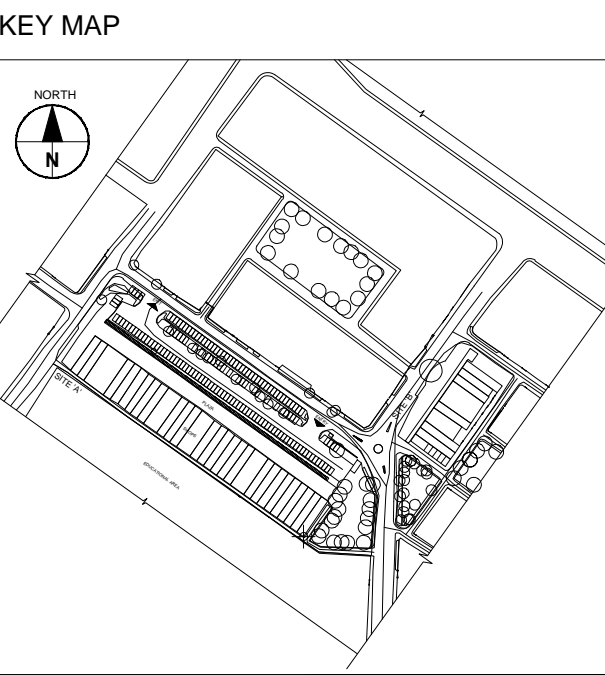


**LUDHIANA SMART CITY**



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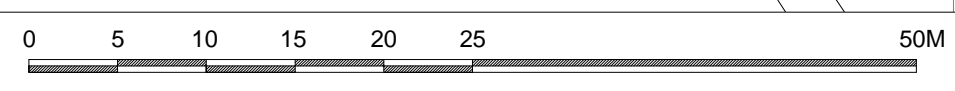
AREA SCHEDULE

TOTAL SITE AREA : 20595 sqm  
 AREA OF SITE 'A' : 16080 sqm  
 AREA OF SITE 'B' : 4515 sqm

- LEGEND
- EXISTING TREE
  - ELECTRICAL POST
  - LAMP POST
  - MANHOLE
  - TRANSFORMER
  - ELECTRIC LINE
  - CAR PARKING
  - ROAD CENTRELINE
  - KERB EDGE
  - COMPOUND WALL
  - GATE
  - FOOT PATH
  - TURF

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

EXISTING SITE PLAN  
SCALE 1:300



CLIENT OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER

DATE: 21/02/2017

DRAWING TITLE: RETROFITTING SCHEME- EXISTING SITE PLAN

SCALE: 1:300

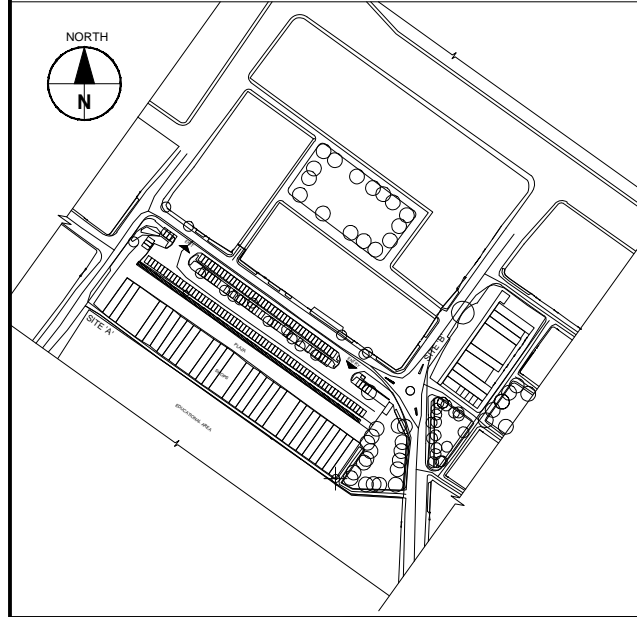
SIZE: A0

DRAWING NUMBER: DELD-LSCL-100-TP-RSN-3001

CONTRACTOR: AECOM India Private Limited



KEY MAP



GENERAL NOTES :-

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**MATERIAL- PARKING PAVERS**

| L            | B      | LxB-Area | AREA(SQM)      |
|--------------|--------|----------|----------------|
| C1           | 107.70 | 5.75     | 619.28         |
| C2           | 107.75 | 5.20     | 560.30         |
| C3           | 182.90 | 5.00     | 914.50         |
| C4           |        | 10.29    | 10.29          |
| C5           | 17.95  | 4.90     | 87.96          |
| C6           |        | 101.18   | 101.18         |
| C7           | 32.35  | 0.85     | 27.50          |
| C8           | 15.10  | 0.40     | 6.04           |
| C9           |        | 50.05    | 50.05          |
| C10          | 24.70  | 0.90     | 22.23          |
| <b>TOTAL</b> |        |          | <b>2399.31</b> |

**MATERIAL- PLAZA PAVERS**

| L            | B      | LxB-Area | AREA(SQM)      |
|--------------|--------|----------|----------------|
| B1           |        | 43.41    | 43.41          |
| B2           | 107.75 | 0.70     | 75.43          |
| B3           |        | 41.51    | 41.51          |
| B4           |        | 42.72    | 42.72          |
| B5           |        | 302.50   | 302.50         |
| B6           | 183.70 | 10.25    | 1882.93        |
| B7           |        | 7.95     | 7.95           |
| B8           | 5.90   | 7.50     | 44.25          |
| B9           | 7.80   | 65.30    | 182.84         |
| B10          | 27.95  | 2.10     | 58.70          |
| B11          |        | 30.62    | 30.62          |
| B12          | 3.45   | 42.80    | 147.66         |
| B13          |        | 55.89    | 55.89          |
| <b>TOTAL</b> |        |          | <b>2916.80</b> |

**MATERIAL- PCC FLOORING**

| L            | B      | LxB-Area | AREA(SQM)      |
|--------------|--------|----------|----------------|
| D1           |        | 227.22   | 227.22         |
| D2           |        | 68.76    | 68.76          |
| D3           |        | 41.30    | 41.30          |
| D4           | 13.75  | 9.35     | 128.56         |
| D5           |        | 61.69    | 61.69          |
| D6           |        | 95.07    | 95.07          |
| D7           |        | 447.36   | 447.36         |
| D8           |        | 149.93   | 149.93         |
| D9           |        | 25.99    | 25.99          |
| D10          |        | 143.51   | 143.51         |
| D11          | 183.15 | 3.90     | 714.29         |
| D12          |        | 221.22   | 221.22         |
| D13          | 10.25  | 8.90     | 91.23          |
| D14          |        | 244.75   | 244.75         |
| D15          | 8.55   | 13.50    | 115.43         |
| D16          |        | 35.96    | 35.96          |
| <b>TOTAL</b> |        |          | <b>2812.25</b> |

**MATERIAL- ASPHALT**

| L            | B      | LxB-Area | AREA(SQM)      |
|--------------|--------|----------|----------------|
| A1           |        | 78.15    | 78.15          |
| A2           | 14.65  | 14.20    | 208.03         |
| A3           |        | 8.51     | 8.51           |
| A4           | 153.40 | 8.95     | 1372.93        |
| A5           |        | 5.65     | 5.65           |
| A6           |        | 16.83    | 16.83          |
| A7           | 113.75 | 2.55     | 290.06         |
| A8           |        | 8.83     | 8.83           |
| A9           |        | 5.32     | 5.32           |
| A10          | 11.45  | 14.20    | 162.59         |
| A11          |        | 71.89    | 71.89          |
| A12          |        | 2.14     | 2.14           |
| A13          | 25.90  | 9.45     | 244.76         |
| A14          |        | 19.33    | 19.33          |
| A15          |        | 3.65     | 3.65           |
| A16          |        | 6.30     | 6.30           |
| A17          |        | 71.65    | 71.65          |
| A18          |        | 95.60    | 95.60          |
| A19          | 24.45  | 6.15     | 150.37         |
| A20          |        | 20.67    | 20.67          |
| A21          |        | 63.43    | 63.43          |
| A22          |        | 73.78    | 73.78          |
| A23          |        | 13.87    | 13.87          |
| <b>TOTAL</b> |        |          | <b>2994.32</b> |

**STRUCTURES**

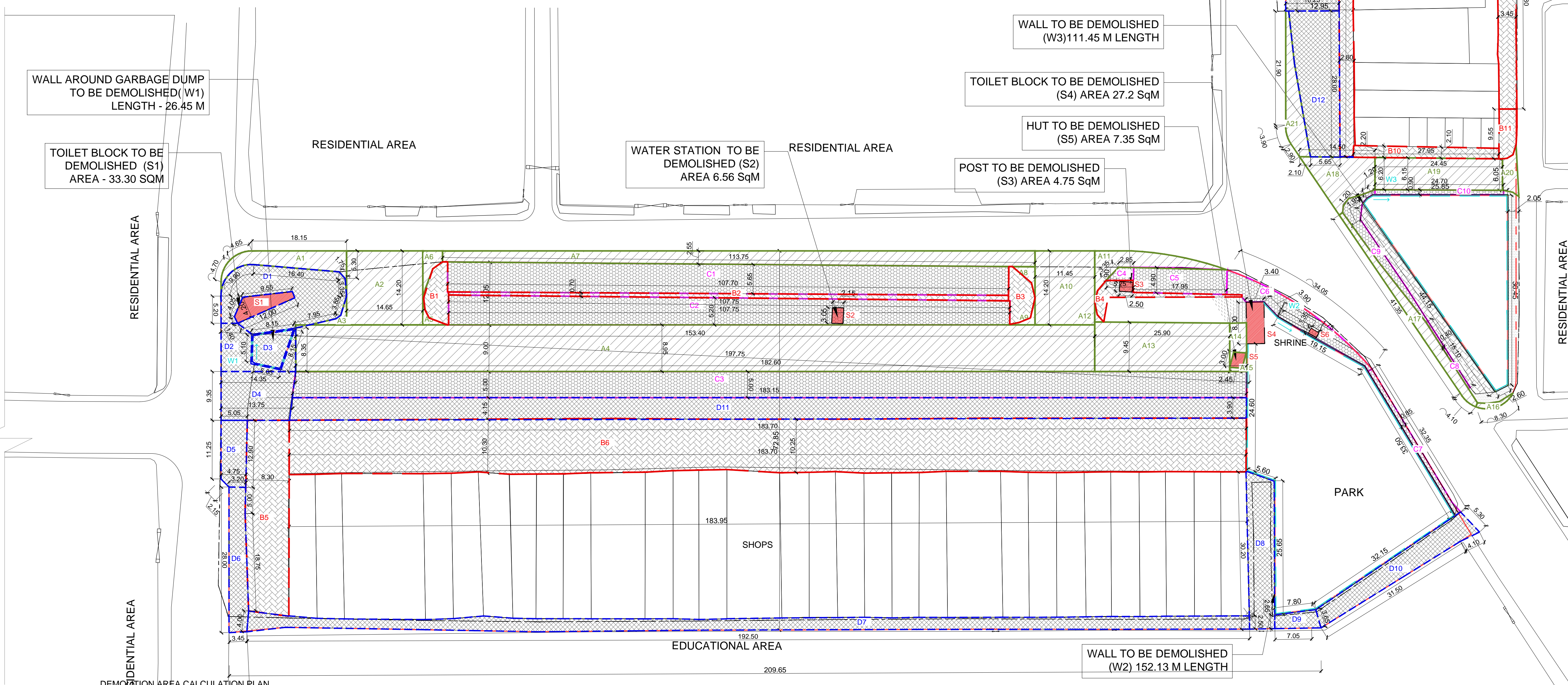
| L            | B    | LxB-Area | AREA(SQM)    |
|--------------|------|----------|--------------|
| S1           |      | 33.30    | 33.30        |
| S2           | 2.15 | 3.05     | 6.56         |
| S3           | 2.50 | 1.90     | 4.75         |
| S4           | 3.40 | 8.00     | 27.20        |
| S5           | 2.45 | 3.00     | 7.35         |
| S6           | 1.75 | 1.35     | 2.36         |
| S7           | 2.90 | 2.35     | 6.82         |
| <b>TOTAL</b> |      |          | <b>88.33</b> |

**DEMOLITION SCHEDULE**

| Sl No. | Item             | Description                                       | Quantity | Unit |
|--------|------------------|---|----------|------|
| 1      | Asphalt          | Surface under roads                               | 2994.32  | SqM  |
| 2      | Built elements   | Existing structures in the proposed design areas. | 88.33    | SqM  |
| 3      | Plaza - pavers   |   | 2916.80  | SqM  |
| 4      | Parking - pavers |   | 2399.31  | SqM  |
| 5      | PCC              | Plain concrete flooring in service lane etc.      | 2812.25  | SqM  |
| 6      | Compound walls   | Compound wall around park and garbage dump        | 328.65   | M    |

**WALLS**

| L            | B     | LxB-Area | AREA(SQM)      |
|--------------|-------|----------|----------------|
| W1           | 5.10  | 8.15     | 26.45          |
| W2           | 3.90  | 19.15    | 74.68          |
| W3           | 25.85 | 36.45    | 942.15         |
| W4           | 7.50  | 24.55    | 183.83         |
| <b>TOTAL</b> |       |          | <b>1247.11</b> |



WALL TO BE DEMOLISHED (W4) 38.40 M LENGTH

WATER STATION TO BE DEMOLISHED (S7) AREA 6.82 SqM

WALL TO BE DEMOLISHED (W3) 111.45 M LENGTH

TOILET BLOCK TO BE DEMOLISHED (S4) AREA 27.2 SqM

HUT TO BE DEMOLISHED (S5) AREA 7.35 SqM

POST TO BE DEMOLISHED (S3) AREA 4.75 SqM

WATER STATION TO BE DEMOLISHED (S2) AREA 6.56 SqM

WALL AROUND GARBAGE DUMP TO BE DEMOLISHED (W1) LENGTH - 26.45 M

TOILET BLOCK TO BE DEMOLISHED (S1) AREA - 33.30 SQM

WALL TO BE DEMOLISHED (W2) 152.13 M LENGTH

DEMOLITION AREA CALCULATION PLAN Scale 1:300

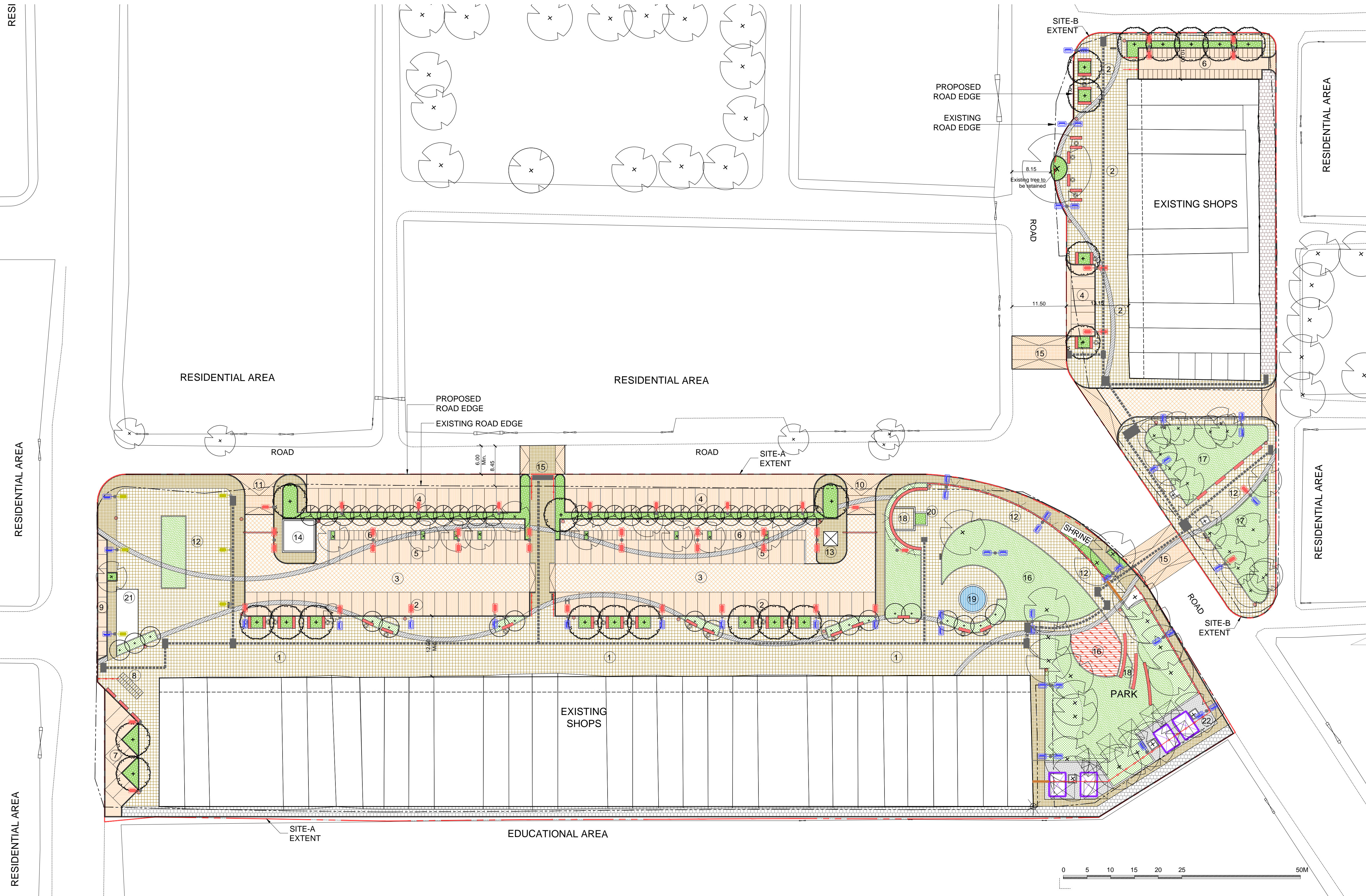
**LEGEND**

|  |                                 |
|--|---------------------------------|
|  | ASPHALT                         |
|  | BUILT ELEMENTS                  |
|  | PAVERS IN EXISTING PLAZA AREA   |
|  | PAVERS IN EXISTING PARKING AREA |
|  | PCC                             |
|  | COMPOUND WALLS                  |

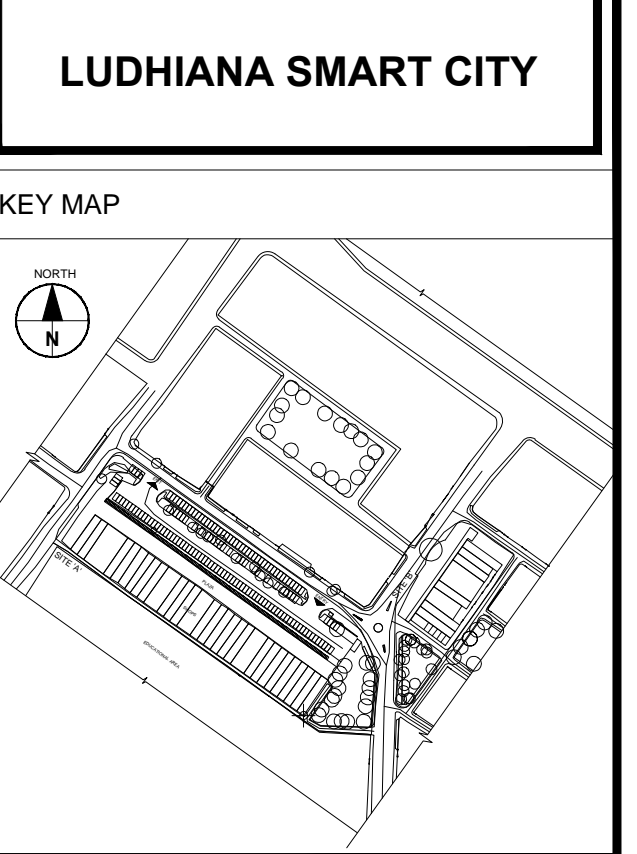
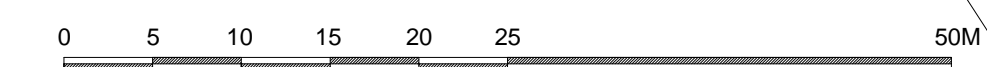
| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

|                |   |
|----------------|---|
| CLIENT/OWNER   | LUDHIANA SMART CITY LIMITED                                 |
| PROJECT        | RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET |
| PACKAGE        | PRELIMINARY DESIGN REPORT                                   |
| PURPOSE        | FOR TENDER  |
| DRAWING TITLE  | RETROFITTING SCHEME- PROPOSED DEMOLITION WORKS              |
| SCALE          | A0  |
| DATE           | 21/02/2017  |
| DRAWING NUMBER | DELD-LSCL-100-TP-RSN-3002                                   |





CONCEPT SITE PLAN-  
SCALE 1:300



**GENERAL NOTES :-**

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**NOTES :-**

1. SURROUNDING ROAD UPGRADATION WORKS AT PEDESTRIAN CROSSINGS IS FOR REFERENCE ONLY. THESE WORKS SHOULD FORM PART OF THIS TENDER AND SHALL BE TAKEN UP SEPARATELY.
2. HOWEVER PLAZA EXPANSION ALONG EXISTING ROAD EDGE IS UNDER SCOPE OF WORK OF THIS TENDER.

**SITE LEGEND**

|    |  |
|----|--|
| 1  | Plaza - Site A   |
| 2  | Plaza - Site B   |
| 3  | Driveway (6M Recommended)                                  |
| 4  | Car Parking (On street) 45Nos.                             |
| 5  | Car Parking (Off street) 87Nos.+ 1 No. Handicapped parking |
| 6  | Two Wheeler Parking (85 Nos Site A+ 52 Nos Site B.)        |
| 7  | Taxi Parking   |
| 8  | Public Bike Sharing (PSB) Stand                            |
| 9  | E-Rick Parking   |
| 10 | Parking Entrance   |
| 11 | Parking Exit   |
| 12 | Vendor zone  |
| 13 | Security & Parking Ticketing Booth                         |
| 14 | Fire Fighting Pump room                                    |
| 15 | Pedestrian Crossing (Table Top)                            |
| 16 | Park A +Kids' Play Area                                    |
| 17 | Park B   |
| 18 | Plant room for water feature                               |
| 19 | Water Feature  |
| 20 | Statue   |
| 21 | Toilet+Water Point+Solar Panel                             |
| 22 | Service area-Compact Sub Station                           |

**AREA SUMMARY**

| S.NO | DESCRIPTION      | SITE A (SQM) | SITE B (SQM) | AREA (SQM)   |
|------|------------------|--------------|--------------|--------------|
| 1    | GROUND COVERAGE  | 5043         | 1757         | 6800         |
| 2    | TOTAL PLAZA AREA | 4007.17      | 1061.17      | 5068.34      |
| 3    | PARKING AREA     | 2130         | 263          | 2393         |
| 4    | ROAD AREA        | 1232.83      | 258.16       | 1490.99      |
| 5    | GREEN AREA       | 1720         | 528.37       | 2248.37      |
| 6    | SERVICE AREA     | 593          | 210          | 803          |
| 7    | SIDEWALKS        | 1347         | 438.3        | 1785.3       |
|      | <b>TOTAL</b>     | <b>16073</b> | <b>4516</b>  | <b>20589</b> |

**RECOMMENDATIONS FOR LANDSCAPE EXTERNAL WORKS**

| MATERIAL LEGEND   | SOFTSCAPE LEGEND   | FURNITURE & SIGNAGE LEGEND   |
|---|--|--|
| <ul style="list-style-type: none"> <li>600x600x80thk Precast Pavers Color-Mid Grey(30%)+Light Grey (70%)</li> <li>200x200x80thk Precast Pavers Color- Red(30%)+Beige(70%)</li> <li>600x600x60thk Precast Pavers Color- Light Grey(70%)+Mid Grey(30%)</li> <li>600x600x60thk Precast Pavers Color- Light Grey(30%)+Mid Grey(70%)</li> <li>400x400x50thk Rough Dressed Grey Kota</li> <li>Rubberized Flooring Minimum thickness 36mm (30mm SBR+6mm EPDM)</li> <li>Granite-Lakha Red-Sand Blasted 500x500x50thk</li> </ul> | <ul style="list-style-type: none"> <li>Existing Trees</li> <li>Tabebuia rosea, 23 Nos.</li> <li>Peltophorum ferrugineum, 27 Nos.</li> <li>Plumeria alba, 18 Nos.</li> <li>Shrub- Clerodendron inerme</li> <li>Groundcover- Rhoeo bicolor</li> <li>Lawn Grass- Axonopus compressus</li> </ul> | <ul style="list-style-type: none"> <li>Digital display boards, 5 Nos</li> <li>Dustbins, 25 Nos.</li> <li>Security Cabin, 1 Nos</li> <li>Boom barrier, 2 Nos</li> <li>Benches 2.7m X 0.55m- 5nos</li> <li>Benches 2.4m X 0.55m-12nos.</li> <li>Benches 1.8m X 0.55m-26nos.</li> <li>Stainless Steel Railing:145 metres</li> <li>MS Sliding Gate: 2nos</li> <li>Tactile Paving: Guiding and warning blocks 540 metres</li> </ul>   |
|   |  | LIGHTING LEGEND  |
|   |  | <ul style="list-style-type: none"> <li>Single Arm -70W LED - 6M Pole -12 nos</li> <li>Double Arm -70W LED - 6M Pole -12 nos</li> <li>Single Arm -35W LED - 6M Pole -2 nos</li> <li>Double Arm -70W+35W LED - 6M Pole -11nos</li> <li>Double Arm -35W + 35W LED - 6M Pole -15 nos</li> <li>Single Arm -70W LED - 8M Pole -3 nos</li> <li>Double Arm -70W + 35W LED - 8M Pole -3 nos</li> <li>Wall lights recessed, 18 Nos</li> <li>Floor lights recessed, 30 Nos</li> </ul> |

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER

DRAWING TITLE: RETROFITTING SCHEME- PROPOSED CONCEPT PLAN

DATE: 21/02/2017

SCALE: 1:300

NO: A0

DRAWING NUMBER: DELD-LSCL-100-TP-RSN-3003

CONTRACT NO: AECOM India Private Limited



AREA CALCULATION-

MATERIAL- 60THK 600X600 PAVERS

| A1           | L      | B       | LxB=AREA | AREA(SQM)      |
|--------------|--------|---------|----------|----------------|
| A1           | 30.85  | 43.00   | 1326.55  | 1135.29        |
| A2           | 27.20  | 11.55   | 314.16   | 314.16         |
| A3           | 142.80 | 12.50   | 1785.00  | 1674.98        |
| A4           |        | 63.76   |          | 63.76          |
| A5           | 30.05  | 5.15    | 154.76   | 144.90         |
| A6           |        | 88.72   |          | 88.72          |
| A7           | 21.70  | 1.80    | 39.06    | 39.06          |
| A8           |        | 1302.00 |          | 1274.55        |
| A9           |        | 466.04  |          | 443.72         |
| A10          | 36.70  | 12.70   | 466.09   | 363.59         |
| A11          |        | 256.29  |          | 256.29         |
| A12          | 18.10  | 11.05   | 200.01   | 171.08         |
| A13          | 28.55  | 1.50    | 42.83    | 42.83          |
| A14          |        | 11.59   |          | 11.59          |
| A15          | 4.50   | 2.40    | 11.59    | 11.59          |
| <b>TOTAL</b> |        |         |          | <b>6036.10</b> |

