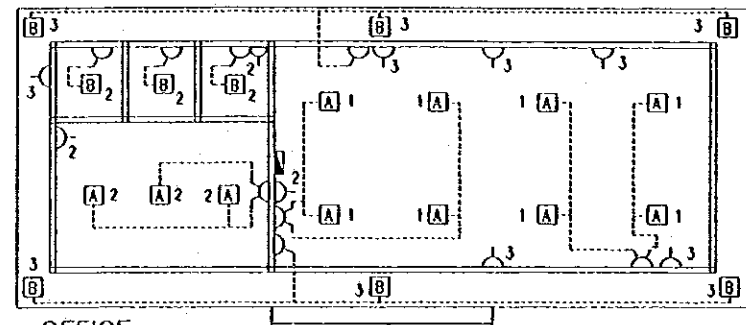


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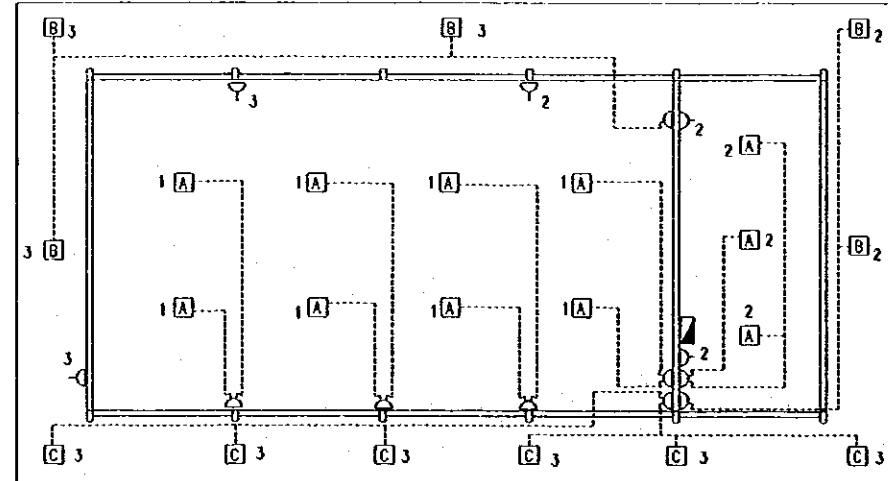
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT  |  | PROVINCE<br>CENTRAL JAVA   |
| IRATUNSELUMA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>LIGHTNING CONDUCTOR PLAN &amp; DETAIL</b><br><b>PUMP CONTROL BUILDING</b> |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>RURAL INFRASTRUCTURE DEVELOPMENT IN<br>SEMARANG IN THE REPUBLIC OF INDONESIA<br>DISTRICT<br>SEMARANG CITY<br>DRAWING NO. E2-100 U-PS-P-00-21<br>SHEET NO.<br><b>140</b> |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>CTS ENGINEERING CONSULTING IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PARKS INTERNATIONAL INC.  | DESIGNED<br>CHECKED<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER | DATE<br>CONTRACT NO.   |

