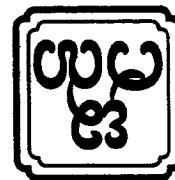


မြန်မာ ပြည်သူ့ အောက် အစွမ်း



အနုပည်၏ နှေ့နှေ့ ပို့ဆောင်  
နှေ့နှေ့လျှော့

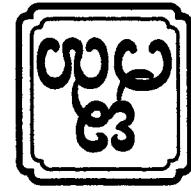
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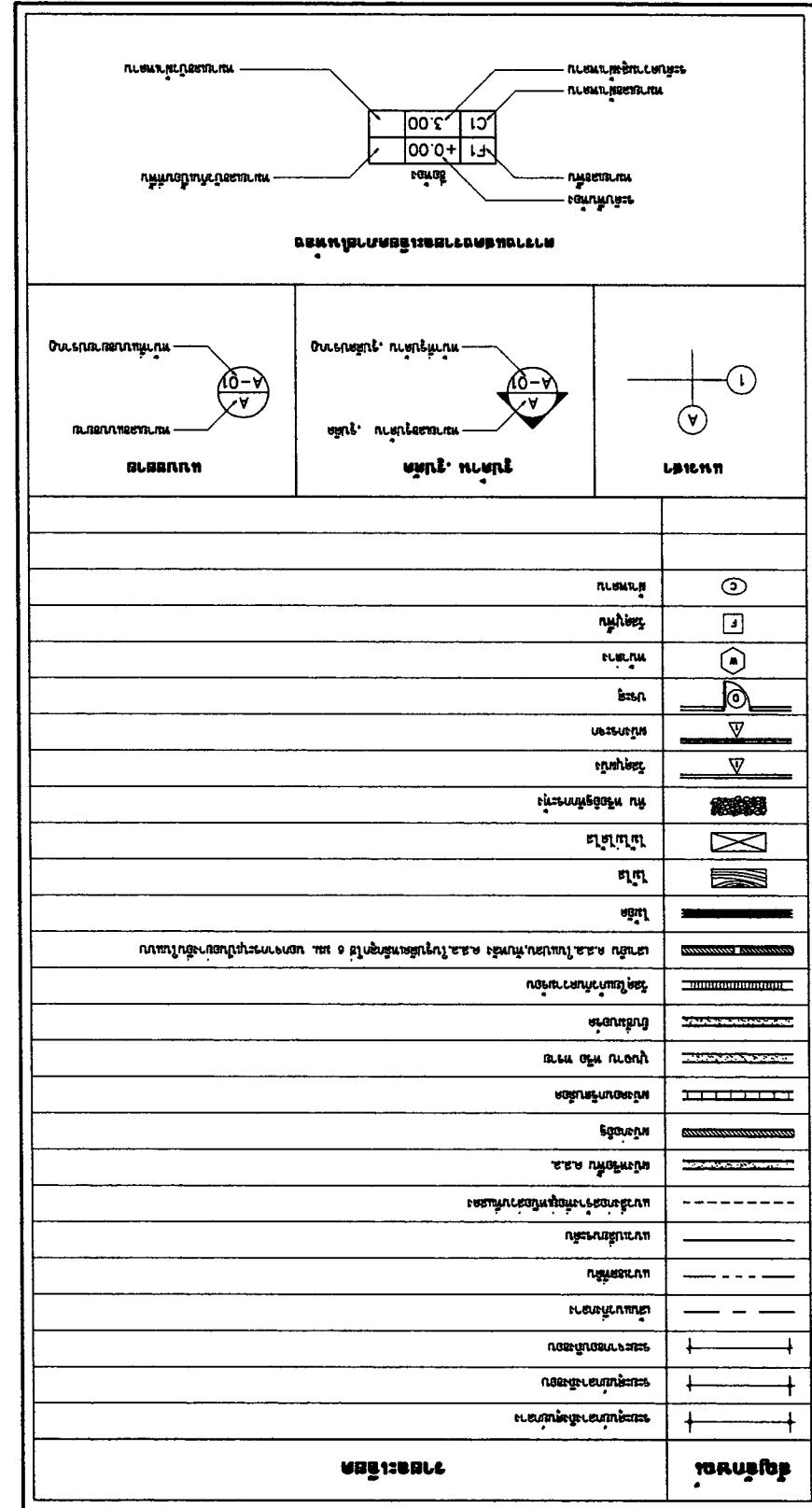
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လေဆိပ်ပေါ်

|         |                                 |                                 |                                 |                                 |  |                       |  |                       |              |
|---------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--|-----------------------|--|-----------------------|--------------|
| OWNER : | ARCHITECT                       | 51 नं 2 बिल्डिंग सेक्टर         | E-mail : asan0304@yahoo.com     | PROJECT :                       | 12 अप्रैल 1996 तक 11086<br>पर्सनल विभाग का नाम | LOCATION :            | 12 अप्रैल 1996 तक 11086<br>पर्सनल विभाग का नाम | SHEET NO              | TOTAL        |
|         |                                 |                                 |                                 |                                 |  |                       |  |                       |              |
|         | STRUCTURAL ENGINEER             | ELECTRICAL ENGINEER             | DATE                            | DESCRIPTION                     | NO   | 1                     | 2  | 3                     | 4            |
|         | मुख्य अधिकारी द्वारा दिए गए नाम | DATE   | 21-02-2560            | DATE :   | 21-02-2560            | SCALE :      |
|         | Mr. M. A. M. A. M. A.                          | Mr. M. A. M. A. M. A. | Mr. M. A. M. A. M. A.                          | Mr. M. A. M. A. M. A. | NOT TO SCALE |
| A-01    | 15                              |                                 |                                 |                                 |  |                       |  |                       |              |



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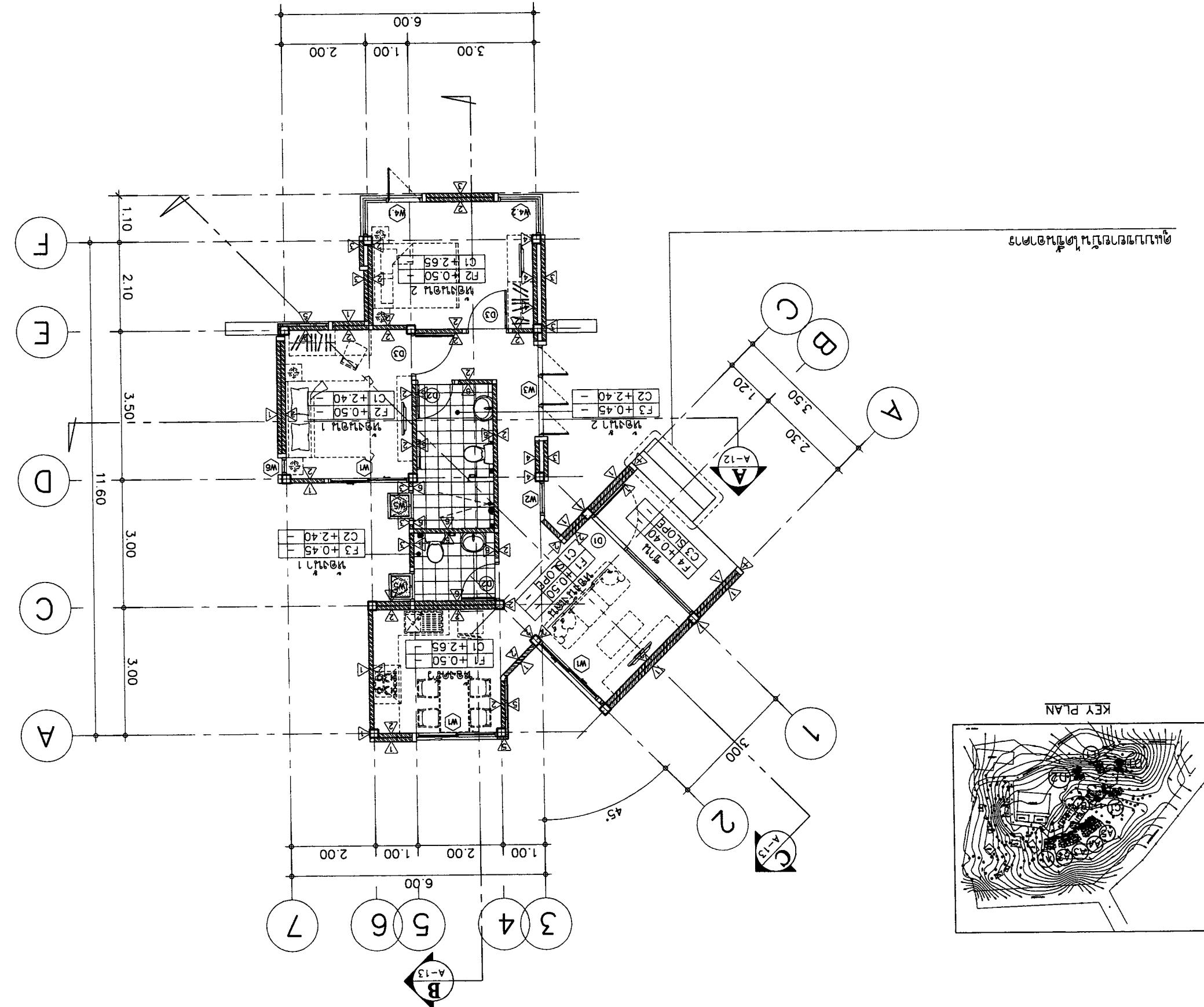
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|---|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| OWNER : 51 Nidhi Bhushan Engineering                                  | ARCHITECT                    | STRUCTURAL ENGINEER          | ELECTRICAL ENGINEER          | REVISION                     | DRAWING TITLE :              | APPROVED :                   |
| PROJECT : J353N QAHU A712LW A712LW                                    | DESIGNER : ASNA304@yahoo.com |
| LOCATION : 11A Gagan Singh Patel Marg, Sector 11, Chandigarh - 160011 | NAME : Mr. Gagan Singh Patel |
| DATE : 21-02-2016   | PHONE : 98149126             | PHONE : 98149127             | PHONE : 98149128             | PHONE : 98149129             | PHONE : 98149130             | PHONE : 98149131             |
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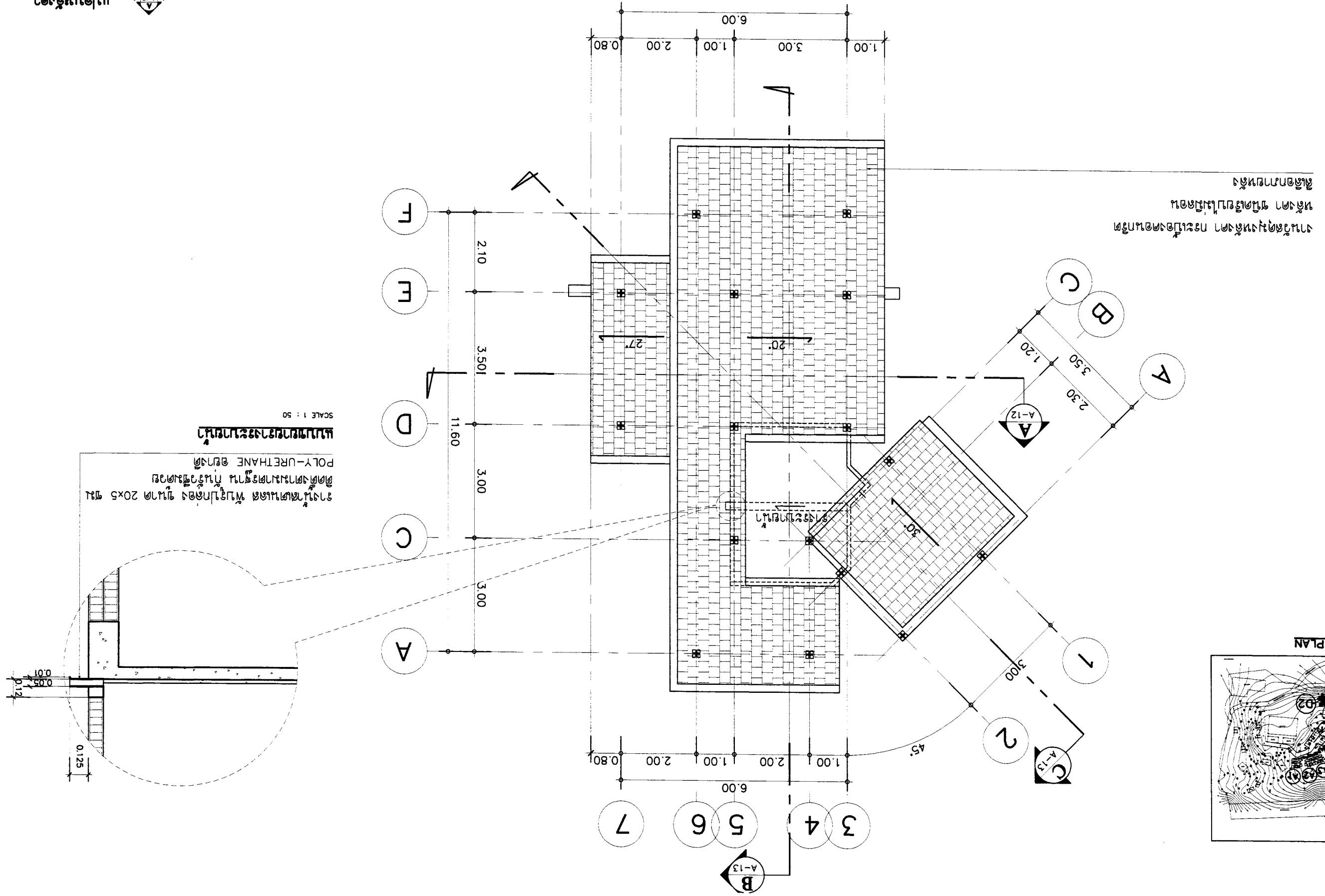
SCALE 1 : 100  
J353N QAHU A712LW A712LW



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| OWNER : | ARCHITECT | STRUCTURAL ENGINEER | ELECTRICAL ENGINEER | MECHANICAL ENGINEER | REVISOR | DRAWING TITLE : | APPROVALED : | PROJECT : |   |   |   | LOCATION : | SHEET NO | TOTAL |    |   |         |       |
|         |           |                     |                     |                     |         |                 |              |           |   |   |   |            |          |       | NO | DESCRIPTION   | DATE    |       |
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| 2       |           |                     |                     |                     |         |                 |              | 2         | 2 | 2 | 2 | 2          | 2        | 2     |    |   |         |       |
| 3       |           |                     |                     |                     |         |                 |              | 3         | 3 | 3 | 3 | 3          | 3        | 3     |    |   |         |       |
|         |           |                     |                     |                     |         |                 |              |           |   |   |   |            |          |       |    | L11A11N1A1A1A1  | SCALE : | 1:100 |
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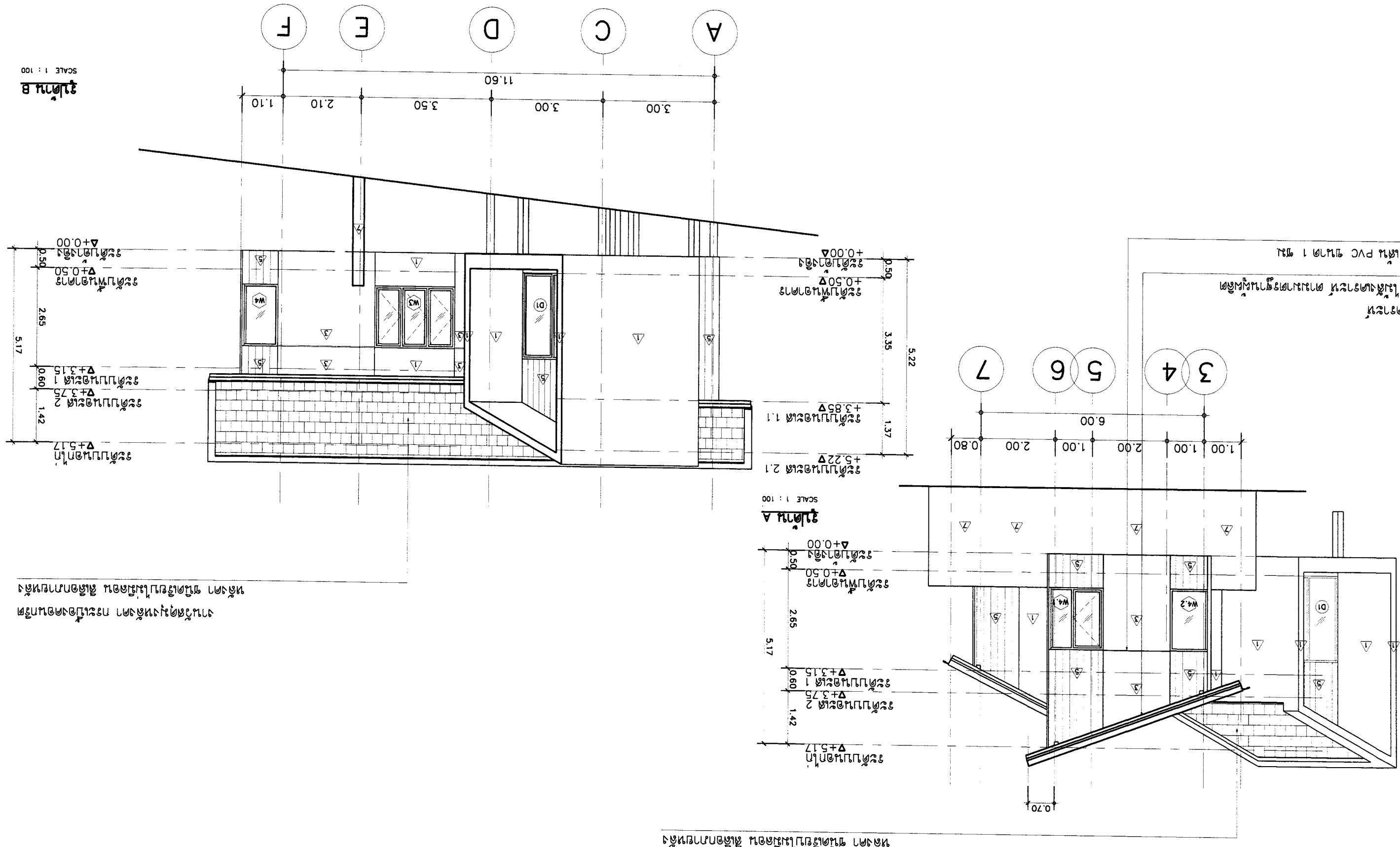