DEDUCTIONS FROM PAVED AREA

| G1  | L     | B    | LxB=AREA |
|-----|-------|------|----------|
| G1  | 15.30 | 5.30 | 81.09    |
| G2  | 9.20  | 1.80 | 16.56    |
| G3  |       |      | 11.60    |
| G4  |       |      | 11.60    |
| G5  | 2.50  | 2.50 | 6.25     |
| G6  | 5.30  | 1.80 | 9.54     |
| G7  | 3.75  | 1.80 | 6.75     |
| G8  | 5.55  | 1.80 | 9.99     |
| G9  | 6.60  | 1.80 | 11.88    |
| G10 | 10.00 | 4.60 | 46.00    |
| G11 |       |      | 98.03    |
| G12 |       |      | 107.01   |
| G13 |       |      | 30.21    |
| G14 |       |      | 399.61   |
| G15 |       |      | 12.82    |
| G16 |       |      | 42.78    |
| G17 |       |      | 366.00   |
| G18 |       |      | 330.87   |
| G19 |       |      | 258.81   |
| G20 |       |      | 189.95   |
| G21 | 2.30  | 2.30 | 5.29     |
| G22 | 2.00  | 1.80 | 3.60     |
| G23 |       |      | 16.97    |
| G24 | 1.20  | 4.95 | 5.94     |
| G25 | 14.65 | 7.40 | 108.41   |
| G26 |       |      | 22.55    |

MATERIAL- 80THK 200X200 PAVERS

| B1           | L     | B     | LxB=AREA       |
|--------------|-------|-------|----------------|
| B1           | 2.20  | 0.90  | 1.98           |
| B2           | 24.35 | 1.85  | 45.05          |
| B3           | 29.90 | 6.00  | 179.40         |
| B4           | 9.00  | 11.00 | 99.00          |
| B5           | 45.00 | 20.40 | 918.00         |
| B6           | 55.05 | 20.40 | 1123.02        |
| B7           | 6.45  | 11.00 | 70.95          |
| B8           | 29.90 | 6.00  | 179.40         |
| B9           | 45.00 | 8.00  | 360.00         |
| B10          | 52.50 | 8.00  | 420.00         |
| B11          | 15.00 | 6.00  | 90.00          |
| B12          | 41.50 | 6.00  | 249.00         |
| B13          | 6.50  | 26.00 | 169.00         |
| <b>TOTAL</b> |       |       | <b>3904.80</b> |

MATERIAL- GRANITE STONE

| L1           | L     | B    | LxB=AREA      |
|--------------|-------|------|---------------|
| L1           | 2.20  | 0.90 | 1.98          |
| L2           | 19.55 | 0.90 | 17.60         |
| L3           | 24.95 | 0.90 | 22.46         |
| L4           | 20.65 | 0.90 | 18.59         |
| L5           | 5.70  | 0.90 | 5.13          |
| L6           | 28.35 | 0.90 | 25.52         |
| L7           | 23.10 | 0.90 | 20.79         |
| L8           | 1.85  | 0.90 | 1.67          |
| L9           | 4.30  | 0.90 | 3.87          |
| L10          | 21.75 | 0.90 | 19.58         |
| L11          | 19.95 | 0.90 | 17.96         |
| L12          | 4.45  | 0.90 | 4.01          |
| L13          | 3.25  | 0.90 | 2.93          |
| L14          | 24.80 | 0.90 | 22.32         |
| L15          | 33.35 | 0.90 | 30.02         |
| L16          | 19.05 | 0.90 | 17.15         |
| L17          | 41.60 | 0.90 | 37.44         |
| L18          | 5.25  | 0.90 | 4.73          |
| L19          | 10.65 | 0.90 | 9.59          |
| L20          | 43.35 | 0.90 | 39.02         |
| L21          | 6.10  | 0.90 | 5.49          |
| L22          | 36.80 | 0.90 | 33.12         |
| L23          | 9.95  | 0.90 | 8.96          |
| L24          | 12.05 | 0.90 | 10.85         |
| L25          | 18.25 | 0.90 | 16.43         |
| <b>TOTAL</b> |       |      | <b>397.13</b> |

MATERIAL- KOTA STONE

| K1           | L      | B    | LxB=AREA      |
|--------------|--------|------|---------------|
| K1           | 206.00 | 2.05 | 422.30        |
| K2           |        |      | 198.75        |
| K3           | 65.65  | 3.45 | 226.49        |
| <b>TOTAL</b> |        |      | <b>847.54</b> |

PLANTING AREAS

|       |                    |             |
|-------|--------------------|-------------|
| GRASS | G1+G17+G18+G19+G20 | 1226.72 sqm |
|-------|--------------------|-------------|

CLERODENDRONE INERME

|                             |            |
|-----------------------------|------------|
| G2+G3+G4+G5+G11+G12+G15+G16 | 469.41 sqm |
|-----------------------------|------------|

RHOEO BICOLOR

|                     |            |
|---------------------|------------|
| G6+G7+G8+G9+G13+G14 | 467.98 sqm |
|---------------------|------------|

STAINLESS STEEL RAILING

|                                      |            |
|--------------------------------------|------------|
| R1+2xR2+2xR3+R4+R5+R6+R7+R8+R9+2xR10 | 145.20 sqm |
|--------------------------------------|------------|

PARK AREA

|    |            |
|----|------------|
| P1 | 777.77 sqm |
| P2 | 414.33 sqm |
| P3 | 271.70 sqm |
| P4 | 197.15 sqm |

EPDM FLOORING

|    |           |
|----|-----------|
| E1 | 95.00 sqm |
|----|-----------|

TACTILE PAVING

| L1 | L      | B    | LxB=AREA |
|----|--------|------|----------|
| L1 | 540.00 | 0.30 | 162.00   |

STAINLESS STEEL RAILING

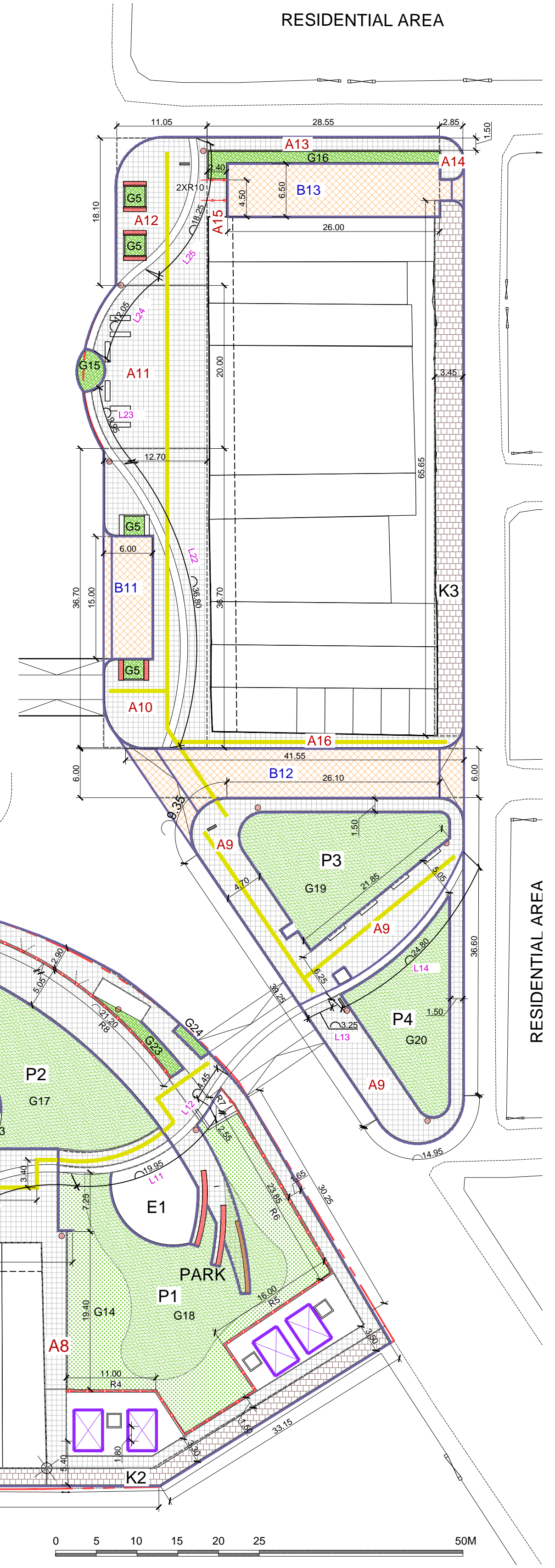
|            |
|------------|
| L45 Metres |
|------------|

KERBSTONE

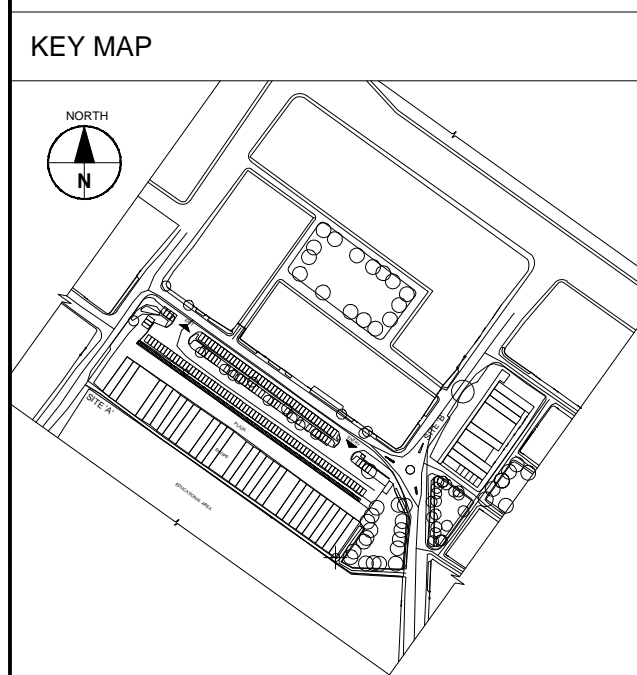
|             |
|-------------|
| 2578 Metres |
|-------------|

LEGEND

- 80thk Precast Concrete Pavers
- 60thk Precast Concrete Pavers
- 50thk Rough dressed Grey Kota
- Rubberized Flooring  
Minimum thickness 36mm (30mm SBR+6mm EPDM)
- Granite-Lakha Red-Sand Blasted  
500x500x50thk
- Digital display boards. 5 Nos
- Dustbins. 25 Nos.
- Security Cabin. 1 Nos
- Boom barrier. 2 Nos
- Benches 2.7m X 0.55m- 5nos
- Benches 2.4m X 0.55m-12nos.
- Benches 1.8m X 0.55m-26nos.
- Stainless Steel Railing:145 metres
- MS Sliding Gate: 2nos
- Tactile Paving: Guiding and warning blocks  
540 metres
- Kerbstone: 2578 metres



LUDHIANA SMART CITY



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**NOTES :-**

- SURROUNDING ROAD UPGRADATION WORKS AT PEDESTRIAN CROSSINGS IS FOR REFERENCE ONLY. THESE WORKS DOWNT FORM PART OF THIS TENDER AND SHALL BE TAKEN UP SEPARATELY.
- HOWEVER PLAZA EXPANSION ALONG EXISTING ROAD EDGE IS UNDER SCOPE OF WORK OF THIS TENDER.

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER

DRAWING TITLE: RETROFITTING SCHEME- AREA TAKE OFF SHEET

DATE: 21/02/2017

SCALE: 1:300

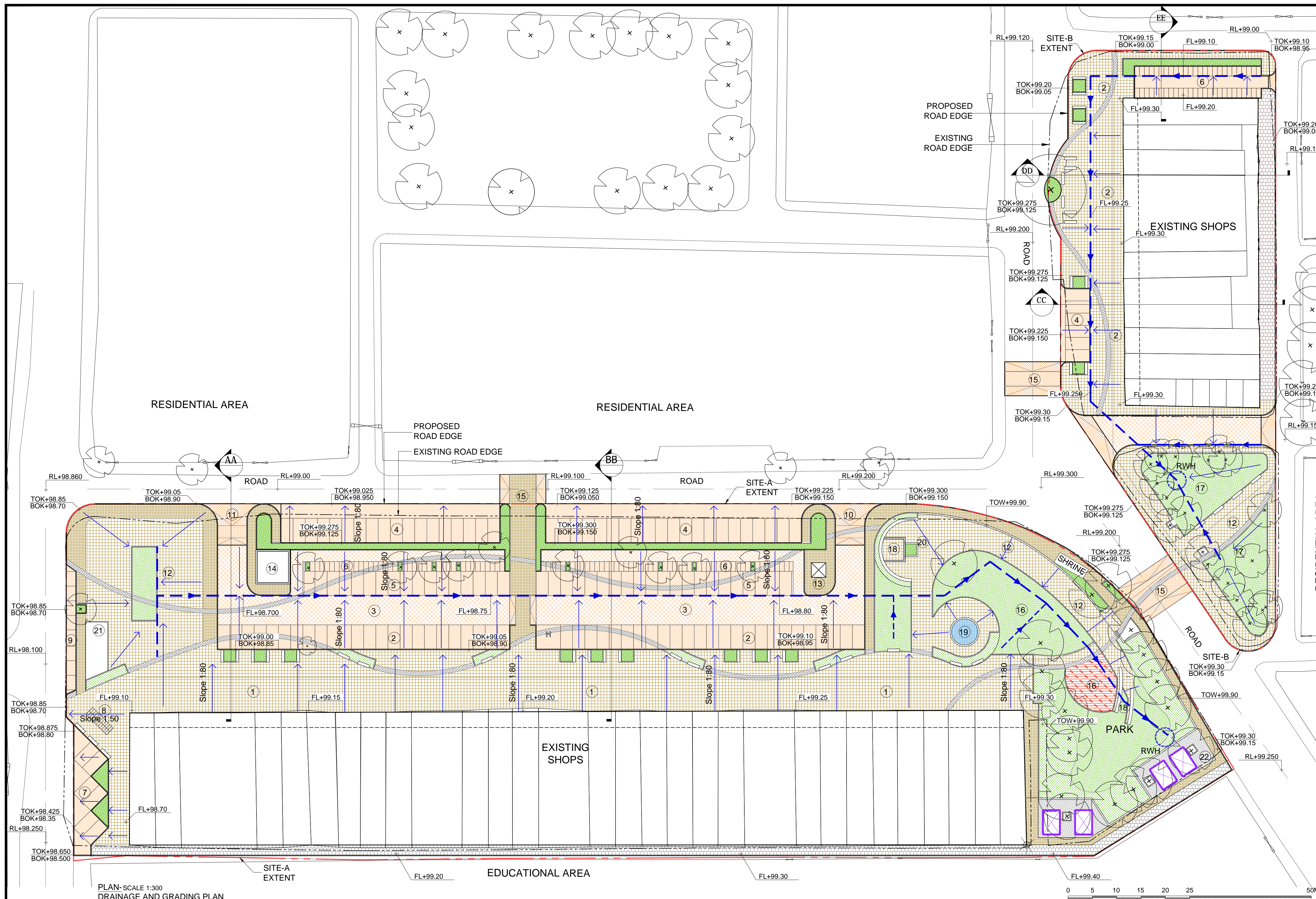
SIZE: A0

DRAWING NUMBER: DELD-LSCL-100-TP-RSN-3003A

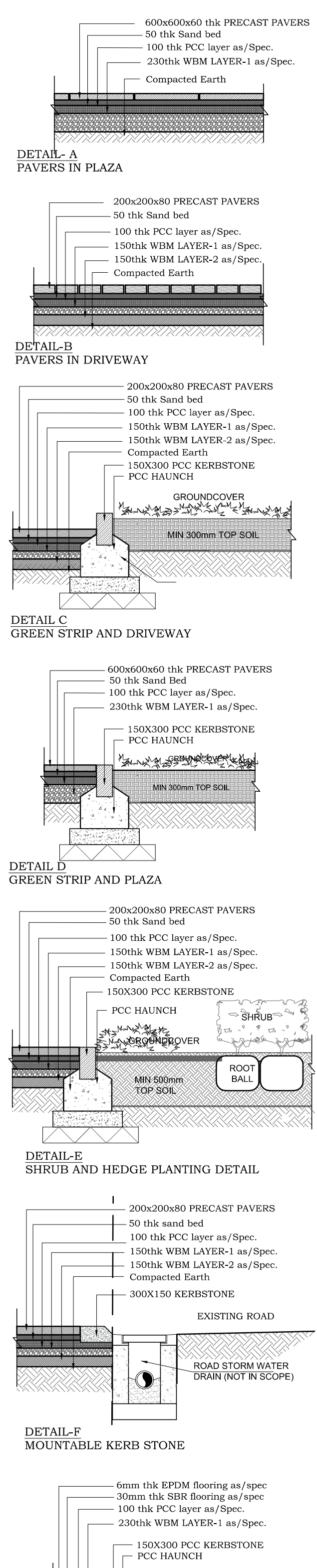
CONTRACTOR: AECOM

AECOM India Private Limited

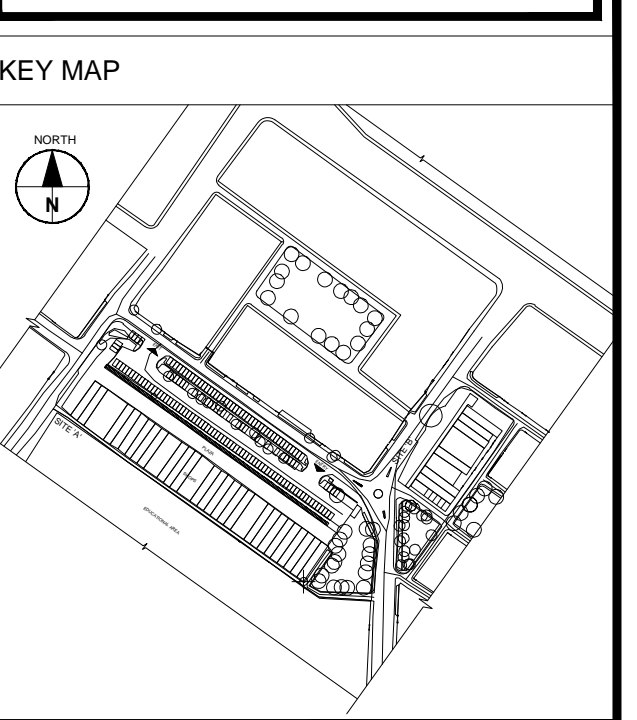




**TYPICAL DETAILS SCALE 1:25**  
HARDSCAPE AND SOFTSCAPE



**LUDHIANA SMART CITY**



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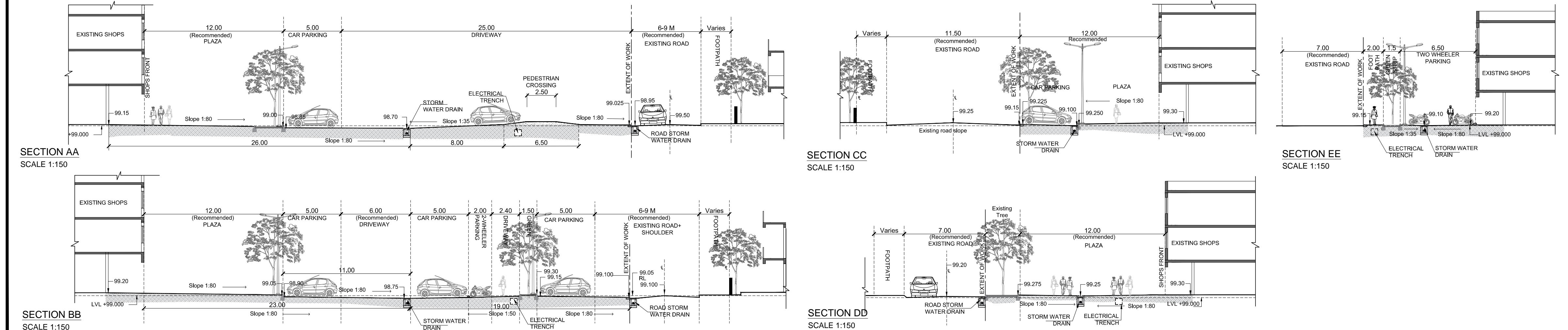
**SITE LEGEND**

- Plaza - Site A
- Plaza- Site B
- Driveway (6M Recommended)
- Car Parking (On street) 45Nos.
- Car Parking (Off street) 87Nos.+ 1 No. Handicapped parking
- Two Wheeler Parking (85 Nos Site A+ 52 Nos Site B.)
- Taxi Parking
- Public Bike Sharing (PSB) Stand
- E-Rick Parking
- Parking Entrance
- Parking Exit
- Vendor zone
- Security & Parking Ticketing Booth
- Fire Fighting Pump room
- Pedestrian Crossing (Table Top)
- Park A +Kids' Play Area
- Park B
- Plant room for water feature
- Water Feature
- Statue
- Toilet+Water Point+Solar Panel
- Service area-Compact Sub Station

**LEGEND**

|  |                                 |
|--|---------------------------------|
|  | TOP OF KERBSTONE LEVEL          |
|  | BOTTOM OF KERBSTONE LEVEL       |
|  | FINISHED FLOOR LEVEL            |
|  | TOP OF WALL LEVEL               |
|  | RAIN WATER HARVESTING STRUCTURE |
|  | STORM WATER DRAIN               |

PLAN-SCALE 1:300  
DRAINAGE AND GRADING PLAN



| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER

DRAWING TITLE: RETROFITTING SCHEME- PROPOSED SITE GRADING, SECTIONS AND TYPICAL DETAILS

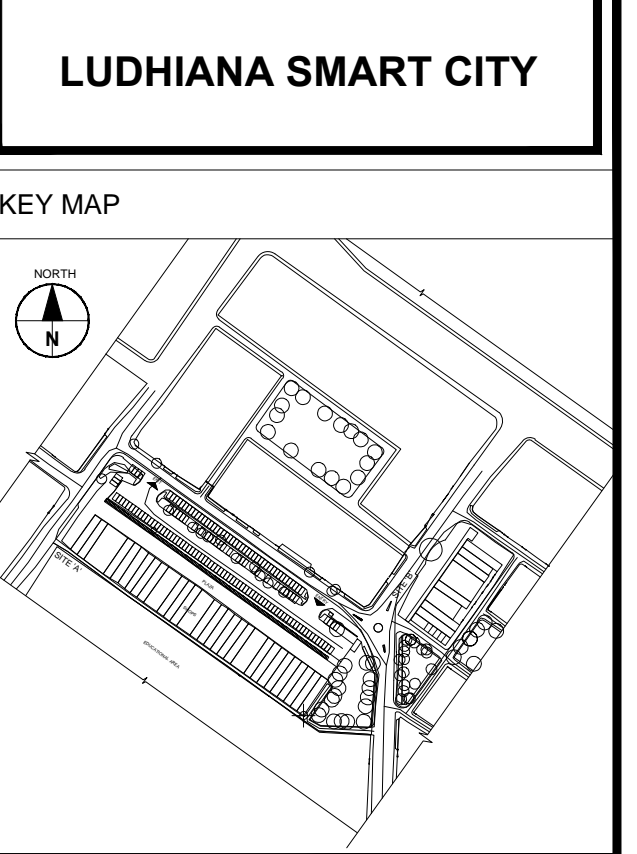
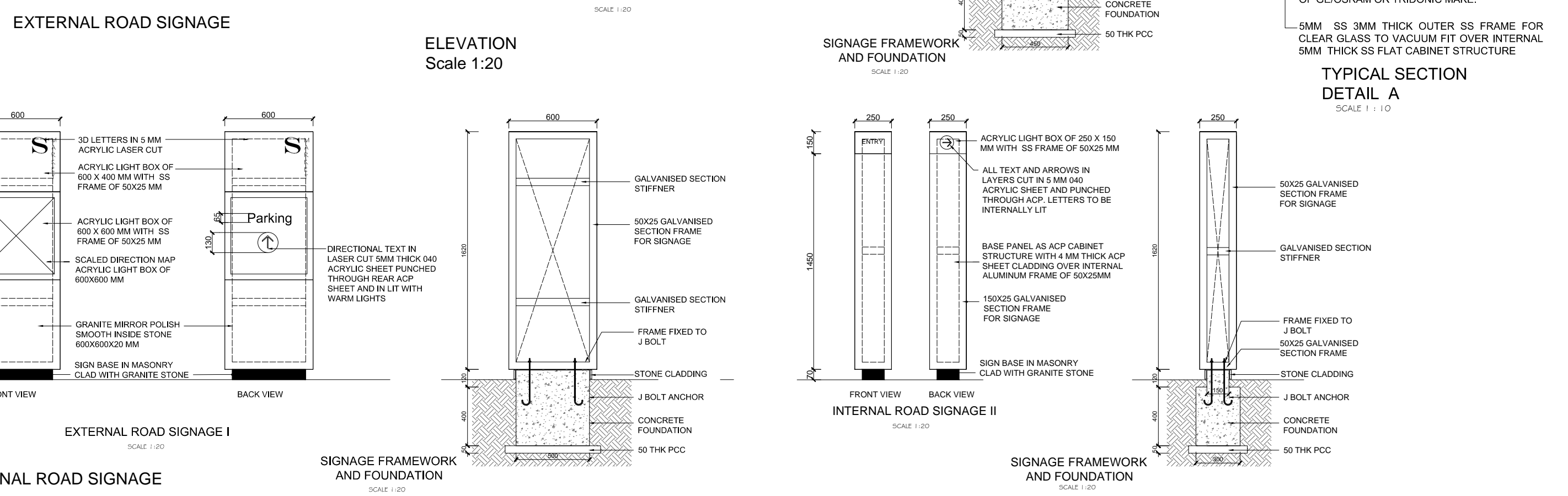
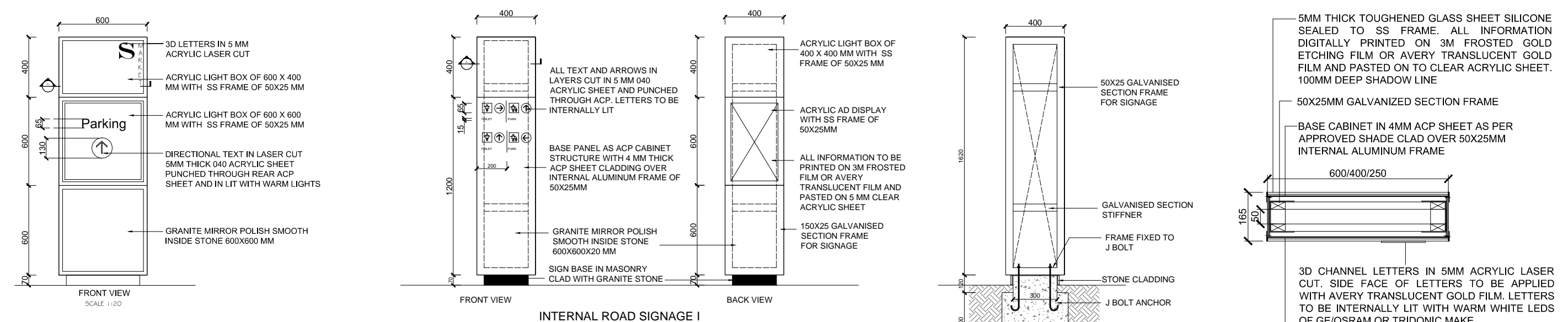
SCALE: A0