LIGHTING PLAN

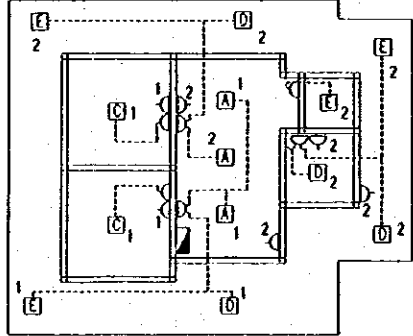
SCALE A



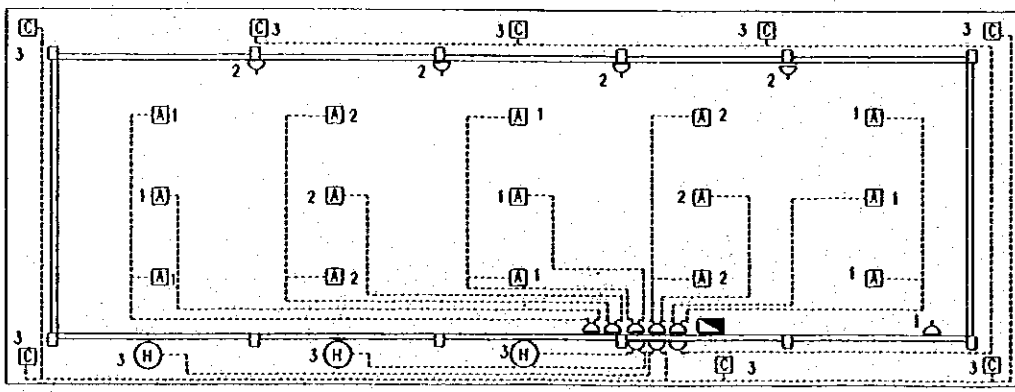
OFFICE



GARAGE



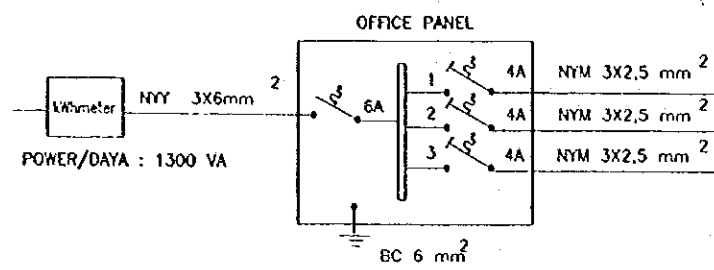
STAFF HOUSE



PUMPING HOUSE

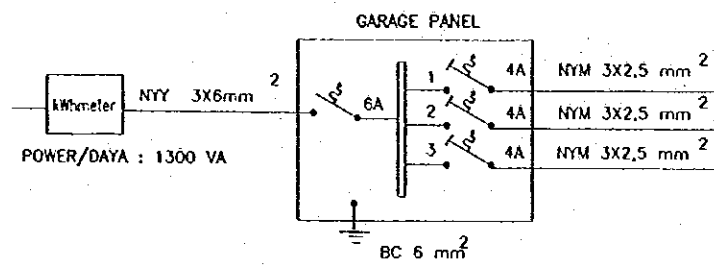
ONE LINE ELECTRICAL DIAGRAM

NIS



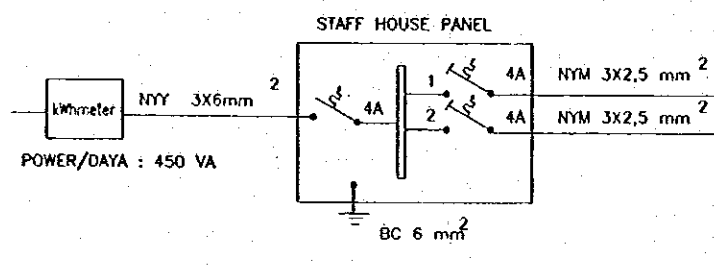
POWER/DAYA : 1300 VA

| A     | B     | C     | D     | E     | H         | Socket | V A  |
|-------|-------|-------|-------|-------|-----------|--------|------|
| 2X40W | 1X20W | 1X40W | 1X15W | 1X10W | SPOT-250W | 100W   |      |
| 8     | -     | -     | -     | -     | -         | -      | 640  |
| 3     | 3     | -     | -     | -     | -         | 3      | 600  |
| -     | 6     | -     | -     | -     | -         | 6      | 720  |
| 11    | 9     | -     | -     | -     | -         | 9      | 1960 |



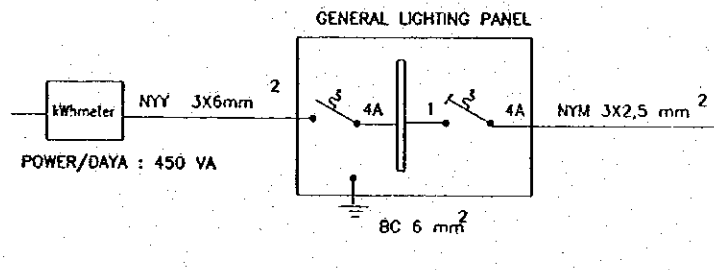
POWER/DAYA : 1300 VA

| A     | B     | C     | D     | E     | H         | Socket | V A  |
|-------|-------|-------|-------|-------|-----------|--------|------|
| 2X40W | 1X20W | 1X40W | 1X15W | 1X10W | SPOT-250W | 100W   |      |
| 8     | -     | -     | -     | -     | -         | -      | 640  |
| 3     | 2     | -     | -     | -     | -         | 3      | 580  |
| -     | 3     | 6     | -     | -     | -         | 2      | 500  |
| 11    | 5     | 6     | -     | -     | -         | 5      | 1720 |



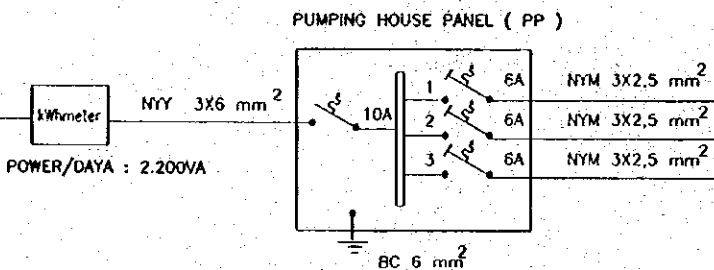
POWER/DAYA : 450 VA

| A     | B     | C     | D     | E     | H         | Socket | V A |
|-------|-------|-------|-------|-------|-----------|--------|-----|
| 2X40W | 1X20W | 1X40W | 1X15W | 1X10W | SPOT-250W | 100W   |     |
| 2     | -     | 2     | 1     | 1     | -         | 2      | 425 |
| 1     | -     | -     | 2     | 2     | -         | 4      | 490 |
| 3     | -     | 2     | 3     | 3     | -         | 6      | 915 |



POWER/DAYA : 450 VA

| A     | B     | C     | D     | E     | H         | Socket | V A  |
|-------|-------|-------|-------|-------|-----------|--------|------|
| 2X40W | 1X20W | 1X40W | 1X15W | 1X10W | SPOT-250W | 100W   |      |
| 13    | -     | -     | -     | -     | -         | -      | 1040 |
| 13    | -     | -     | -     | -     | -         | -      | 1040 |



POWER/DAYA : 2.200VA

| A     | B     | C     | D     | E     | H         | Socket | V A  |
|-------|-------|-------|-------|-------|-----------|--------|------|
| 2X40W | 1X20W | 1X40W | 1X15W | 1X10W | SPOT-250W | 100W   |      |
| 9     | -     | -     | -     | -     | -         | 1      | 820  |
| 6     | -     | -     | -     | -     | -         | 4      | 880  |
| -     | -     | 8     | -     | -     | 3         | -      | 1020 |
| 15    | -     | 8     | -     | -     | 3         | 5      | 2720 |