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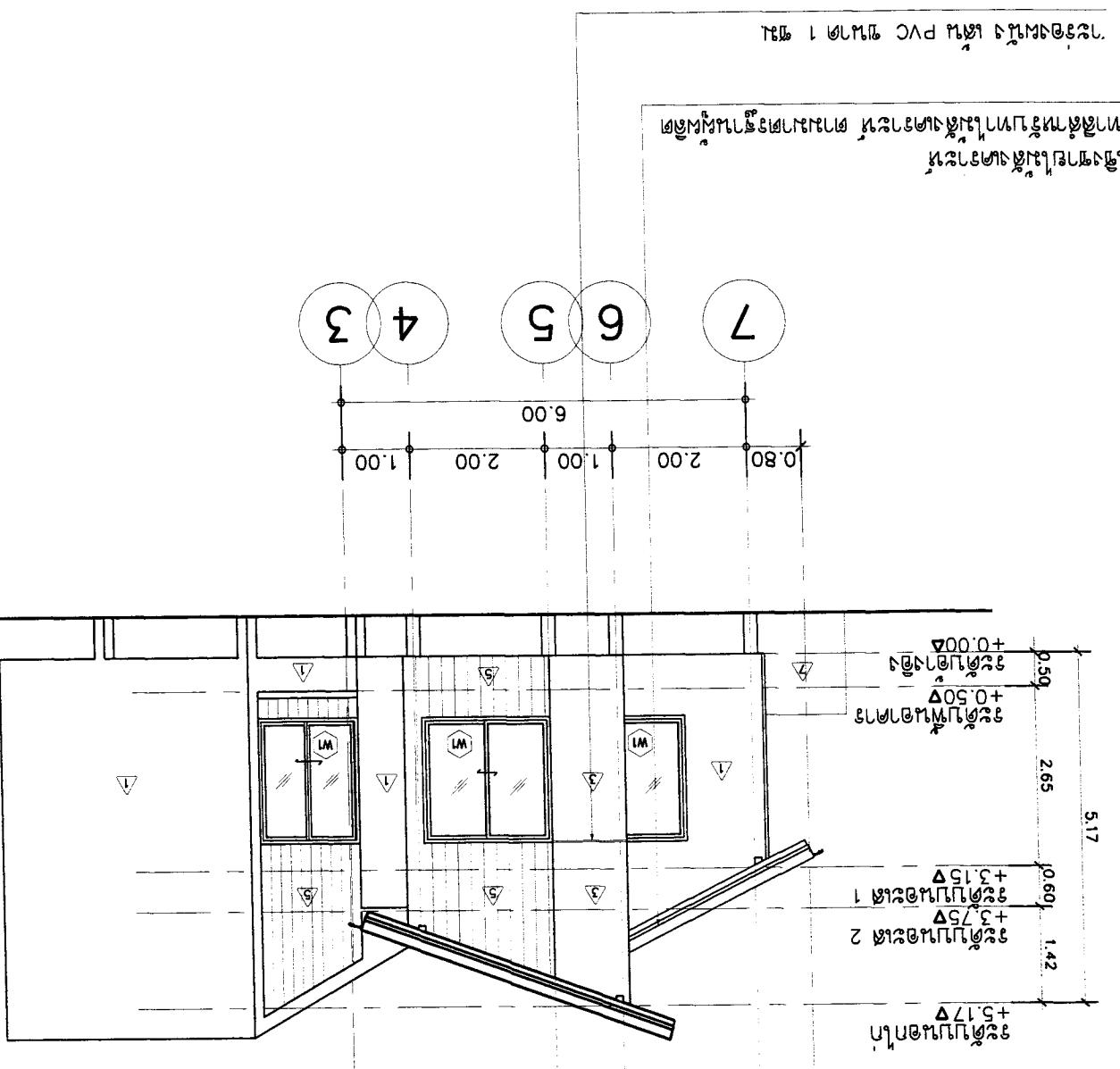
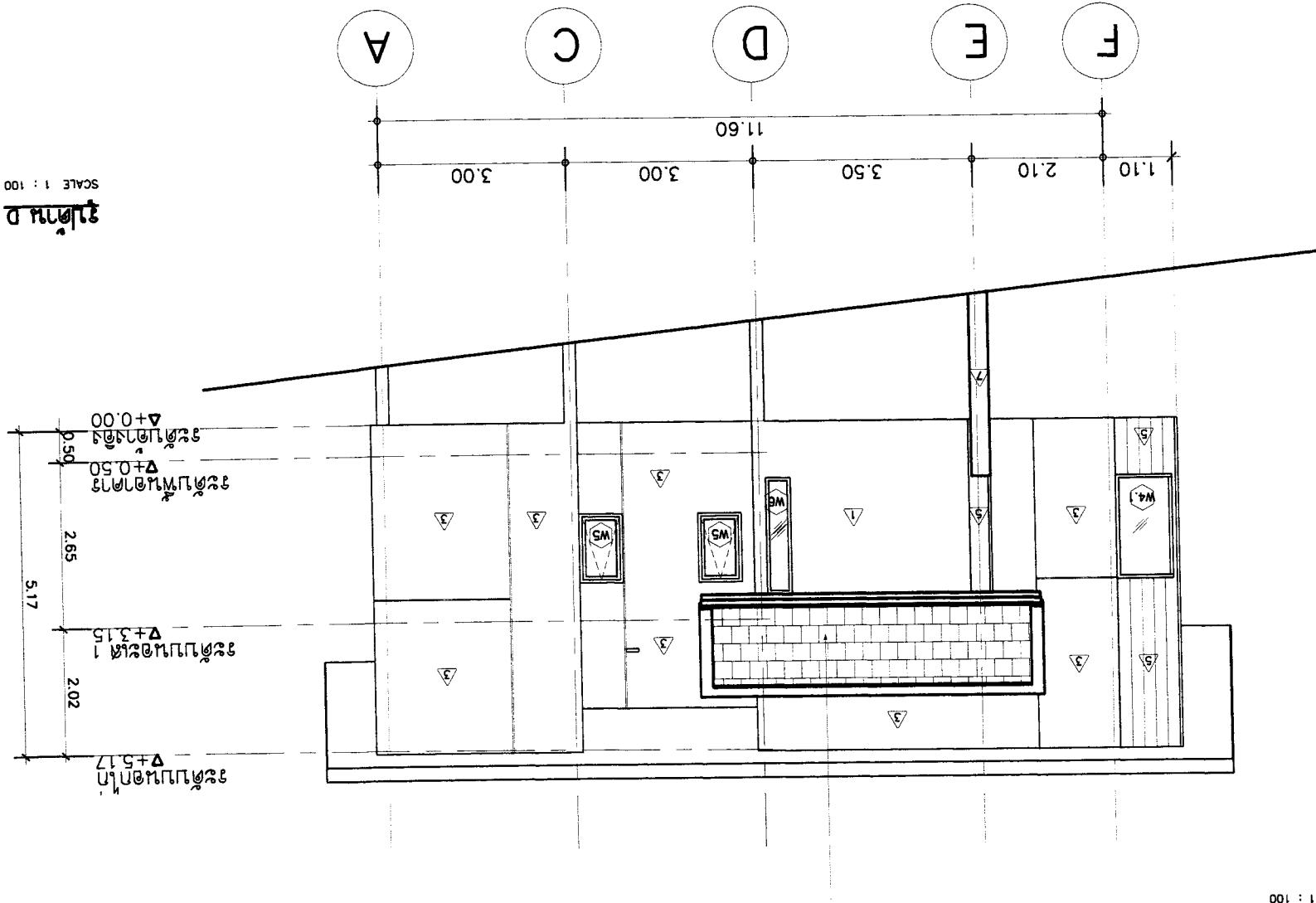
ASANA Architect Company Limited  
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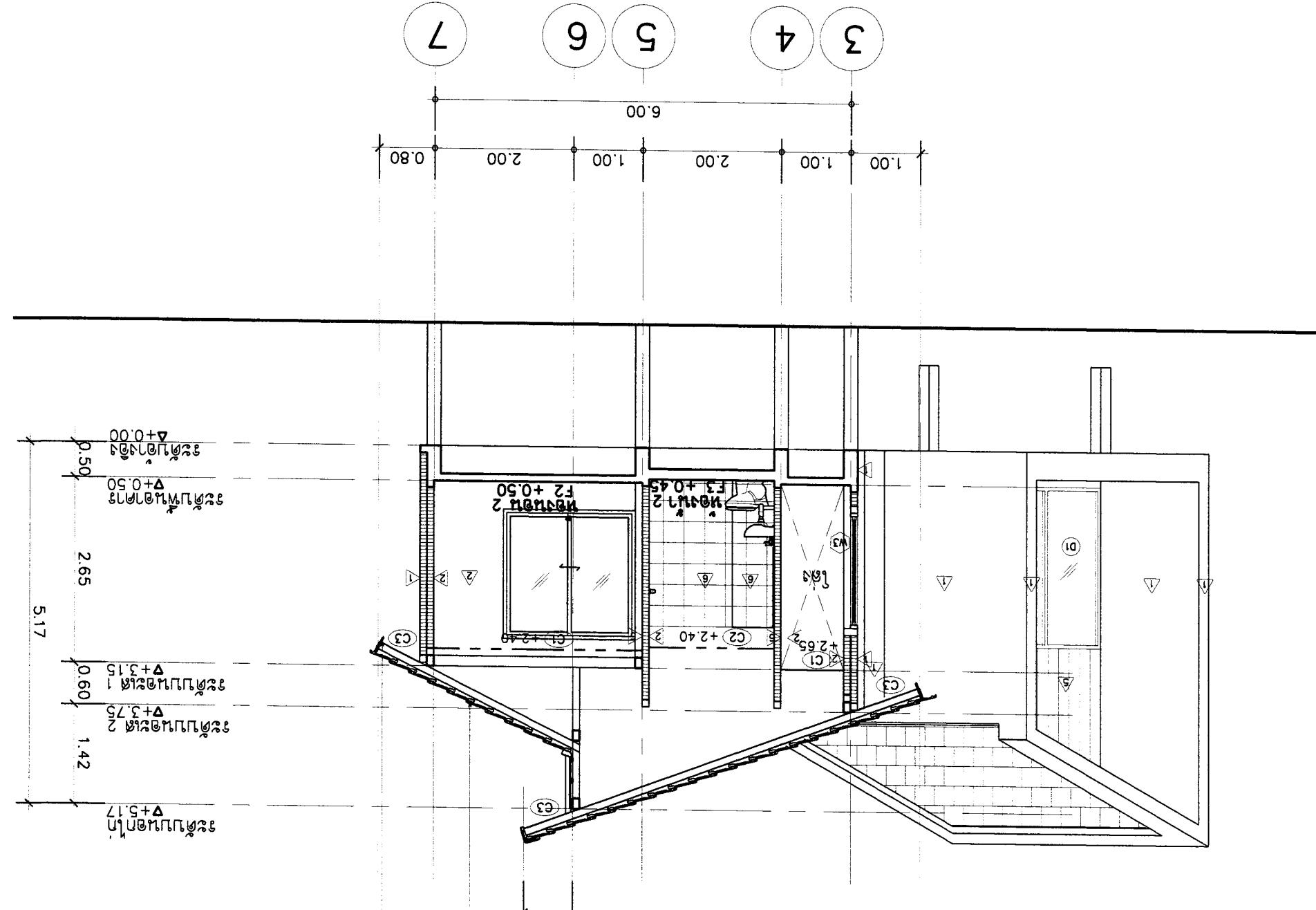


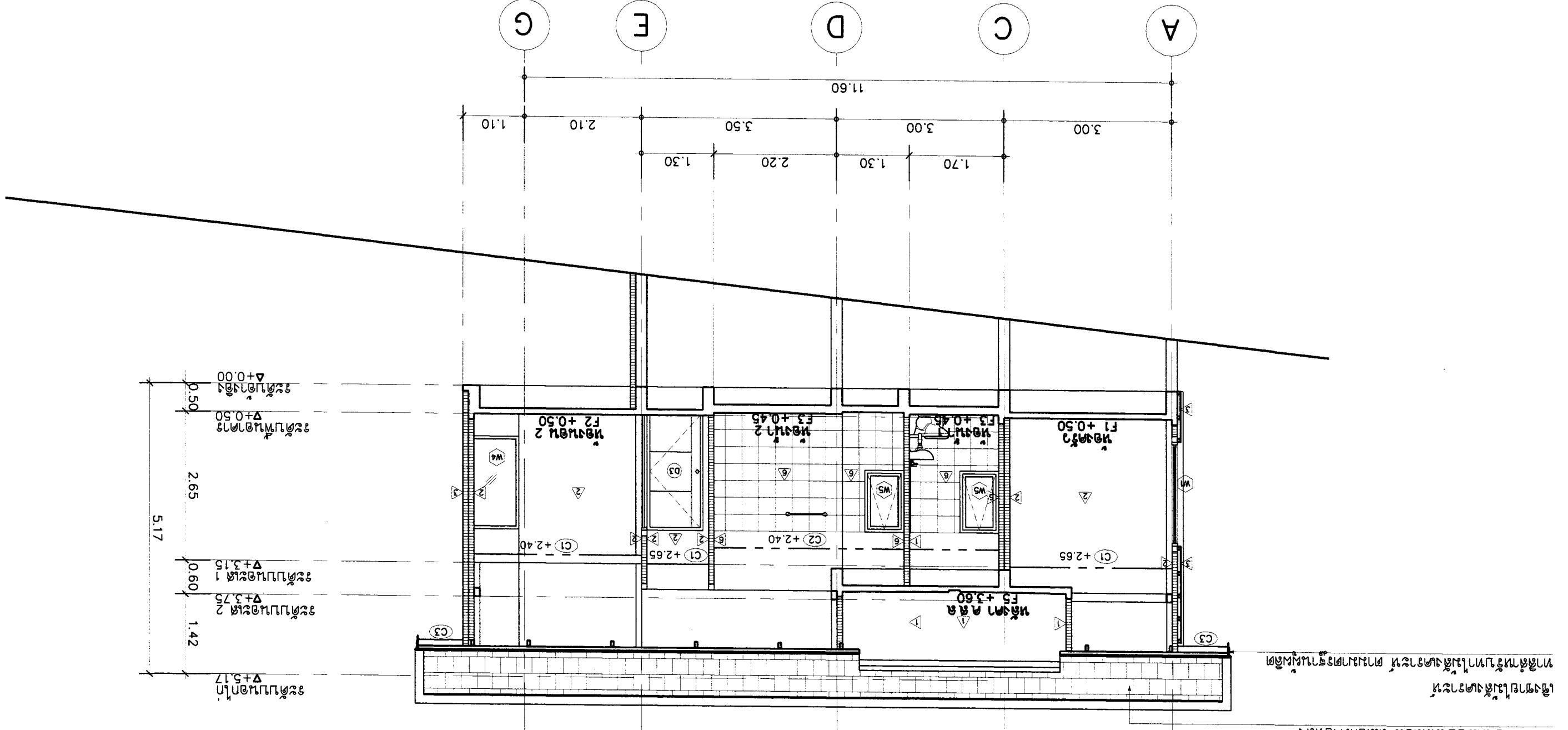
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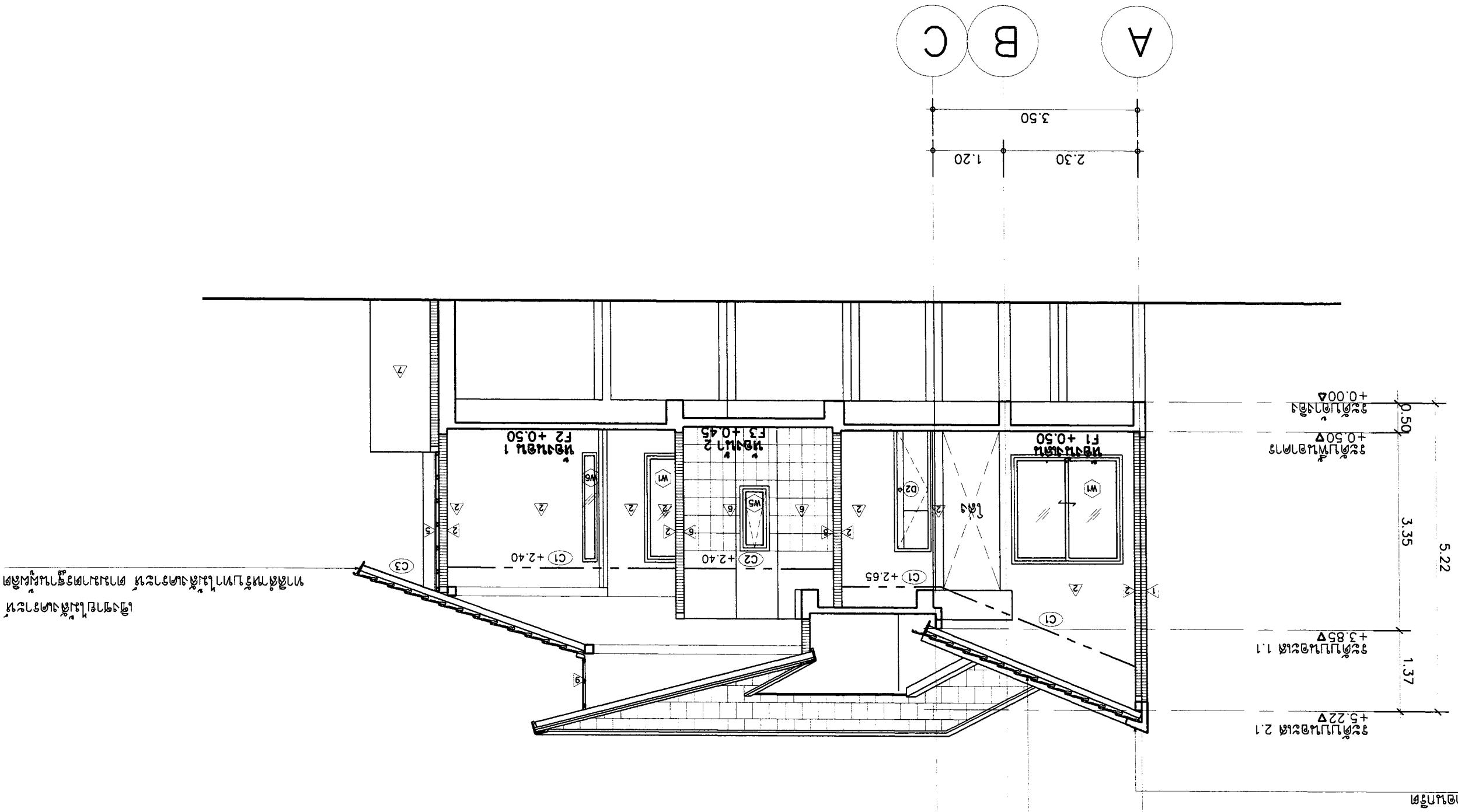
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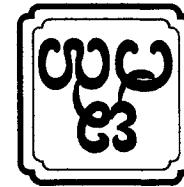
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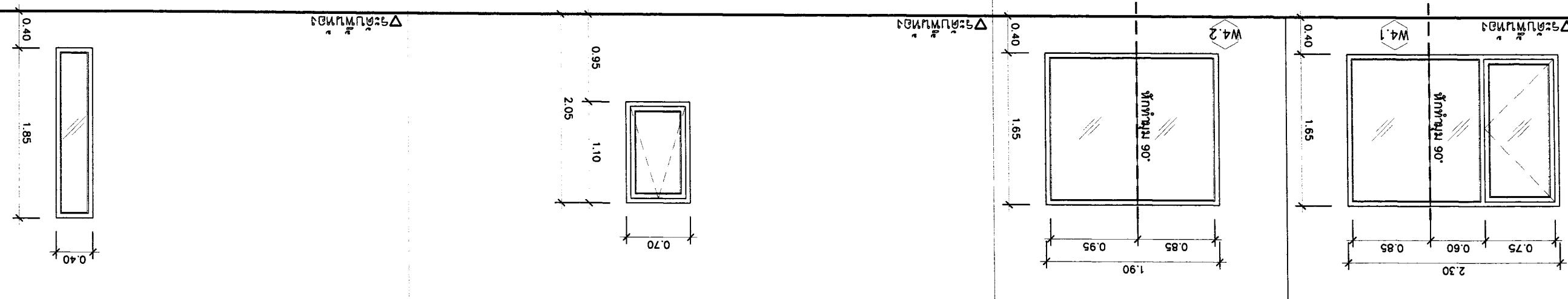
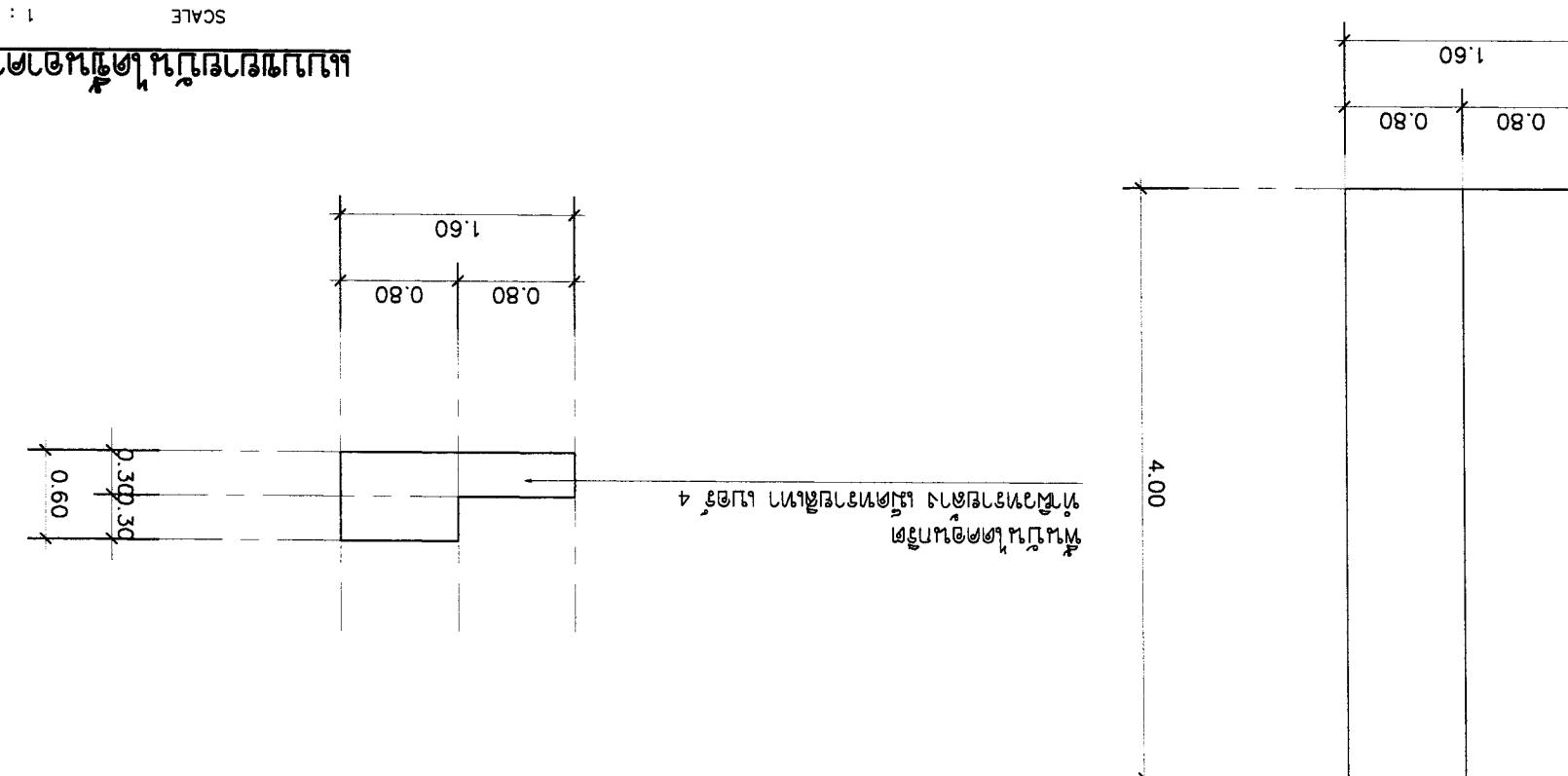
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|                          |  |                                |  | DATE : 21-02-2560  |
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|                          |  |                                | W18 N16 N15 N14 N13 N12 N11 N10 N9 N8 N7 N6 N5 N4 N3 N2 N1 | W18 N16 N15 N14 N13 N12 N11 N10 N9 N8 N7 N6 N5 N4 N3 N2 N1 |
|                          |  | STRUCTURAL ENGINEER : 2        |  | W18 N16 N15 N14 N13 N12 N11 N10 N9 N8 N7 N6 N5 N4 N3 N2 N1 |
|                          |  | ELECTRICAL ENGINEER : 1        |  | W18 N16 N15 N14 N13 N12 N11 N10 N9 N8 N7 N6 N5 N4 N3 N2 N1 |
|                          |  | REVISION : NO                  | W18 N16 N15 N14 N13 N12 N11 N10 N9 N8 N7 N6 N5 N4 N3 N2 N1 | W18 N16 N15 N14 N13 N12 N11 N10 N9 N8 N7 N6 N5 N4 N3 N2 N1 |
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กูรูปนก บ้านท่าเรือ ถนนสุขุมวิท 91 ชั้น 9