DATE: 21.02.2017

DRAWING NUMBER: DELD-LSCL-100-TP-RSN-3004

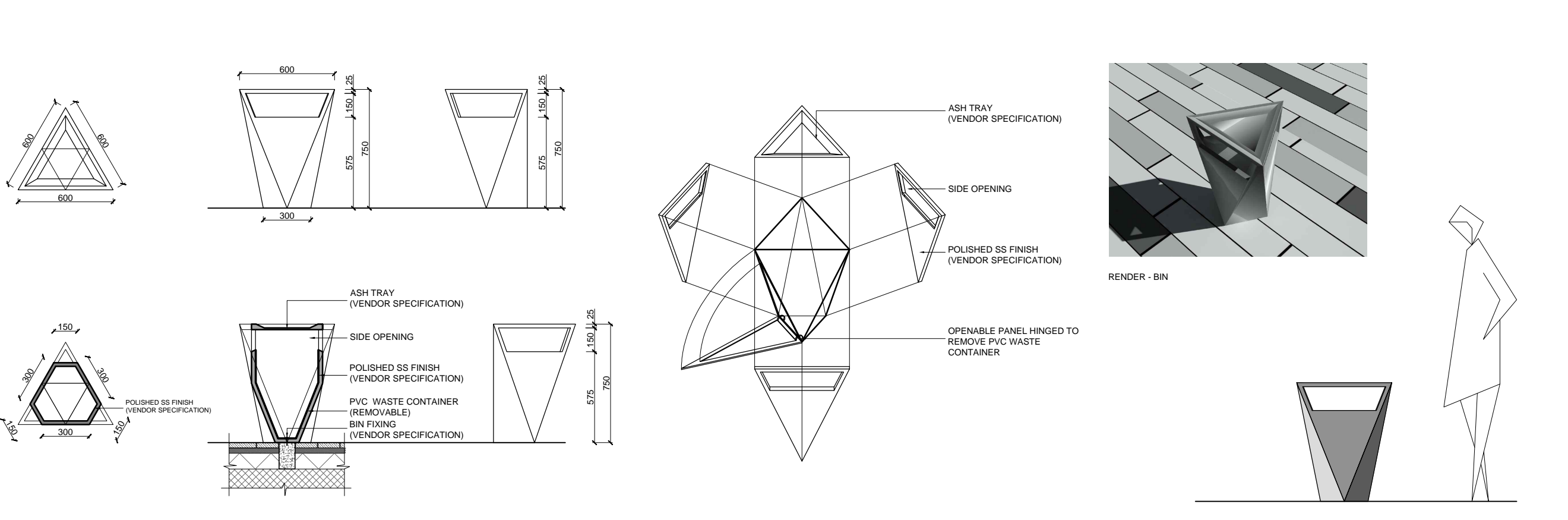
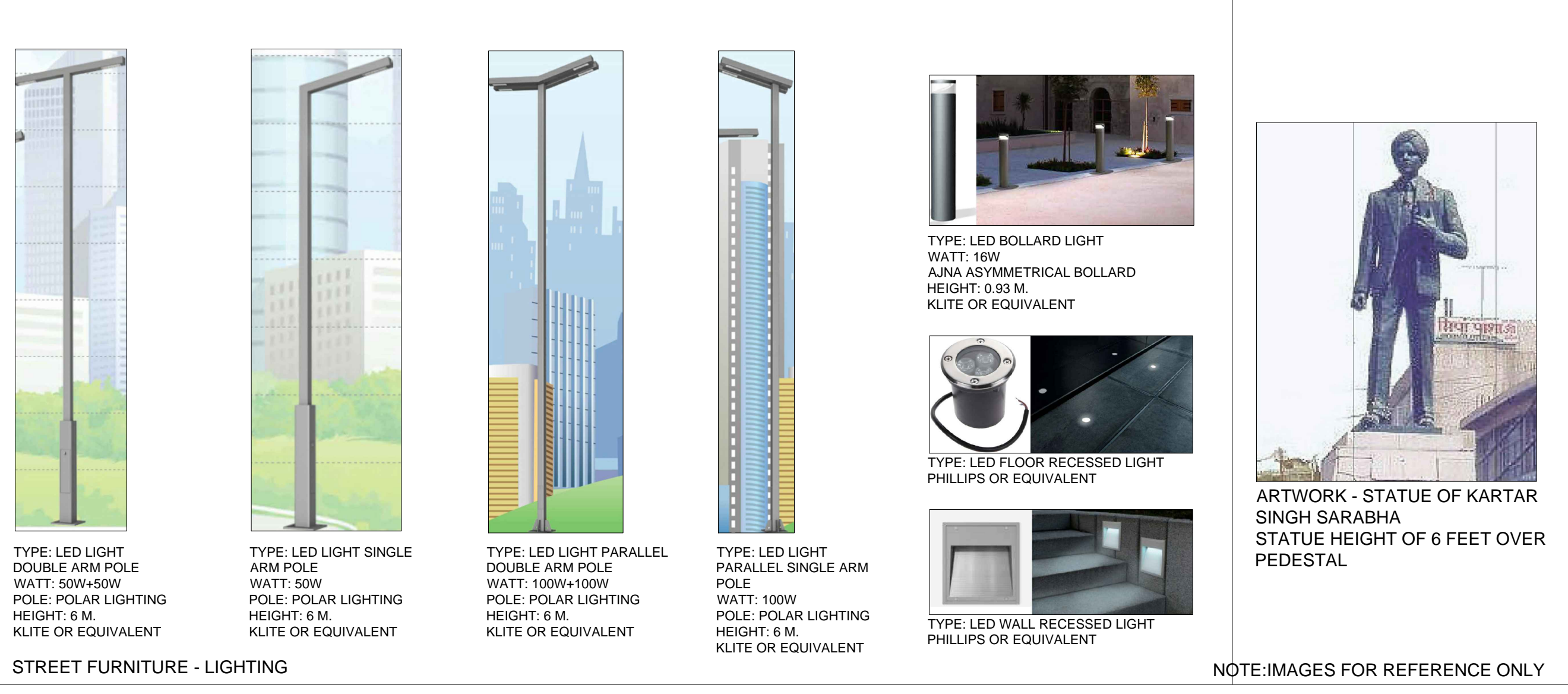
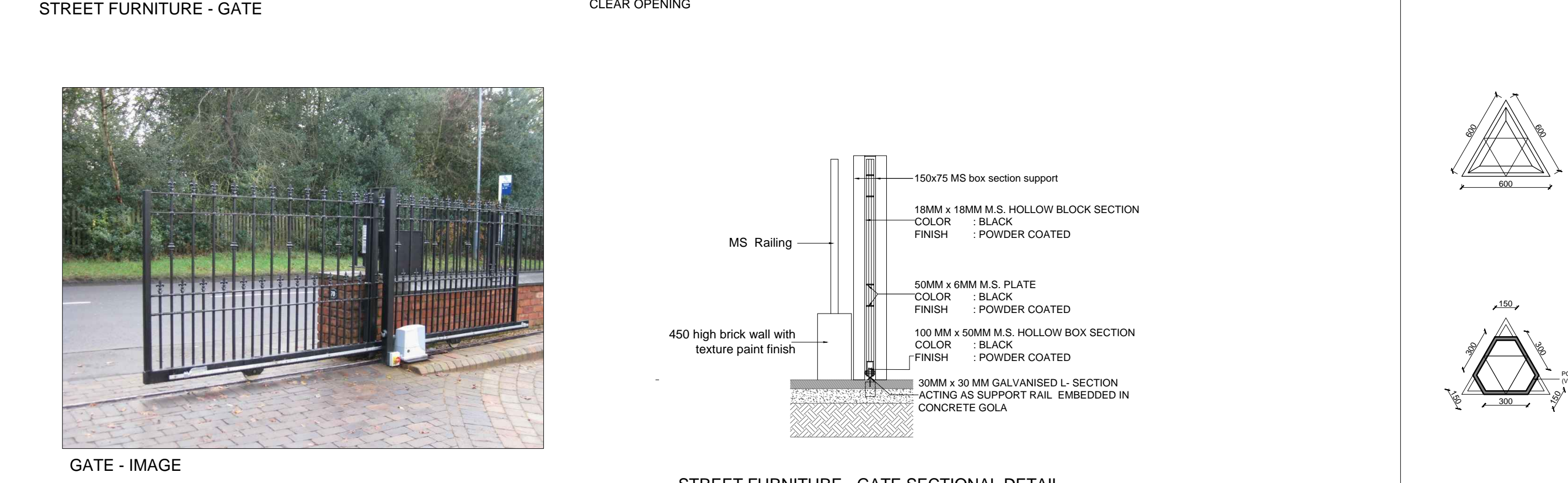
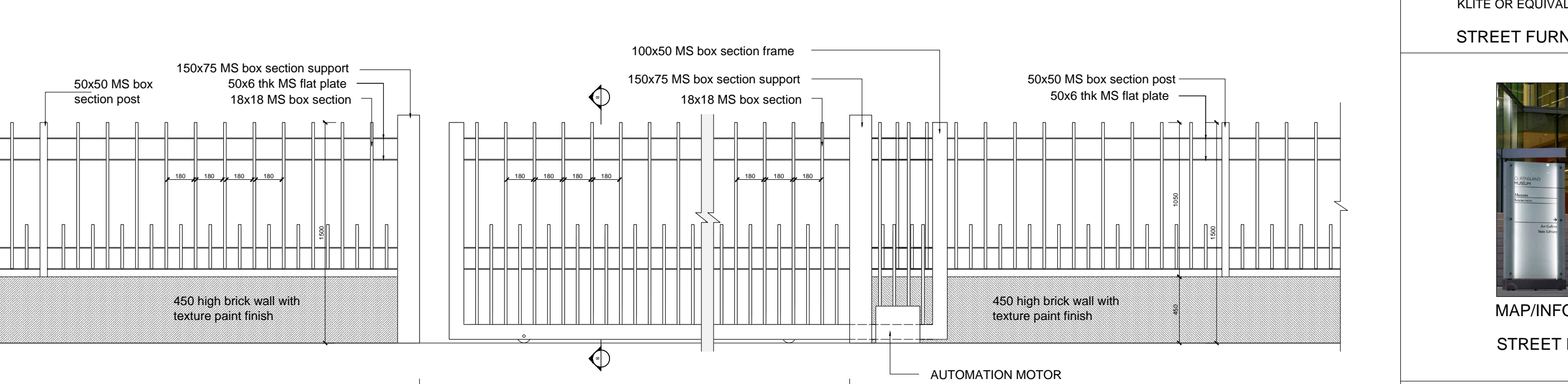
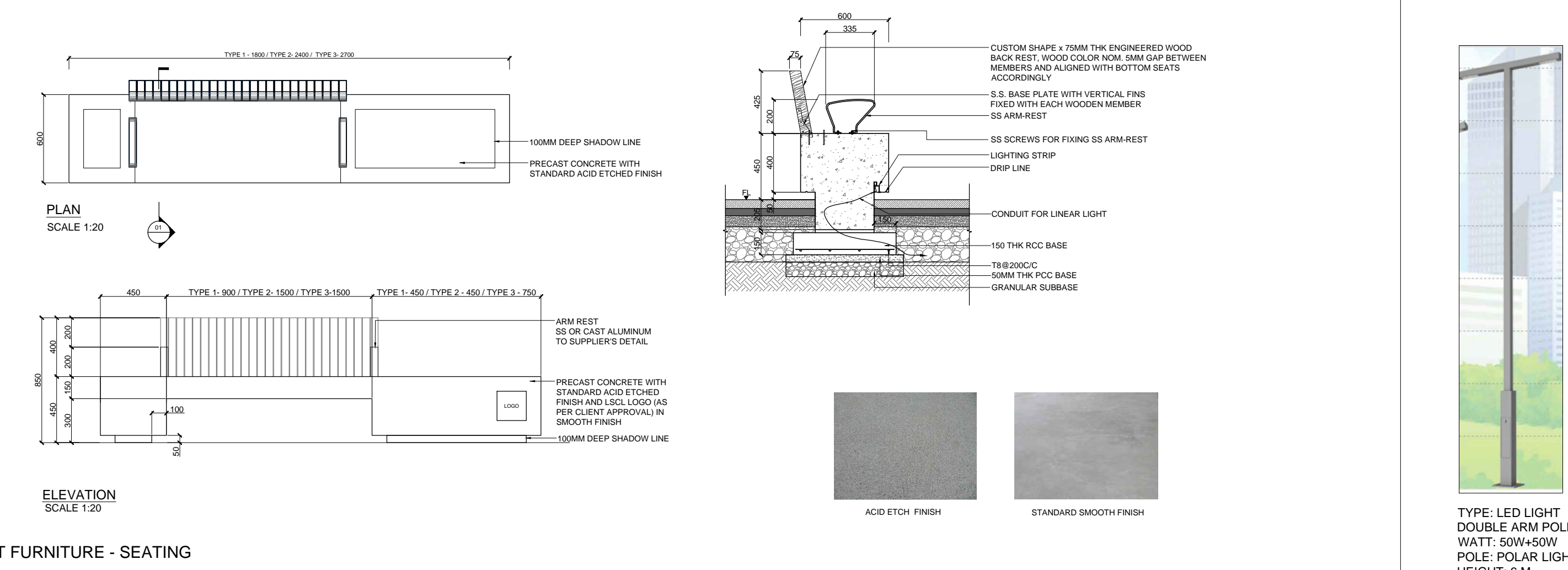
CONTRACTOR: AECOM India Private Limited





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| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |
|             |      |      |      |

CLIENT OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER

DRAWING TITLE: RETROFITTING SCHEME- PROPOSED MATERIAL PALETTE

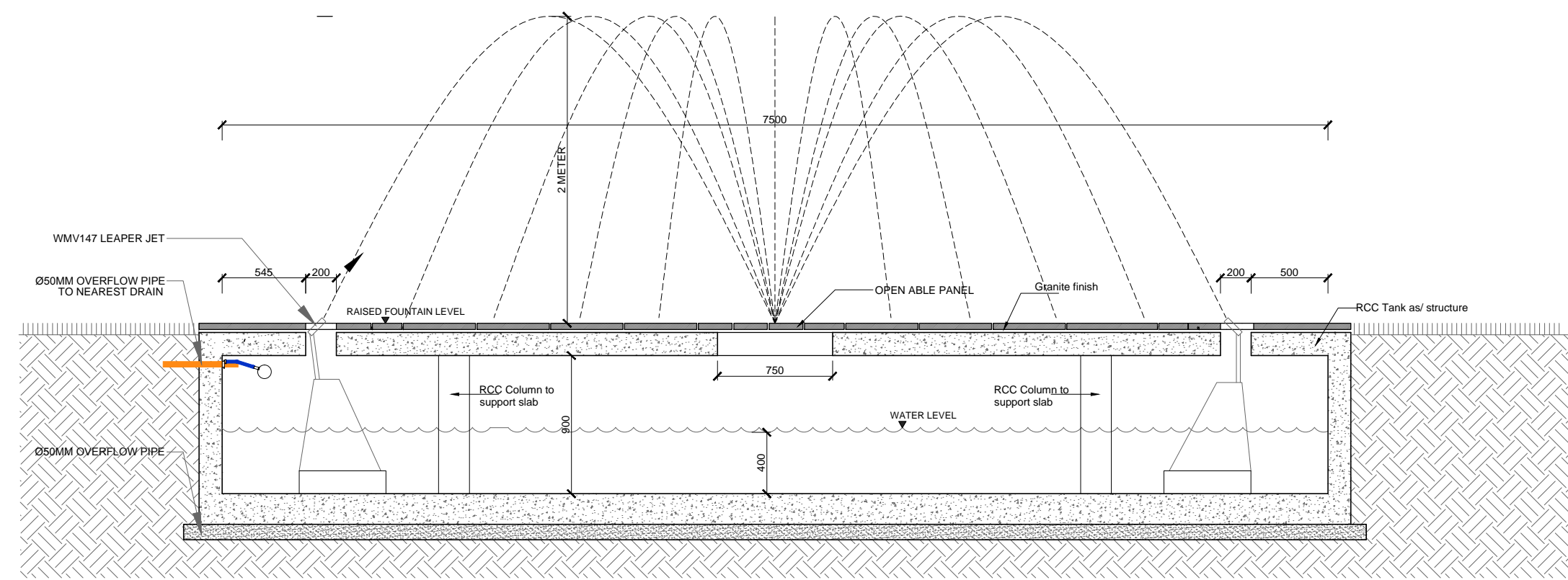
DATE: 21/02/2017

SCALE: A0

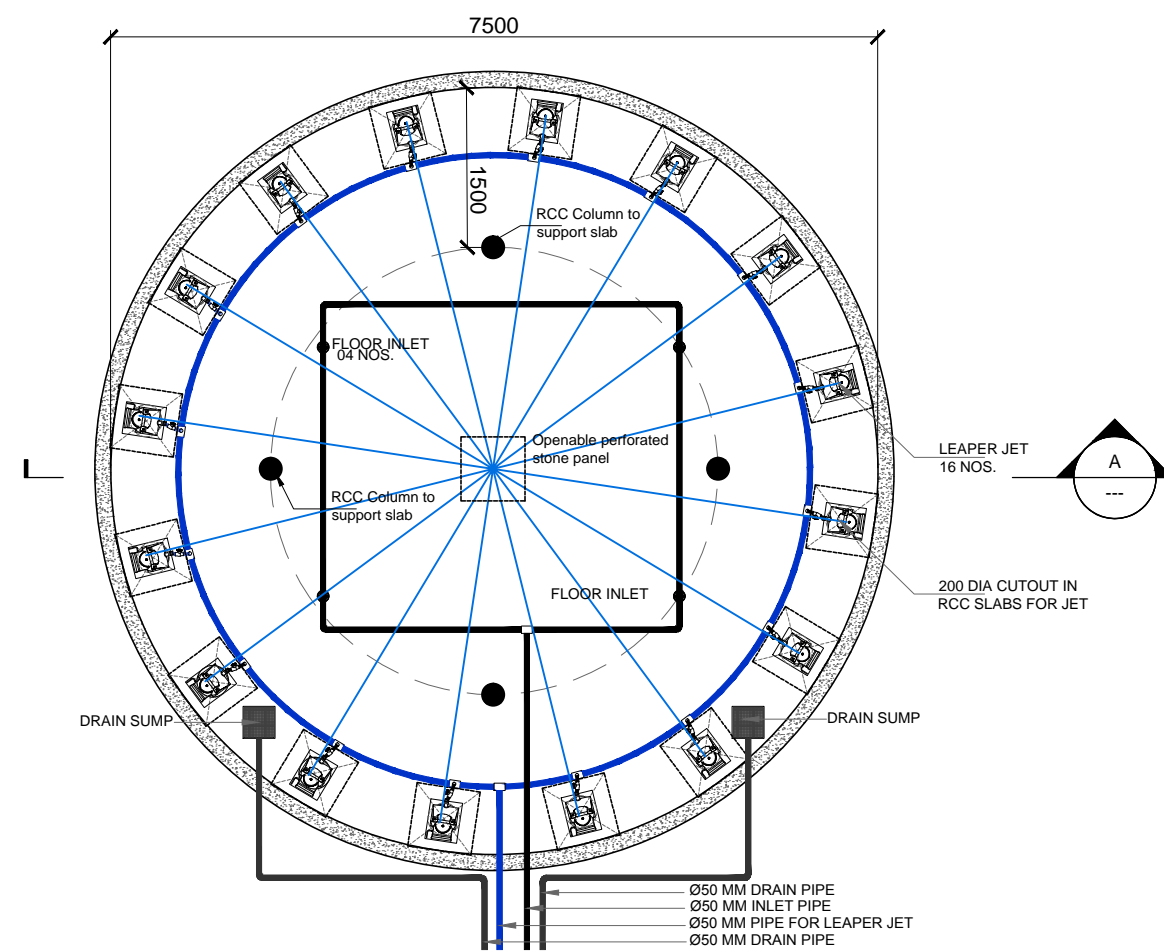
DRAWING NUMBER: DELD-LSCL-100-TP-RSN-3005