SCALE A SCALE 1:100

- NOTE :
- A FL 2 X 40W
  - B FL 1 X 20W
  - C FL 1 X 40W
  - D FL 1 X 15W
  - E FL 1 X 10W
  - H HALOGEN 1 X 250W
  - Socket OUTLET 1 X 100W

| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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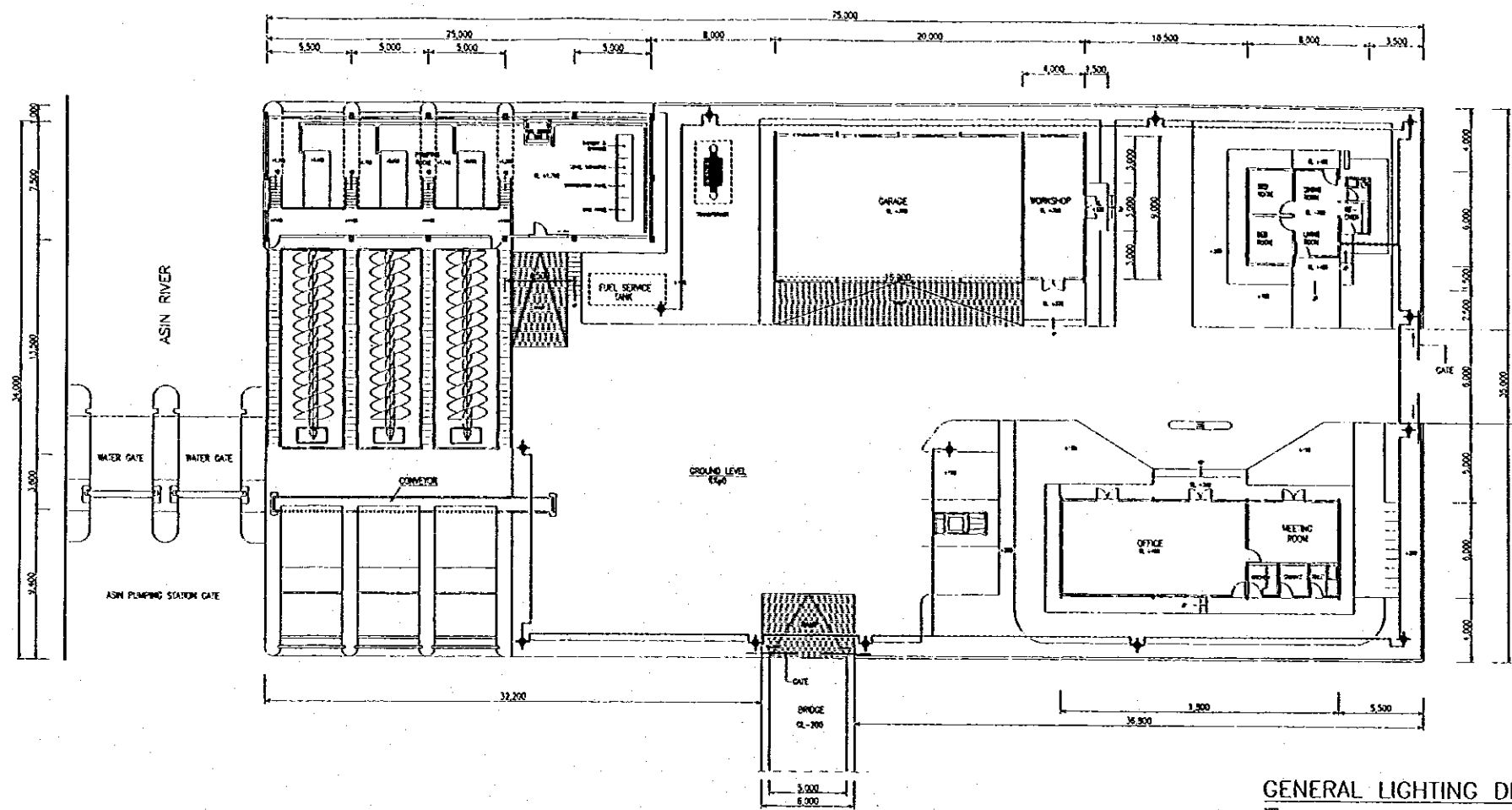
THE REPUBLIC OF INDONESIA  
 MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

IRATUNSELUMA FLOOD CONTROL PROJECT  
 COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT  
**ASIN PUMPING STATION COMPLEX**  
**LIGHTING PLAN & ONE LINE ELECTRICAL DIAGRAM**

JAPAN INTERNATIONAL COOPERATION AGENCY  
 CITY ENGINEERING COLLEGE IN ASSOCIATION WITH  
 PACIFIC CONSULTANTS INTERNATIONAL, JPB  
 PACIFIC INTERNATIONAL, INC.

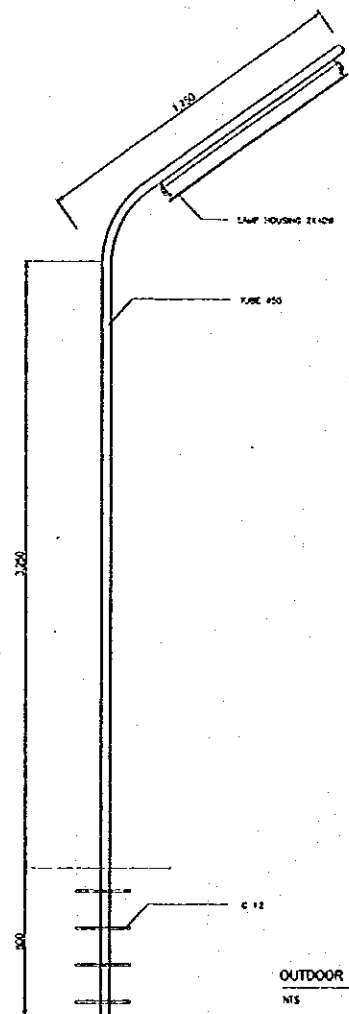
DESIGNED: *[Signature]*  
 CHECKED: *[Signature]*  
 CHIEF OF PLANNING AND DESIGN  
 PROJECT MANAGER