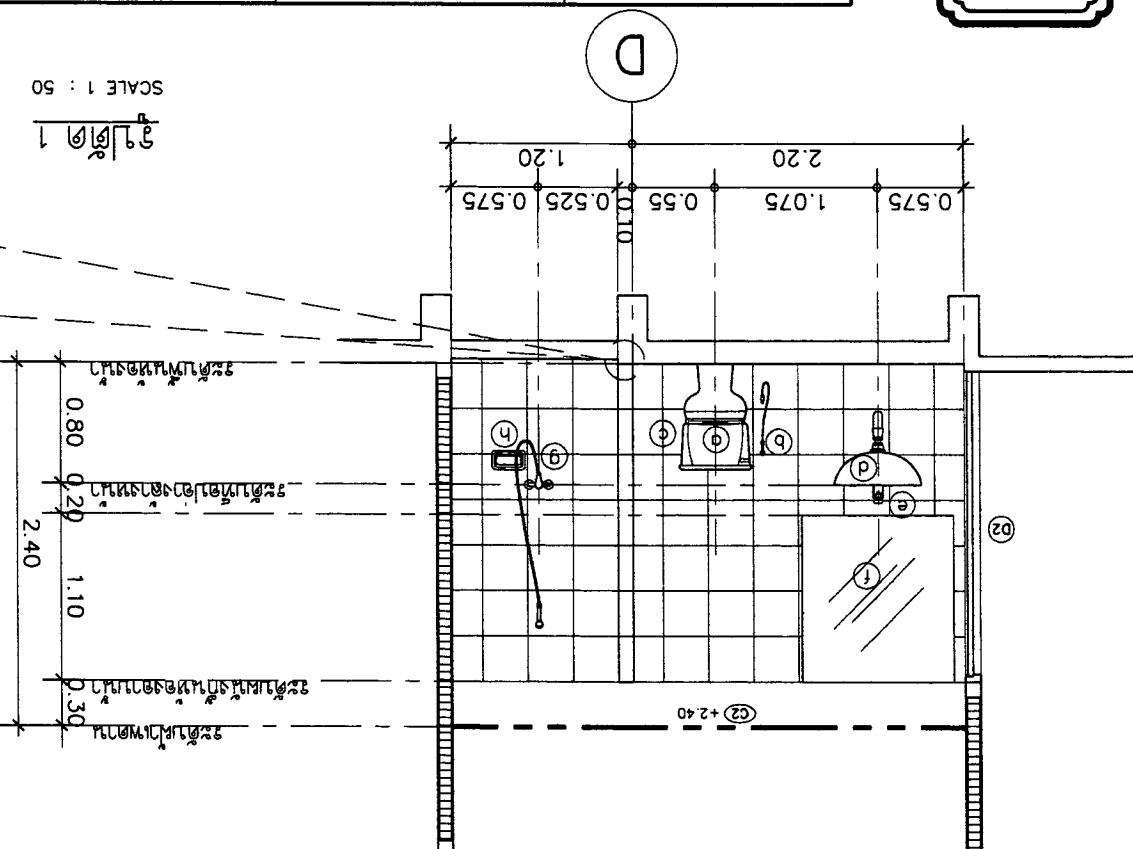
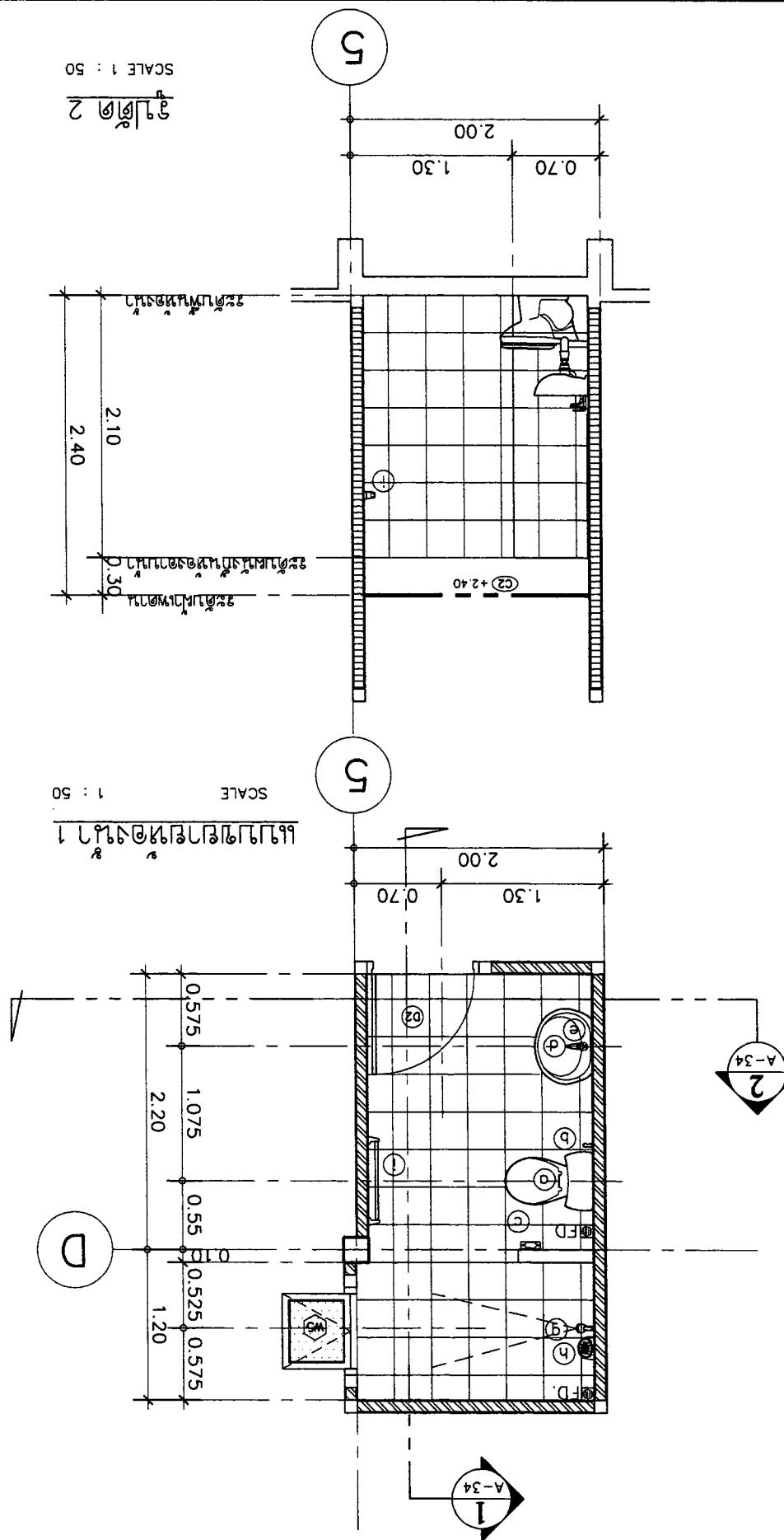
ASANA Architect Company Limited  
กูรูปนก บ้านท่าเรือ ถนนสุขุมวิท 97 ชั้น 9

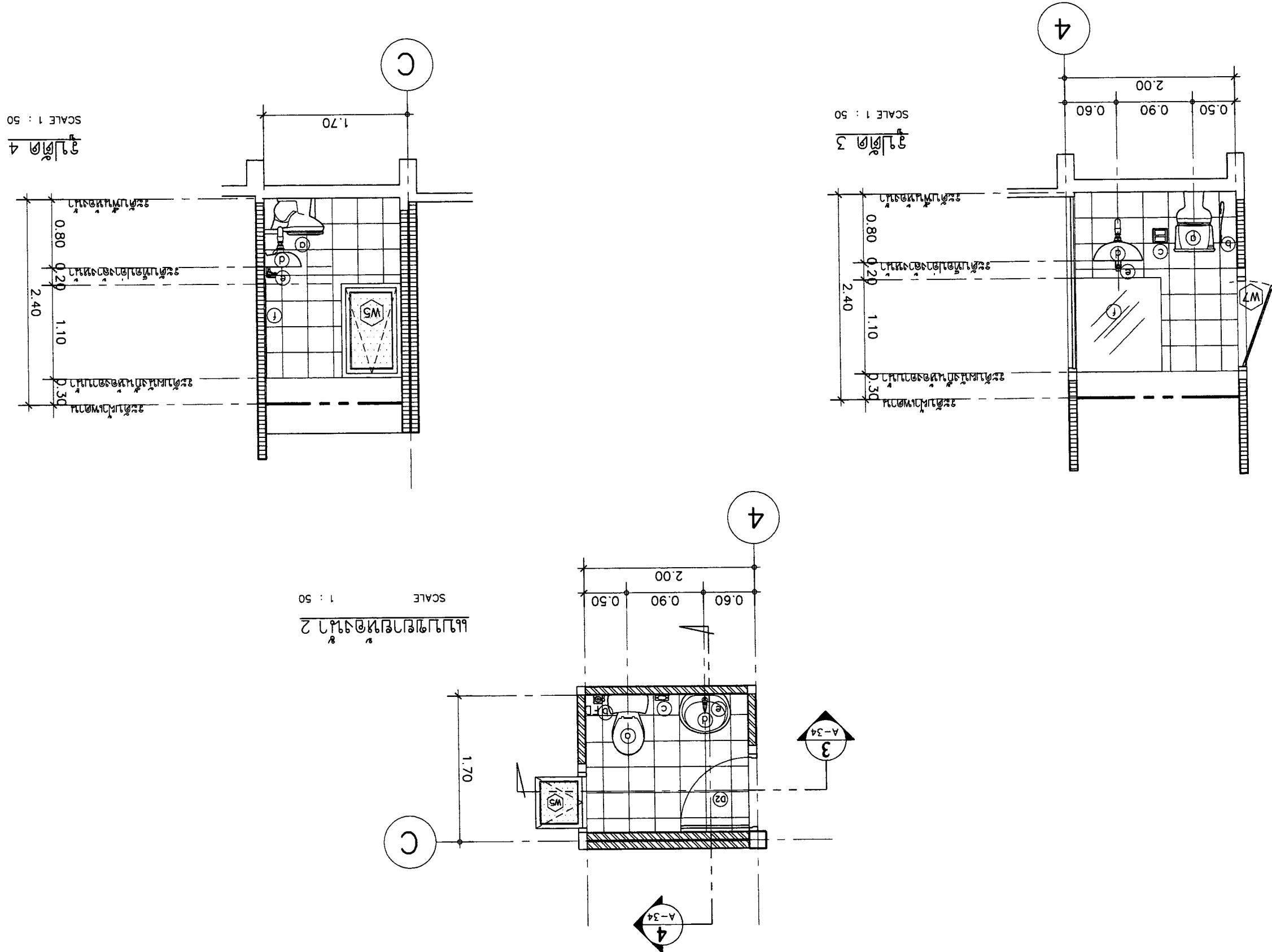
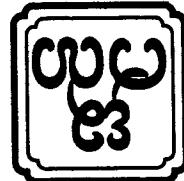


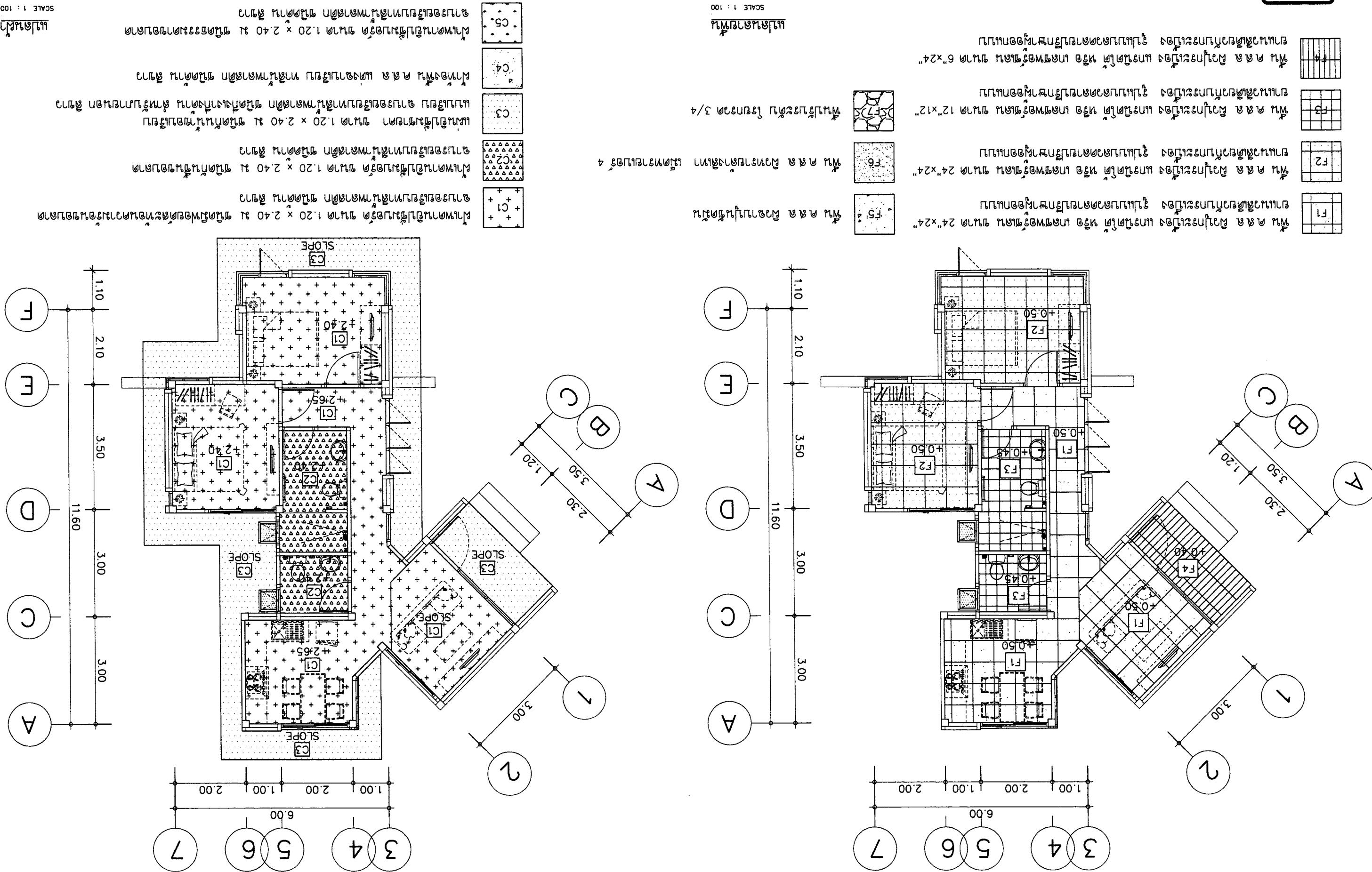
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| PROJECT :                         | LOCATION :                        | SHEET NO                          | TOTAL                             | <br><br><br><br> |                                   |                   |   |
|                                   |                                   |                                   |                                   |   |                                   |                   |   |
| STRUCTURAL ENGINEER               | ELECTRICAL ENGINEER               | REVISION                          | DRAWING TITLE :                   | APPROVED :  | OWNER :                           | ARCHITECT         | 51 नं 2 अधिकारीवान<br>गुरुग्राम १२२००२३ |
| मुख्य शिल्प विभाग नं १०३२७        | मुख्य शिल्प विभाग नं १०३२६        | मुख्य उपकरण विभाग नं १०१५४६       | मुख्य उपकरण विभाग नं १०१५१०       | NO  | DESCRIPTION                       | DATE              |   |
| 1                                 | 2                                 | 3                                 | 4                                 | 5   | SANITARY ENGINEER                 | DATE : २१-०२-२५६० | 15                                      |
| 148 ग्राम पाली ज़िला संख्या ११०८६ | १४८ ग्राम पाली ज़िला संख्या ११०८५   | १४८ ग्राम पाली ज़िला संख्या ११०८५ | SCALE : 1:50      | A-13                                    |



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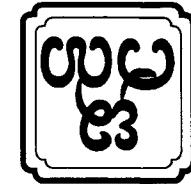




ELECTRICAL GENERAL NOTE

INDEX

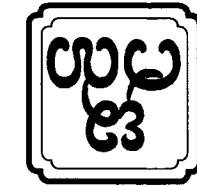
| DWG.NO. | NAME   |
|---------|--|
| E-01    | ELectrical symbols                           |
| E-02    | ELectrical system symbols                    |
| E-03    | ELectrical single line diagram               |
| E-04    | ELectrical riser diagram panel load schedule |