CONTRACTOR: AECOM India Private Limited





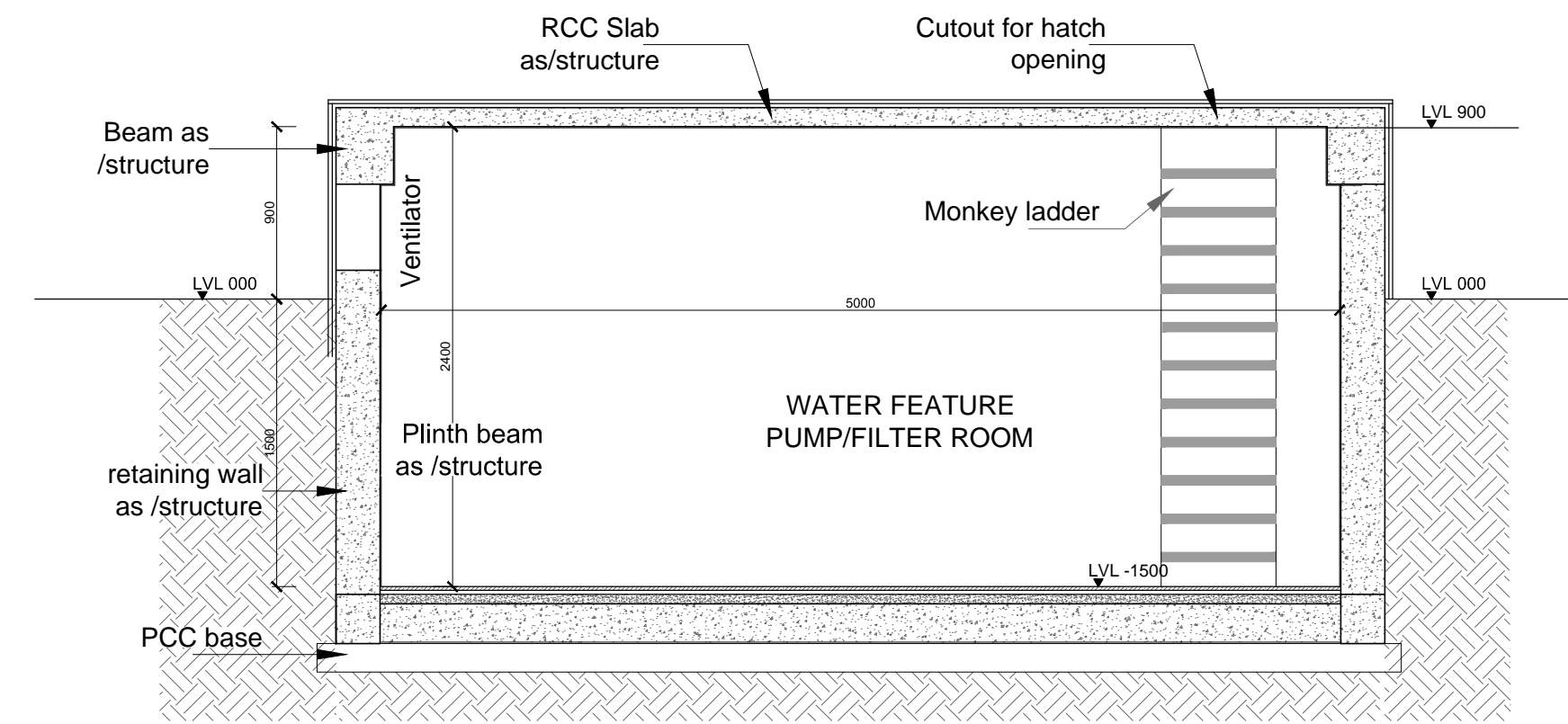
WATER FEATURE-SECTION A  
SCALE 1:25



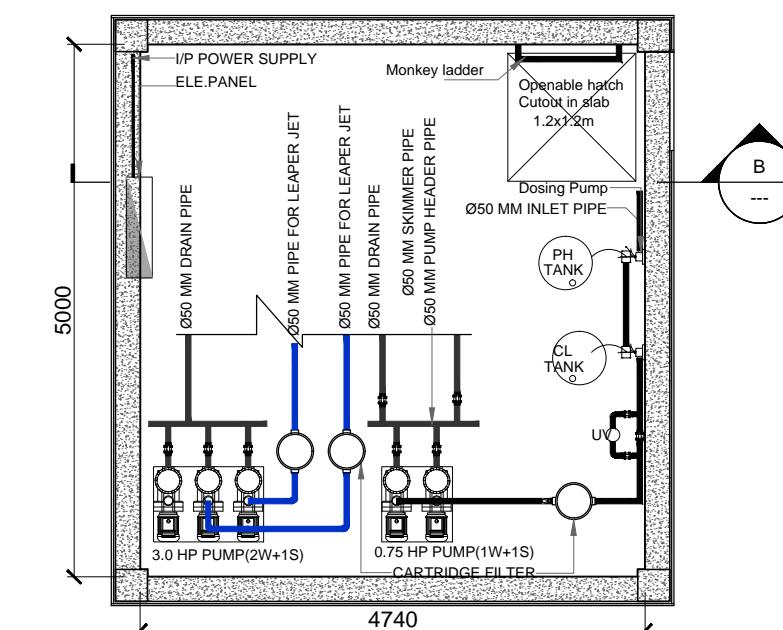
WATER FEATURE-PLAN  
SCALE 1:50



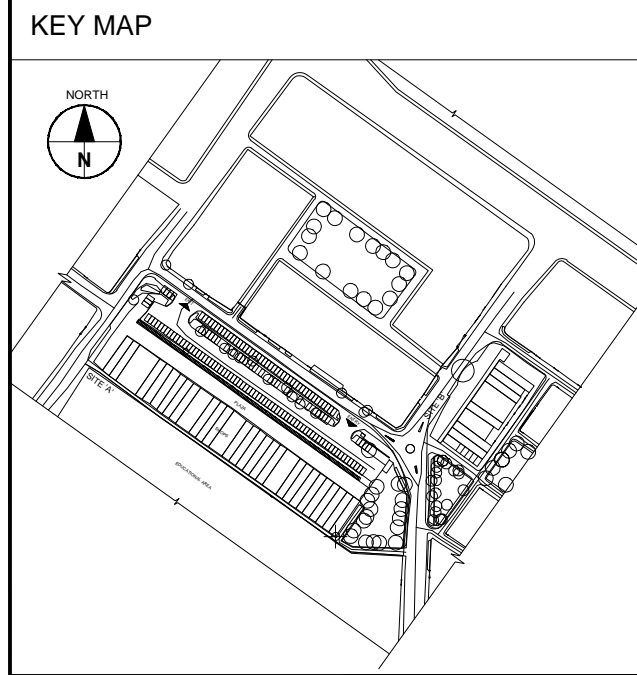
WATER FEATURE - LAMINAR/JET FLOW



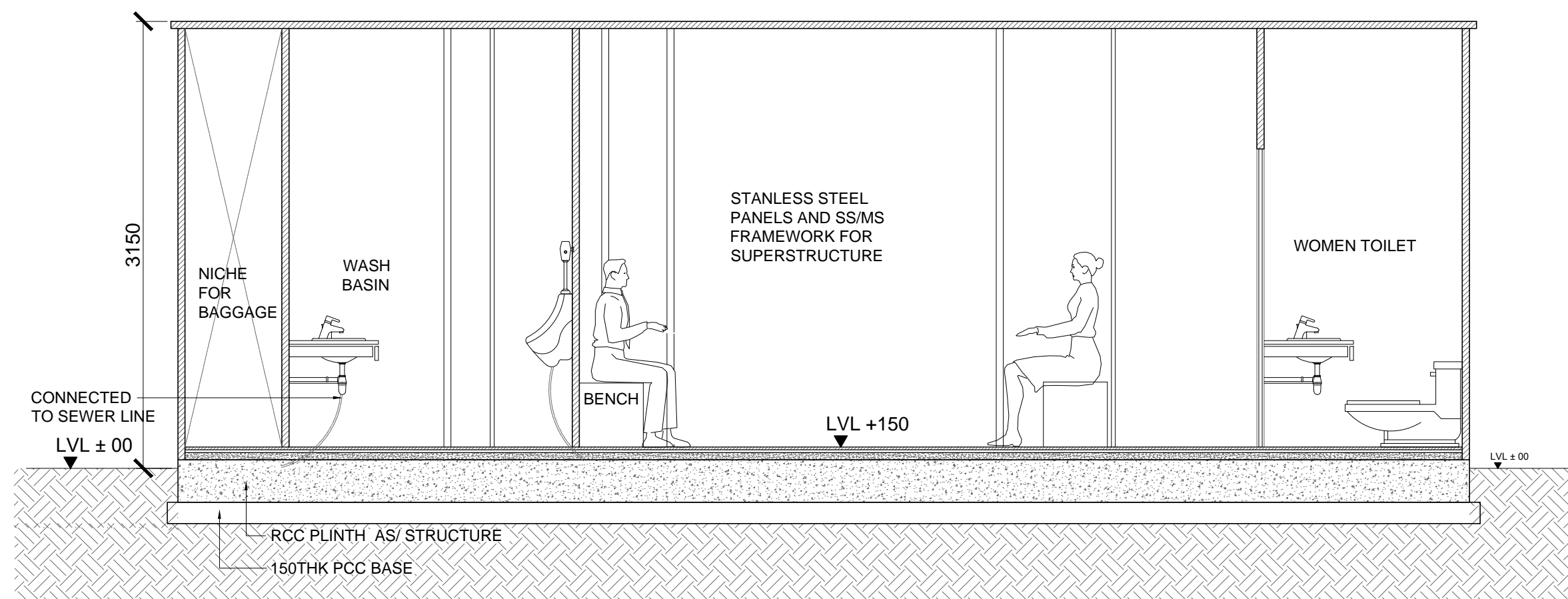
PLANT ROOM SECTION B  
SCALE 1:25



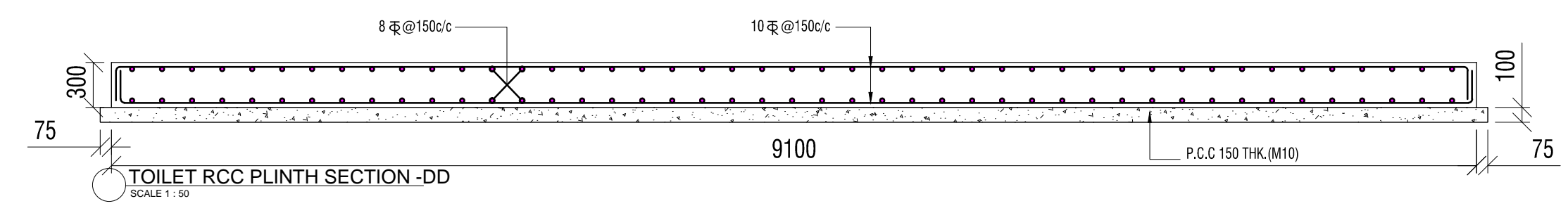
PLANT ROOM PLAN  
SCALE 1:50



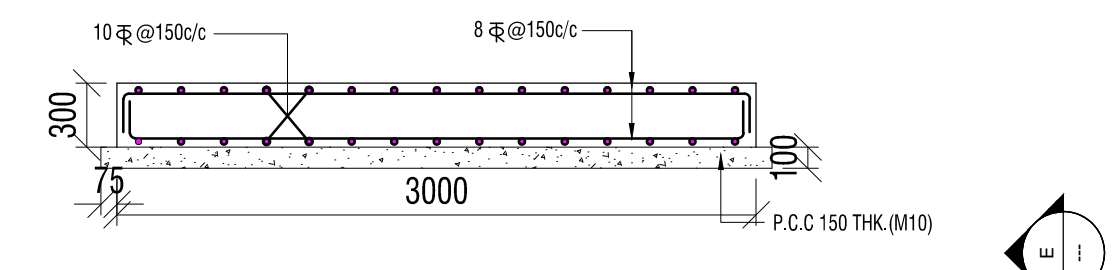
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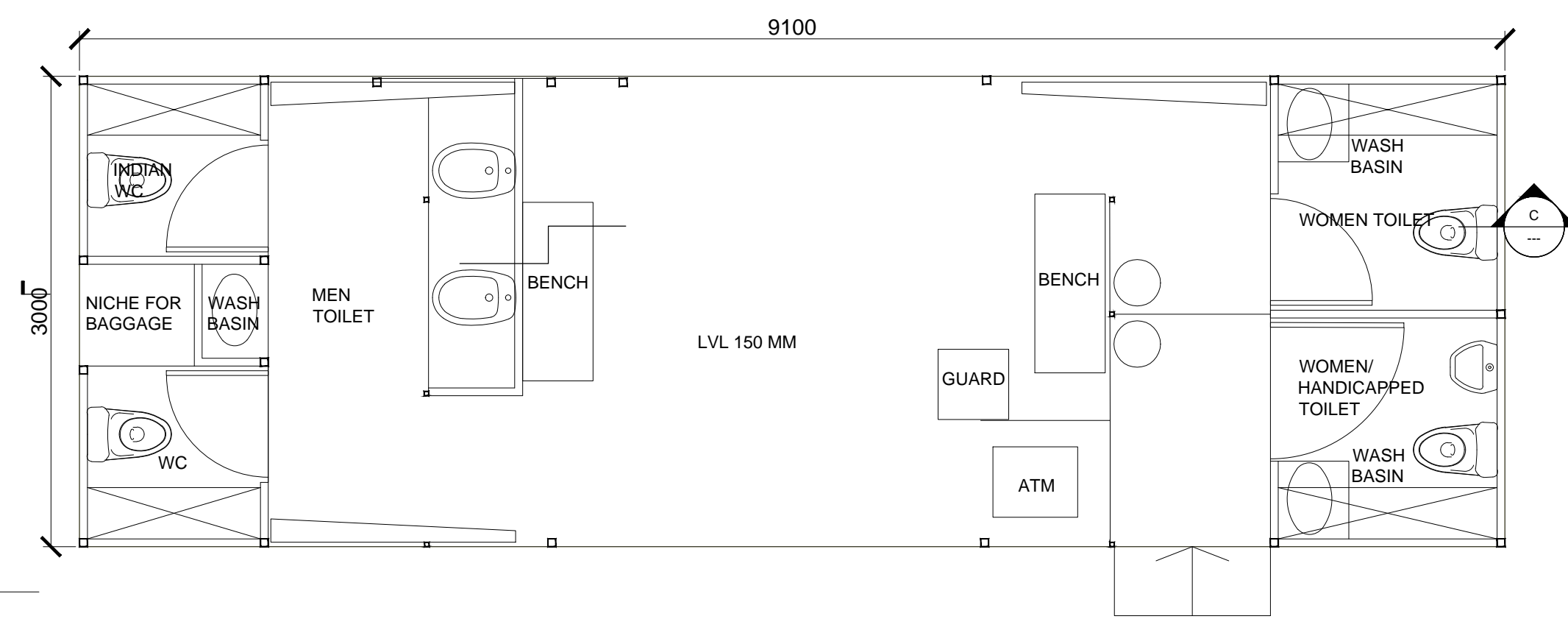
TOILET SECTION C  
SCALE 1:50



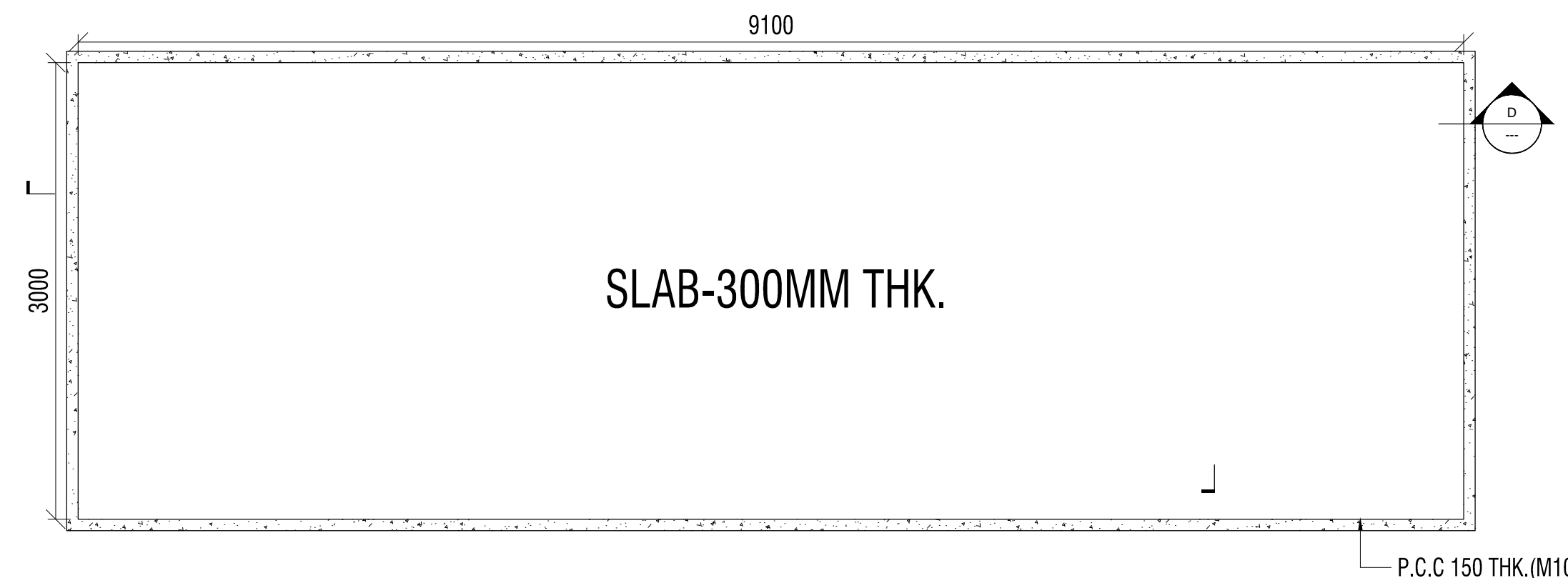
TOILET RCC PLINTH SECTION -DD  
SCALE 1:50



TOILET RCC PLINTH SECTION -EE  
SCALE 1:50



TOILET PLAN  
SCALE 1:25

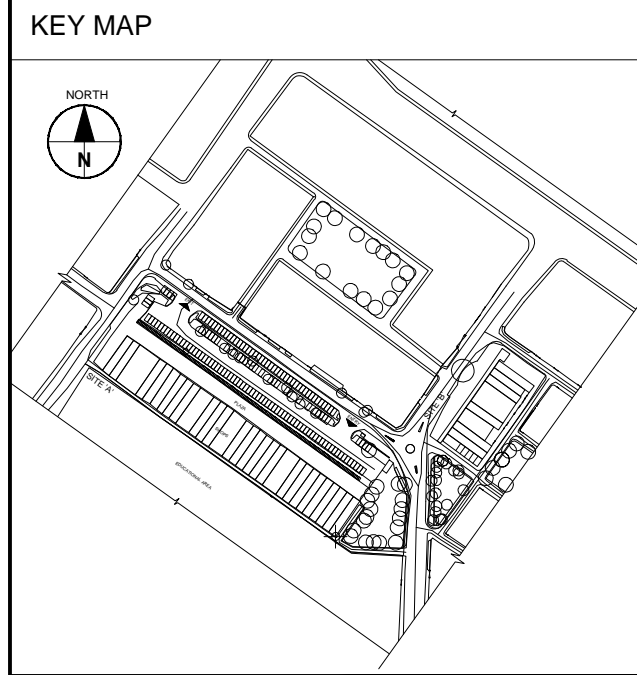


TOILET RCC PLINTH PLAN  
SCALE 1:50

| DESCRIPTION   | DRWN  | CHKD           | DATE                        |
|---------------|---|----------------|-----------------------------|
| CLIENT OWNER  | LUDHIANA SMART CITY LIMITED                                 |                |                             |
| PROJECT       | RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET |                |                             |
| PACKAGE       | PRELIMINARY DESIGN REPORT                                   |                |                             |
| PURPOSE       | FOR TENDER  | DATE           | 21/02/2017                  |
| DRAWING TITLE | RETROFITTING SCHEME- PROPOSED MATERIAL PALETTE              |                |                             |
| SCALE         | A0  | DRAWING NUMBER | DELD-LSCL-100-TP-RSN-3005 A |
| CONTRACT      | AECOM India Private Limited                                 |                |                             |



**LUDHIANA SMART CITY**



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**NOTES:-**

- 1 - DRAWING SHALL NOT BE SCALED. ONLY FIGURED DIMENSION SHALL BE FOLLOWED. OTHERWISE SHOWN
- 2 - ALL DIMENSION ARE GIVEN IN MILLIMETERS AND LEVELS IN METERS, UNLESS OTHERWISE SHOWN
- 3 - THE CONCRETE MIX SHALL BE AS FOLLOWS:-  
A) RCC-----M15 GRADE  
B) RCC-----M30 GRADE
- 4 - NOMINAL COVER TO ANY REINFORCEMENT SHALL BE AS FOLLOWS:-  
A) ROOF SLAB-----30MM  
B) BEAM-----30MM  
C) COLUMN-----30MM  
D) FOOTING/FLOOR-----40MM
- 5 - HIGH YIELD STRENGTH DEFORMED BARS OF GRADE F550 CONFORMING TO IS-1786 SHALL BE USED AS REINFORCEMENT STEEL. DETAILING SHALL CONFORM TO SP-34 & IS-5950.
- 6 - BEARING CAPACITY CONSIDERED AS 8.0 T/M AT 1.0 M FROM NGL.
- 7 - LAP LENGTH SHALL BE 50 TIMES BAR DIAMETER.
- 8 - ALL PLASTERING SHALL CONFORM TO IS-1061.
- 9 - ALL ACRYLIC EMULSION PAINTS SHALL CONFORM TO IS-15489.
- 10 - PLASTERING:  
A) EXTERNAL SURFACE SHALL HAVE 18MM PLASTER IN TWO LAYERS, WITH UNDER LAYER 12MM THICK IS CEMENT SAND PLASTER AND TOP LAYER 6MM THK. 1:6 CEMENT AND PLASTER INTERNAL WALL SURFACE SHALL HAVE 12.5MM THICK 1:4 CEMENT SAND PLASTER ROUGH SURFACE SHALL HAVE 15MM AND SMOOTH SURFACE SHALL HAVE 12MM THICK PLASTER.
- 11 - ALL WATER PROOFING COMPOUND SHALL CONFORMED TO IS-2646.
- 12 - THE ENTIRE WORKS SHALL BE EXECUTED AS PER TENDER REQUIREMENT AND TO THE SATISFACTION OF THE ENGINEER IN CHARGE.

**LEGENDS:-**

|                         |      |
|-------------------------|------|
| FINISH GROUND LEVEL.    | FGL  |
| TOP OF CONCRETE         | TOC  |
| BOTTOM OF LINTEL        | BOL  |
| UNLESS NOTED OTHERWISE. | UNO. |
| BRICK WALL              |      |
| RCC MEMBER              |      |
| PCC                     |      |
| STEEL MEMBER            |      |
| SAND                    |      |
| OPENING                 |      |
| DEPRESSION              |      |
| BOTTOM BAR              |      |
| TOP BAR                 |      |

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT/OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

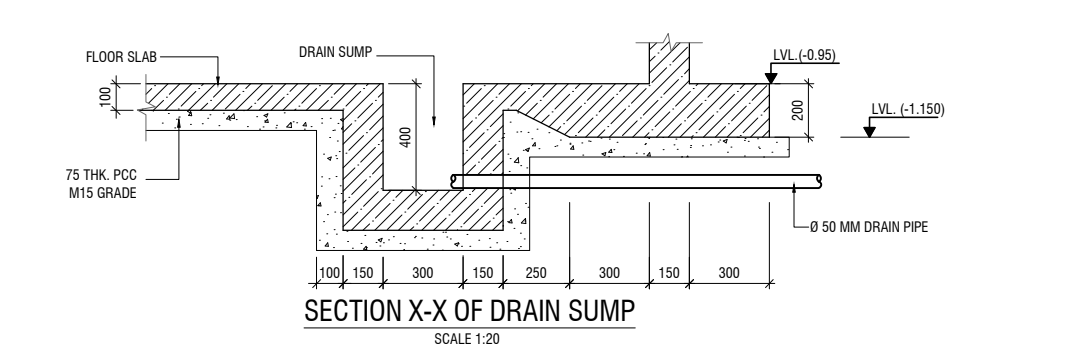
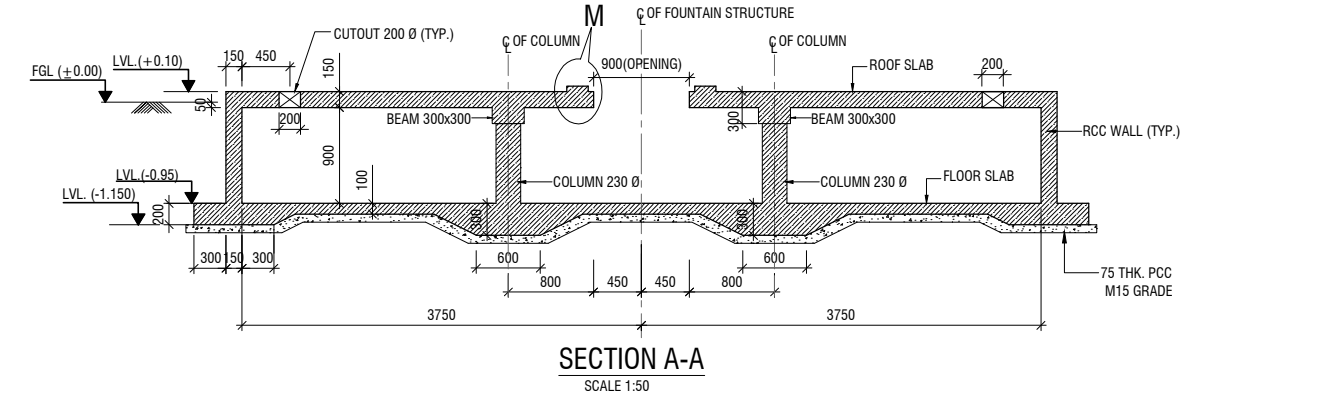
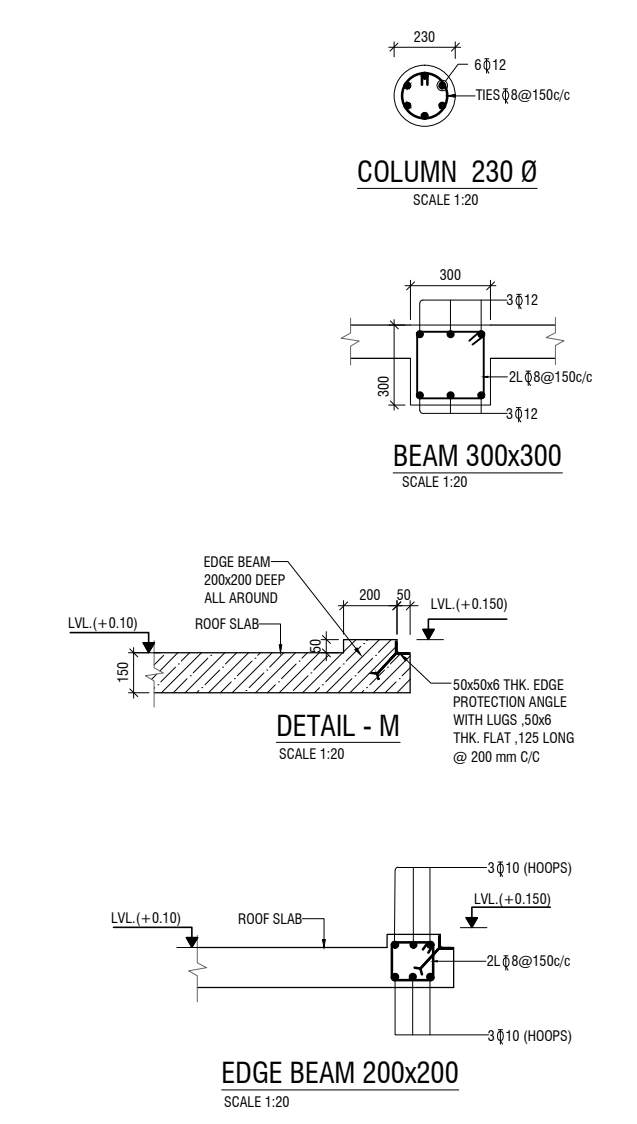
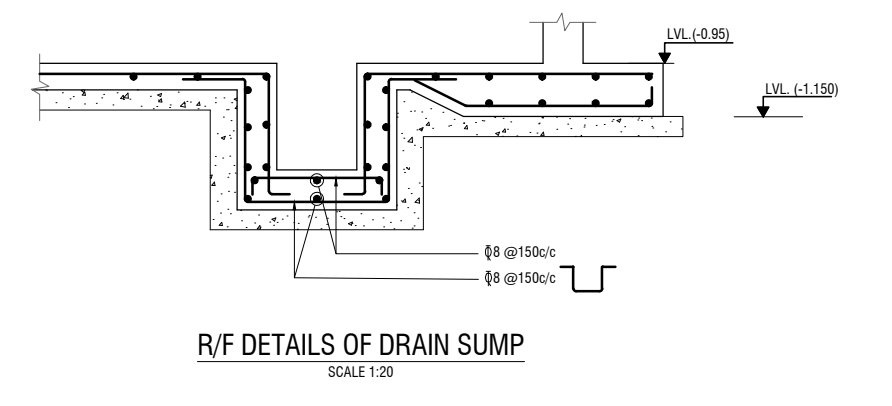
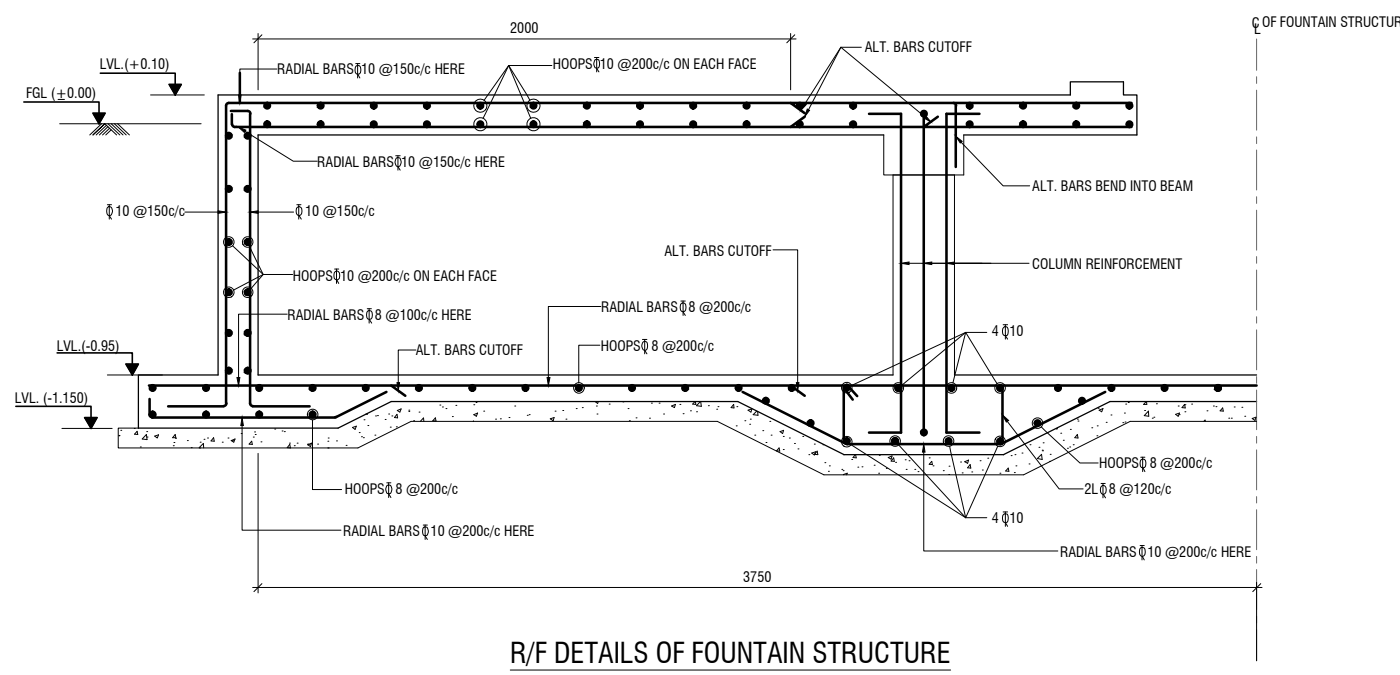
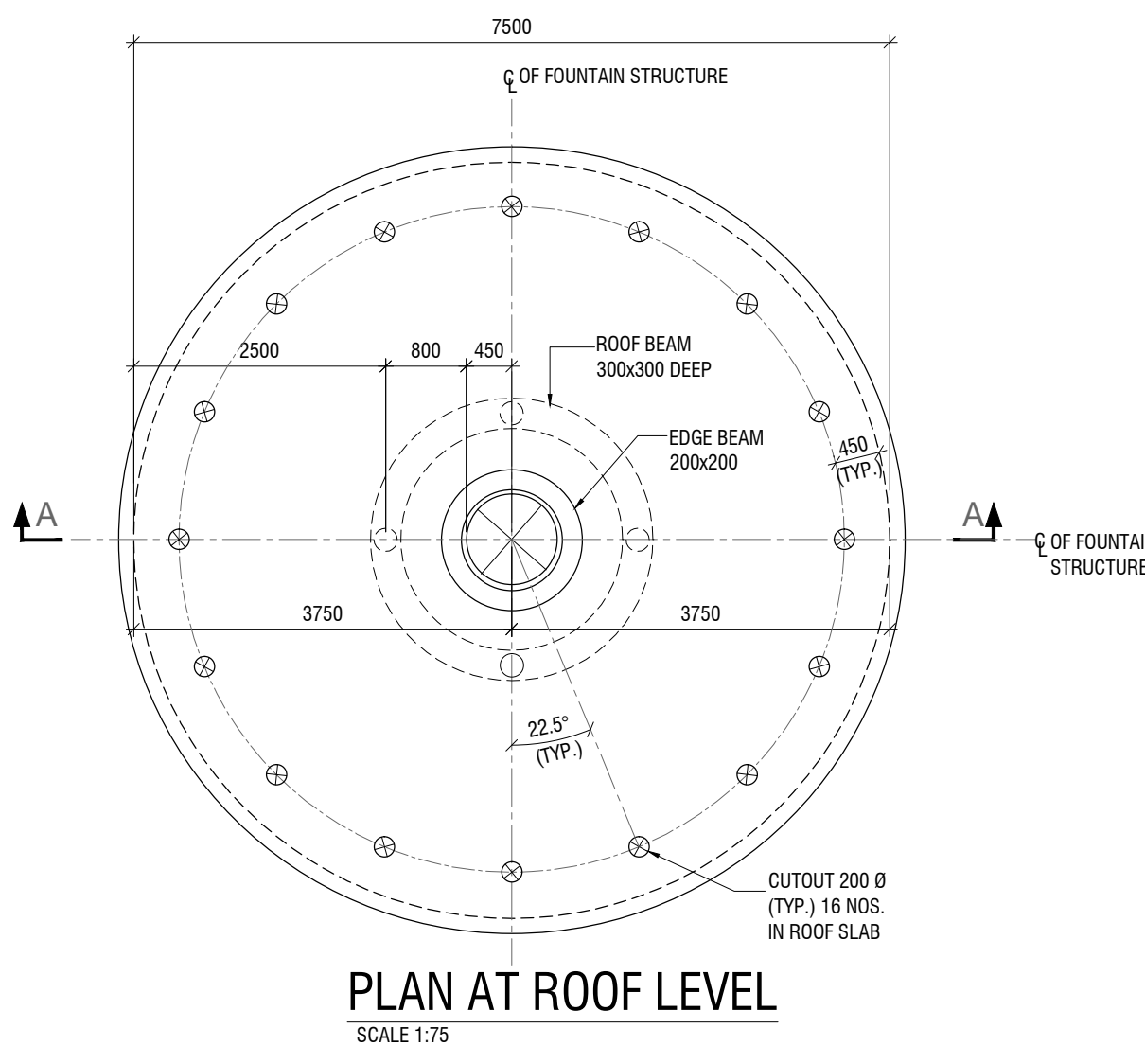
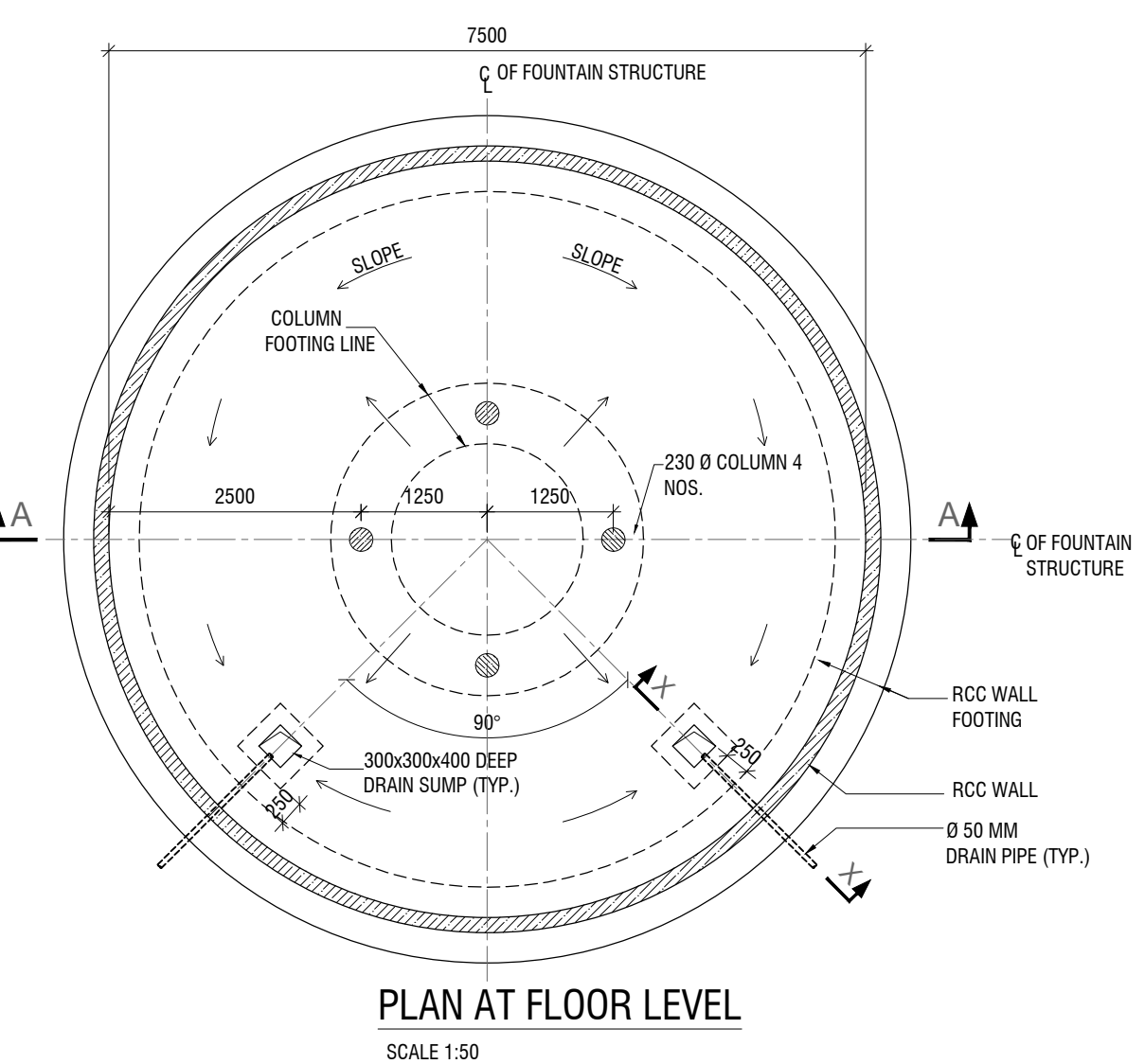
PURPOSE: FOR TENDER