PROVINCE: CENTRAL JAYA  
 PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG OF THE REPUBLIC OF INDONESIA  
 DISTRICT: SEMARANG CITY  
 DRAWING NO. E2-101 U-P2-P-002  
 SHEET NO. 141  
 DATE: *[Date]*  
 CONTRACT NO. *[Contract No.]*



GENERAL LIGHTING DIAGRAM

E2 102



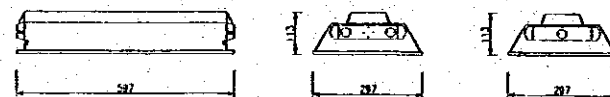
OUTDOOR FREESTANDING LAMP

E2 102



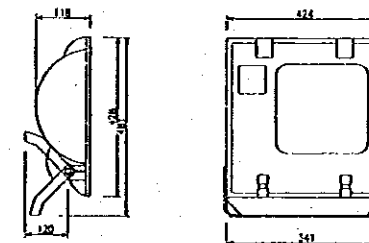
2X40W & 1X40W LAMP HOUSING

E2 102



2X20W & 1X20W LAMP HOUSING

E2 102



HALOGEN 250 W LAMP HOUSING

E2 102

LAMP HOUSING DETAIL

E2 102

| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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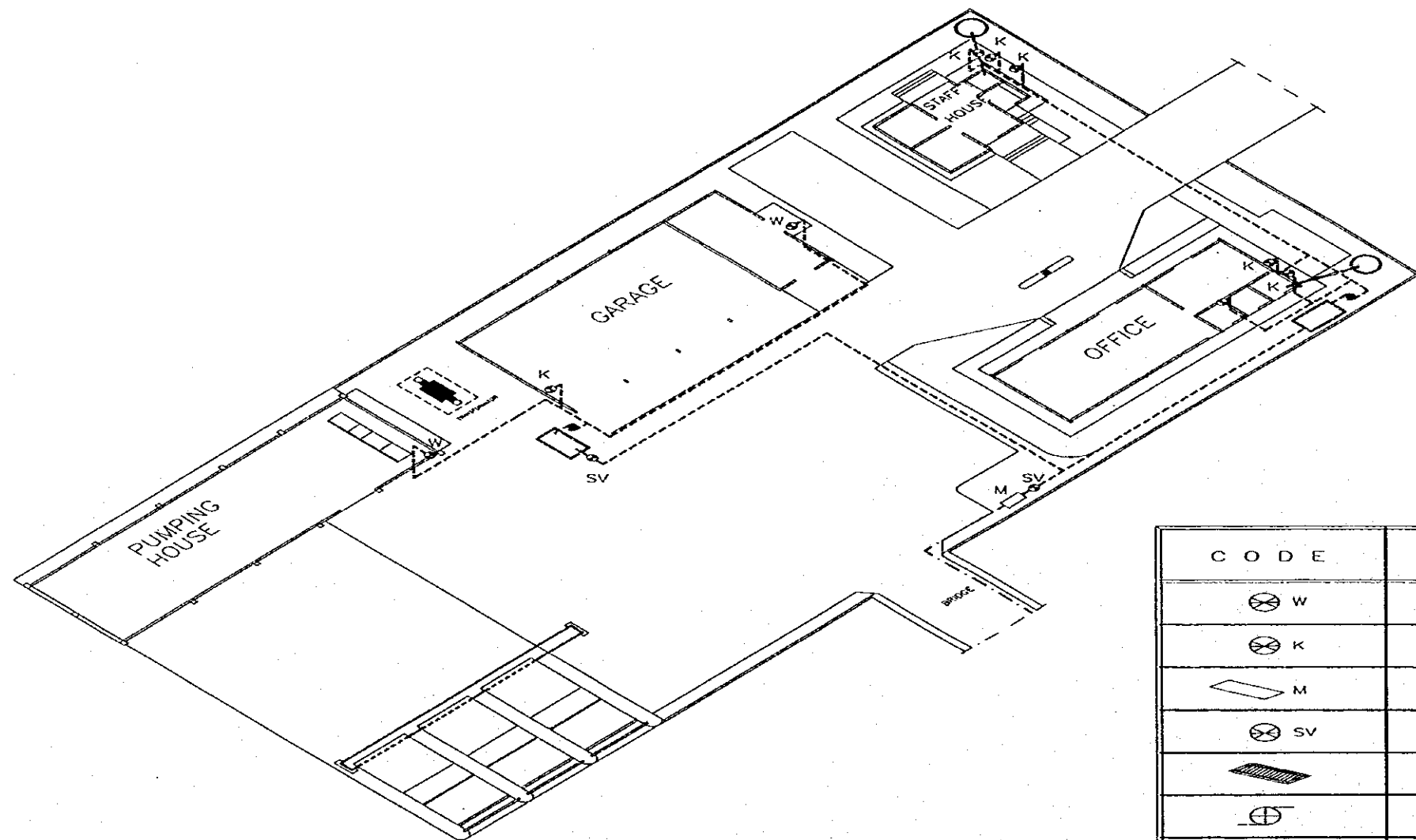
THE REPUBLIC OF INDONESIA  
 MINISTRY OF PUBLIC WORKS  
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT  
 AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