# SYMBOLS

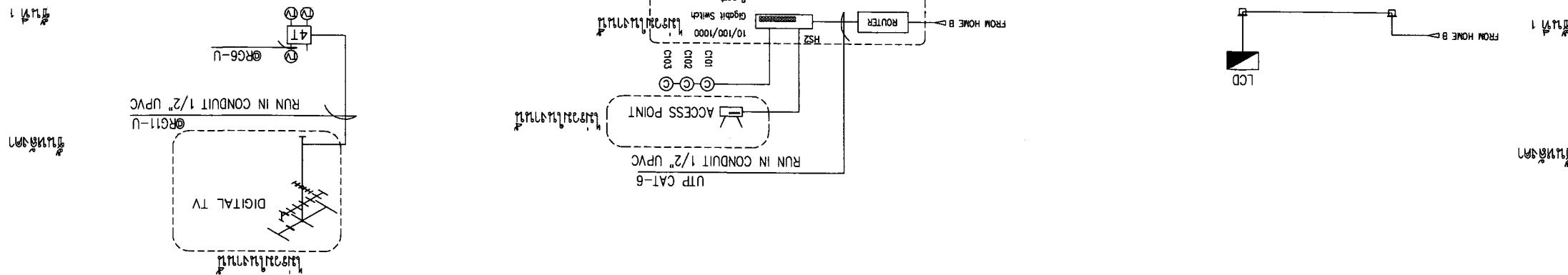
| SYMBOLS           | DESCRIPTIONS   | SYMBOLS | DESCRIPTIONS   | SYMBOLS | DESCRIPTIONS  | SYMBOLS | DESCRIPTIONS  | SYMBOLS | DESCRIPTIONS   |
|-------------------|--|---------|--|---------|---|---------|---|---------|--|
| ELECTRICAL SYSTEM |  |         |  |         |   |         |   |         |  |
| KWh               | KILOWATT HOUR METER.   | PABX    | PRIVATE AUTOMATIC BRANCH EXCHANGE.   | MDF     | MAIN DISTRIBUTION FRAME.  | OTC     | OUT DOOR TELEPHONE CABINET (WEATHER PROOF).                   | M       | MCB & KWH WITH CUBICLE (wp)  |
| CIRCUIT BREAKER.  |  |         |  |         |   |         |   |         | CONCRETE PLOE 9 M. (EXISTING).   |
| KWh               |  |         |  |         |   |         |   |         | MAN HOLD.  |
|                   |  |         |  |         |   |         |   |         | PANEL BOARD.   |
| wp                |  |         |  |         |   |         |   |         | HOME RUN CIRCUIT 6 FROM PANEL BOARD (LPA).   |
| LPA-6             |  |         |  |         |   |         |   |         | WATER PROOF.   |
| ⑥                 | COMPUTER OUTLET INSTALLATION 0.30 M. HEIGHT AFF.   | ⑥       | COMPUTER FLOOR OUTLET (POP UP).  | ⑥       | SINGLE POLE SWITCH 15A. 250 V. INSTALLATION 1.20 M. HEIGHT AFF.                             | ⑥       | THREE-WAY SWITCH 15A. 250 V. INSTALLATION 1.20 M. HEIGHT AFF. | ⑥       | DIMMER SWITCH 15A. 250 V. INSTALLATION 1.20 M. HEIGHT AFF.                                       |
| ⑤                 | GROUND CONDUCTOR RUN TO GROUNDING SYSTEM.  | ⑤       | LIGHTING SYSTEM.   | ⑤       | SINGLE POLE SWITCH 15A. 250 V. INSTALLATION 1.20 M. HEIGHT AFF.                             | ⑤       | DOWN LIGHT WITH INTEGRATED LED LAMP UNIT (LEDPAR30).          | ⑤       | DUPLEX RECEPTACLE WITH GROUND (UNIVERSAL TYPE) 15A.250 V. INSTALLATION 1.00 M. HEIGHT AFF. (EXP) |
| ⑩ H100            | DUPLEX RECEPTACLE WITH GROUND (UNIVERSAL TYPE) 15A.250 V. INSTALLATION 1.00 M. HEIGHT AFF. (EXP) | ⑩ H110  | DUPLEX RECEPTACLE WITH GROUND (UNIVERSAL TYPE) 15A.250 V. INSTALLATION 1.10 M. HEIGHT AFF. | ⑩ H110  | SIMPLEX RECEPTACLE WITH GROUND (UNIVERSAL TYPE) 15A.250 V. INSTALLATION 0.30 M. HEIGHT AFF. | ⑩       | FLOOR DUPLEX RECEPTACLE WITH GROUND 10A.250 V. (POP UP).      | ⑩       | WEATHER PROOF JUNCTION BOX.  |
| ⑨ WH              | WATER HEATER 3.500 W.  | ⑨ WH    | MATV SYSTEM.   | ⑨       | TV OUTLET. INSTALLATION 0.30 M. HEIGHT AFF.   | ⑨       | TV OUTLET. FLOOR OUTLET (POP UP).                             | ⑨       | ANTENNA 3.5,7,9,11 & TV.   |
| ⑧ 25              | SPLITTER 2 WAY.  | ⑧ 35    | SPLITTER 3 WAY.  | ⑧ 45    | SPLITTER 4 WAY.   | ⑧ 4T    | TAPE-OFF 4 WAY.   | ⑧ D     | MULTIBAND AMP.   |
| ⑦                 | TV OUTLET. INSTALLATION 0.30 M. HEIGHT AFF.  | ⑦       | SPUTTER 2 WAY.   | ⑦       | SPUTTER 3 WAY.  | ⑦       | SPUTTER 4 WAY.  | ⑦       | ANTENNA 3.5,7,9,11 & TV.   |
| ⑥                 | WATER HEATER 3.500 W.  | ⑥       | MATV SYSTEM.   | ⑥       | TV OUTLET. INSTALLATION 0.30 M. HEIGHT AFF.   | ⑥       | TV OUTLET. FLOOR OUTLET (POP UP).                             | ⑥       | ANTENNA 3.5,7,9,11 & TV.   |



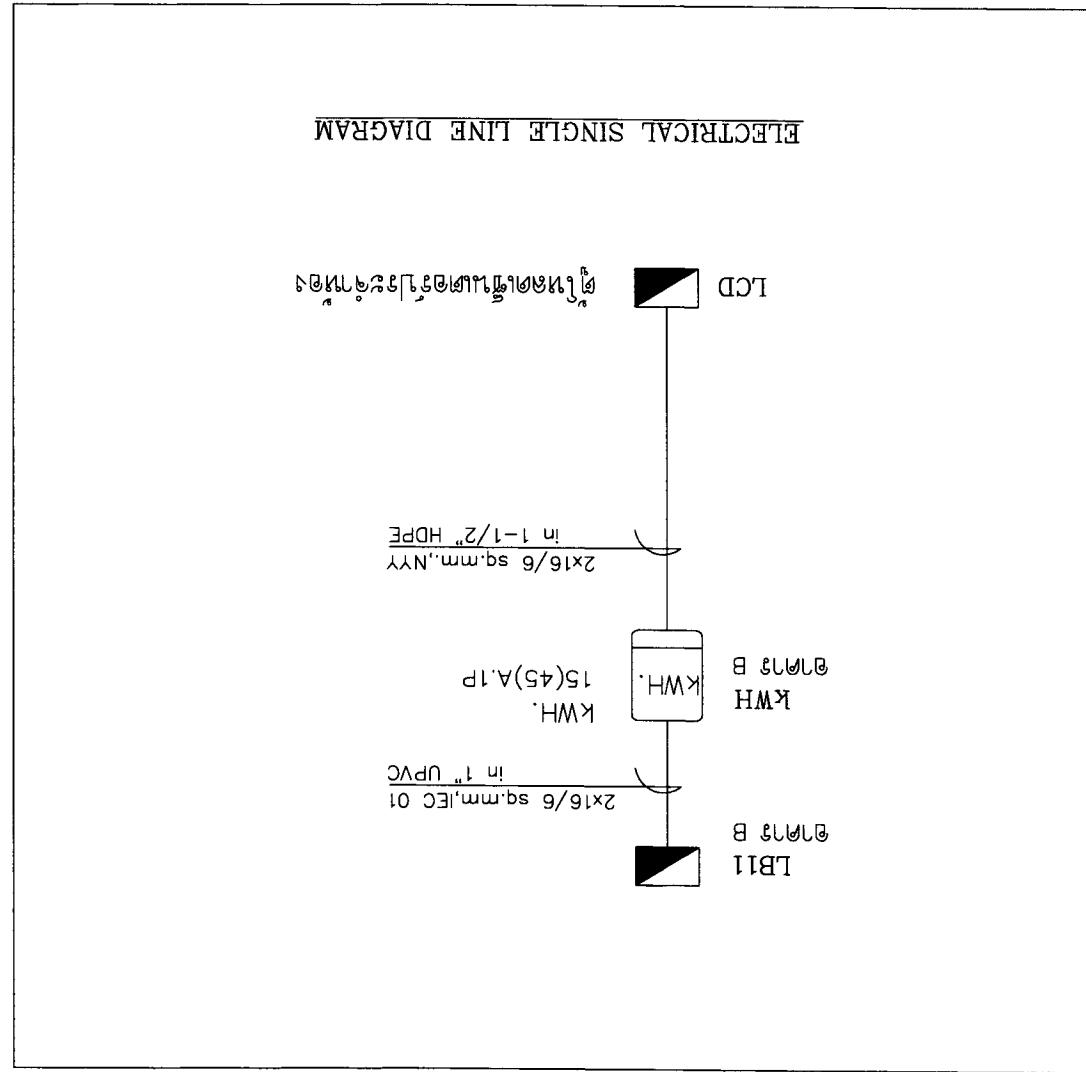


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ELECTRICAL SYSTEM RISER DIAGRAM.  
LOCAL AREA NETWORK RISER DIAGRAM.  
MATERIAL SYSTEM RISER DIAGRAM.

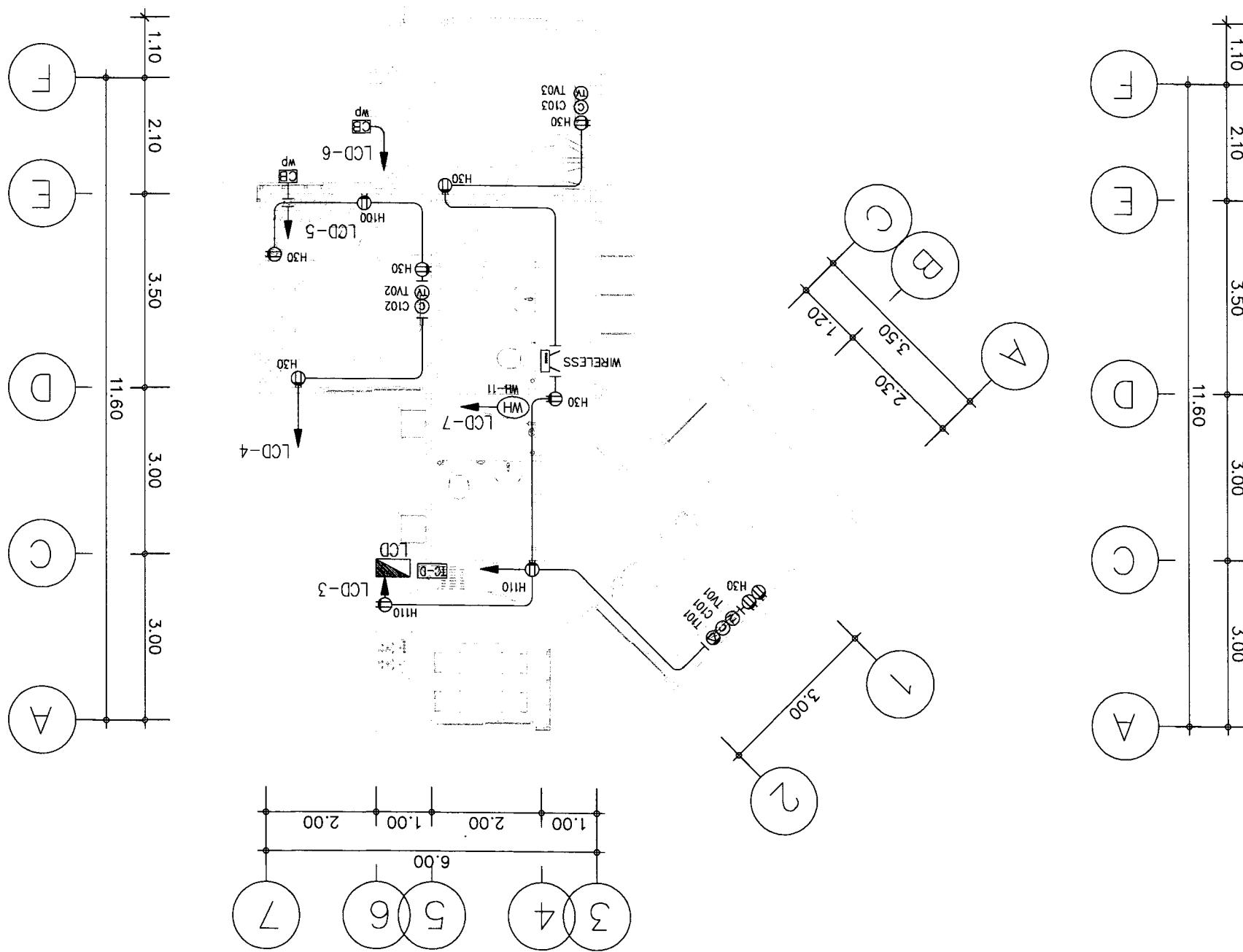


ນາຈັກລົງ : BRANCH CB ລົງວ້າງວຸນ RCD <30mA. ຂໍ້ມູນຂະໜາດທີ 3 ສິ່ງເກົ່າ 7

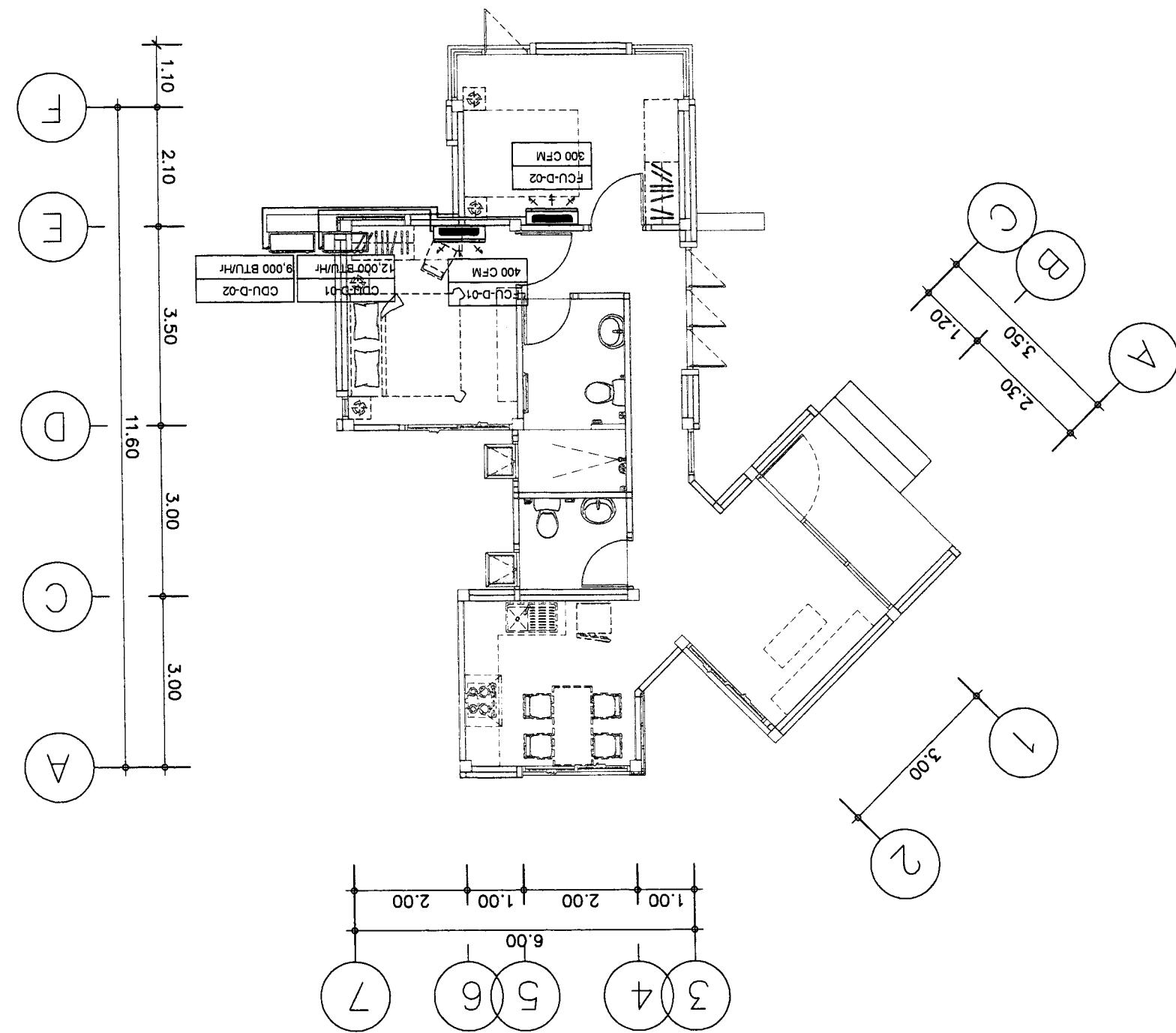




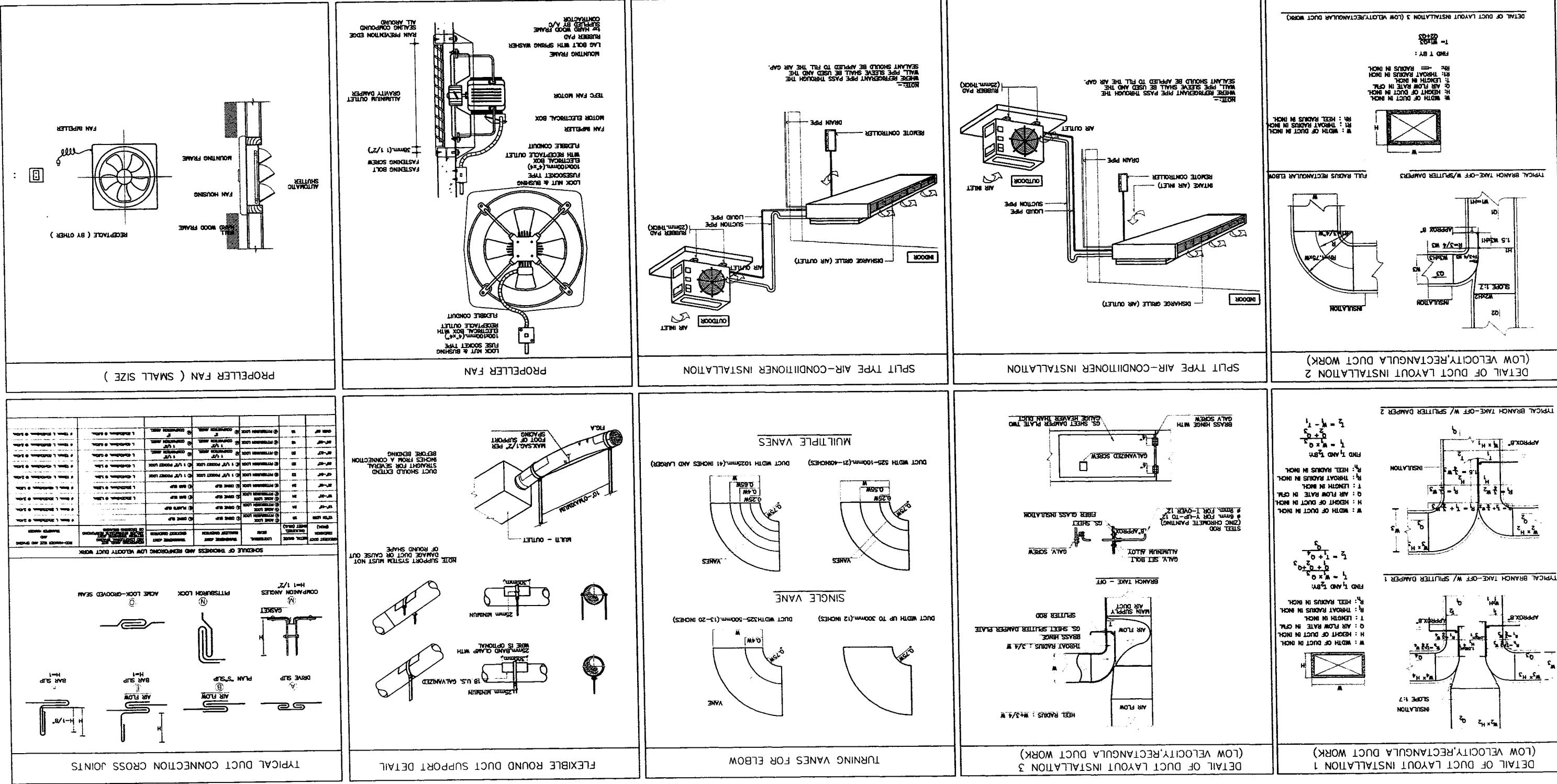
ASAANA Architect Company Limited











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|--|--|--|--|--|--|--|--|--|--|
| OWNER : 51 नं 2 अनुवासन  |  | PROJECT : अनुवासन कालीगढ़ बिल्डिंग   |  | LOCATION : अनुवासन कालीगढ़ बिल्डिंग  |  | E-mail : oson304@yahoo.com   |  | S-01   |  |
| ARCHITECT :  |  | STRUCTURAL ENGINEER :  |  | ELECTRICAL ENGINEER :  |  | DRAWING TITLE :  |  | APPROVED :   |  |
| NAME : अनुवासन कालीगढ़ बिल्डिंग  |  | NAME : अनुवासन कालीगढ़ बिल्डिंग  |  | NAME : अनुवासन कालीगढ़ बिल्डिंग  |  | NAME : अनुवासन कालीगढ़ बिल्डिंग  |  | NAME : अनुवासन कालीगढ़ बिल्डिंग  |  |
| DESIGN NO : 10327  |  | NO : 10327   |  | DESCRIPTION : SANITARY ENGINEER  |  | DATE : 21-02-2008  |  | SCALE : NO TO SCALE  |  |
| TOTAL SHEET NO : 3   |  | 1  |  | 2  |  | 3  |  | 4  |  |
| 12. इस ड्रॉयर में एक साथ 3 वटा लाइट और 1 वटा फैन होना चाहिए।                         |  | 11. इस ड्रॉयर में एक साथ 3 वटा लाइट और 1 वटा फैन होना चाहिए।                         |  | 10. इस ड्रॉयर में एक साथ 3 वटा लाइट और 1 वटा फैन होना चाहिए।                 |  | 9. इस ड्रॉयर में एक साथ 3 वटा लाइट और 1 वटा फैन होना चाहिए।                  |  | 8. इस ड्रॉयर में एक साथ 3 वटा लाइट और 1 वटा फैन होना चाहिए।                          |  |
| 7. इस ड्रॉयर में एक साथ 3 वटा लाइट और 1 वटा फैन होना चाहिए।                          |  | 6. इन लाइटों की जांच करने के लिए इनमें से कोई भी लाइट को नहीं बदला दिया जाए।         |  | 5. इन लाइटों की जांच करने के लिए इनमें से कोई भी लाइट को नहीं बदला दिया जाए। |  | 4. इन लाइटों की जांच करने के लिए इनमें से कोई भी लाइट को नहीं बदला दिया जाए। |  | 3. अनुप्रयोगी लाइटों की जांच करने के लिए इनमें से कोई भी लाइट को नहीं बदला दिया जाए। |  |
| 2. अनुप्रयोगी लाइटों की जांच करने के लिए इनमें से कोई भी लाइट को नहीं बदला दिया जाए। |  | 1. अनुप्रयोगी लाइटों की जांच करने के लिए इनमें से कोई भी लाइट को नहीं बदला दिया जाए। |  |  |  |  |  |  |  |
| 10   |  |  |  |  |  |  |  |  |  |