DRAWING TITLE: RETROFITTING SCHEME- PROPOSED MATERIAL PALETTE- STRUCTURAL DETAILS

DATE: 21/02/2017

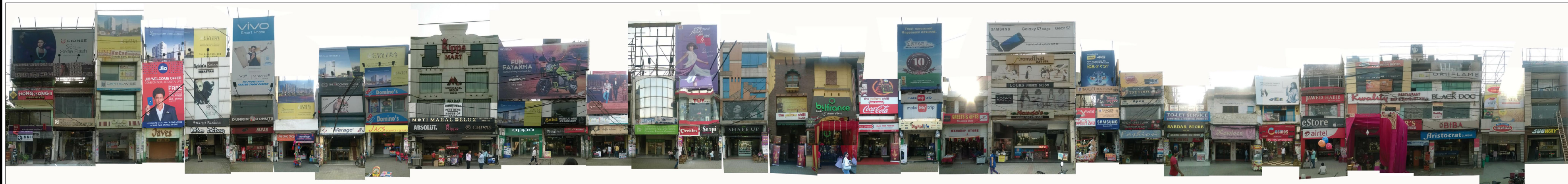
SCALE: A0  
DRAWING NUMBER: DELD-LSCL-100-TP-RSN- 3005 B

CONTRACTOR: AECOM India Private Limited

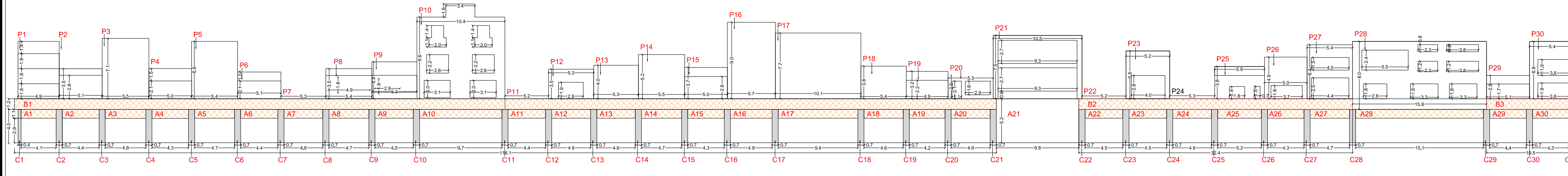


**WATER FEATURE- STRUCTURAL DETAILS**



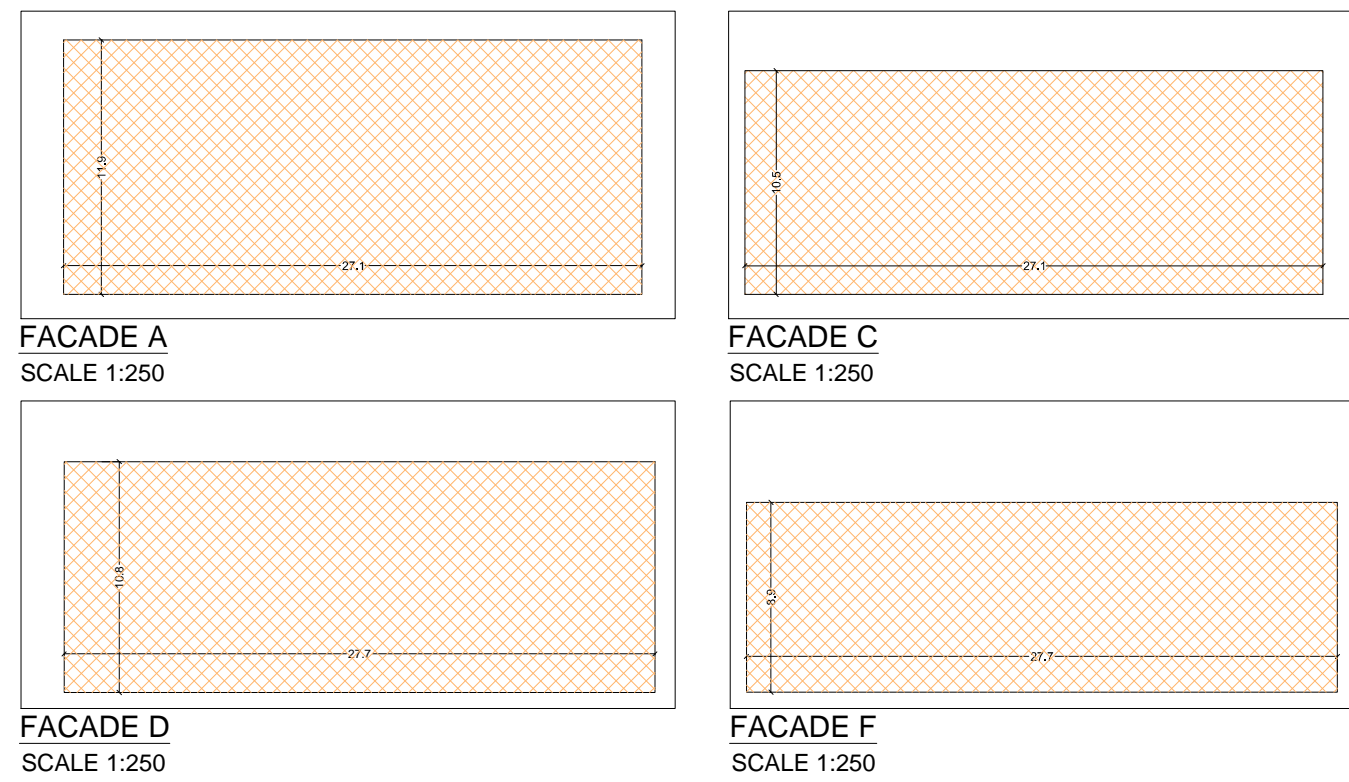


FACADE B - EXISTING CONDITION  
SCALE 1:250

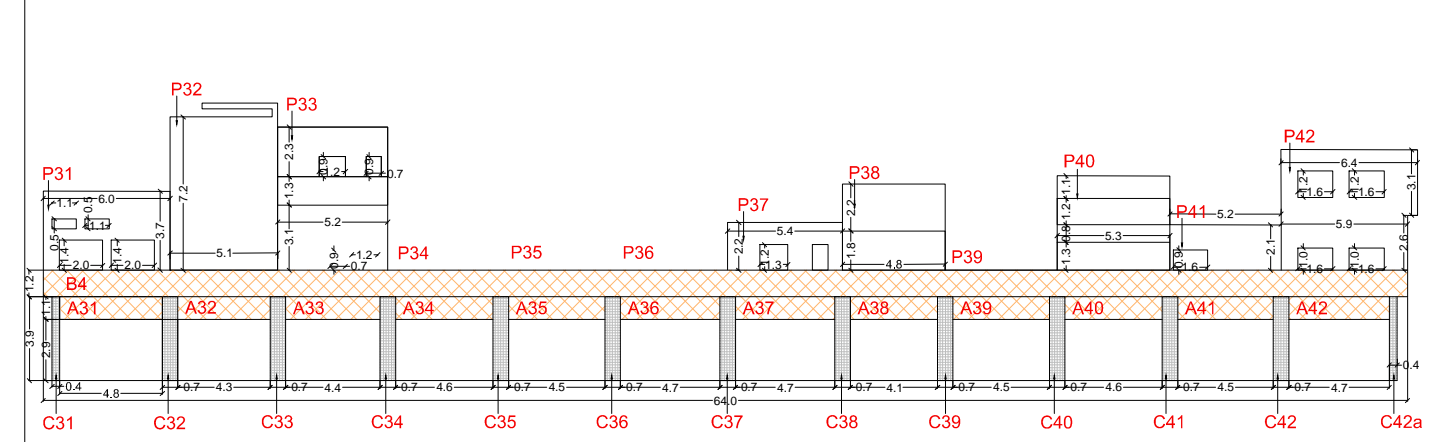


FACADE B - ANALYSIS  
SCALE 1:250  
FACADE B DETAILED AREA CALCULATIONS

Table with 4 columns: A, B, C, P. Each column contains a list of window/panel identifiers and their corresponding dimensions (Height, Width, Area) and opening details.



FACADE E - EXISTING CONDITION  
SCALE 1:250

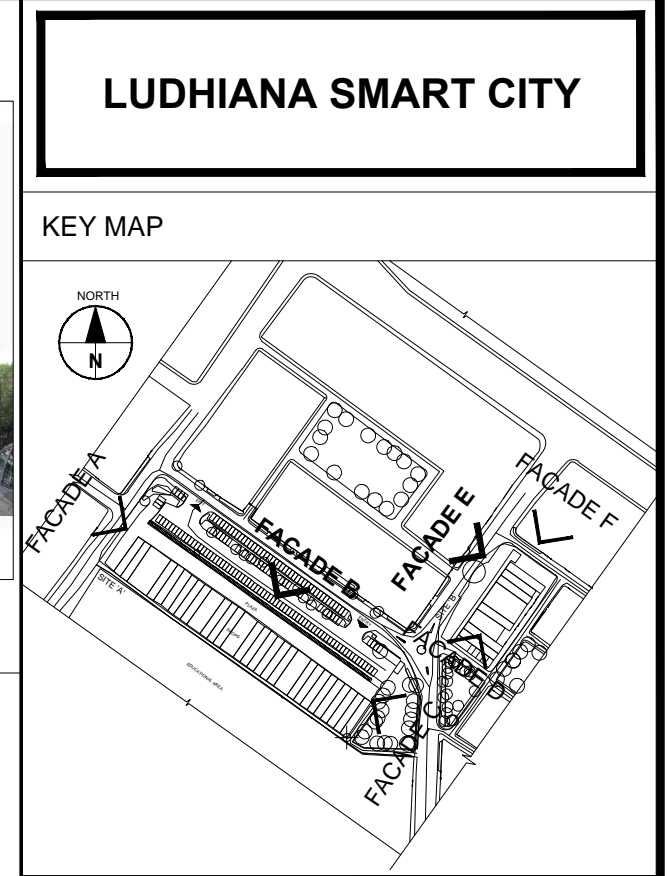


FACADE E - ANALYSIS  
SCALE 1:250  
FACADE E DETAILED AREA CALCULATIONS

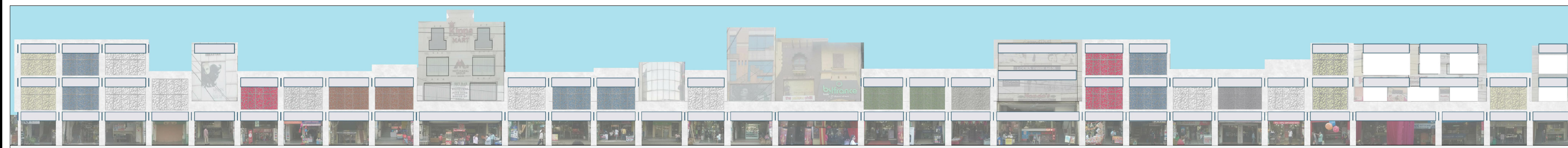
Table with 4 columns: A, B, C, P. Each column contains a list of window/panel identifiers and their corresponding dimensions and opening details.

TOTAL FACADE AREA CALCULATION

Summary table for total facade area calculation with columns: Height (m), Width (m), Area (L x B x Sides) Sqm, and Total.



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FACADE B - SUGGESTED DESIGN  
SCALE 1:250

TOTAL GRC AREA CALCULATION

Table with 5 columns: H(m), W(m), Area (SqM), No of Openings, and Total. It summarizes the GRC area for facade B and E.



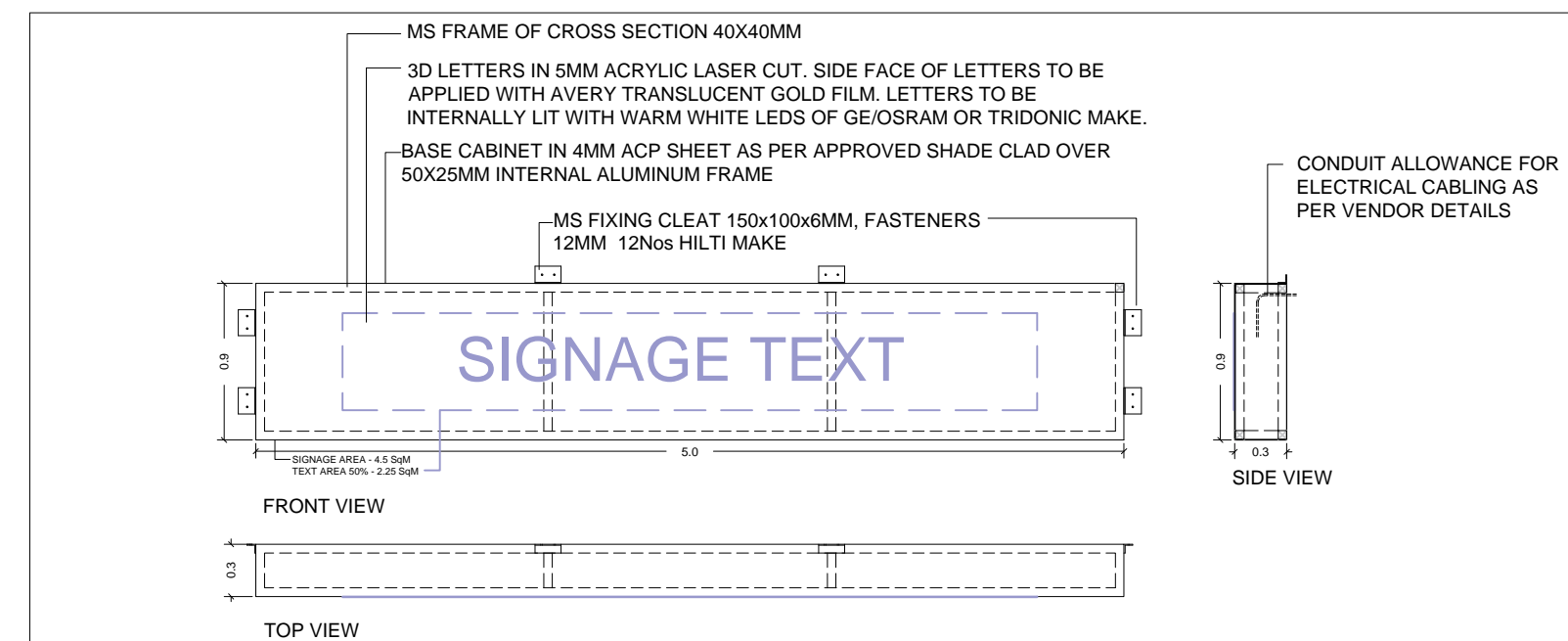
FACADE E - SUGGESTED DESIGN  
SCALE 1:250

APPLICATION and FACADE FINISHES section. Includes sub-sections for Surface Finishes, Fenestration, and GRC panels, each with type/color options and reference images.

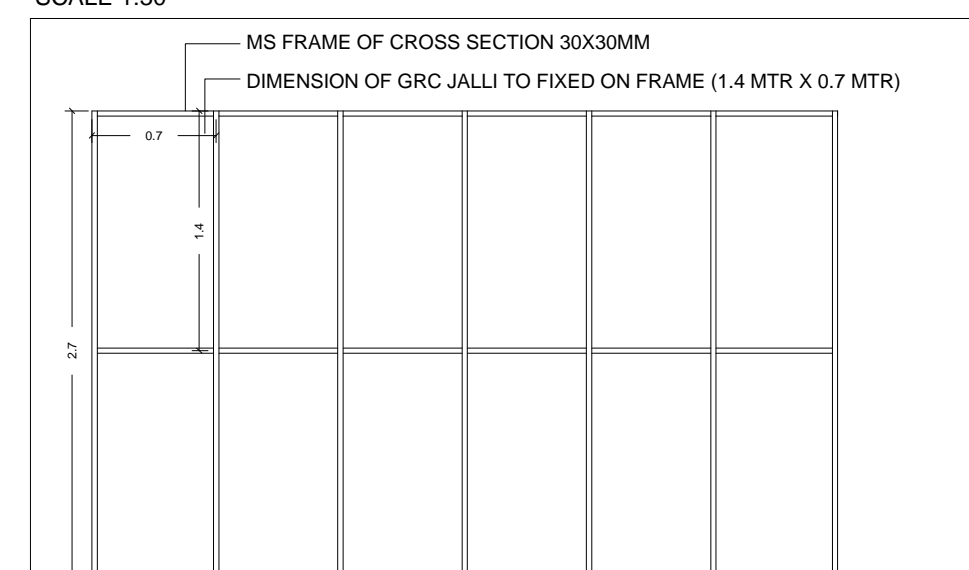
FACADE B - SUGGESTED FACADE DESIGN AND MATERIALS

LOCATIONS and SIGNAGE - TYPES section. Details where signage can be placed (Building top, Building body, Ground floor) and provides guidelines for different types like Horizontal, Window, and Vertical signage.

LUDHIANA SMART CITY LTD. FACADE B - SUGGESTED SIGNAGE GUIDELINES



FACADE SIGNAGE DETAIL SCALE 1:30



GRC JALLI SUPPORT FRAME DETAIL SCALE 1:30

LEGEND

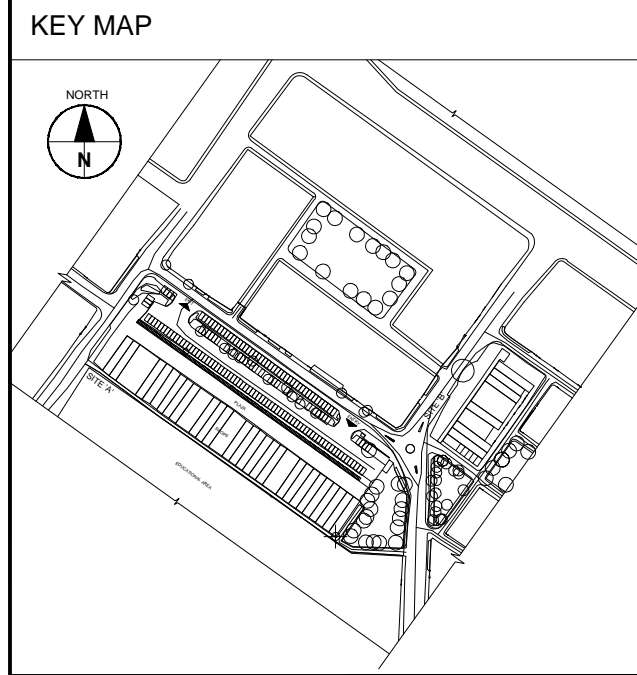
Table with 3 columns: DESCRIPTION, DRWN, CHKD, DATE.

CLIENT OWNER: LUDHIANA SMART CITY LIMITED. PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET. DRAWING TITLE: RETROFITTING SCHEME- PROPOSED FACADE DEVELOPMENT.

AECOM logo and company information: AECOM India Private Limited.



# LUDHIANA SMART CITY



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- NOTES :-**
1. SURROUNDING ROAD UPGRADATION WORKS AT PEDESTRIAN CROSSINGS IS FOR REFERENCE ONLY. THESE WORKS COME FROM PART OF THIS TENDER AND SHALL BE TAKEN UP SEPARATELY.
  2. HOWEVER PLAZA EXPANSION ALONG EXISTING ROAD EDGE IS UNDER SCOPE OF WORK OF THIS TENDER.