PROVINCE: CENTRAL JAVA  
 PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG OF THE REPUBLIC OF INDONESIA  
 DISTRICT: SEMARANG CITY  
 DRAWING NO. E2-102 U-P2-P-80-23  
 SHEET NO. 142  
 DATE:      CONTRACT NO.:

JRATUNSELUMA FLOOD CONTROL PROJECT  
 COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT  
**ASIN PUMPING STATION COMPLEX**  
**GENERAL LIGHTING PLAN AND DETAIL**

JICA INTERNATIONAL COOPERATION AGENCY  
 CITY ENGINEERING CONSULTANTS ASSOCIATION INC.  
 PACIFIC CONSULTANTS INTERNATIONAL, INC.  
 JAPAN INTERNATIONAL COOPERATION AGENCY

DESIGNED: *[Signature]*  
 CHECKED: *[Signature]*  
 CHIEF OF PLANNING AND DESIGN  
 PROJECT MANAGER



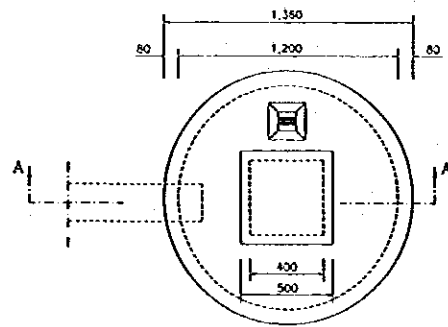
ISOMETRIC WATER SUPPLY DIAGRAM P2 | 100

| CODE | NOTE                      |
|------|---------------------------|
| ⊗ W  | WASH BASIN                |
| ⊗ K  | FAUCET                    |
| ◇ M  | WATER METER               |
| ⊗ SV | STOP VALVE                |
| ▨    | GROUND RESERVOIR          |
| ⊕    | WATER PUMP                |
| ---  | PVC PIPE PDAM             |
| ---  | PVC PIPE 19 <sup>05</sup> |
| ---  | PVC PIPE 12 <sup>7</sup>  |
| ---  | PVC PIPE 10 <sup>16</sup> |
| ○    | SEPTIC TANK               |

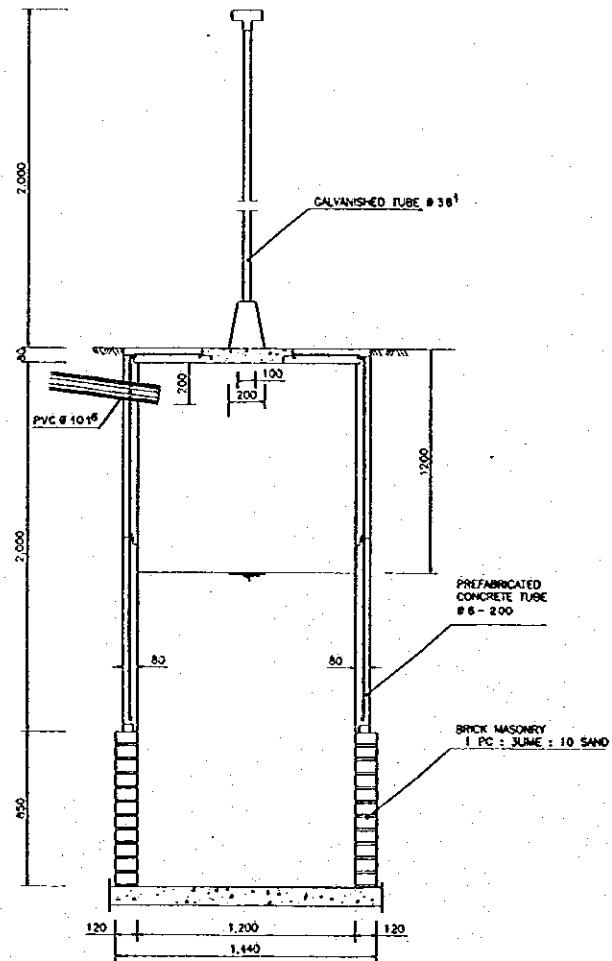
| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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|  | THE REPUBLIC OF INDONESIA<br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT          | PROVINCE<br>CENTRAL JAVA   |
|  | JRATUNSELUMA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>ISOMETRIC WATER SUPPLY DIAGRAM</b> | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT OF<br>SEMARANG IN THE REPUBLIC OF INDONESIA |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>CITY ENGINEERING CO. LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL AND<br>PASOS INTERNATIONAL INC. | DESIGNED<br><i>[Signature]</i><br>CHECKED<br><i>[Signature]</i>   | DISTRICT<br>SEMARANG CITY<br>DRAWING NO. P2-1004-P2-P-04-24<br>SHEET NO. 143   |
| APPROVED<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  | DATE<br><i>[Signature]</i>  | CONTRACT NO.   |