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|---|--|---|---|---|---|---------------------|------|----|
| OWNER :<br>Sri Jayaraman<br>E-mail : srijayaraman@yahoo.com | ARCHITECT<br>Mr. S. Ganesh<br>E-mail : sri_ganesh_1991@gmail.com | STRUCTURAL ENGINEER<br>Mr. B. Suresh<br>E-mail : b_suresh1991@gmail.com | ELECTRICAL ENGINEER<br>Mr. R. Venkateswaran<br>E-mail : r_venkateswaran1994@gmail.com | REVISION<br>No. 01<br>DATE : 10/10/2027 | DRAWING TITLE :<br>SHEET NO :<br>TOTAL :<br>PROJECT :<br>LOCATION : | SCALE : NO TO SCALE |      |    |
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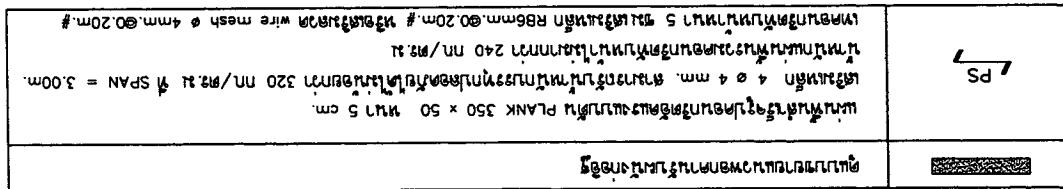
ASANA Architect Company Limited

**CADD**

Jyoti Gaurav & Associates

ASANA Architect Company Limited

|                                     |                                       |  |               |
|-------------------------------------|---------------------------------------|--|---------------|
| OWNER : SRI M/s Bhutan Engineering  | ARCHITECT : Jyoti Gaurav & Associates | STRUCTURAL ENGINEER : ELECTRICAL ENGINEER : REVISION : DRAWING TITLE : | APPROVED :    |
| PROJECT : LOCATION : SHEET NO TOTAL |                                       | NO. DESCRIPTION DATE   | S-03 10       |
| E-mail : asanajyoti@yahoo.com       |                                       | NAME : ADDRESS : DATE : 21-02-2560                                     | SCALE : 1:100 |
| SHEET NO TOTAL                      |                                       | NAME : ADDRESS : DATE : 21-02-2560                                     | SCALE : 1:100 |
| S-03 10                             |                                       | NAME : ADDRESS : DATE : 21-02-2560                                     | SCALE : 1:100 |



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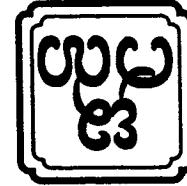
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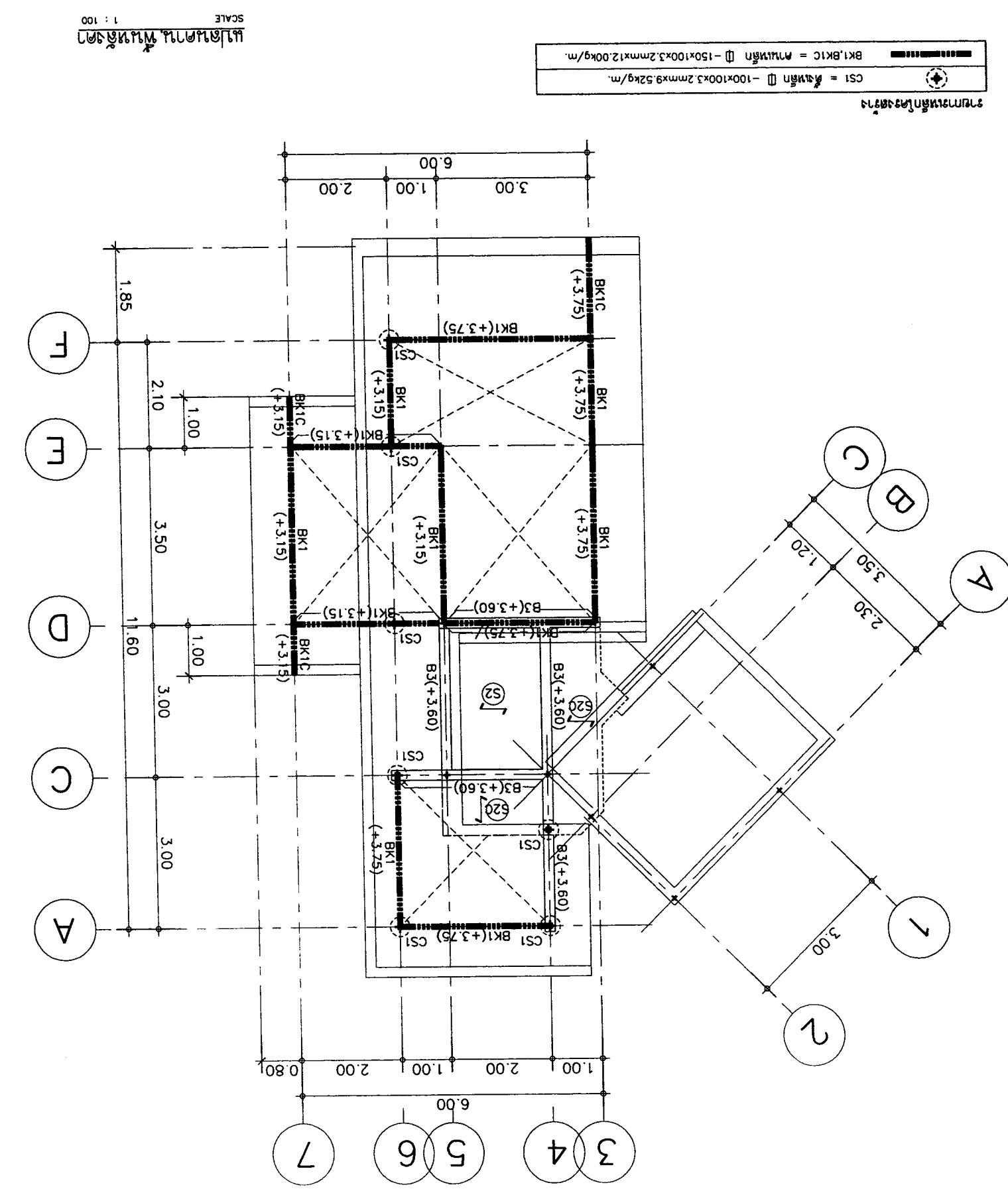
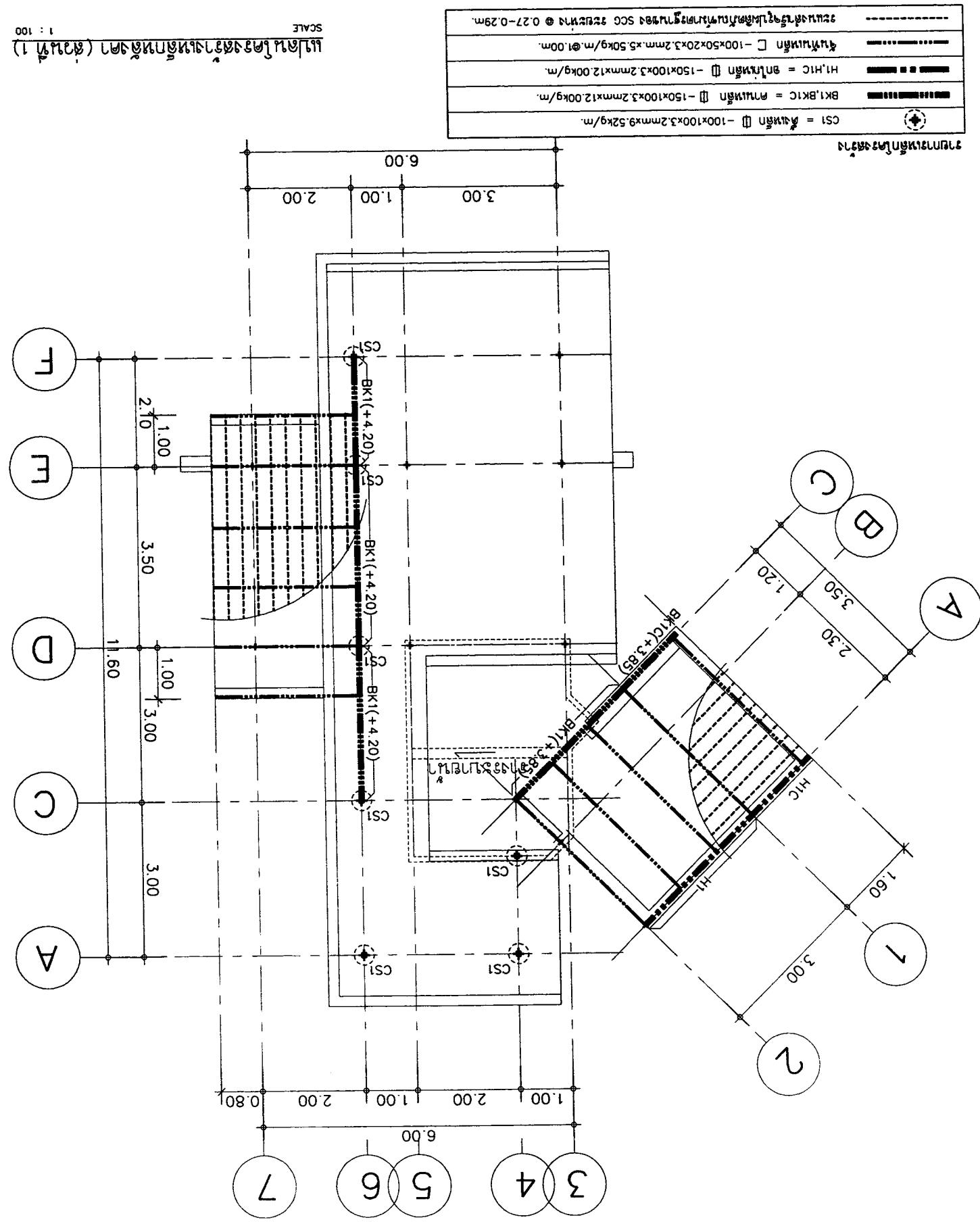
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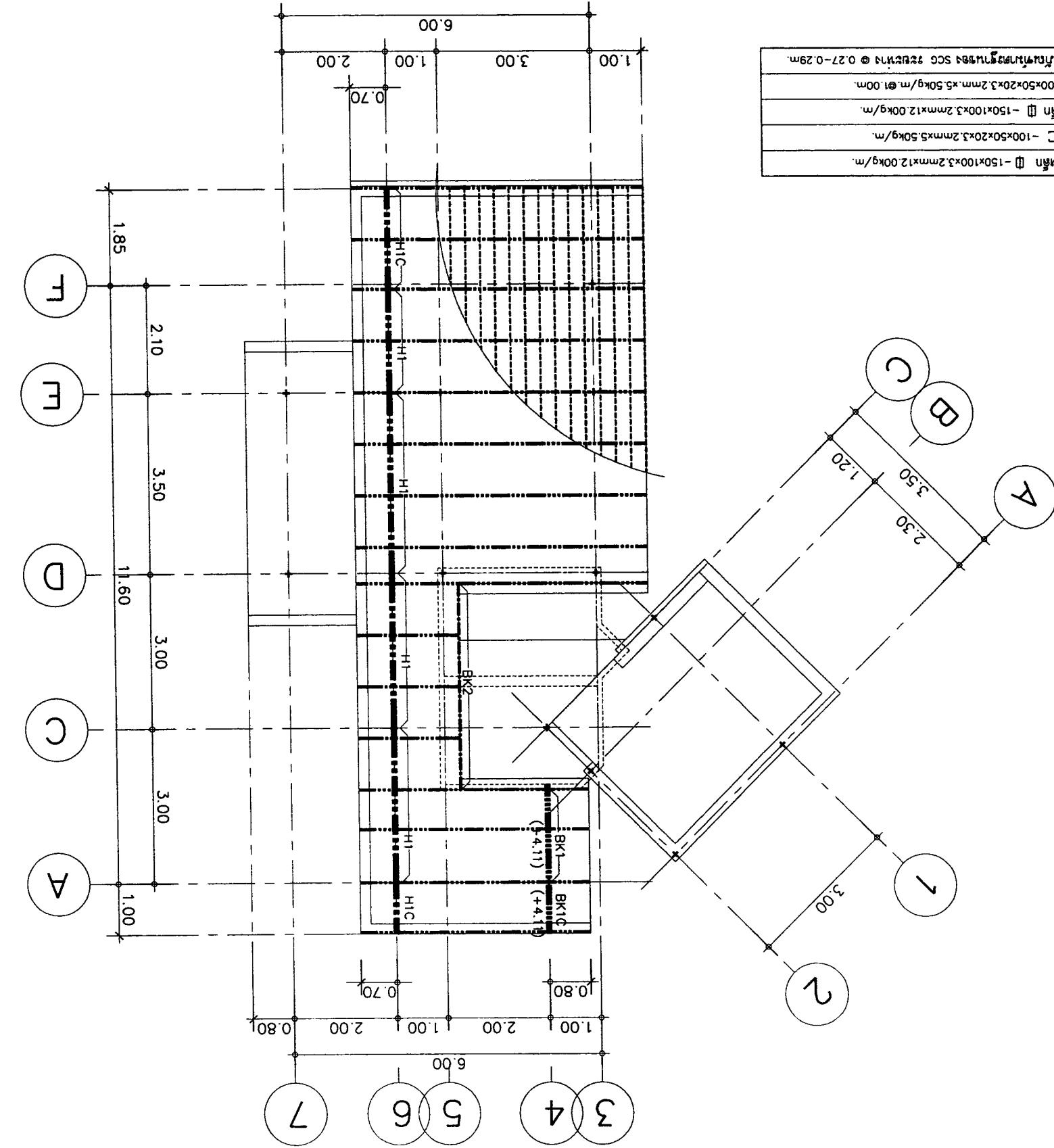
ASANA Architect Company Limited  
এসানা একার্ট কম্পানি লিমিটেড



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|-------------------------------------|--|--|--|--|--------------|-------------------|---|--|----------------------------------|------------|--|---------------|------------|
| OWNER :<br>SI No: 2<br>Ranjanadasne | ARCHITECT<br>MUL GUNA JITHA JITHA<br>S/N 223 | ELECTRICAL ENGINEER<br>MUL GUNA JITHA JITHA<br>S/N 126 | STRUCTURAL ENGINEER<br>MUL GUNA JITHA JITHA<br>S/N 10327 | DRAWING TITLE :<br>NO<br>DESCRIPTION<br>DATE | APPROVALED : | SHEET NO<br>TOTAL | LOCATION :<br>MUL GUNA JITHA JITHA<br>S/N 11066 | PROJECT :<br>MUL GUNA JITHA JITHA<br>S/N 17510 | SANITARY ENGINEER<br>3<br>2<br>1 | (Anwari 2) | DATE : 21-02-2560<br>MUL GUNA JITHA JITHA<br>S/N 276 | SCALE : 1:100 | S-05<br>10 |
|                                     |  |  |  |  |              |                   |   |  |                                  |            |  |               |            |

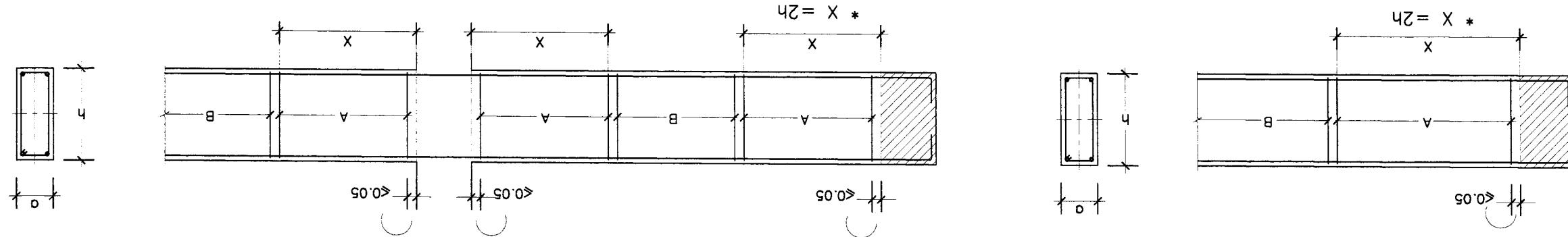


CALC 100 1 (2019-2020)