- LEGENDS**
- WET UTILITY**
- EXISTING WATER NETWORK
  - EXISTING SEWER NETWORK
  - PROPOSED BOX STORM NETWORK
  - RAIN WATER HARVESTING PIT
  - 110mm IRRIGATION PIPE LINE
  - COUPLER
  - AIR VALVE FOR IRRIGATION LINE
  - SLUICE VALVE FOR IRRIGATION LINE
  - TUBE WELL FOR IRRIGATION
  - 150mm HYDRANT PIPE LINE
  - FIRE HYDRANT VALVE
  - FIRE UNDER GROUND TANK & PUMP HOUSE

- ELECTRICAL (PROPOSED)**
- 750mmx1000mm(WxD) CABLE TRENCH(CT)
  - 750mmx1000mm(WxD) CABLE TRENCH (CT)
  - 1000mmx1200mm(WxD) CABLE TRENCH (CT)
  - 1200mmx1200mm(WxD) CABLE TRENCH (CT)
  - 1500mmx1200mm(WxD) CABLE TRENCH (CT)
  - CSS LOCATIONS(NEW)
  - FEEDER PILLAR(NEW)
  - RAU (NEW)
  - 11 kV TRANSFORMER(NEW)
  - LIGHTING FEEDER PILLAR(NEW)
  - JUNCTION BOX FOR LIGHTING(NEW)
  - 300x600 BURIED CABLE TRENCH HOPE DUCT
  - LPBS PUSH BUTTON FOR PUMP(NEW)

- ELECTRICAL (EXISTING)**
- PVT. TRANSFORMER
  - 11 kV EXISTING OVERHEAD LINE
  - 415 VOLT EXISTING OVERHEAD LINE
  - EXISTING OVERHEAD 415V CONNECTION
  - EXISTING TELEPHONE CABLE
  - 11 kV EXISTING POLE
  - 415 VOLT EXISTING POLE
  - EXISTING LIGHT POLE
  - EXISTING CAMERA POLE
  - EXISTING TELEPHONE POLE
  - POLE (4 LIGHT)

- LED LIGHTING**
- SINGLE ARM -70W LED - 6M POLE -12 NOS
  - DOUBLE ARM -70W LED - 6M POLE -12 NOS
  - SINGLE ARM -35W LED - 6M POLE -2 NOS
  - DOUBLE ARM -70W+35W LED - 6M POLE -1 NOS
  - DOUBLE ARM -50W + 35W LED - 6M POLE -15 NOS
  - SINGLE ARM -70W LED - 8M POLE -3 NOS
  - DOUBLE ARM -70W + 35W LED - 8M POLE -3 NOS

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

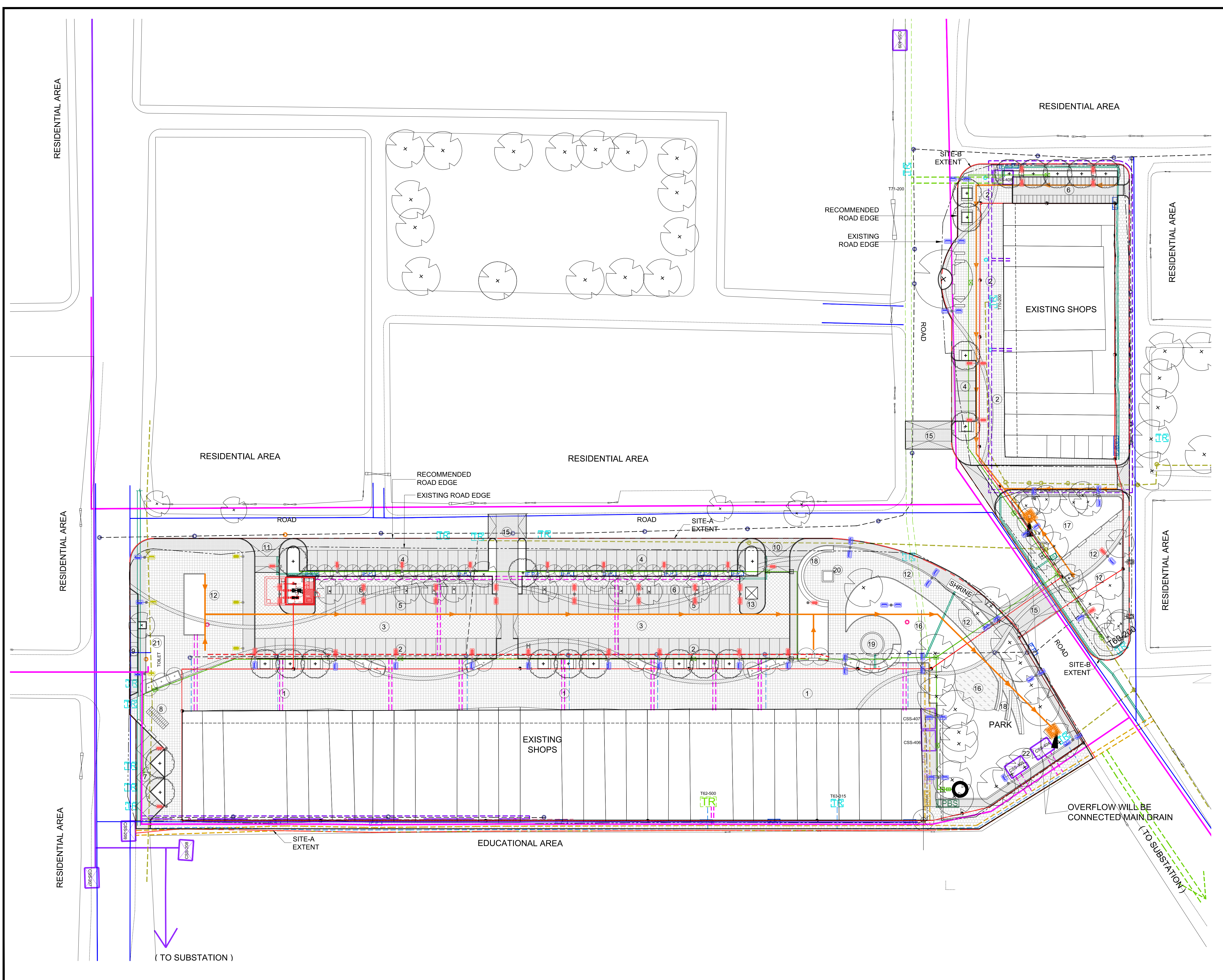
PURPOSE: FOR TENDER

DRAWING TITLE: RETROFITTING SCHEME- PROPOSED SERVICES UP-GRADATION

DATE: 21/02/2017

| SCALE | SHEET NO | DRAWING NUMBER            | REV |
|-------|----------|---------------------------|-----|
| 1:300 | A0       | DELD-LSCL-100-TP-RSN-3007 |     |

**AECOM**  
AECOM India Private Limited

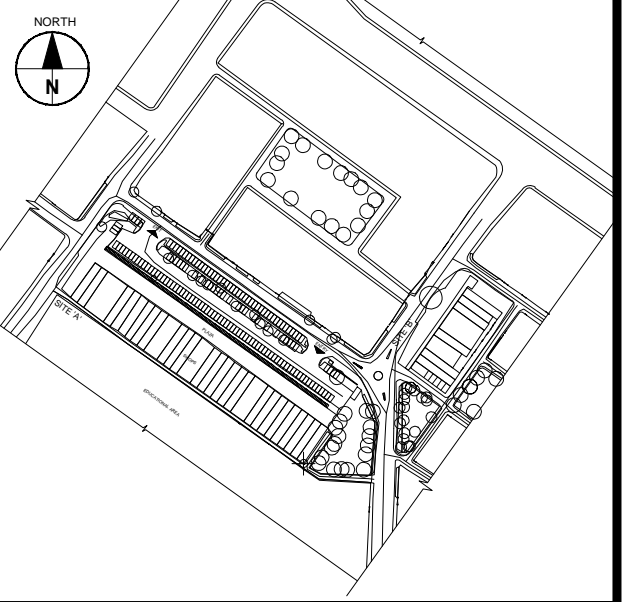


( TO SUBSTATION )



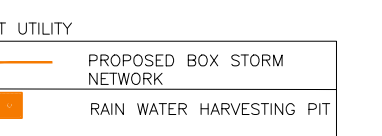
LUDHIANA SMART CITY

KEY MAP



- GENERAL NOTES :-**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATION WITHIN THE PACKAGE.
  2. ALL DIMENSIONS IN PLANS & DETAILS ARE IN METERS UNLESS SPECIFIED. DO NOT SCALE THIS DRAWINGS-WRITTEN DIMENSIONS TO BE TAKEN ONLY.
  3. IT IS THE RESPONSIBILITY OF THE BIDDER TO ASCERTAIN EXISTING SITE AREA AND CONDITION ALONG WITH INFORMATION PROVIDED IN DRAWING.
  4. THIS DRAWING MUST NOT BE COPIED IN WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT FROM AECOM.
  5. THIS DRAWING IS FOR INFORMATION ONLY.

**LEGENDS**



**NOTES:**

1. ALL DIMENSIONS & ELEVATIONS ARE IN METERS UNLESS NOTED.
2. THE SIZE OF SWD IS CONSIDERED AS 450MM WIDTH X 450MM DEPTH.
3. THE SURFACE STORM BOX DRAIN SHALL HAVE OPENABLE DI GRATING (D/D) 450 x 450 AT EVERY 15M C/C.
4. RCC SHALL BE OF M25 GRADE & PCC SHALL BE OF M10 GRADE. STEEL SHALL BE HIGH YIELD STRENGTH DEFORMED BARS CONFORMING TO IS:1786 AND SHALL BE OF GRADE FE500.
5. GROUND WATER TABLE IS CONSIDERED BELOW BOTTOM OF DRAIN.
6. SOIL BEARING CAPACITY IS CONSIDERED AS 8 TON/50M.
7. RAINFALL INTENSITY CONSIDERED AS 12MM/HR.

| LENGTH NOS.  | meters        |
|--------------|---------------|
| 1 to 2       | 35.07         |
| 2 to 3       | 66.92         |
| 3 to 4       | 11.08         |
| 4 to 5       | 28.17         |
| 4 to 6       | 9.26          |
| 6 to 7       | 18.75         |
| 8 to 9       | 40.80         |
| 9 to 10      | 30.88         |
| 10 to 11     | 8.79          |
| 10 to 12     | 151.35        |
| 12 to 13     | 10.10         |
| 12 to 14     | 9.05          |
| <b>TOTAL</b> | <b>420.22</b> |

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER

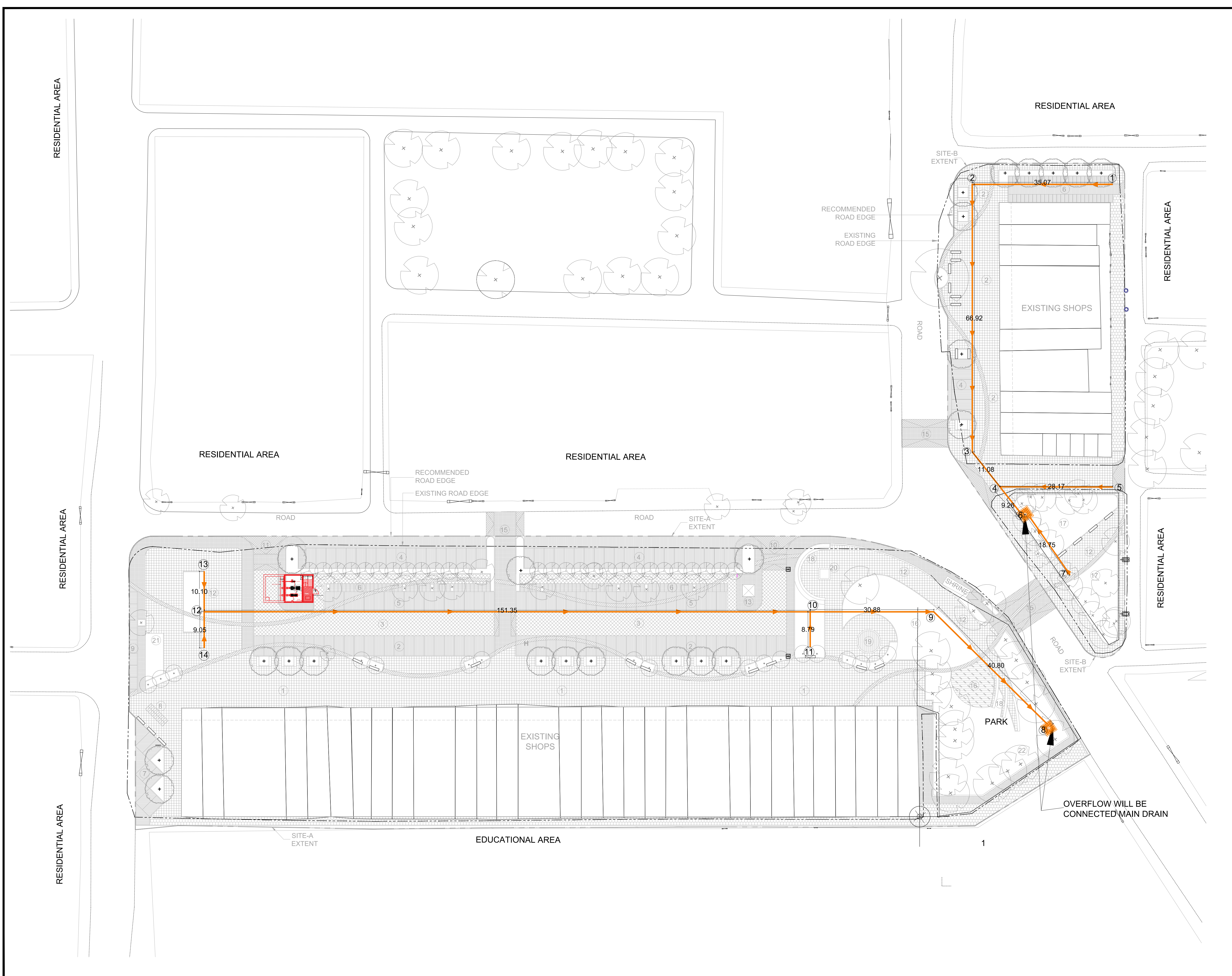
DRAWING TITLE: RETROFITTING SCHEME- PROPOSED STORM WATER NETWORK

DATE: 21/02/2017

SCALE: A0

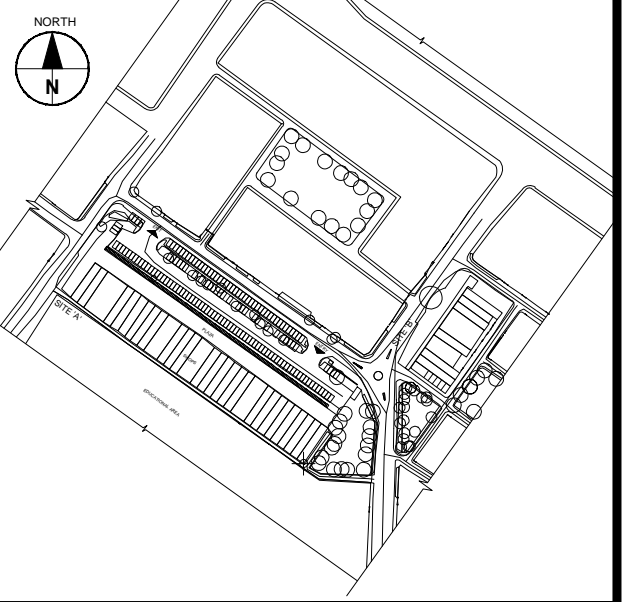
DRAWING NUMBER: DELD-LSCL-100-TP-RSN-3008

CONTRACTOR: AECOM India Private Limited



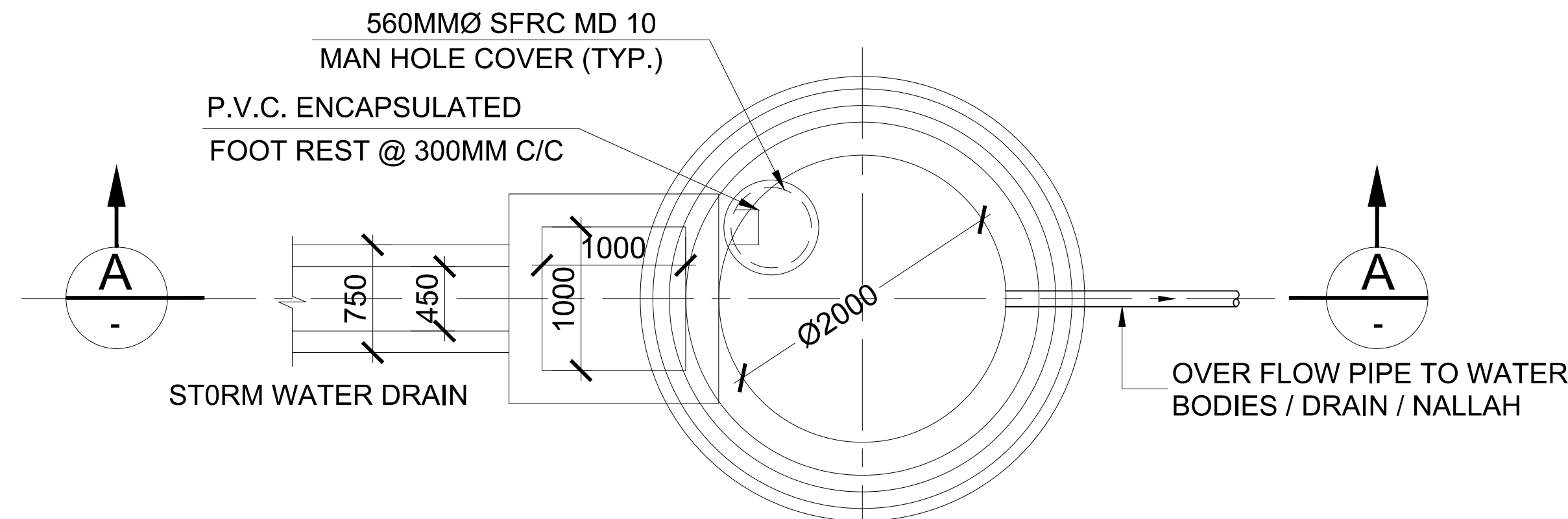


KEY MAP

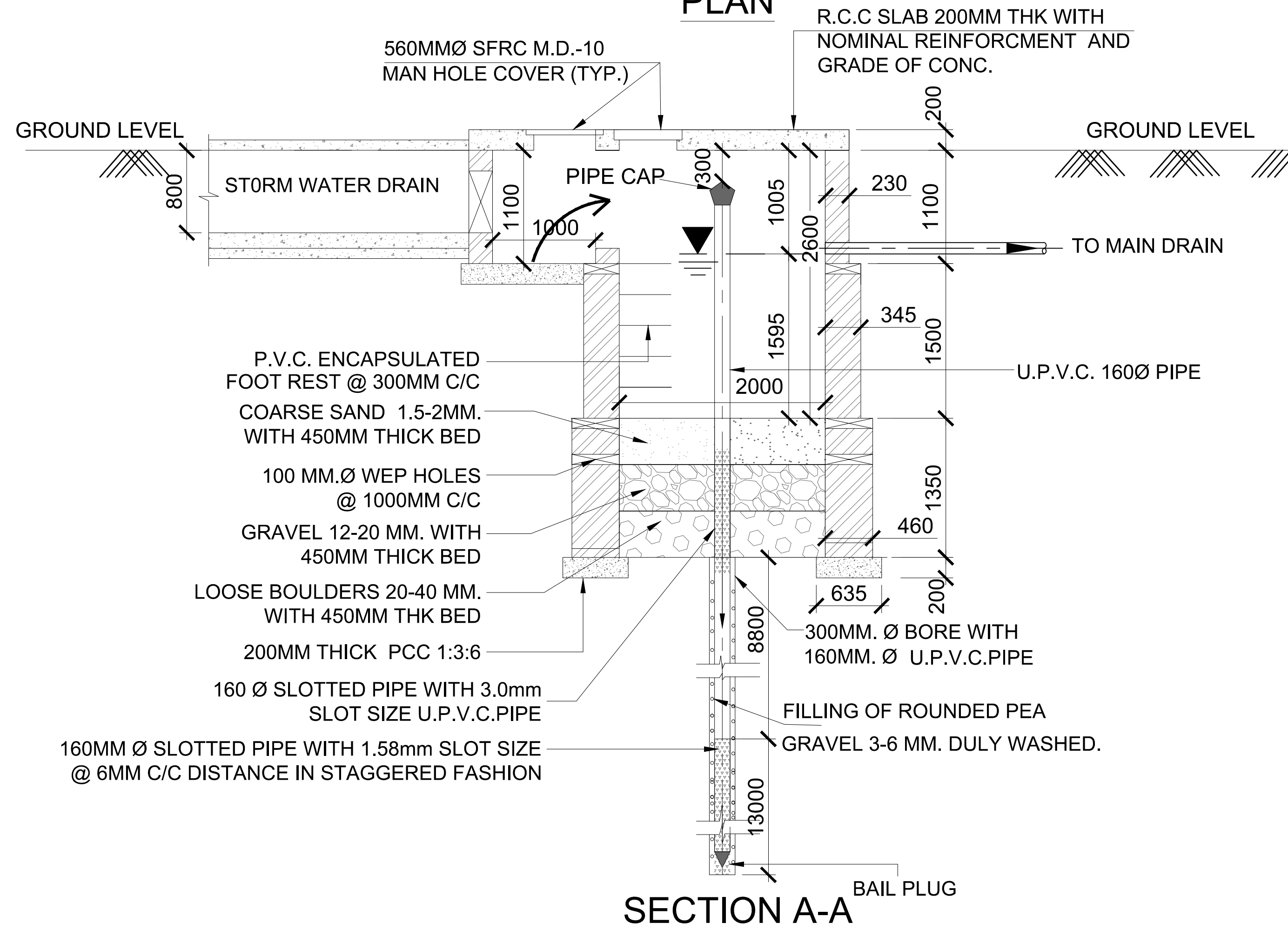


- GENERAL NOTES :-**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATION WITHIN THE PACKAGE.
  2. ALL DIMENSIONS IN PLANS & DETAILS ARE IN METERS UNLESS SPECIFIED. DO NOT SCALE THIS DRAWING-WRITTEN DIMENSIONS TO BE TAKEN ONLY.
  3. IT IS THE RESPONSIBILITY OF THE BIDDER TO ASCERTAIN EXISTING SITE AREA AND CONDITION ALONG WITH INFORMATION PROVIDED IN DRAWING.
  4. THIS DRAWING MUST NOT BE COPIED IN WHOLE OR PART WITHOUT PRIOR WRITTEN CONSENT FROM AECOM.
  5. THIS DRAWING IS FOR INFORMATION ONLY.

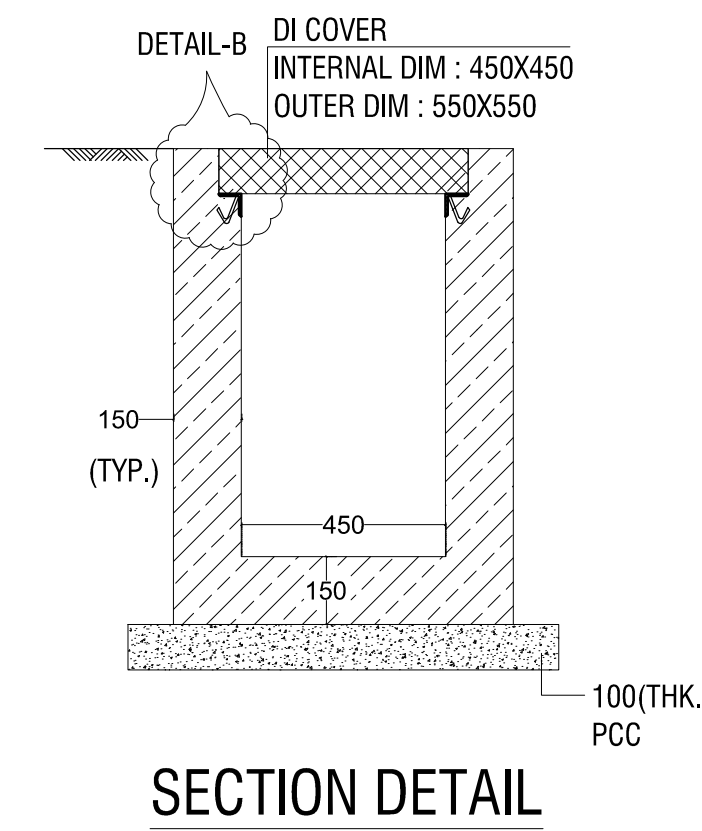
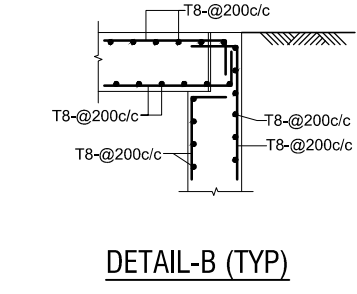
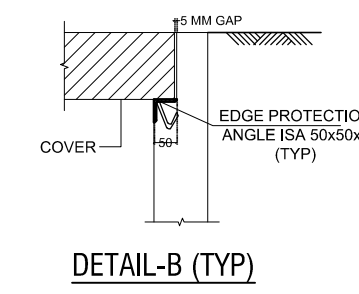
- NOTES:**
1. ALL EARTH SURFACE UPON OR AGAINST CONCRETE IS TO BE PLACED SHALL BE WELL COMPACTED AND SHOULD BE FREE FROM STANDING WATER, MUD OR DEBRIS.
  2. RCC SHALL BE OF M20 GRADE & PCC SHALL BE OF M10 GRADE.
  3. GROUND WATER TABLE IS CONSIDERED BELOW BOTTOM OF DRAIN.
  4. SOIL BEARING CAPACITY IS CONSIDERED AS 8 TON/ SQ.M.



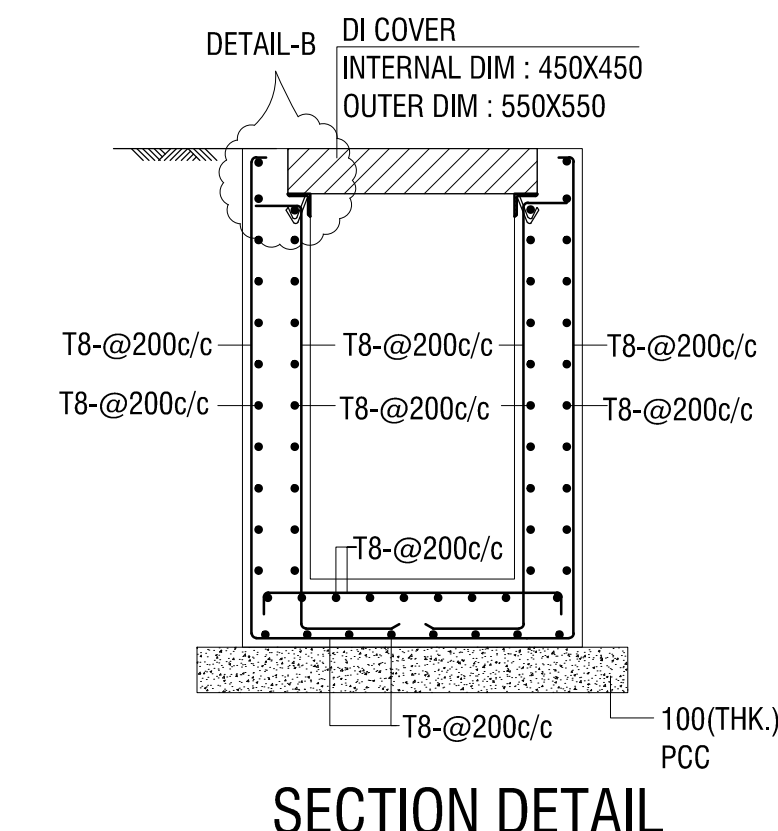
PLAN



SECTION A-A



SECTION DETAIL



SECTION DETAIL

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT/OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER

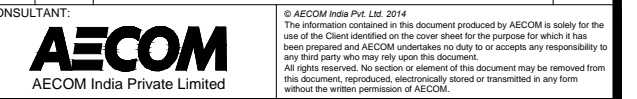
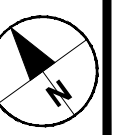
DRAWING TITLE: RETROFITTING SCHEME: PROPOSED RWHP AND STORM WATER DRAIN DETAILS

SCALE: 1:300

DATE: 21/02/2017

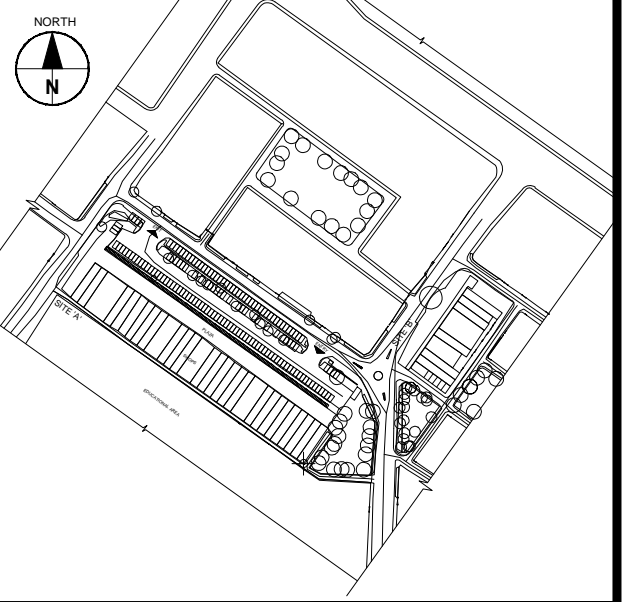
DRAWING NUMBER: DELD-LSCL-100-TP-RSN-3009

CONTRACTOR: AECOM India Private Limited





KEY MAP



- GENERAL NOTES :-**
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  3. IT IS THE RESPONSIBILITY OF THE BIDDER TO ASCERTAIN EXISTING SITE AREA AND CONDITION ALONG WITH INFORMATION PROVIDED IN DRAWING.
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  5. THIS DRAWING IS FOR INFORMATION ONLY.