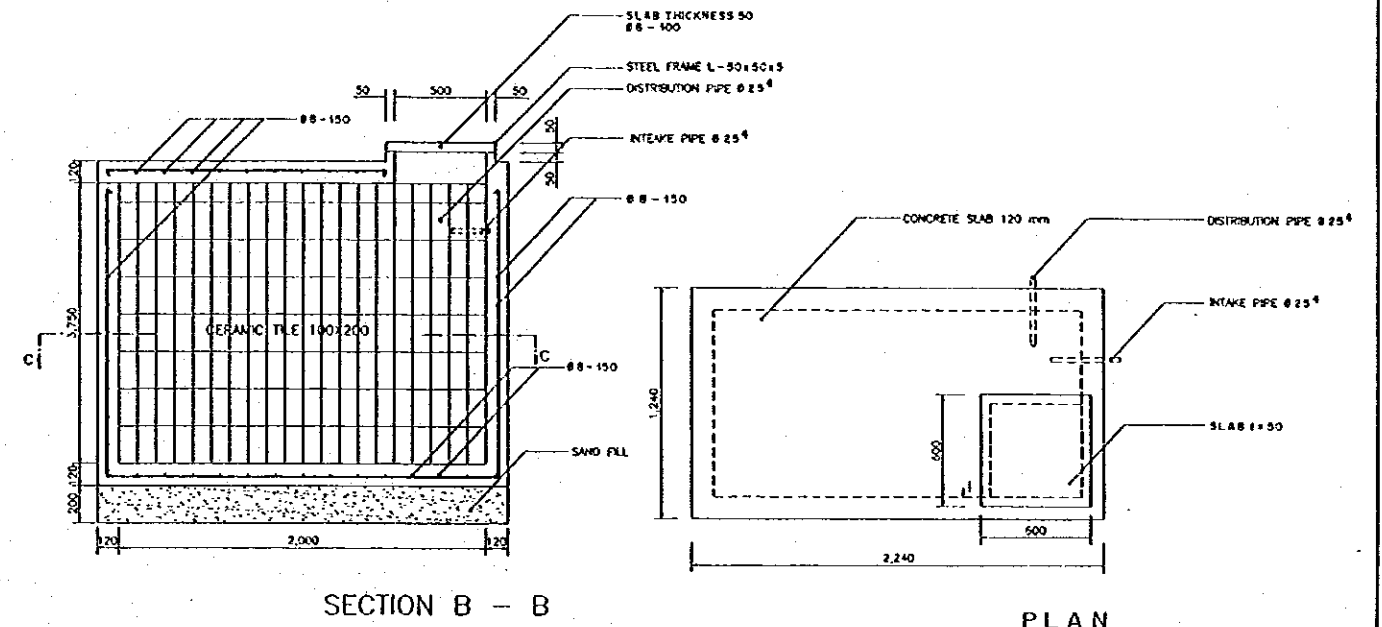
BEERPOT PLAN



SECTION A - A

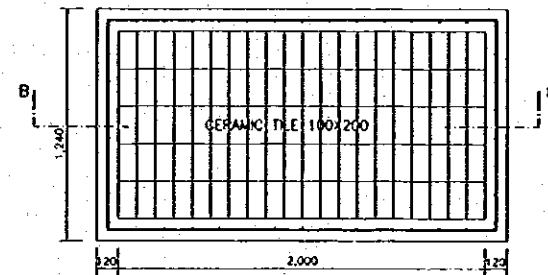
BEERPOT  
SCALE A

P2 101



SECTION B - B

PLAN

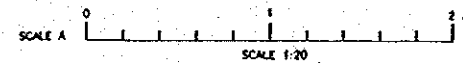


SECTION C - C

GROUND RESERVOIR

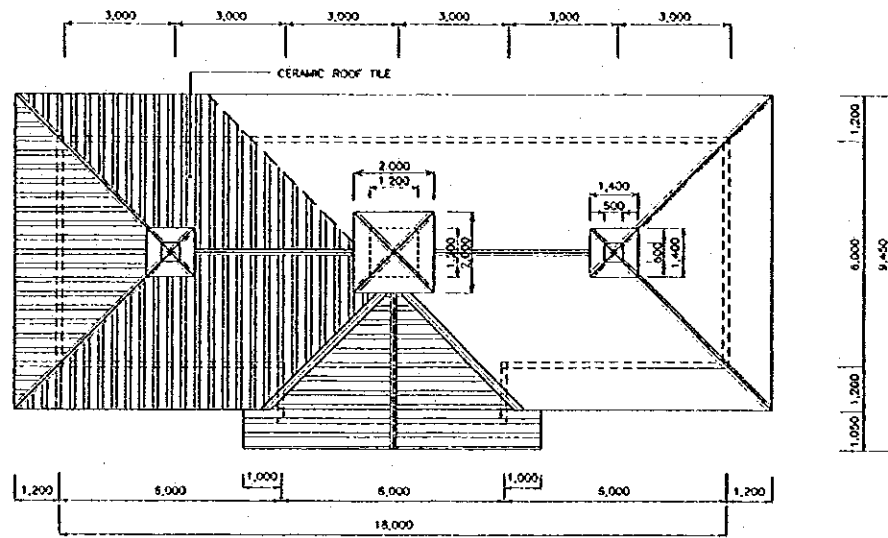
SCALE A

P2 101

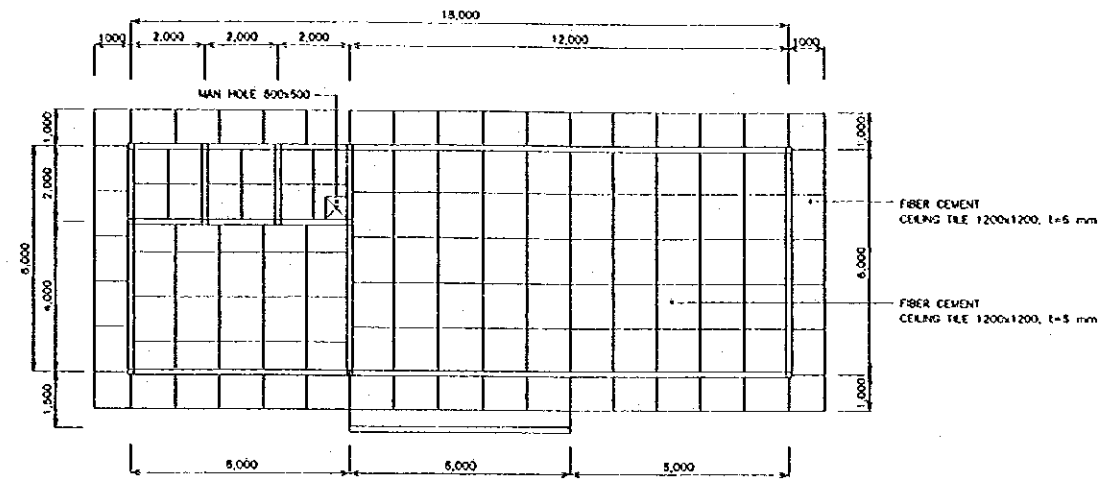


| NO. | DATE | REVISIONS | ORIGINATED | DESIGNED | APPROVED |
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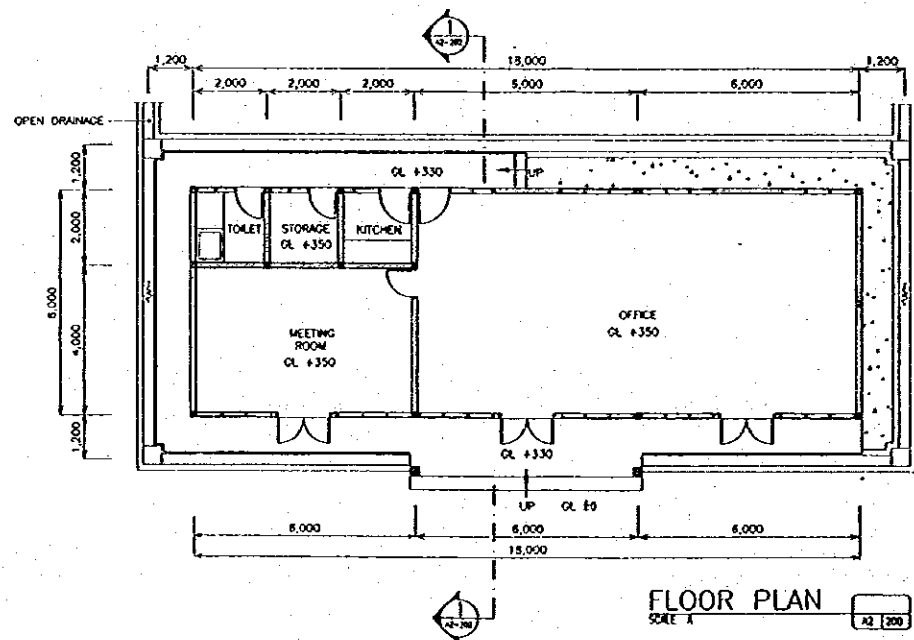
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT       |  | PROVINCE<br>CENTRAL JAVA  |
| JATUNGSBLUMA FLOOD CONTROL PROJECT<br>COMPONENT 1: URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX<br/>         BEERPOT &amp; GROUND RESERVOIR</b> |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCE DEVELOPMENT IN<br>SEMARANG BY THE REPUBLIC OF INDONESIA |
| INJIN INTERNASIONAL CONSULTING AGENCY<br>CIVIL ENGINEERING CO., LTD. IN ASSOCIATION WITH<br>PACIFIC CONSULTANTS INTERNATIONAL, INC.<br>PACIFIC INTERNATIONAL, INC.      |  | DISTRICT<br>SEMARANG CITY   |
| DESIGNED<br>CHECKED<br>DATE   |  | DRAWING NO. P2-101A-P2-P-04-25<br>SHEET NO. 144   |
| CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER   |  | CONTRACT NO.  |