ASANA Architect Company Limited



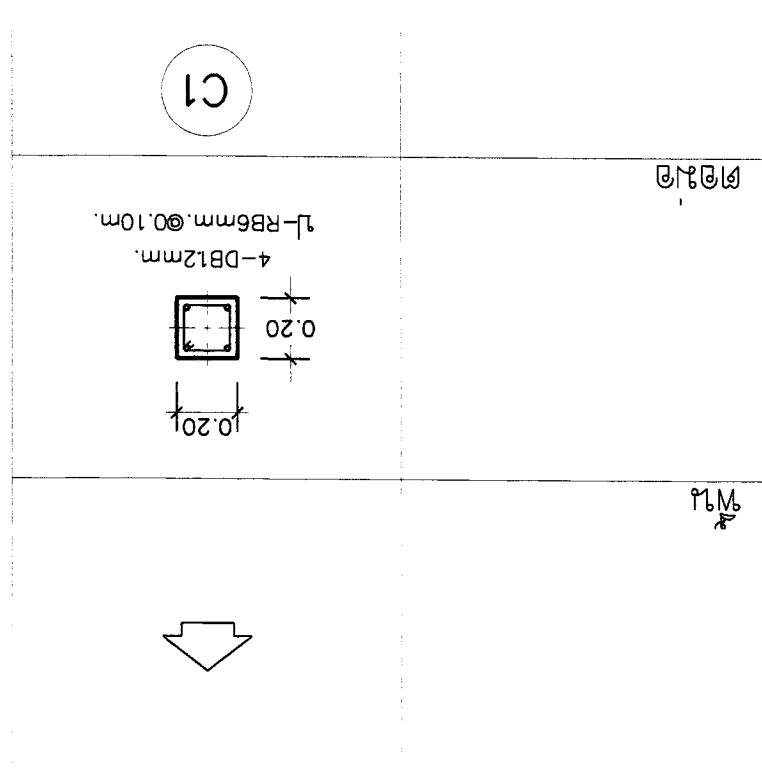
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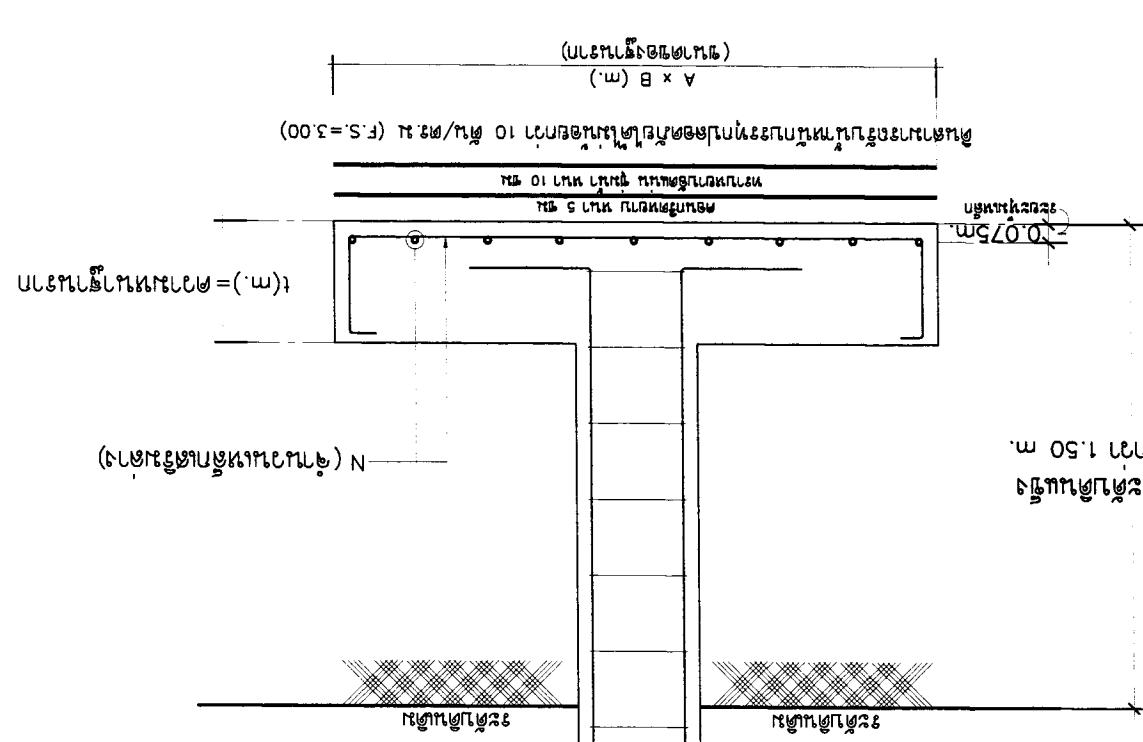
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|---|-----------------|-----------|-------------------|---------------------|---------------|-------------|
| - | -               | -         | -                 | -                   | F1            | 0.90 x 0.90 |
| - | -               | -         | -                 | -                   | F2            | 1.25 x 1.25 |
| - | -               | -         | -                 | -                   | F3            | 1.40 x 1.40 |

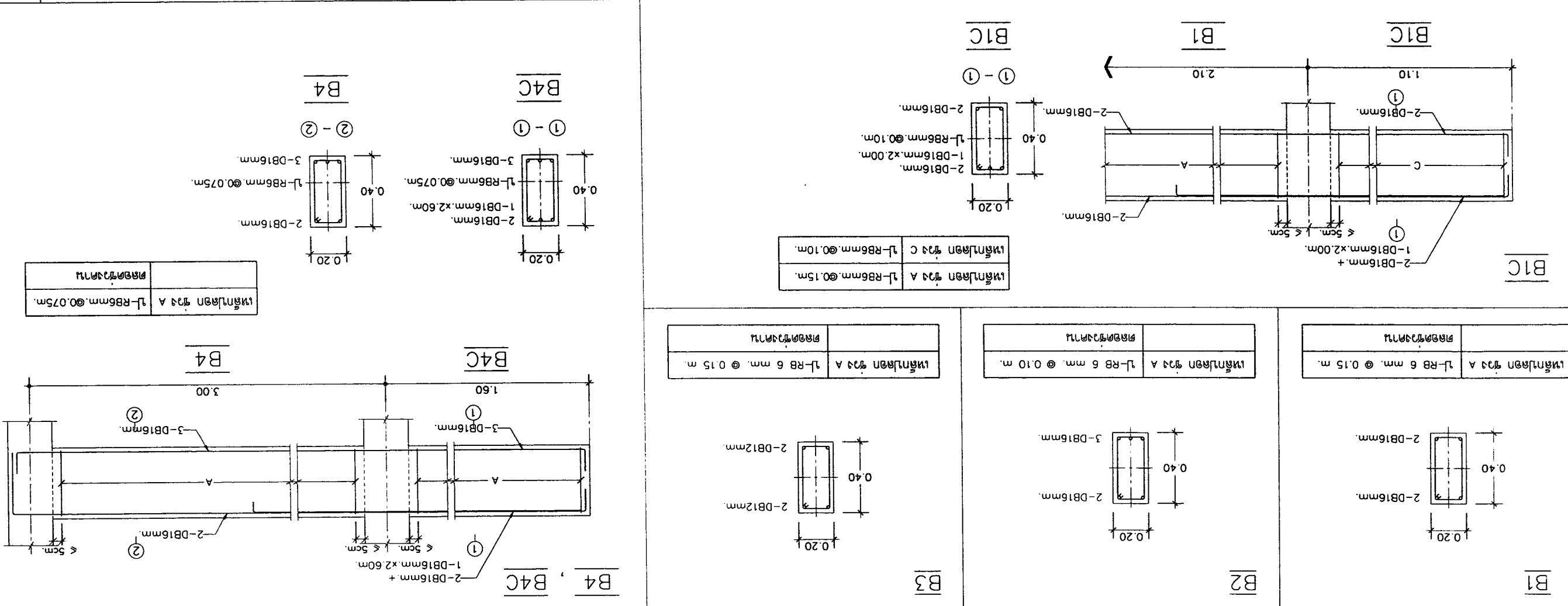
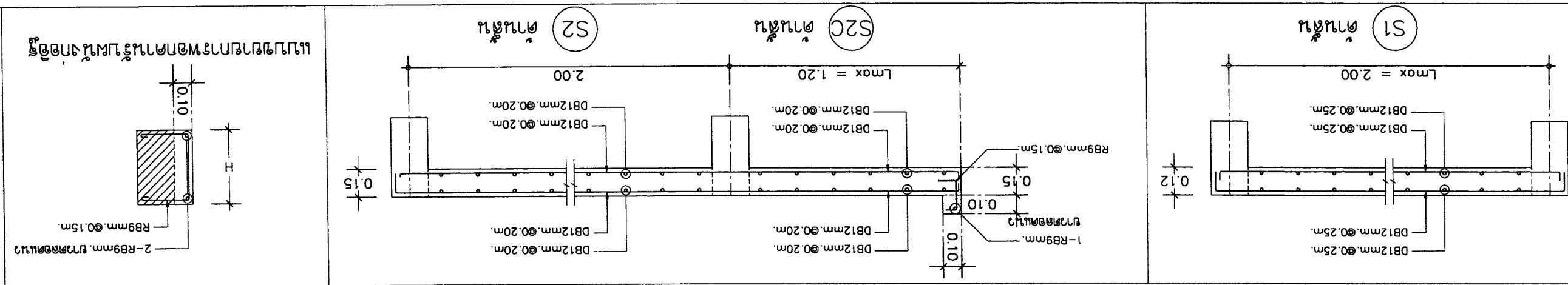


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**CAD**

|                              |  |                               |                                       |                                       |                   |                          |            |
|------------------------------|--|-------------------------------|---------------------------------------|---------------------------------------|-------------------|--------------------------|------------|
| OWNER : 51 نی ۲ ایران اسکندر |  | ARCHITECT : مهندس جمشید احمدی | ELECTRICAL ENGINEER : مهندس علی احمدی | STRUCTURAL ENGINEER : مهندس علی احمدی | REVISION : ۰      | DRAWING TITLE : پروپریتی | APPROVED : |
|                              |  | PROJECT : ملک احمدی           | NO : ۱۰۱۷۵۱۰                          | DESCRIPTION : ملک احمدی               | DATE : ۲۱-۰۲-۲۵۶۰ |                          |            |
|                              |  | LOCATION : ملک احمدی          | 1                                     | 2                                     | 3                 |                          |            |
|                              |  | SHEET NO : ۰۷                 | TOTAL : ۱۰                            |                                       |                   |                          |            |
| SCALE : ۱:۲۵                 |  |                               |                                       |                                       |                   |                          |            |







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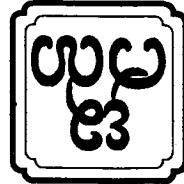
|                            |  |            |           |                     |                     |                   |                 |            |
|----------------------------|--|------------|-----------|---------------------|---------------------|-------------------|-----------------|------------|
| 51 نی ۲ بین‌المللی اقتصادی |  | owner :    | ARCHITECT | STRUCTURAL ENGINEER | ELECTRICAL ENGINEER | REVISION          | DRAWING TITLE : | APPROVED : |
| جذب و توزیع آب و گاز       |  | LOCATION : | NO        | DESCRIPTION         | DATE                |                   | SHEET NO        | TOTAL      |
| جذب و توزیع آب و گاز       |  | 1          | 2         | 3                   | 21-02-2560          | SANITARY ENGINEER | S-09            | 10         |
| جذب و توزیع آب و گاز       |  | 4          | 5         | 6                   | 7                   | 8                 | 9               | 10         |
| جذب و توزیع آب و گاز       |  | 11         | 12        | 13                  | 14                  | 15                | 16              | 17         |
| جذب و توزیع آب و گاز       |  | 18         | 19        | 20                  | 21                  | 22                | 23              | 24         |
| جذب و توزیع آب و گاز       |  | 25         | 26        | 27                  | 28                  | 29                | 30              | 31         |
| جذب و توزیع آب و گاز       |  | 32         | 33        | 34                  | 35                  | 36                | 37              | 38         |
| جذب و توزیع آب و گاز       |  | 39         | 40        | 41                  | 42                  | 43                | 44              | 45         |
| جذب و توزیع آب و گاز       |  | 46         | 47        | 48                  | 49                  | 50                | 51              | 52         |
| جذب و توزیع آب و گاز       |  | 53         | 54        | 55                  | 56                  | 57                | 58              | 59         |
| جذب و توزیع آب و گاز       |  | 60         | 61        | 62                  | 63                  | 64                | 65              | 66         |
| جذب و توزیع آب و گاز       |  | 67         | 68        | 69                  | 70                  | 71                | 72              | 73         |
| جذب و توزیع آب و گاز       |  | 74         | 75        | 76                  | 77                  | 78                | 79              | 80         |
| جذب و توزیع آب و گاز       |  | 81         | 82        | 83                  | 84                  | 85                | 86              | 87         |
| جذب و توزیع آب و گاز       |  | 88         | 89        | 90                  | 91                  | 92                | 93              | 94         |
| جذب و توزیع آب و گاز       |  | 95         | 96        | 97                  | 98                  | 99                | 100             | 101        |
| جذب و توزیع آب و گاز       |  | 102        | 103       | 104                 | 105                 | 106               | 107             | 108        |
| جذب و توزیع آب و گاز       |  | 109        | 110       | 111                 | 112                 | 113               | 114             | 115        |
| جذب و توزیع آب و گاز       |  | 116        | 117       | 118                 | 119                 | 120               | 121             | 122        |
| جذب و توزیع آب و گاز       |  | 123        | 124       | 125                 | 126                 | 127               | 128             | 129        |
| جذب و توزیع آب و گاز       |  | 130        | 131       | 132                 | 133                 | 134               | 135             | 136        |
| جذب و توزیع آب و گاز       |  | 137        | 138       | 139                 | 140                 | 141               | 142             | 143        |
| جذب و توزیع آب و گاز       |  | 144        | 145       | 146                 | 147                 | 148               | 149             | 150        |
| جذب و توزیع آب و گاز       |  | 151        | 152       | 153                 | 154                 | 155               | 156             | 157        |
| جذب و توزیع آب و گاز       |  | 158        | 159       | 160                 | 161                 | 162               | 163             | 164        |
| جذب و توزیع آب و گاز       |  | 165        | 166       | 167                 | 168                 | 169               | 170             | 171        |
| جذب و توزیع آب و گاز       |  | 172        | 173       | 174                 | 175                 | 176               | 177             | 178        |
| جذب و توزیع آب و گاز       |  | 179        | 180       | 181                 | 182                 | 183               | 184             | 185        |
| جذب و توزیع آب و گاز       |  | 186        | 187       | 188                 | 189                 | 190               | 191             | 192        |
| جذب و توزیع آب و گاز       |  | 193        | 194       | 195                 | 196                 | 197               | 198             | 199        |
| جذب و توزیع آب و گاز       |  | 200        | 201       | 202                 | 203                 | 204               | 205             | 206        |
| جذب و توزیع آب و گاز       |  | 207        | 208       | 209                 | 210                 | 211               | 212             | 213        |
| جذب و توزیع آب و گاز       |  | 214        | 215       | 216                 | 217                 | 218               | 219             | 220        |
| جذب و توزیع آب و گاز       |  | 221        | 222       | 223                 | 224                 | 225               | 226             | 227        |
| جذب و توزیع آب و گاز       |  | 228        | 229       | 230                 | 231                 | 232               | 233             | 234        |
| جذب و توزیع آب و گاز       |  | 235        | 236       | 237                 | 238                 | 239               | 240             | 241        |
| جذب و توزیع آب و گاز       |  | 242        | 243       | 244                 | 245                 | 246               | 247             | 248        |
| جذب و توزیع آب و گاز       |  | 249        | 250       | 251                 | 252                 | 253               | 254             | 255        |
| جذب و توزیع آب و گاز       |  | 256        | 257       | 258                 | 259                 | 260               | 261             | 262        |
| جذب و توزیع آب و گاز       |  | 263        | 264       | 265                 | 266                 | 267               | 268             | 269        |
| جذب و توزیع آب و گاز       |  | 270        | 271       | 272                 | 273                 | 274               | 275             | 276        |
| جذب و توزیع آب و گاز       |  | 277        | 278       | 279                 | 280                 | 281               | 282             | 283        |
| جذب و توزیع آب و گاز       |  | 284        | 285       | 286                 | 287                 | 288               | 289             | 290        |
| جذب و توزیع آب و گاز       |  | 291        | 292       | 293                 | 294                 | 295               | 296             | 297        |
| جذب و توزیع آب و گاز       |  | 298        | 299       | 300                 | 301                 | 302               | 303             | 304        |
| جذب و توزیع آب و گاز       |  | 305        | 306       | 307                 | 308                 | 309               | 310             | 311        |
| جذب و توزیع آب و گاز       |  | 312        | 313       | 314                 | 315                 | 316               | 317             | 318        |
| جذب و توزیع آب و گاز       |  | 319        | 320       | 321                 | 322                 | 323               | 324             | 325        |
| جذب و توزیع آب و گاز       |  | 326        | 327       | 328                 | 329                 | 330               | 331             | 332        |
| جذب و توزیع آب و گاز       |  | 333        | 334       | 335                 | 336                 | 337               | 338             | 339        |
| جذب و توزیع آب و گاز       |  | 340        | 341       | 342                 | 343                 | 344               | 345             | 346        |
| جذب و توزیع آب و گاز       |  | 347        | 348       | 349                 | 350                 | 351               | 352             | 353        |
| جذب و توزیع آب و گاز       |  | 354        | 355       | 356                 | 357                 | 358               | 359             | 360        |
| جذب و توزیع آب و گاز       |  | 361        | 362       | 363                 | 364                 | 365               | 366             | 367        |
| جذب و توزیع آب و گاز       |  | 368        | 369       | 370                 | 371                 | 372               | 373             | 374        |
| جذب و توزیع آب و گاز       |  | 375        | 376       | 377                 | 378                 | 379               | 380             | 381        |
| جذب و توزیع آب و گاز       |  | 382        | 383       | 384                 | 385                 | 386               | 387             | 388        |
| جذب و توزیع آب و گاز       |  | 389        | 390       | 391                 | 392                 | 393               | 394             | 395        |
| جذب و توزیع آب و گاز       |  | 396        | 397       | 398                 | 399                 | 400               | 401             | 402        |
| جذب و توزیع آب و گاز       |  | 403        | 404       | 405                 | 406                 | 407               | 408             | 409        |
| جذب و توزیع آب و گاز       |  | 410        | 411       | 412                 | 413                 | 414               | 415             | 416        |
| جذب و توزیع آب و گاز       |  | 417        | 418       | 419                 | 420                 | 421               | 422             | 423        |
| جذب و توزیع آب و گاز       |  | 424        | 425       | 426                 | 427                 | 428               | 429             | 430        |
| جذب و توزیع آب و گاز       |  | 431        | 432       | 433                 | 434                 | 435               | 436             | 437        |
| جذب و توزیع آب و گاز       |  | 438        | 439       | 440                 | 441                 | 442               | 443             | 444        |
| جذب و توزیع آب و گاز       |  | 445        | 446       | 447                 | 448                 | 449               | 450             | 451        |
| جذب و توزیع آب و گاز       |  | 452        | 453       | 454                 | 455                 | 456               | 457             | 458        |
| جذب و توزیع آب و گاز       |  | 459        | 460       | 461                 | 462                 | 463               | 464             | 465        |
| جذب و توزیع آب و گاز       |  | 466        | 467       | 468                 | 469                 | 470               | 471             | 472        |
| جذب و توزیع آب و گاز       |  | 473        | 474       | 475                 | 476                 | 477               | 478             | 479        |
| جذب و توزیع آب و گاز       |  | 480        | 481       | 482                 | 483                 | 484               | 485             | 486        |
| جذب و توزیع آب و گاز       |  | 487        | 488       | 489                 | 490                 | 491               | 492             | 493        |
| جذب و توزیع آب و گاز       |  | 494        | 495       | 496                 | 497                 | 498               | 499             | 500        |
| جذب و توزیع آب و گاز       |  | 501        | 502       | 503                 | 504                 | 505               | 506             | 507        |
| جذب و توزیع آب و گاز       |  | 508        | 509       | 510                 | 511                 | 512               | 513             | 514        |
| جذب و توزیع آب و گاز       |  | 515        | 516       | 517                 | 518                 | 519               | 520             | 521        |
| جذب و توزیع آب و گاز       |  | 522        | 523       | 524                 | 525                 | 526               | 527             | 528        |
| جذب و توزیع آب و گاز       |  | 529        | 530       | 531                 | 532                 | 533               | 534             | 535        |
| جذب و توزیع آب و گاز       |  | 536        | 537       | 538                 | 539                 | 540               | 541             | 542        |
| جذب و توزیع آب و گاز       |  | 543        | 544       | 545                 | 546                 | 547               | 548             | 549        |
| جذب و توزیع آب و گاز       |  | 550        | 551       | 552                 | 553                 | 554               | 555             | 556        |
| جذب و توزیع آب و گاز       |  | 557        | 558       | 559                 | 560                 | 561               | 562             | 563        |
| جذب و توزیع آب و گاز       |  | 564        | 565       | 566                 | 567                 | 568               | 569             | 570        |
| جذب و توزیع آب و گاز       |  | 571        | 572       | 573                 | 574                 | 575               | 576             | 577        |
| جذب و توزیع آب و گاز       |  | 578        | 579       | 580                 | 581                 | 582               | 583             | 584        |
| جذب و توزیع آب و گاز       |  | 585        | 586       | 587                 | 588                 | 589               | 590             | 591        |
| جذب و توزیع آب و گاز       |  | 592        | 593       | 594                 | 595                 | 596               | 597             | 598        |
| جذب و توزیع آب و گاز       |  | 599        | 600       | 601                 | 602                 | 603               | 604             | 605        |
| جذب و توزیع آب و گاز       |  | 606        | 607       | 608                 | 609                 | 610               | 611             | 612        |
| جذب و توزیع آب و گاز       |  | 613        | 614       | 615                 | 616                 | 617               | 618             | 619        |
| جذب و توزیع آب و گاز       |  | 620        | 621       | 622                 | 623                 | 624               | 625             | 626        |
| جذب و توزیع آب و گاز       |  | 627        | 628       | 629                 | 630                 | 631               | 632             | 633        |
| جذب و توزیع آب و گاز       |  | 634        | 635       | 636                 | 637                 | 638               | 63              |            |