**LEGENDS**

| WET UTILITY |                                  | RM      | 582.81 |
|-------------|----------------------------------|---------|--------|
|             | 110mm IRRI GATION PIPE LINE      |         |        |
|             | COUPLER                          | NOS. 13 |        |
|             | AIR VALVE FOR IRRIGATION LINE    | NOS. 1  |        |
|             | SLUICE VALVE FOR IRRIGATION LINE | NOS. 4  |        |
|             | TUBE WELL FOR IRRIGATION         | NOS. 1  |        |

**NOTES:**

1. ALL DIMENSIONS, ELEVATIONS AND CHANGES ARE IN METERS UNLESS NOTED.
2. PIPE MATERIAL IS CONSIDERED AS PER uPVC SIB CLASS /110MM DIA.
3. MINIMUM CLEAR COVER ABOVE CROWN OF TSE PIPE FROM THE GROUND IS 1M. HOWEVER THE DEPTH WILL BE VARIED TO AVOID ITS CLASH WITH OTHER CONCRETE ENCASEMENT OF 150 MM THICKNESS TO BE PROVIDED, IF MINIMUM COVER IS NOT AVAILABLE FOR IRRIGATION WATER SUPPLY PIPE.
4. MINIMUM RESIDUAL HEAD CONSIDERED FOR DESIGN IS 7M AT COUPLER. BRASS COUPLERS SHALL BE PROVIDED AT EVERY SOM ALONG THE IRRIGATION WATER MAINS AS SHOWN IN THIS DRAWING. SIZE OF QUICK COUPLER SHALL BE 20MM (3/4").
5. NOTES ARE FOR CALCULATION PURPOSE ONLY. THEY ARE NOT ANY PROPOSED STRUCTURE.
6. ALL COUPLERS SHOWN ARE INDICATIVE AND ARE NOT TO SCALE.
7. MINIMUM CLEAR DEPTH OF 300MM SHALL BE PROVIDED BELOW PIPELINE AT VALVE CHAMBER LOCATIONS FOR ALL VALVES.

| LENGTH NOS.  | meters        |
|--------------|---------------|
| 1 to 2       | 3.62          |
| 2 to 3       | 32.84         |
| 3 to 4       | 36.42         |
| 4 to 5       | 19.15         |
| 4 to 6       | 38.29         |
| 6 to 7       | 68.11         |
| 7 to 8       | 19.60         |
| 3 to 9       | 34.52         |
| 9 to 10      | 21.75         |
| 10 to 11     | 123.83        |
| 9 to 12      | 139.96        |
| 12 to 13     | 24.28         |
| 13 to 14     | 20.44         |
| <b>TOTAL</b> | <b>582.81</b> |

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT/OWNER: LUDHIANA SMART CITY LIMITED

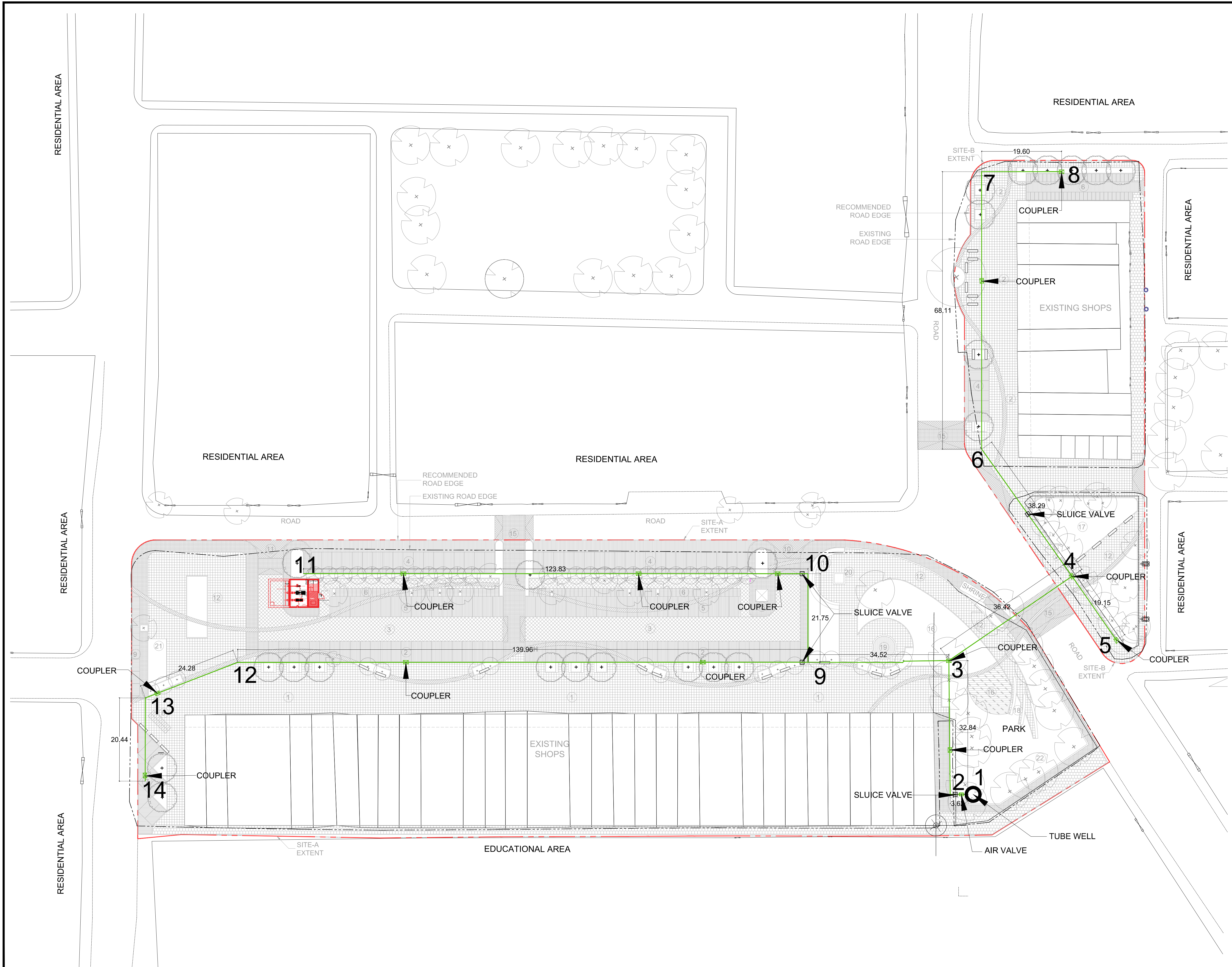
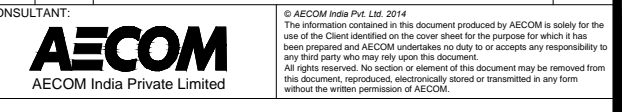
PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER DATE: 21/02/2017

DRAWING TITLE: RETROFITTING SCHEME: PROPOSED IRRIGATION NETWORK

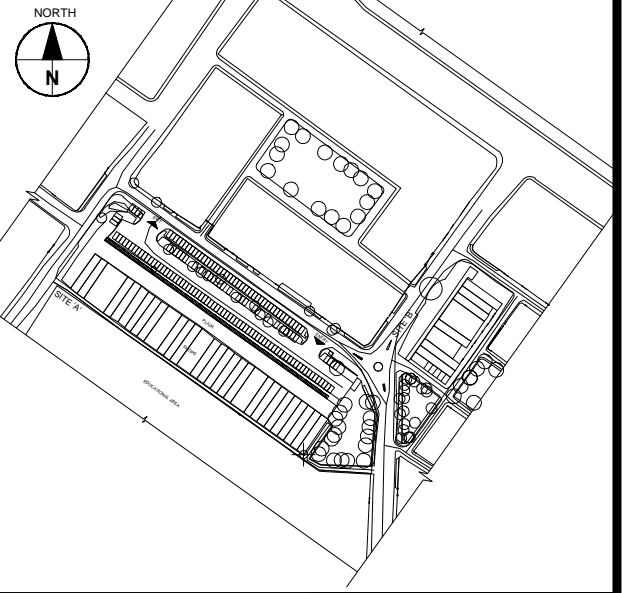
SCALE: 1:300 A0 DRAWING NUMBER: DELD-LSCL-100-TP-RSN-3010





LUDHIANA SMART CITY

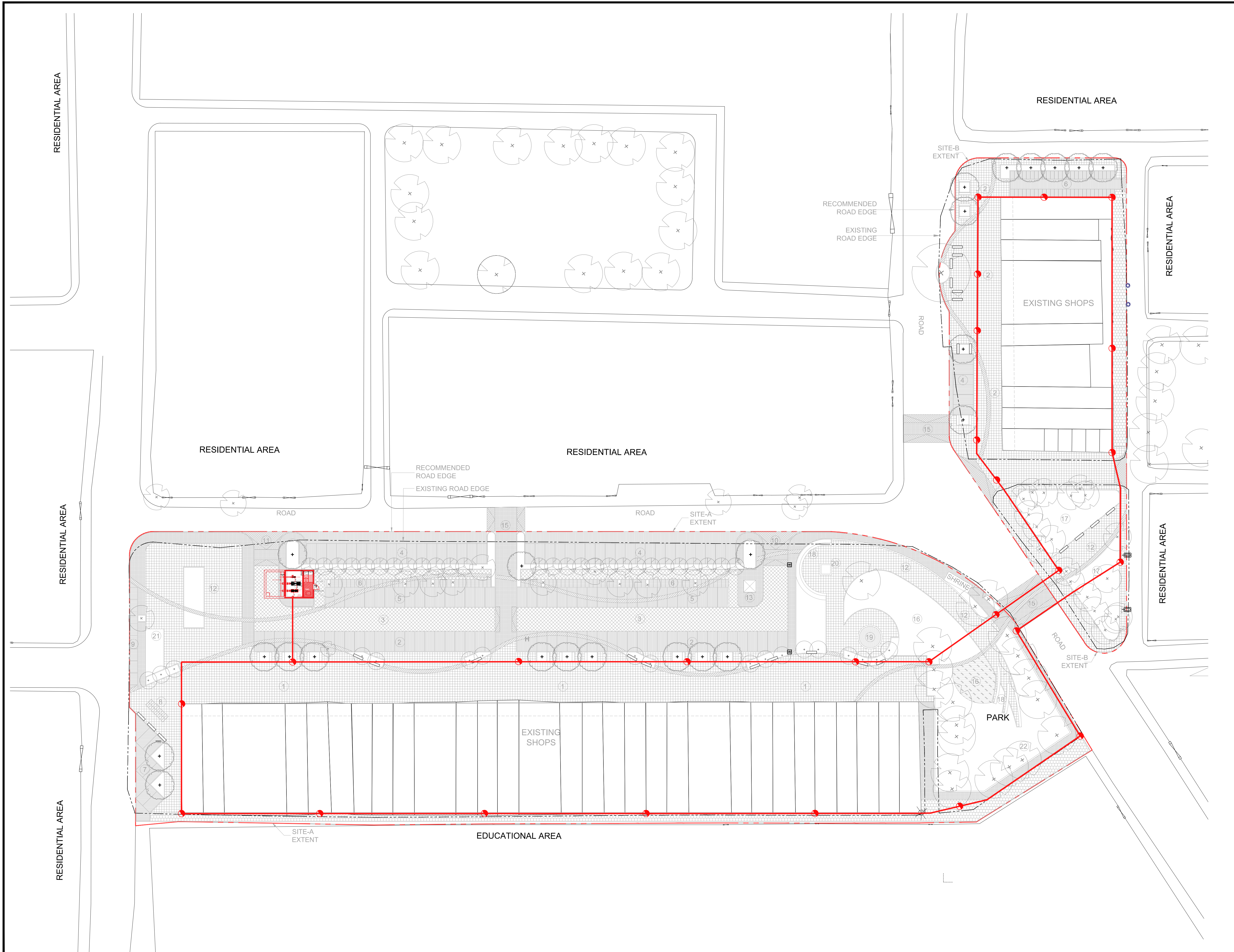
KEY MAP



- GENERAL NOTES :-**
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  3. IT IS THE RESPONSIBILITY OF THE BIDDER TO ASCERTAIN EXISTING SITE AREA AND CONDITION ALONG WITH INFORMATION PROVIDED IN DRAWING.
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  5. THIS DRAWING IS FOR INFORMATION ONLY.

**LEGENDS**

| WET UTILITY |                                     |
|-------------|-------------------------------------|
|             | 150mmØ HYDRANT PIPE LINE            |
|             | FIRE HYDRANT VALVE                  |
|             | FIRE UNDER GROUND TANK & PUMP HOUSE |



| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT/OWNER: LUDHIANA SMART CITY LIMITED

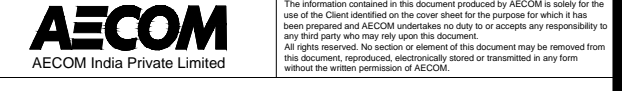
PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER DATE: 21/02/2017

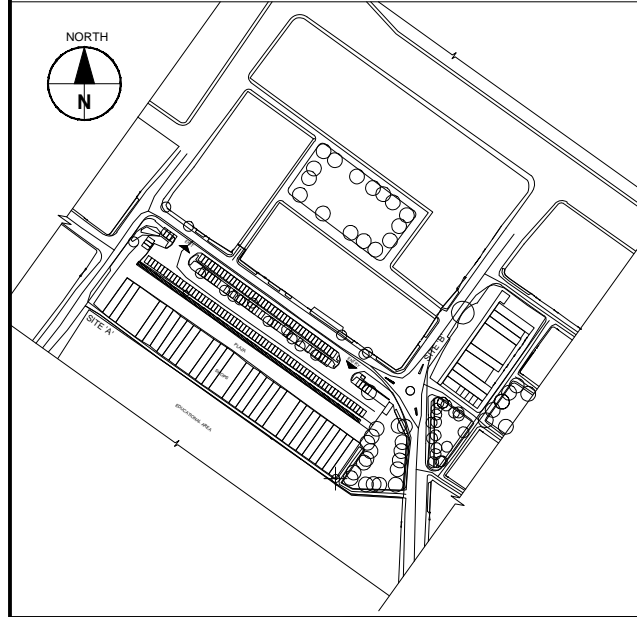
DRAWING TITLE: RETROFITTING SCHEME: PROPOSED FIRE FIGHTING NETWORK

| SCALE | SHEET NO. | DRAWING NUMBER            | REV. |
|-------|-----------|---------------------------|------|
| 1:300 | A0        | DELD-LSCL-100-TP-RSN-3011 |      |



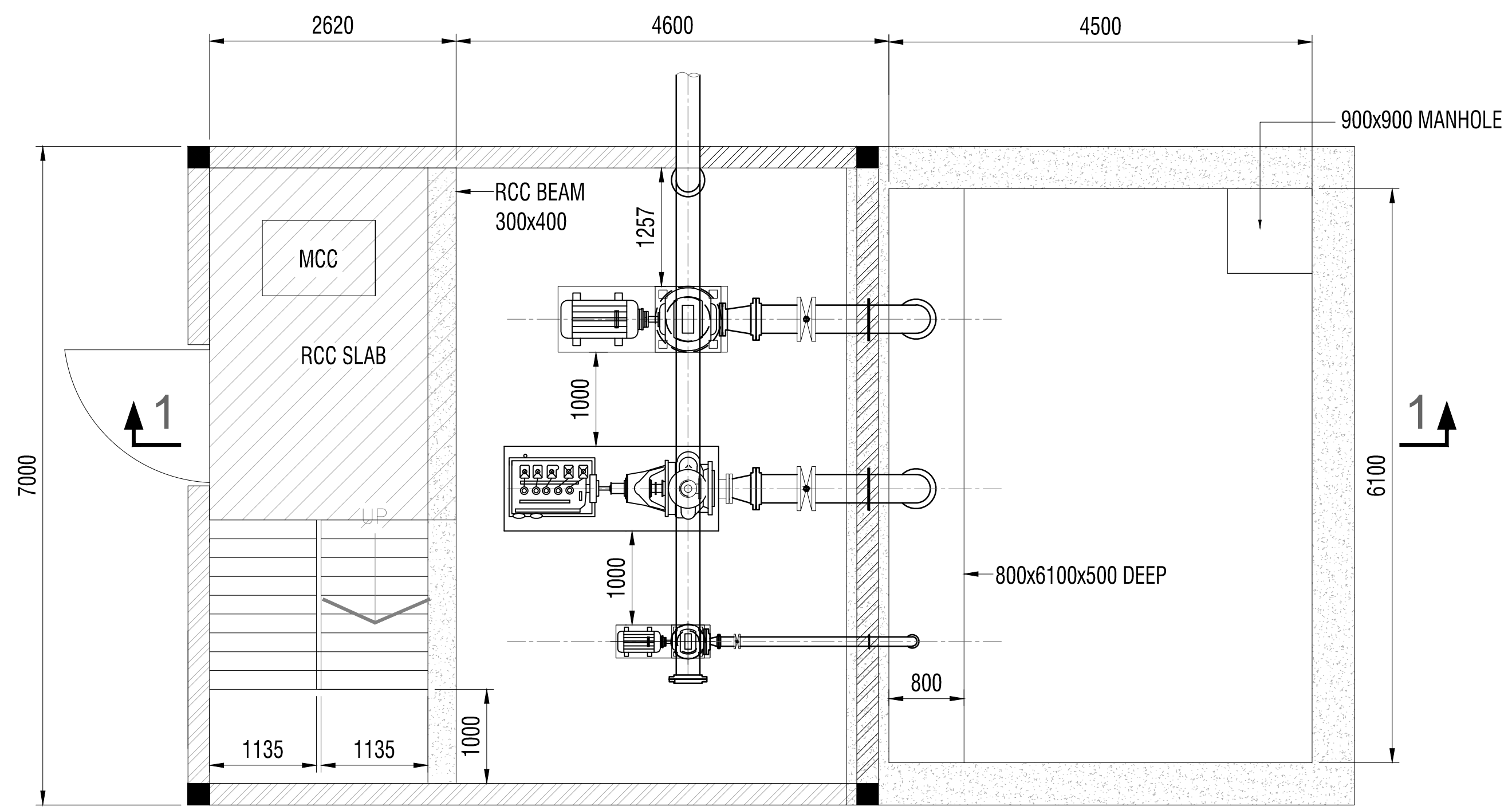


KEY MAP

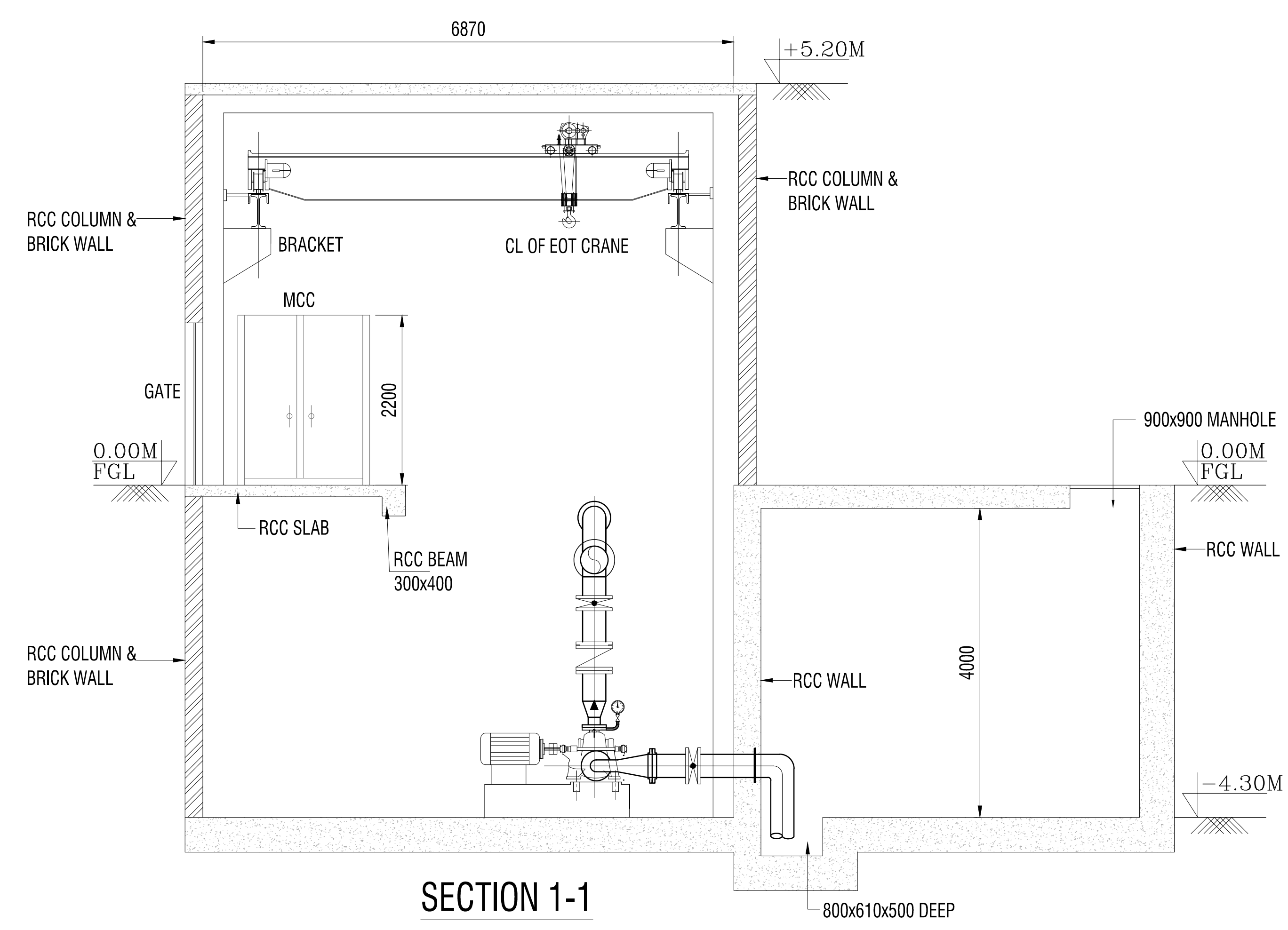


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  5. THIS DRAWING IS FOR INFORMATION ONLY.

- NOTES**
1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M, UNLESS OTHERWISE SPECIFIED.
  2. THIS DRAWING SHALL BE MODIFIED BASED ON THE DETAILED DESIGN FROM DBO CONTRACTOR.
  3. LAYOUT DIMENSIONS ARE TENTATIVE. BIDDER HAS TO ASSESS THE PUMP HOUSE DIMENSION BASED ON SELECTION OF PUMPS & ELECTRO-MECHANICAL EQUIPMENTS.
  4. BUTTERFLY VALVE SHALL BE CONFORMING TO IS: 13095/AWWA C504 AND NON RETURN VALVE SHALL BE CONFORMING TO AWWA C508.
  5. ALL REDUCERS IN THE SUCTION SIDE ARE ECCENTRIC TYPE WITH FLAT SIDE UP (FSU) AND CONCENTRIC TYPE FOR DISCHARGE SIDE.
  6. THE MATCHING FLANGES OF THE SUCTION & DELIVERY PIPELINES SHALL BE MATCH WITH THE PUMPS FLANGES. (AS PER PUMP SUPPLIERS DRAWINGS)
  7. ALL PIPING SHALL BE M.S BLACK ERW HEAVY GRADE PIPING AS PER IS: 1239 / IS: 3589
  8. THE MECHANICAL EQUIPMENTS / FOUNDATIONS SHOWN HERE ARE TENTATIVE, SHALL BE FINALISE.
  9. THE LEVELS ARE TENTATIVE AND ARE BASED ON FGL +0.00M.



PLAN

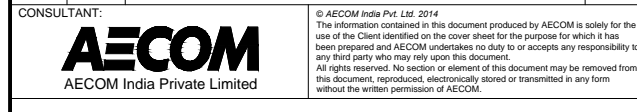


SECTION 1-1

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

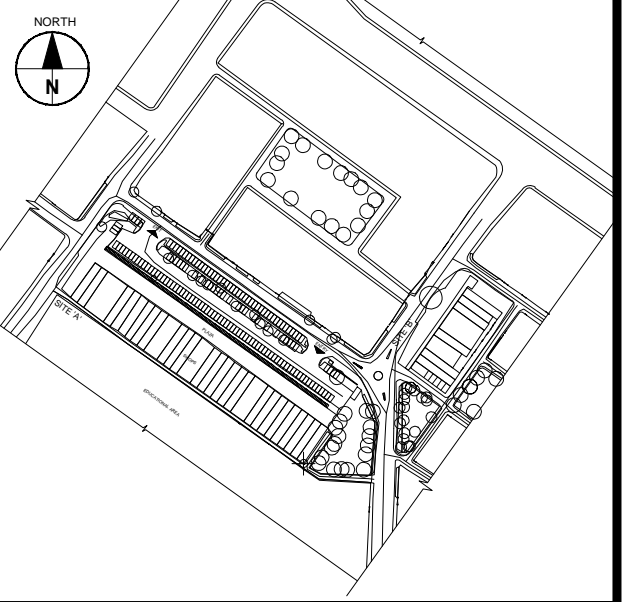
|                |   |
|----------------|---|
| CLIENT/OWNER:  | LUDHIANA SMART CITY LIMITED   |
| PROJECT:       | RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET               |
| PACKAGE:       | PRELIMINARY DESIGN REPORT   |
| PURPOSE:       | FOR TENDER  |
| DRAWING TITLE: | RETROFITTING SCHEME: PROPOSED FIRE FIGHTING RESERVOIR & PUMP HOUSE DETAIL |
| DATE:          | 21/02/2017  |

| SCALE | SIZE | DRAWING NUMBER              | REV. |
|-------|------|-----------------------------|------|
| A0    |      | DELD-LSCL-100 -TP- RSN-3012 |      |



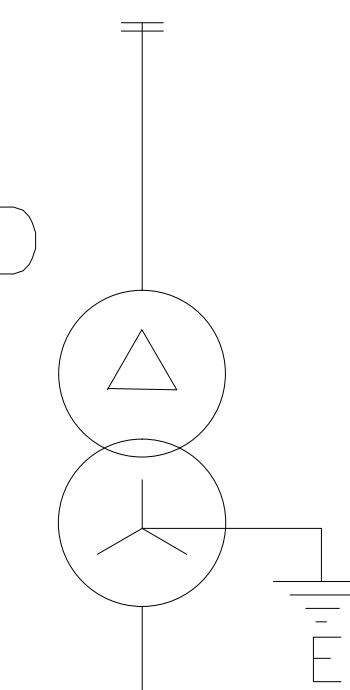


KEY MAP



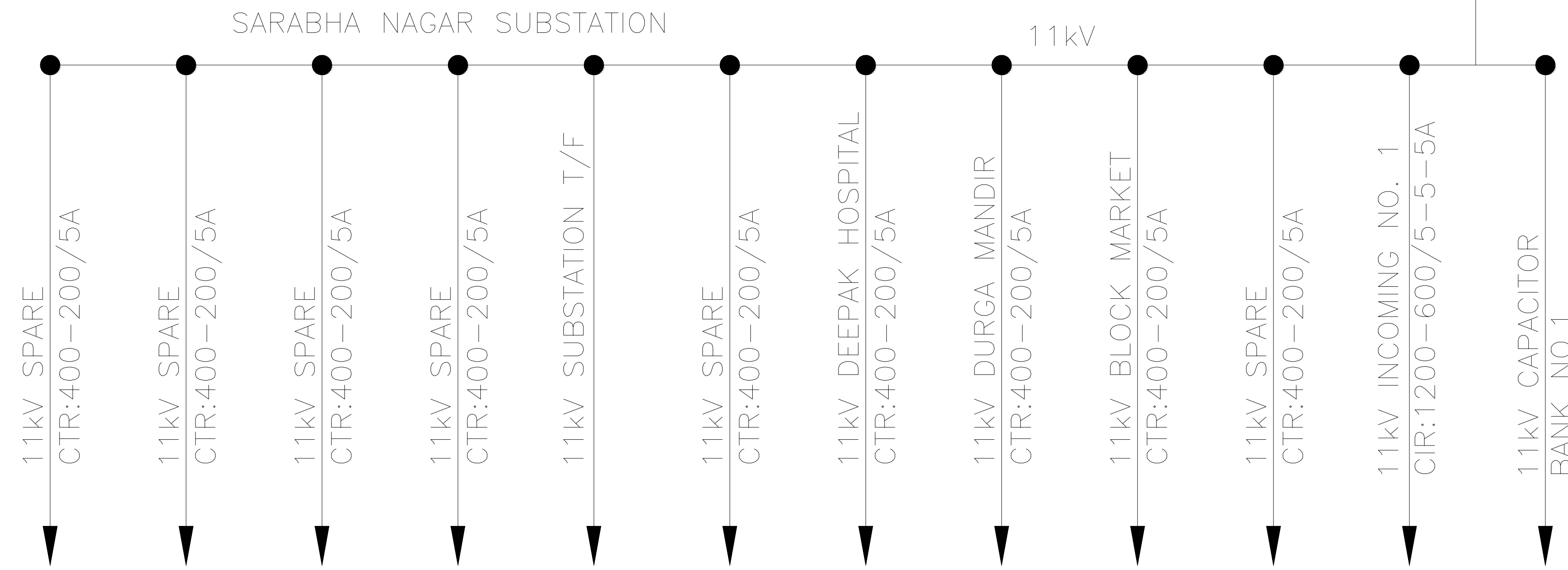
- GENERAL NOTES :-
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  5. THIS DRAWING IS FOR INFORMATION ONLY.