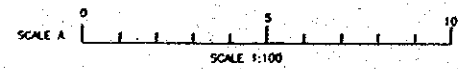
ROOF PLAN  
SCALE 1/200



REFLECTED CEILING PLAN  
SCALE 1/200

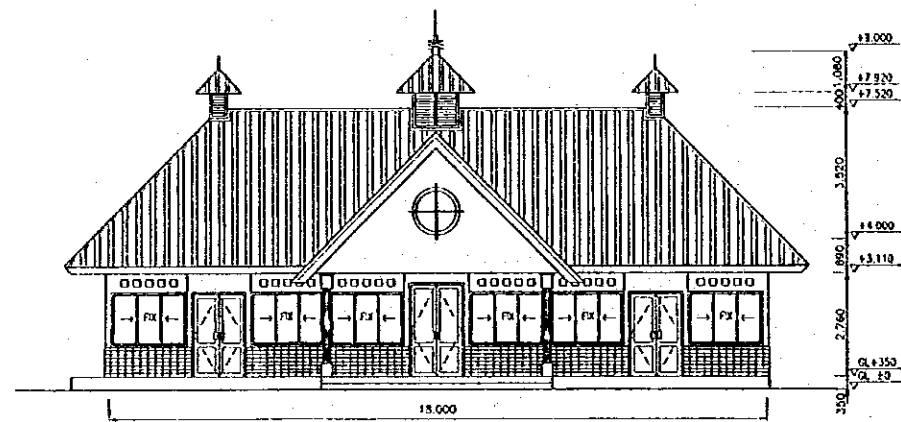


FLOOR PLAN  
SCALE 1/200

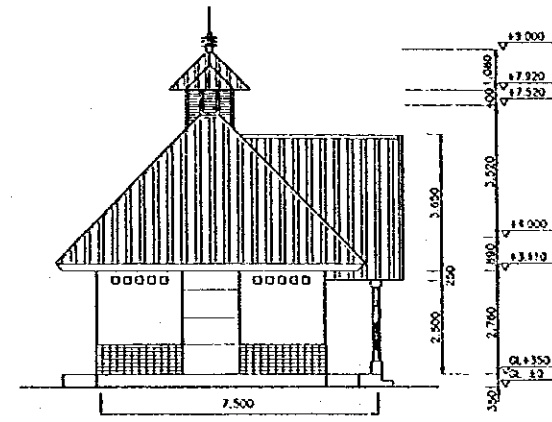


| NO. | DATE | REVISIONS | OPERATED | DESIGNED | APPROVED |
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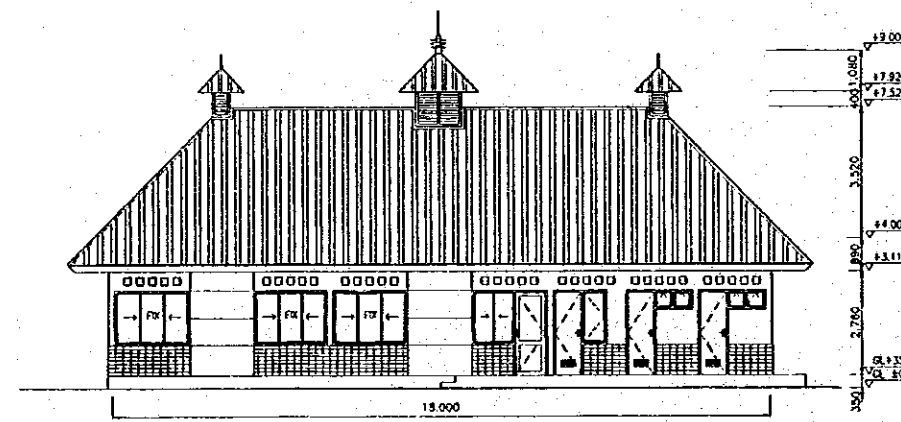
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT                                  |  | PROVINCE<br>CENTRAL JAVA   |
| WATUNUSULUNA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>FLOOR PLAN, ROOF PLAN &amp; CEILING PLAN</b><br>MANAGEMENT OFFICE |  | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT IN<br>SEMARANG BY THE REPUBLIC OF INDONESIA |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>CITY ENGINEERING CONSULTING AND ARCHITECTURE<br>PACIFIC CONSULTANTS INTERNATIONAL, INC.<br>PAKED INTERNATIONAL, INC.                                     |  | DISTRICT<br>SEMARANG CITY  |
| DESIGNED<br>CHECKED<br>APPROVED  |  | DRAWING NO. JG-200 (A)-P-F-04-24<br>SHEET NO.<br>145   |
| CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER  |  | DATE<br>CONTRACT NO.   |



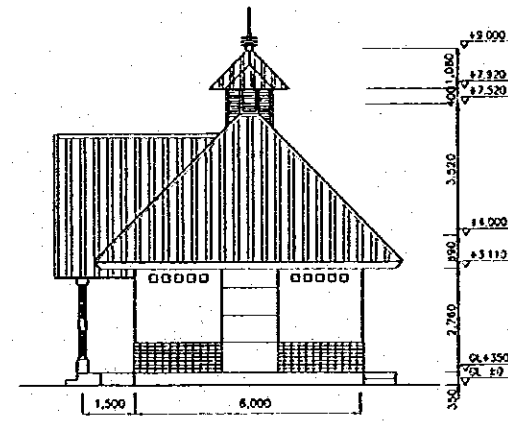
EAST ELEVATION  
SCALE A



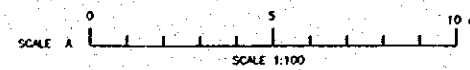
SOUTH ELEVATION  
SCALE A



WEST ELEVATION  
SCALE A



NORTH ELEVATION  
SCALE A



| NO. | DATE | REVISIONS | CREATED | DESIGNED | APPROVED |
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| <b>THE REPUBLIC OF INDONESIA</b><br>MINISTRY OF PUBLIC WORKS<br>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT<br>AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT          |   | PROVINCE<br>CENTRAL JAVA   |
| IRATUPSELUNA FLOOD CONTROL PROJECT<br>COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT<br><b>ASIN PUMPING STATION COMPLEX</b><br><b>ELEVATION</b><br><b>MANAGEMENT OFFICE</b> |   | PROJECT NAME<br>FLOOD CONTROL, URBAN DRAINAGE AND<br>WATER RESOURCES DEVELOPMENT OF<br>SEMARANG BY THE REPUBLIC OF INDONESIA |
| JAPAN INTERNATIONAL COOPERATION AGENCY<br>JICA ENGINEERING COLTD. 4F MARUNOUCHI BLDG<br>PACIFIC CONSULTANTS INDONESIA PT. LTD.<br>PAKSI INTERNATIONAL INC.                 |   | DISTRICT<br>SEMARANG CITY<br>DRAWING NO. A2-2611-P-2-P-04-07<br>SHEET NO. 146  |
| DESIGNED<br>CHECKED<br>DATE  | APPROVED<br>CHIEF OF PLANNING AND DESIGN<br>PROJECT MANAGER | CONTRACT NO.   |