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|  |  |          |
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| S-10   |  | 10       |
| TOTAL  |  | SHEET NO |
| APPROVED :   |  |          |
| DRAWING TITLE : DRAMING TITLE : REVISION   |  |          |
| OWNER : ARCHITECT STRUCTURAL ENGINEER ELECTRICAL ENGINEER  |  |          |
| LOCATION : DATE : 21-02-2560   |  |          |
| NAME : SANITARY ENGINEER   |  |          |
| NO : DESCRIPTION DATE  |  |          |
| Nº 10327 10328 10329 10330 10331 10332 10333 10334 10335 10336 10337 10338 10339 10340 10341 10342 10343 10344 10345 10346 10347 10348 10349 10350 10351 10352 10353 10354 10355 10356 10357 10358 10359 10360 10361 10362 10363 10364 10365 10366 10367 10368 10369 10370 10371 10372 10373 10374 10375 10376 10377 10378 10379 10380 10381 10382 10383 10384 10385 10386 10387 10388 10389 10390 10391 10392 10393 10394 10395 10396 10397 10398 10399 10310 10311 10312 10313 10314 10315 10316 10317 10318 10319 10320 10321 10322 10323 10324 10325 10326 10327 10328 10329 10330 10331 10332 10333 10334 10335 10336 10337 10338 10339 103310 103311 103312 103313 103314 103315 103316 103317 103318 103319 103320 103321 103322 103323 103324 103325 103326 103327 103328 103329 103330 103331 103332 103333 103334 103335 103336 103337 103338 103339 1033310 1033311 1033312 1033313 1033314 1033315 1033316 1033317 1033318 1033319 1033320 1033321 1033322 1033323 1033324 1033325 1033326 1033327 1033328 1033329 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# የኢትዮጵያ ሂሳብ (SANITARY SYSTEM)



ପ୍ରାଚୀନ ହିନ୍ଦୁ

4.1 ՃԱՐԱՎՈՐ ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅՈՒՆ - ԽԼՎԱՅԻ

4.2 ԽԼՎԱՅԻ ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅՈՒՆ

4.3 ՉՈԼՈՅՆ ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅՈՒՆ

4.4 ՄԱԼԵԱԲԼ ԻՐՈՆ ՖԻՏԻՆԳ

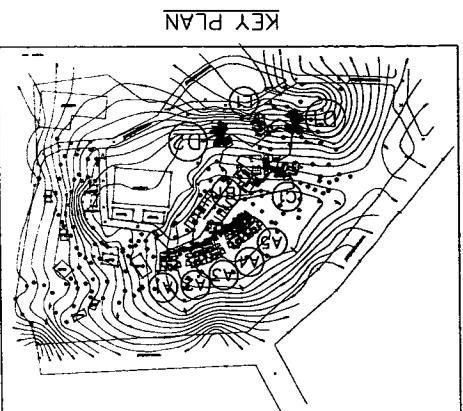
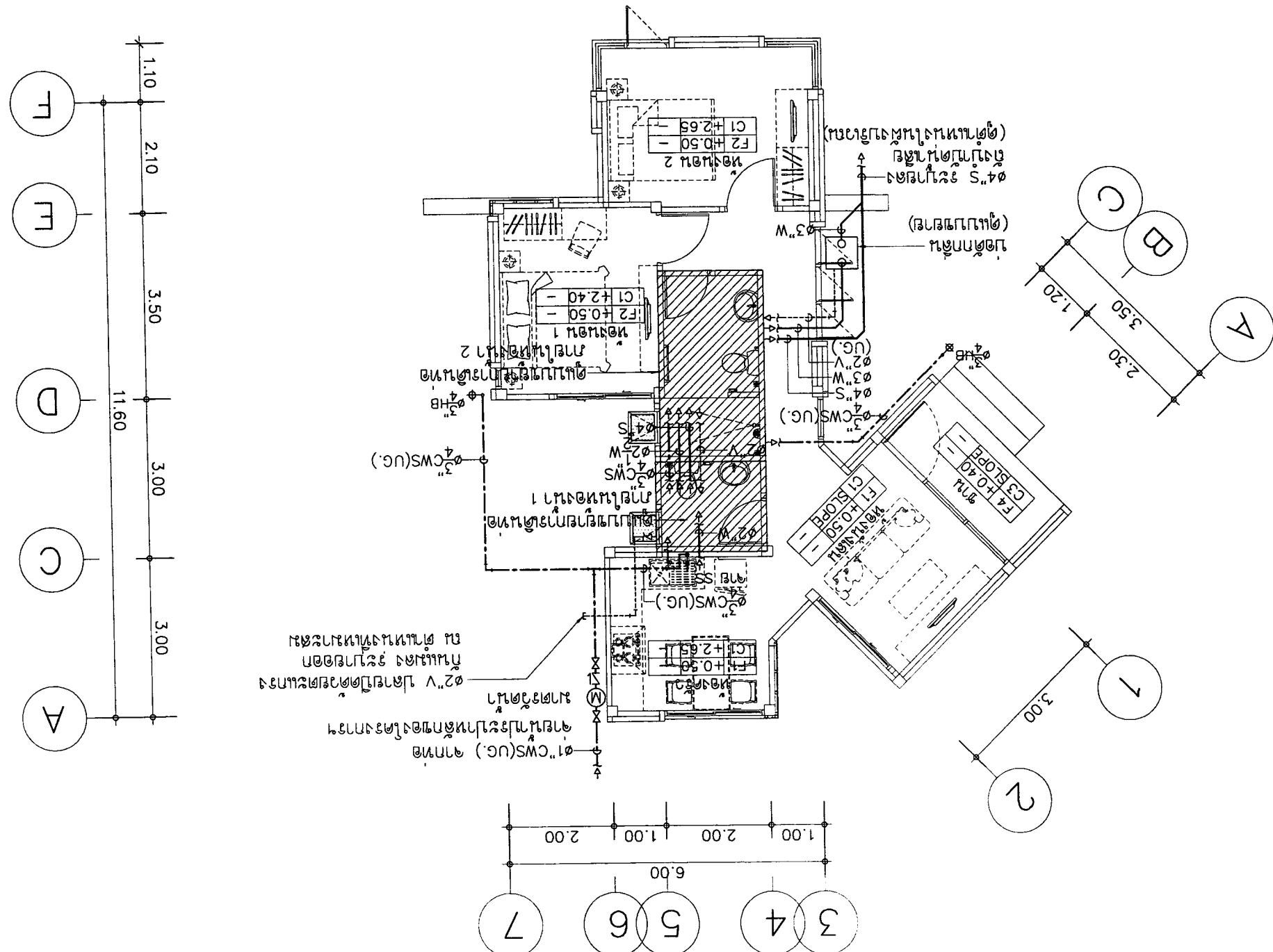
4.5 ՈՆՆԵՐ ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅՈՒՆ

4.6 ՏՈՓ ՎԱԼՎ

4.7 ԳՈՎԱՅԻ ՀԱՅԱՍՏԱՆԻ ՀԱՆՐԱՊԵՏՈՒԹՅՈՒՆ



SCALE 1 : 100

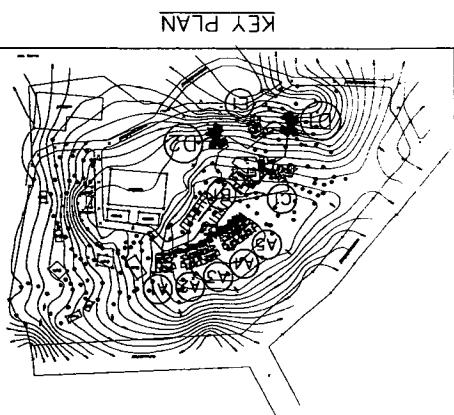
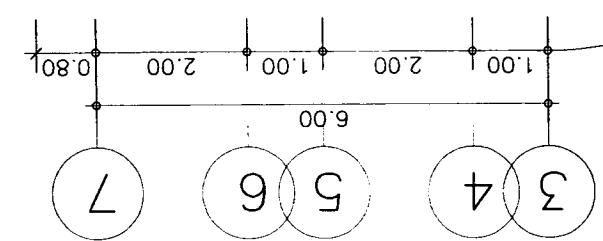
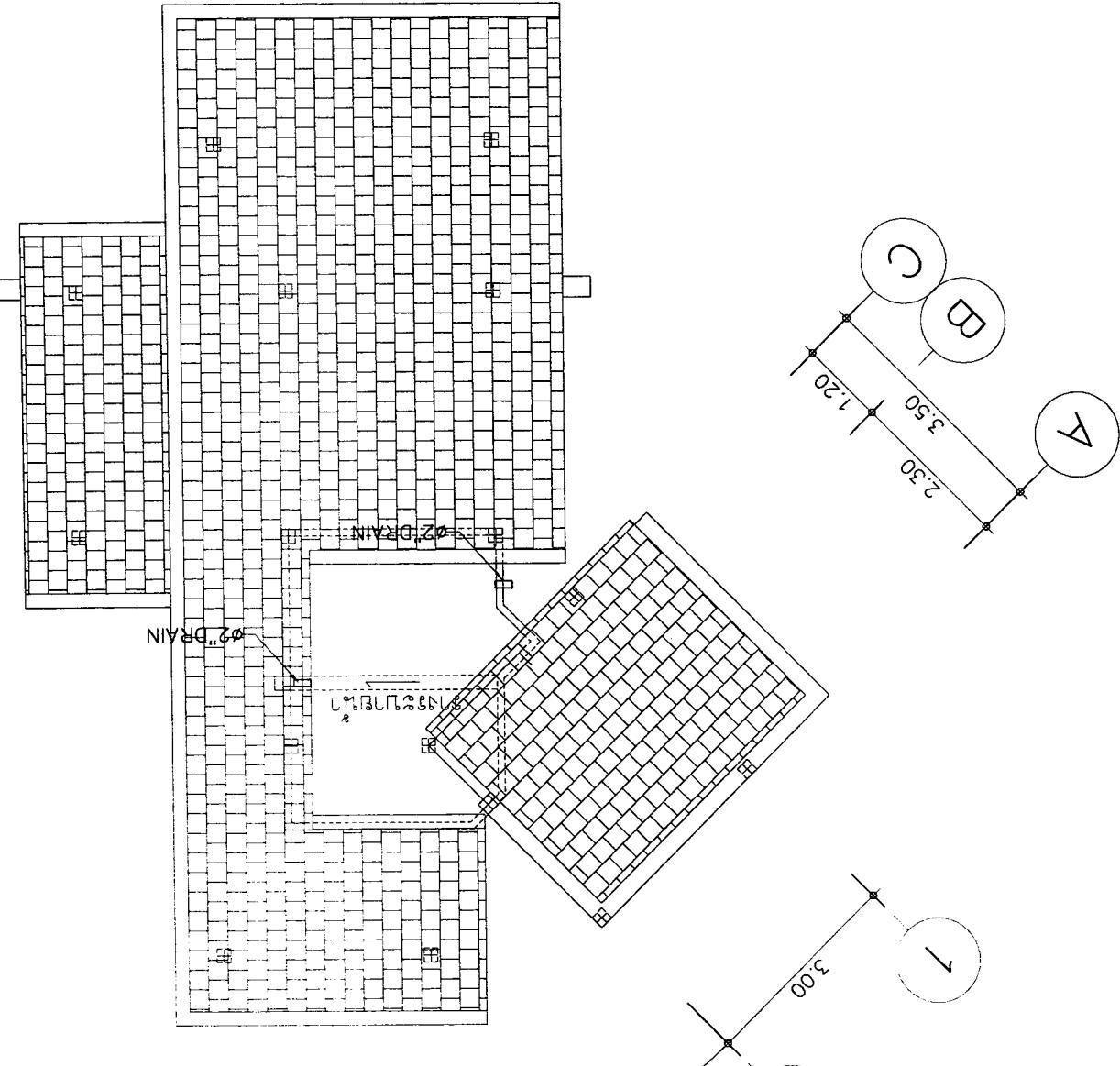
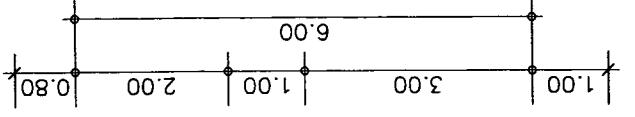


**CCD**

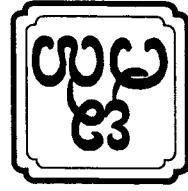
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Jagdishpur Ghatia & Nalanda Jharkhand India

|  |                            |                                  |                                  |               |                            |            |
|--|----------------------------|----------------------------------|----------------------------------|---------------|----------------------------|------------|
| OWNER : 51 नगर पालिका बिहार              | ARCHITECT : असना एसीडी     | STRUCTURAL ENGINEER : असना एसीडी | ELECTRICAL ENGINEER : असना एसीडी | REVISION : १  | DRAWING TITLE : ग्राम पाली | APPROVED : |
| LOCATION : जलालपुर गांधीनगर जिल्हा बिहार | NAME : असना एसीडी          | DATE : १०-०२-२०२०                | DESIGNER : संतारी इंजिनियर       | NO : ३        | SCALE : १:१००              | SN-०५      |
| SHET NO : १                              | DATE : १०-०२-२०२०          | DESIGNER : संतारी इंजिनियर       | NO : ३                           | SCALE : १:१०० | SN-०५                      | ११         |
| TOTAL : १                                | DESIGNER : संतारी इंजिनियर | NO : ३                           | SCALE : १:१००                    | SN-०५         | ११                         |            |



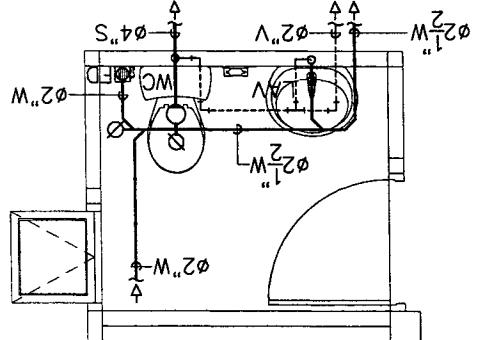
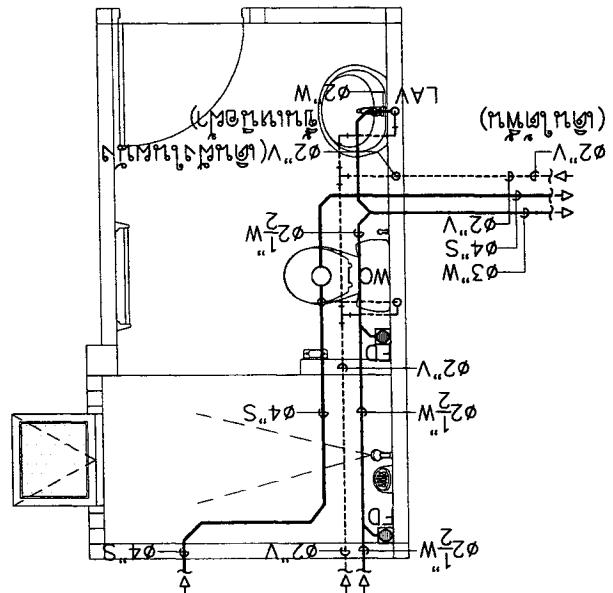
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|---|---|-------------|---|-------------------|
| PROJECT :   | LOCATION :  |             |   |                   |
|   | SHET NO   | TOTAL       |   |                   |
| 51 नं 2 बिहारीनगर<br>गोप्यगढ़ा ग्राम पाली जिल्हा<br>राजस्थान<br>भारत<br>E-mail : osman304@yahoo.com | 11 नं गोप्यगढ़ा ग्राम पाली जिल्हा<br>राजस्थान<br>भारत |             |   |                   |
|   | 1   | 2           | 3   |                   |
| STRUCTURAL ENGINEER<br>ELECTRICAL ENGINEER<br>REVISION<br>DRAWING TITLE :<br>APPROVALDED :          | 11 नं गोप्यगढ़ा ग्राम पाली जिल्हा<br>राजस्थान<br>भारत |             |   |                   |
|   | NO  | DESCRIPTION | DATE  |                   |
| 11 नं गोप्यगढ़ा ग्राम पाली जिल्हा<br>राजस्थान<br>भारत   |   |             | SANITARY ENGINEER                                     |                   |
|   |   |             | 11 नं गोप्यगढ़ा ग्राम पाली जिल्हा<br>राजस्थान<br>भारत | DATE : 21-02-2560 |
|   |   |             | 11 नं गोप्यगढ़ा ग्राम पाली जिल्हा<br>राजस्थान<br>भारत | SCALE : 1:50      |
| SN-06   | 11  |             |   |                   |



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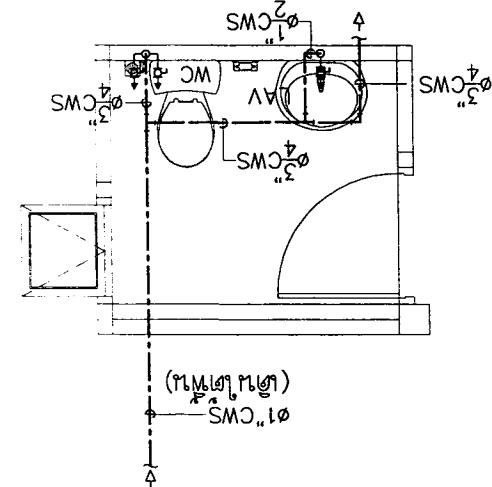
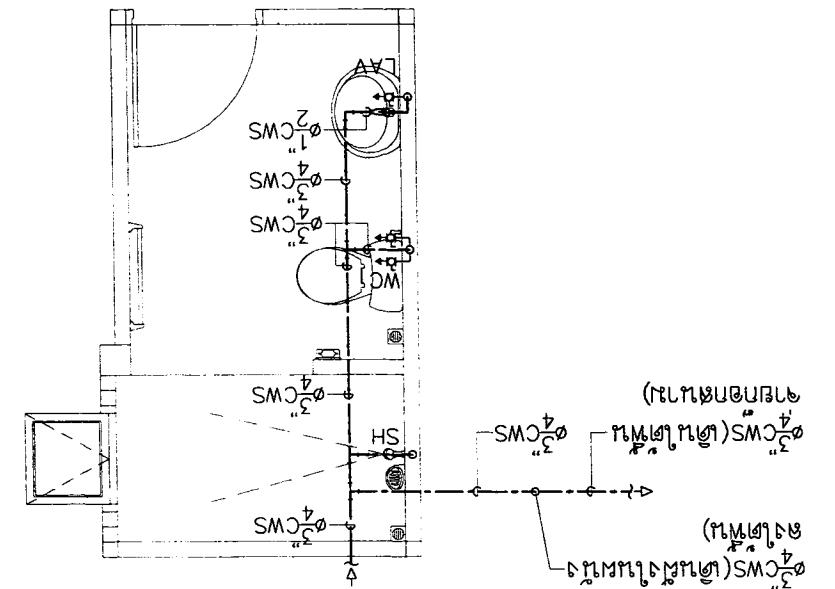
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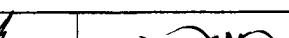
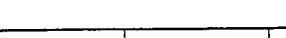
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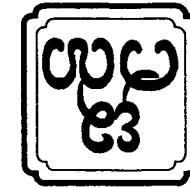


174974321 : 50

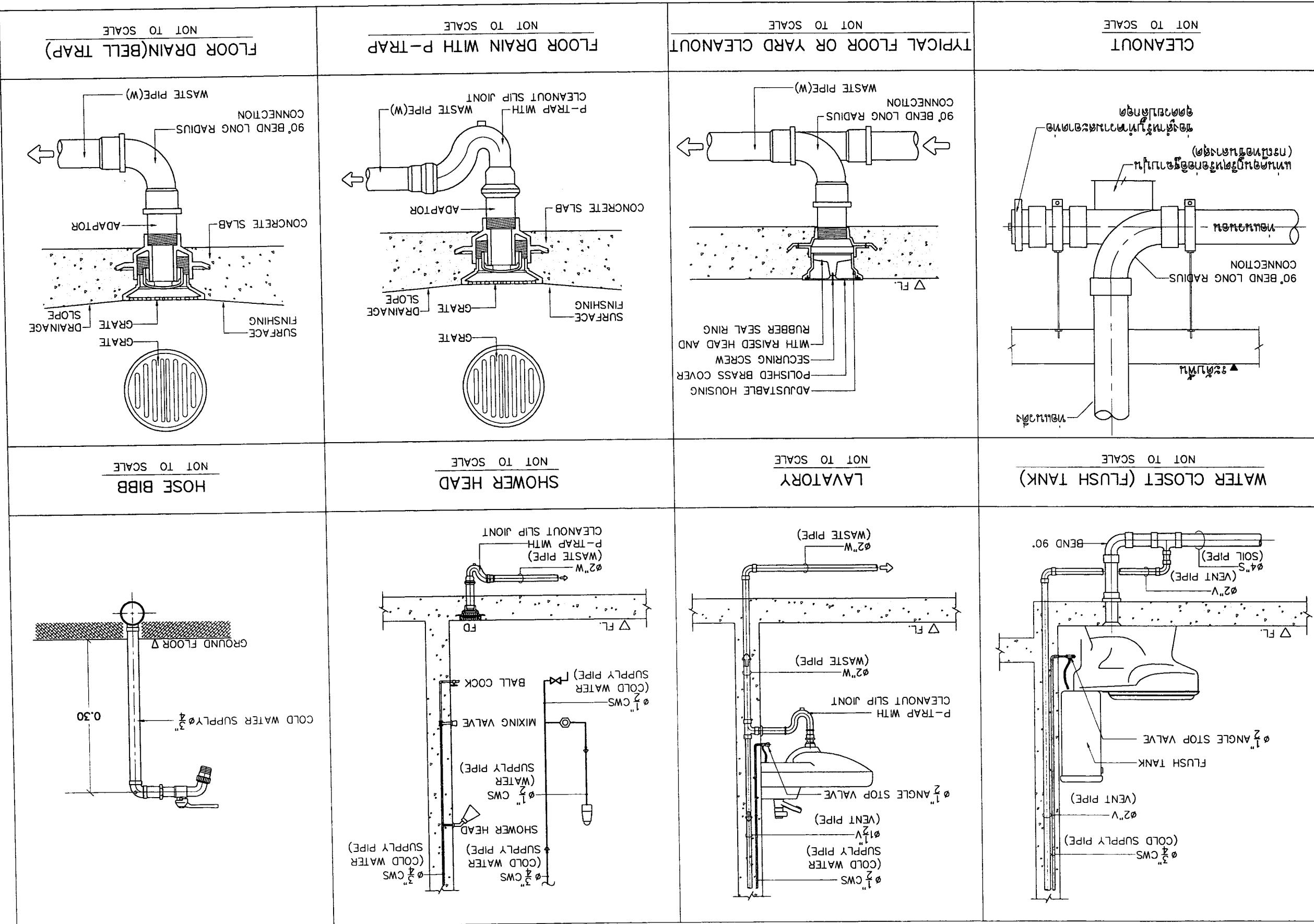
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|   |   |   |   |  |   |              |
|---|---|---|---|--|---|--------------|
| OWNER : 51 Nj 2 Bhutan Bhutan Bhutan Bhutan   | ARCHITECT : 51 Nj 2 Bhutan Bhutan Bhutan Bhutan | STRUCTURAL ENGINEER : 51 Nj 2 Bhutan Bhutan Bhutan Bhutan | ELECTRICAL ENGINEER : 51 Nj 2 Bhutan Bhutan Bhutan Bhutan | REVISION : 51 Nj 2 Bhutan Bhutan Bhutan Bhutan | DRAWING TITLE : 51 Nj 2 Bhutan Bhutan Bhutan Bhutan | APPROVALED : |
| PROJECT : 14 ፳፻፲፭ ዓ.ም ቤት ሰነድ አቤቱታ ቤት ሰነድ አቤቱታ   |   |   |   |  |   |              |
| LOCATION : 14 ፳፻፲፭ ዓ.ም ቤት ሰነድ አቤቱታ ቤት ሰነድ አቤቱታ  |   |   |   |  |   |              |
| SHEET NO : 11   |   |   |   |  |   |              |
| TOTAL :   |   |   |   |  |   |              |
| 11  |   |   |   |  |   |              |
| DRAWING NUMBER : 171136989WAA9191   |   |   |   |  |   |              |
| DRAWING DATE : 21-02-2560   |   |   |   |  |   |              |
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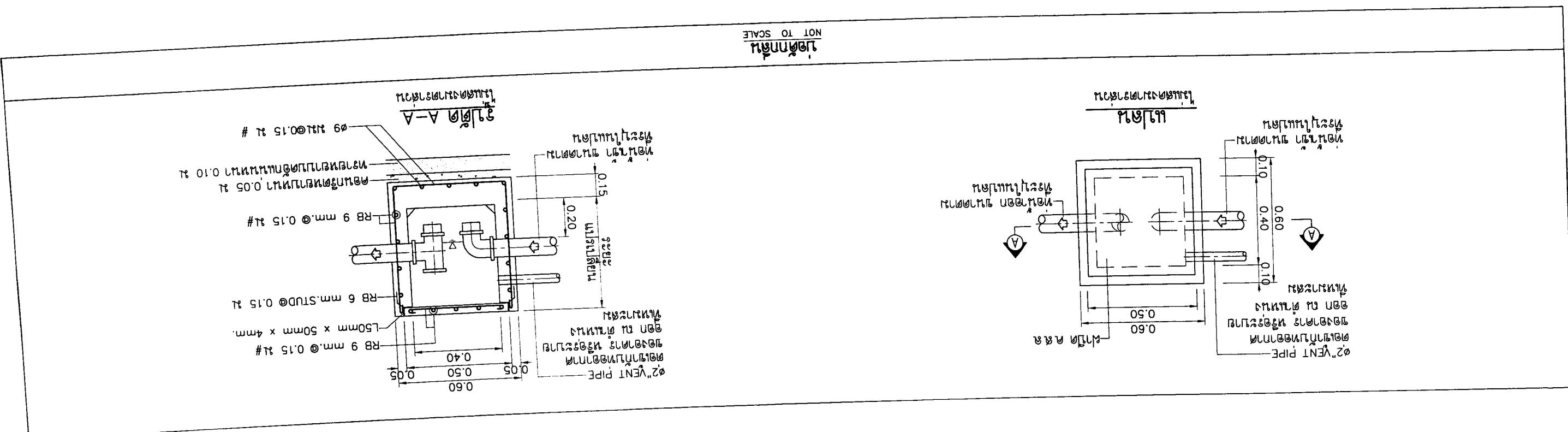


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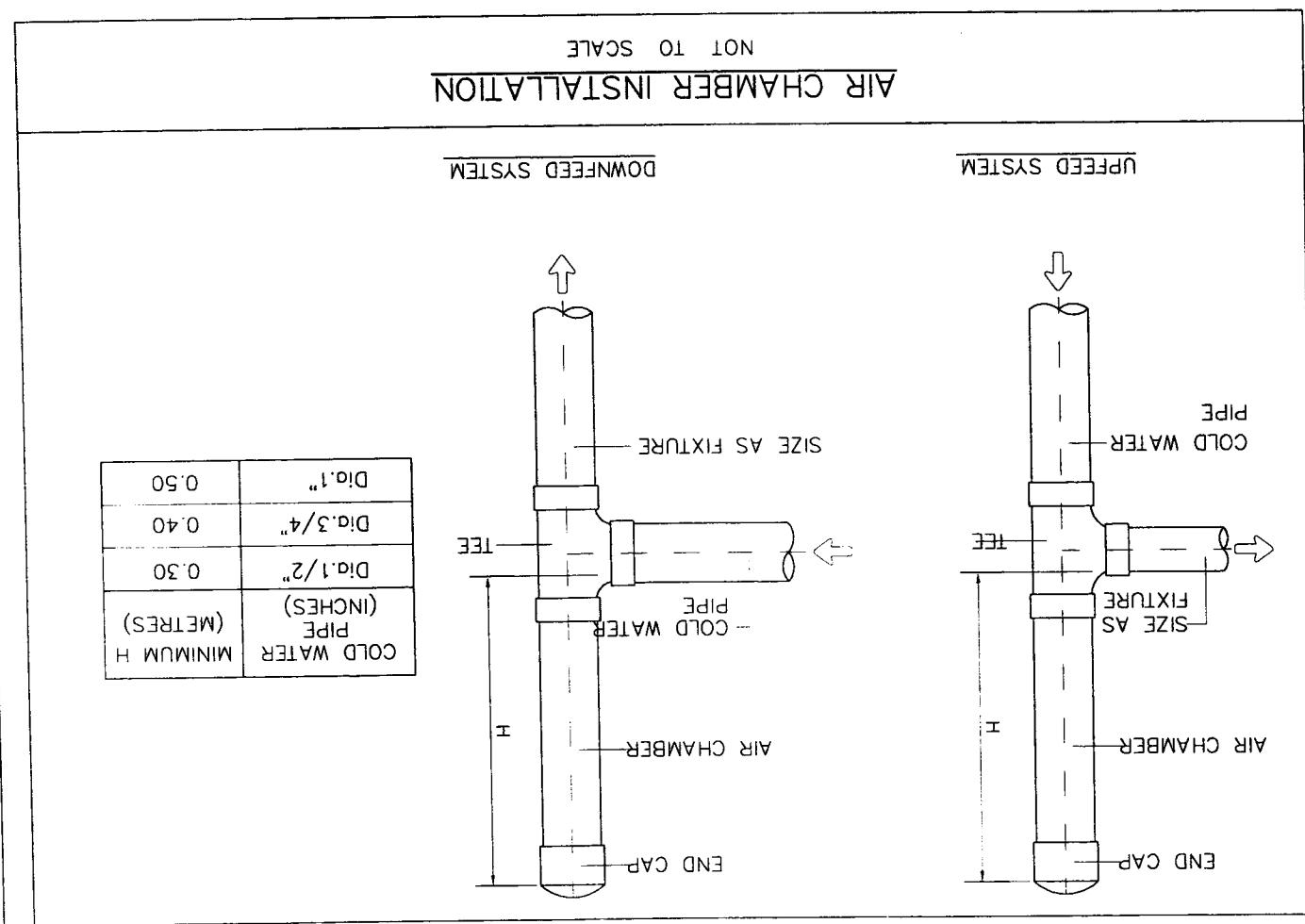
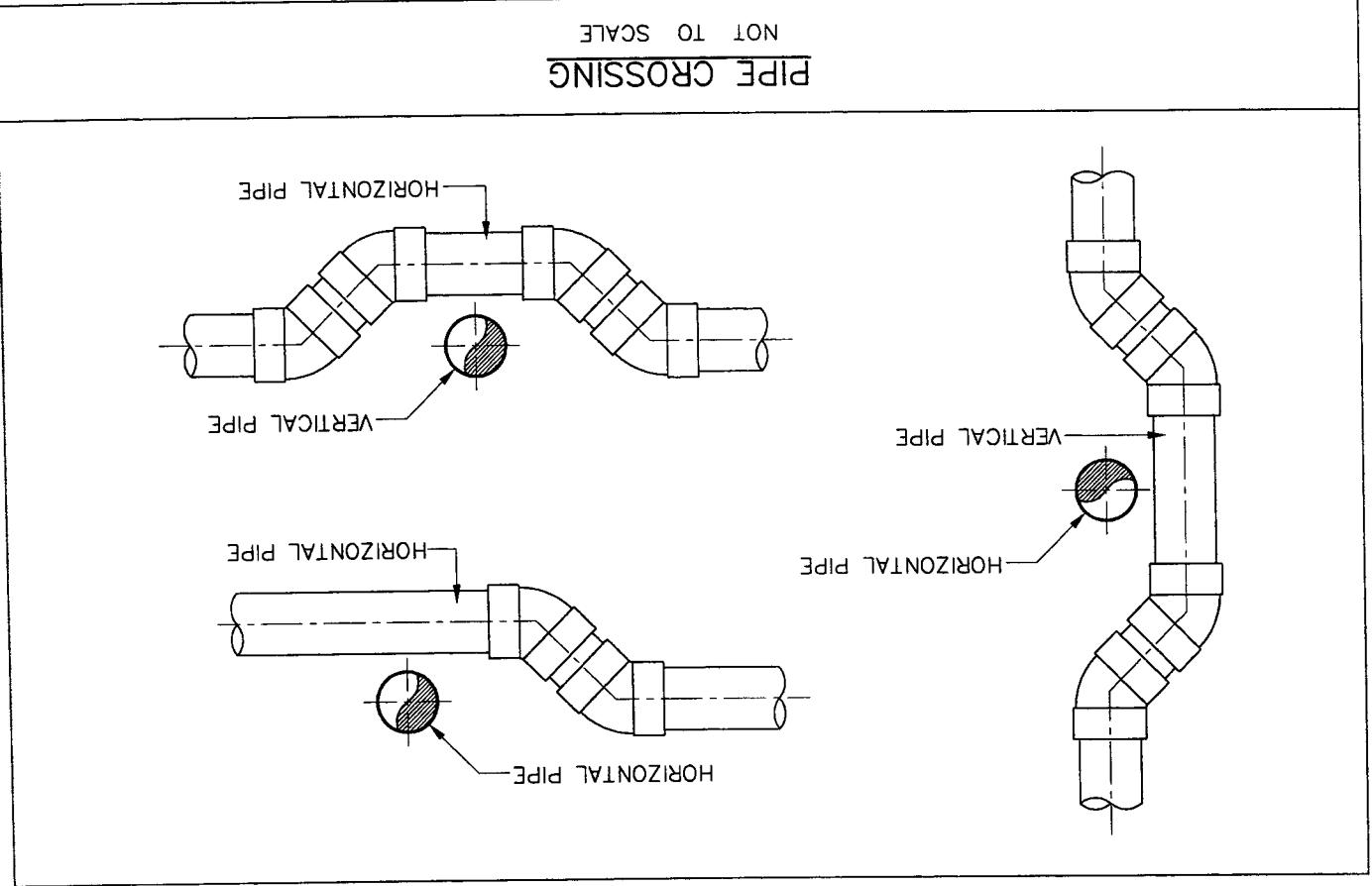
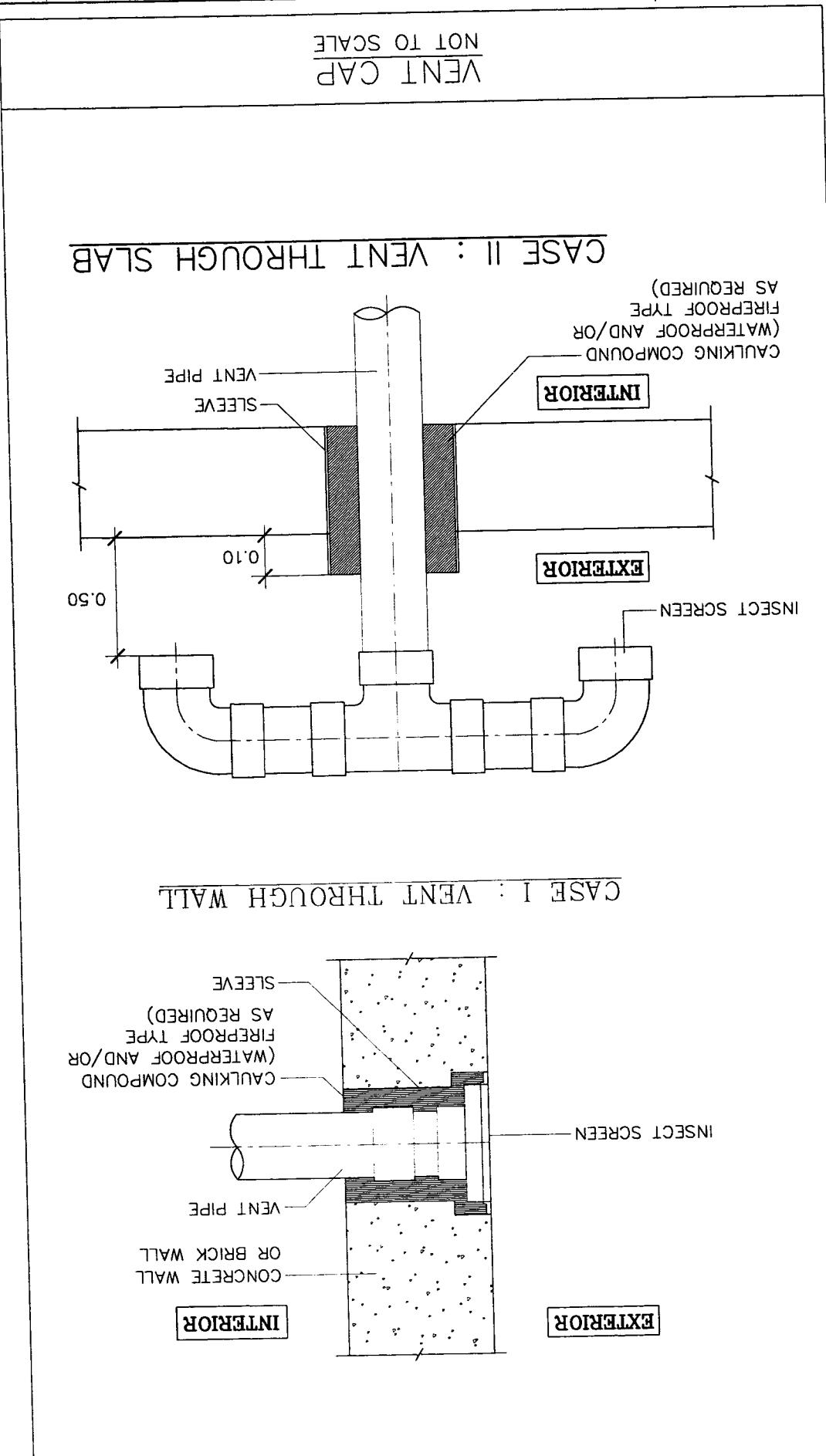


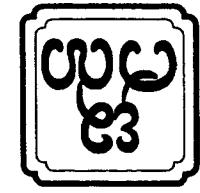
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| PROJECT : J12113-N-EGD-WA-44711                             |  | SHEET NO : SN-09                                     |  |
| OWNER : 51 NY 2 Ariyanangane<br>E-mail : asana304@yahoo.com |  | TOTAL  |  |
| ARCHITECT : Mihir Gunawardena<br>No : 1023                  |  | STRUCTURAL ENGINEER : Mihir Gunawardena<br>No : 1027 |  |
| REVISON : 1   |  | DESCRIPTION : 1                                      |  |
| DRAWING TITLE : VENT CAP                                    |  | SCALE : NTS  |  |
| APPROVED :  |  | DATE : 21-02-2560                                    |  |
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| LOCATION : Mihir Gunawardena<br>No : 1023                   |  | SANTARY ENGINEER : Mihir Gunawardena<br>No : 1026    |  |
| DATE : 21-02-2560   |  | DATE : 21-02-2560                                    |  |
| NOT TO SCALE  |  | NOT TO SCALE   |  |





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**NOT TO SCALE**

**VERTICAL PIPE CLAMP**

**SIDE VIEW**

U-BOLT CLAMP  
CHANNEL STEEL  
FLOOR LEVEL  
& EXPANSION SHIELD  
HEAVY-DUTY NAILS-MOUNTED  
STEEL INSERT OR SCREW

**FRONT VIEW**

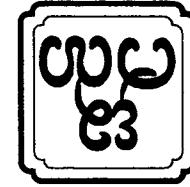
U-BOLT CLAMP  
CHANNEL STEEL  
FLOOR LEVEL  
PIPE

**TOP VIEW**

U-BOLT CLAMP  
ADJUSTABLE NUT  
CHANNEL STEEL  
OR SCREW & EXPANSION SHIELD  
HEAVY-DUTY NAILS-MOUNTED STEEL INSERT

SLAB

Detailed description: The technical drawing illustrates a vertical pipe clamp system. It includes three views: Side View, Front View, and Top View. The Side View shows a vertical steel channel support structure with a U-bolt clamp at the top and a heavy-duty nail or screw at the bottom. The Front View shows two vertical pipes supported by a horizontal channel steel beam with U-bolt clamps. The Top View shows a cross-section of the U-bolt clamps and the adjustable nuts used to secure the channel steel to a concrete slab. Labels provide specific part names and mounting details.



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The diagram illustrates a CLEVIS HANGER system. A vertical steel rod is anchored into a concrete floor at the 'FLOOR LEVEL'. The rod passes through a 'STEEL INSERT OR SCREW' and a 'HEAVY-DUTY NAILS-MOUNTED' plate. At the top, the rod is secured by an 'ADJUSTABLE NUT' and a 'BOLT-NUT'. The top section of the rod is labeled 'STEEL ROD HANGER'. Above the hanger, there are two 'UP-PLATE STEEL' components. The upper one is labeled '4 mm. THICKNESS' and 'Ø9 mm. BOLT-NUT'. The lower one is labeled '4 mm. THICKNESS' and '50 mm. WIDTH'. The entire assembly is labeled 'NOT TO SCALE'.

SCALE TO ROT

A technical line drawing of a clevis hanger system. At the top, a clevis (shaped like a figure-eight) is attached to a vertical steel rod hanger. The hanger passes through a threaded adjustable nut at the top. Below the hanger, a steel insert or screw is partially threaded into a base plate. A spring is positioned between the hanger and the base plate. The base plate rests on a horizontal floor level indicated by a triangle symbol. Labels with leader lines identify the components: 'ADJUSTABLE NUT' points to the top nut, 'STEEL ROD HANGER' points to the vertical rod, 'STEEL INSERT OR SCREW' points to the threaded part in the base, and 'FLOOR LEVEL' points to the base plate.

**TRAPEZE HANGER** **NOT** **TO** **SCALE**

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**STEEL ROD HANGER & U-E**