66 kV INCOMING LINE S/C  
CABLE FROM 220kV  
SUBSTATION FERROZPUR ROAD



66/11kV  
TRANSFORMER

3NO. S/C 11kV 300 SQ.MM XLPE



| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT/OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER DATE: 21/02/2017

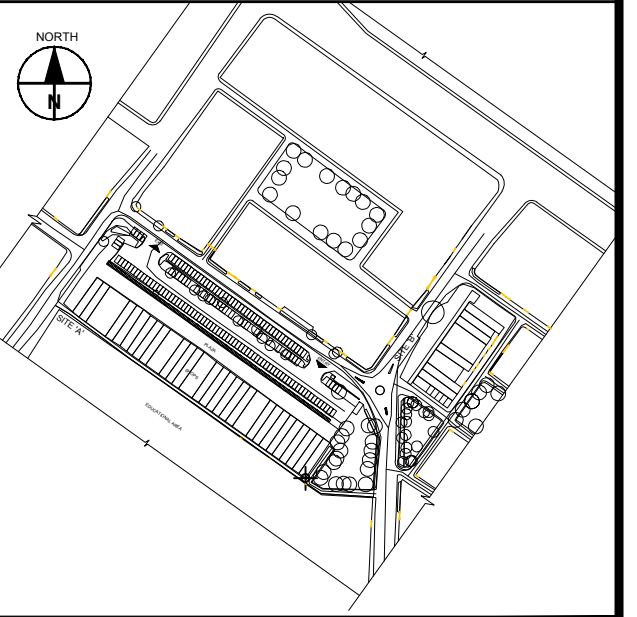
DRAWING TITLE: RETROFITTING SCHEME EXISTING POWER DISTRIBUTION

| SCALE | SHEET NO. | DRAWING NUMBER            | REV. |
|-------|-----------|---------------------------|------|
| A0    |           | DELD-LSCL-100-TP-RSN-3013 |      |

CONTRACT NO: AECOM India Private Limited



KEY MAP



GENERAL NOTES :-

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATION WITHIN THE PACKAGE.
- THESE DRAWINGS HAVE BEEN PREPARED FOR DETAILED DESIGN PURPOSE ONLY. IT IS TO BE USED FOR INFORMATION ONLY.
- ALL DIMENSIONS IN PLANS & DETAILS ARE IN METERS & MM RESPECTIVELY. DO NOT SCALE OFF THIS DRAWINGS WRITTEN DIMENSIONS TO BE TAKEN ONLY.
- ALL SURVEY & BASE PLANS USED ARE PROVIDED BY CLIENT.
- EXCEPT WHERE OTHERWISE EXPRESSLY AGREED IN WRITING, AECOM SHALL HAVE NO RESPONSIBILITY OR LIABILITY FOR ANY LOSS DIRECT, CONSEQUENTIAL.
- THIS DRAWING MUST NOT BE COPIED OR PART WITHOUT PRIOR WRITTEN CONSENT FROM AECOM.
- THIS DRAWING IS NOT FOR CONSTRUCTION AT SITE.

NOTE:  
SURROUNDING ROAD UPGRADATION WORKS AT PEDESTRIAN CROSSINGS IS FOR REFERENCE ONLY. THESE WORKS DO NOT FORM PART OF THE TENDER AND SHALL BE TAKEN UP SEPARATELY.  
HOWEVER PLAZA EXPANSION ALONG EXISTING ROAD EDGE IS UNDER SCOPE OF WORK OF THIS TENDER.

- ELECTRICAL (PROPOSED)**
- 750mmx1000mm(WxD) CABLE TRENCH(CT)
  - 750mmx1200mm(WxD) LT CABLE TRENCH IN BRID (CT)
  - 750mmx1500mm(WxD) LT CABLE TRENCH IN BRID (CT)(220 MTR)
  - 750mmx1000mm(WxD) LT CABLE TRENCH IN BRID (CT)
  - 1200mmx1500mm(WxD) LT CABLE TRENCH IN BRID (CT)
  - 750mmx1500mm(WxD) HT & LT COMMON CABLE TRENCH IN BRID (CT)
  - 500mmx1200mm(WxD) HT CABLE TRENCH IN BRID (CT)(165 MTR)
  - 750mmx1000mm(WxD) LT CABLE TRENCH IN BRID (CT)
  - CSS LOCATIONS(NEW)
  - METER BOX (NEW)
  - RMU (NEW)
  - 11 kV TRANSFORMER(NEW)
  - LIGHTING FEEDER PILLAR(NEW)
  - JUNCTION BOX FOR LIGHTING(NEW)
  - 300x600 BURIED CABLE TRENCH HOPE DUCT
  - LPBS PUSH BUTTON FOR PUMP(NEW)
- ELECTRICAL (EXISTING)**
- PVT. TRANSFORMER
  - OLD TRANSFORMER
  - 11 kV EXISTING OVERHEAD LINE
  - 415 VOLT EXISTING OVERHEAD LINE
  - 11 kV EXISTING OVERHEAD CABLE
  - EXISTING OVERHEAD 415V CONNECTION
  - EXISTING TELEPHONE CABLE
  - 11 kV EXISTING POLE
  - 415 VOLT EXISTING POLE
  - EXISTING LIGHT POLE
  - EXISTING CAMERA POLE
  - EXISTING TELEPHONE POLE
  - POLE (4 LIGHT)

- LED LIGHTING**
- SINGLE ARM -70W LED - 6M POLE -12 NOS
  - DOUBLE ARM -70W LED - 6M POLE -12 NOS
  - SINGLE ARM -35W LED - 6M POLE -2 NOS
  - DOUBLE ARM -70W+35W LED - 6M POLE -11NOS
  - DOUBLE ARM -35W + 35W LED - 6M POLE -15 NOS
  - SINGLE ARM -70W LED - 6M POLE -3 NOS
  - DOUBLE ARM -70W + 35W LED - 6M POLE -3 NOS

**PRELIMINARY DRAWINGS**

| DESCRIPTION | DRWN | CHKD | DATE       |
|-------------|------|------|------------|
|             |      |      | 27.02.2017 |

CLIENT/OWNER: LUDHIANA SMART CITY LIMITED

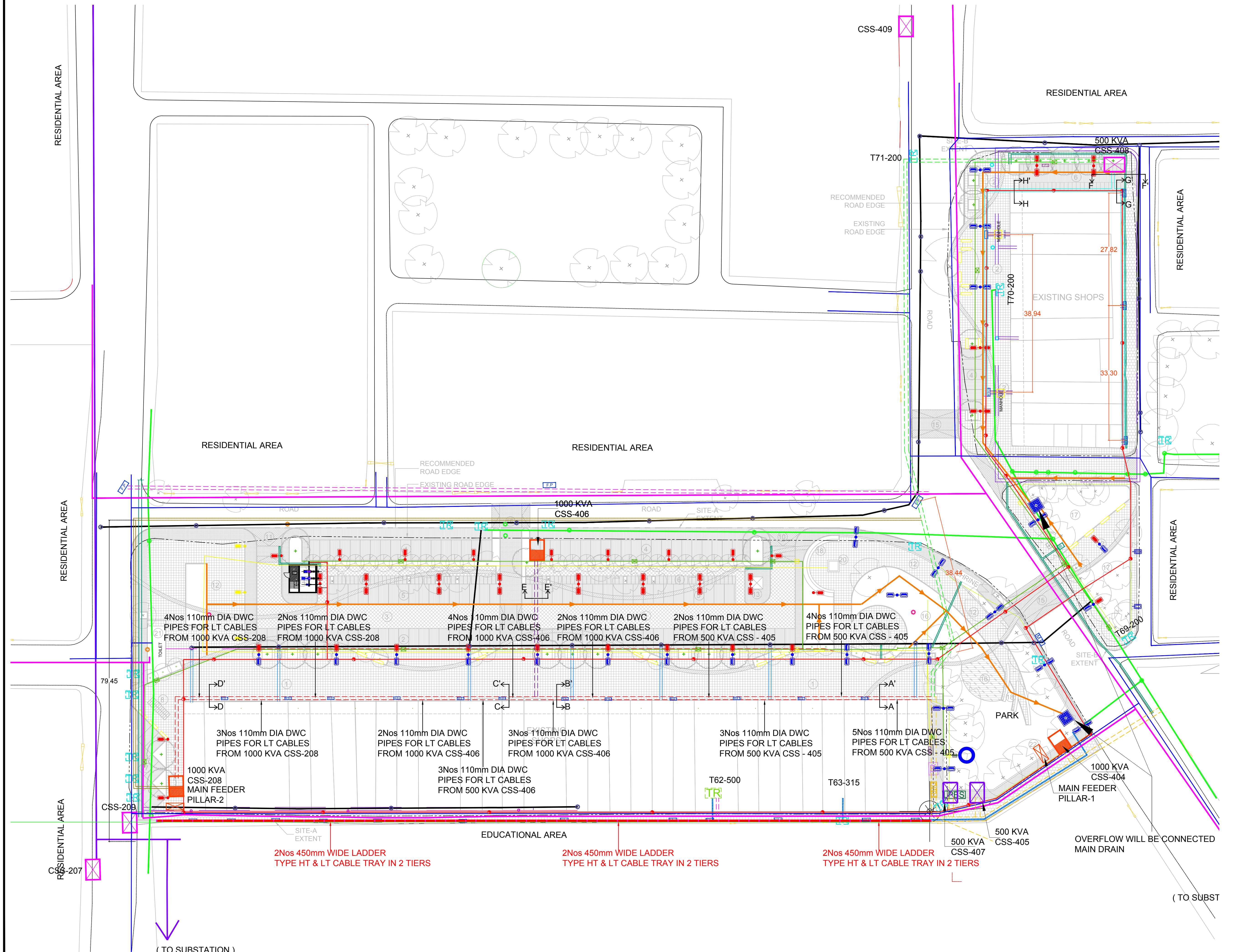
PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN STATUS: FOR TENDER

| DATE     | DATE |
|----------|------|
| 21/03/17 |      |

DRAWING TITLE: RETROFITTING SCHEME: PROPOSED ELECTRICAL NETWORK

| DATE | DATE | DATE | DATE |
|------|------|------|------|
|      |      |      |      |



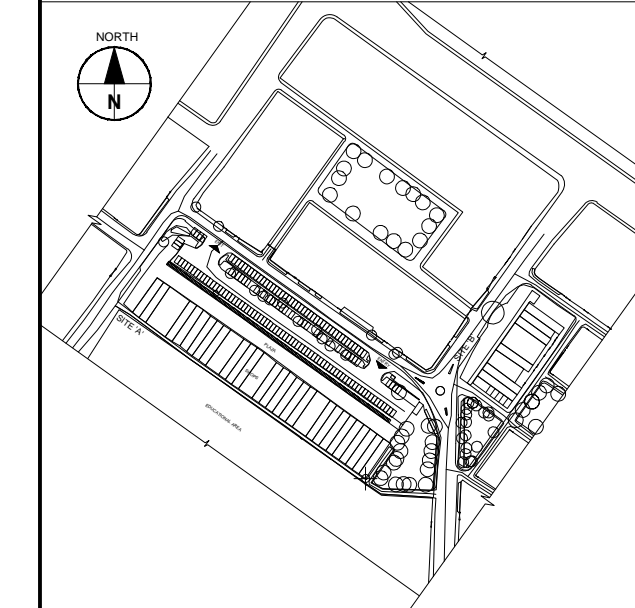
( TO SUBST )

( TO SUBST )

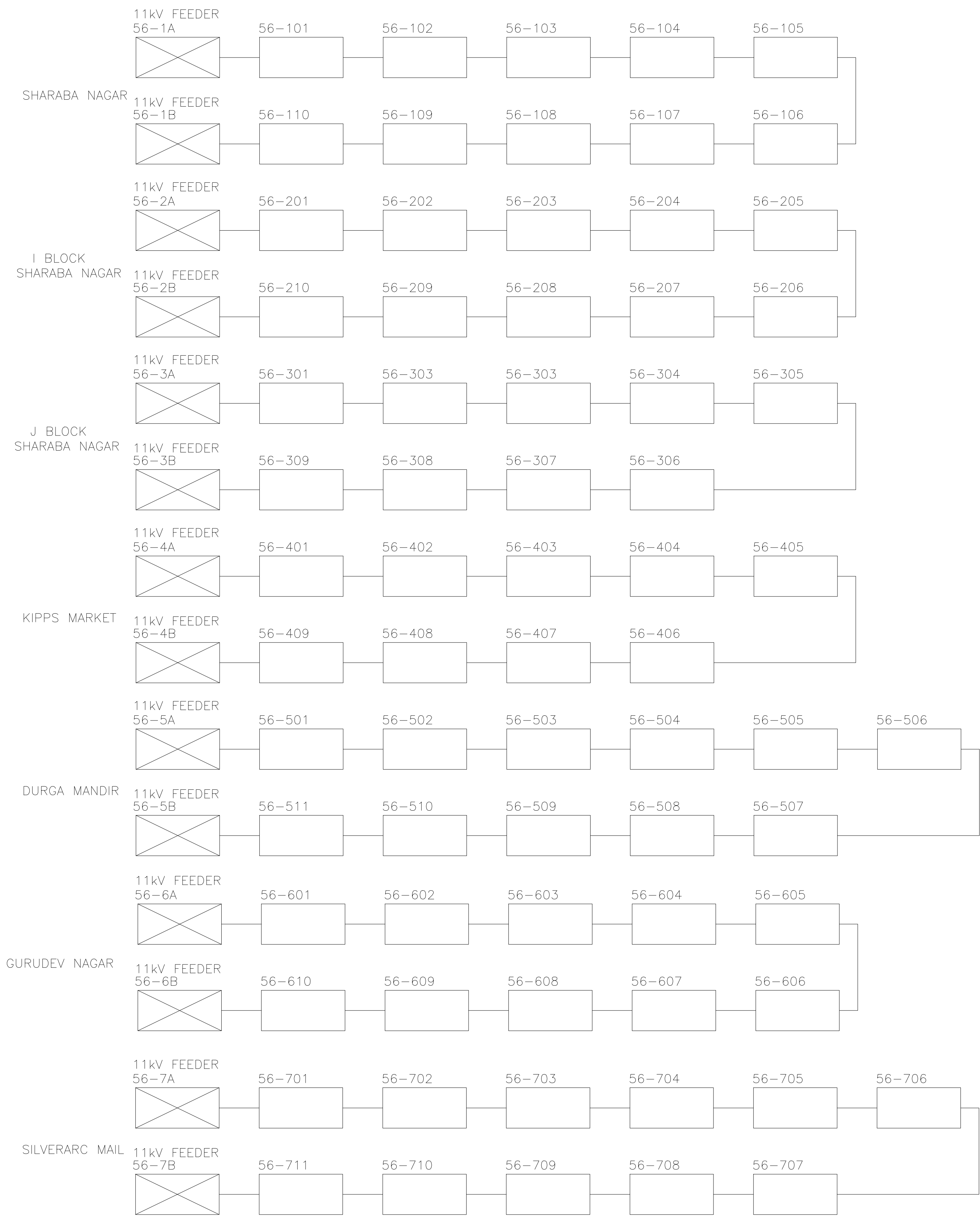


LUDHIANA SMART CITY

KEY MAP



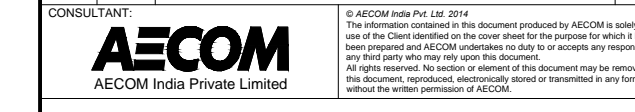
- GENERAL NOTES :-**
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| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

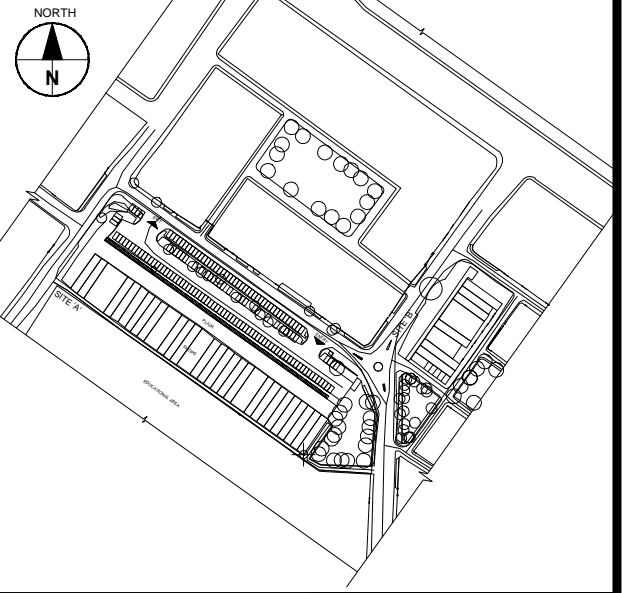
|                |   |
|----------------|---|
| CLIENT/OWNER:  | LUDHIANA SMART CITY LIMITED                                 |
| PROJECT:       | RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET |
| PACKAGE:       | PRELIMINARY DESIGN REPORT                                   |
| PURPOSE:       | FOR TENDER  |
| DATE:          | 21/02/2017  |
| DRAWING TITLE: | RETROFITTING SCHEME- PROPOSED SCHEMATIC DISTRIBUTION OF CSS |

| SCALE | SIZE | DRAWING NUMBER            | REV. |
|-------|------|---------------------------|------|
| A0    |      | DELD-LSCL-100-TP-RSN-3015 |      |





KEY MAP



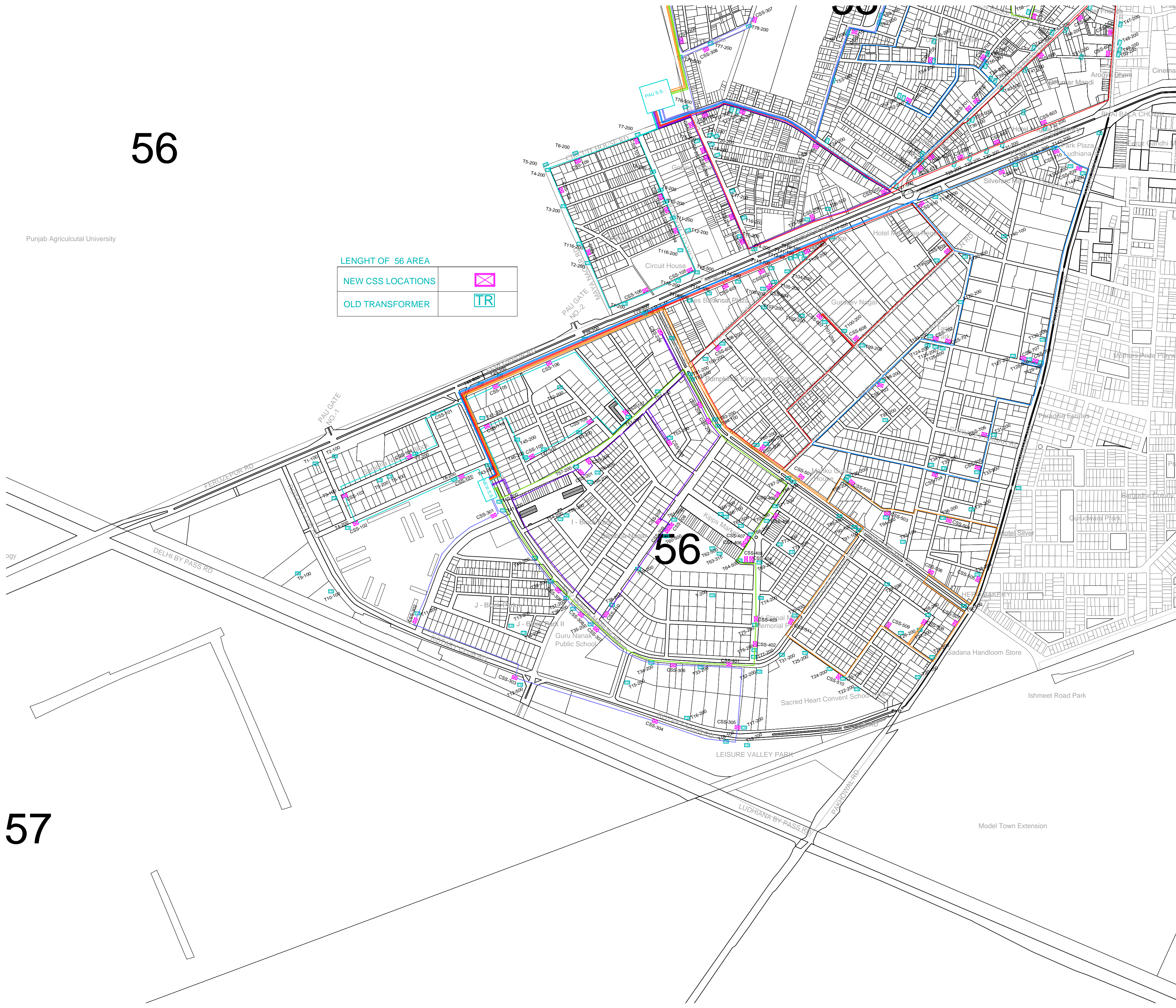
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56

Punjab Agricultural University

|                   |  |
|-------------------|--|
| LENGHT OF 56 AREA |  |
| NEW CSS LOCATIONS |  |
| OLD TRANSFORMER   |  |



57

| CSS NO                | Distance KM | CSS NO                | Distance KM |
|-----------------------|-------------|-----------------------|-------------|
| SS-101 S.S. TO 56-101 | 0.0679      | SS-501 S.S. TO 56-501 | 1.3426      |
| 101 TO 56-102         | 0.2735      | 501 TO 56-502         | 0.1856      |
| 102 TO 56-103         | 0.0659      | 502 TO 56-503         | 0.1190      |
| 103 TO 56-104         | 0.1998      | 503 TO 56-504         | 0.1730      |
| 104 TO 56-105         | 0.3240      | 504 TO 56-505         | 0.2624      |
| 105 TO 56-106         | 0.1312      | 505 TO 56-506         | 0.1967      |
| 106 TO 56-107         | 0.2521      | 506 TO 56-507         | 0.1893      |
| 107 TO 56-108         | 0.1405      | 507 TO 56-508         | 0.2446      |
| 108 TO 56-109         | 0.1547      | 508 TO 56-509         | 0.1325      |
| 109 TO 56-110         | 0.1723      | 509 TO 56-510         | 0.1834      |
| 110 TO S.S.           | 0.1670      | 510 TO 56-511         | 0.2054      |
|                       |             | 511 TO S.S.           | 1.8217      |
| SS-201 S.S. TO 56-201 | 0.2710      | SS-601 S.S. TO 56-601 | 0.9488      |
| 201 TO 56-202         | 0.0444      | 601 TO 56-602         | 0.1026      |
| 202 TO 56-203         | 0.2831      | 602 TO 56-603         | 0.1294      |
| 203 TO 56-204         | 0.3263      | 603 TO 56-604         | 0.2483      |
| 204 TO 56-205         | 0.1926      | 604 TO 56-605         | 0.2123      |
| 205 TO 56-206         | 0.0327      | 605 TO 56-606         | 0.3571      |
| 206 TO 56-207         | 0.2933      | 606 TO 56-607         | 0.6109      |
| 207 TO 56-208         | 0.0298      | 607 TO 56-608         | 0.1404      |
| 208 TO 56-209         | 0.0192      | 608 TO 56-609         | 0.3367      |
| 209 TO 56-210         | 0.2512      | 609 TO 56-610         | 0.1415      |
| 210 TO S.S.           | 0.4587      | 610 TO S.S.           | 1.4624      |
| SS-301 S.S. TO 56-301 | 0.0449      | SS-701 S.S. TO 56-701 | 1.9088      |
| 301 TO 56-302         | 0.3265      | 701 TO 56-702         | 0.0364      |
| 302 TO 56-303         | 0.3122      | 702 TO 56-703         | 0.1952      |
| 303 TO 56-304         | 0.3508      | 703 TO 56-704         | 0.5397      |
| 304 TO 56-305         | 0.2333      | 704 TO 56-705         | 0.1447      |
| 305 TO 56-306         | 0.3063      | 705 TO 56-706         | 0.0900      |
| 306 TO 56-307         | 0.2042      | 706 TO 56-707         | 0.3373      |
| 307 TO 56-308         | 0.0395      | 707 TO 56-708         | 0.0361      |
| 308 TO 56-309         | 0.0708      | 708 TO 56-709         | 0.5502      |
| 309 TO S.S.           | 0.2741      | 709 TO 56-710         | 0.0910      |
|                       |             | 710 TO 56-711         | 0.1507      |
|                       |             | 711 TO S.S.           | 1.6857      |
| SS-401 S.S. TO 56-401 | 0.7752      |                       |             |
| 401 TO 56-402         | 0.1028      |                       |             |
| 402 TO 56-403         | 0.0491      |                       |             |
| 403 TO 56-404         | 0.1465      |                       |             |
| 404 TO 56-405         | 0.0185      |                       |             |
| 405 TO 56-406         | 0.0738      |                       |             |
| 406 TO 56-407         | 0.0187      |                       |             |
| 407 TO 56-408         | 0.1012      |                       |             |
| 408 TO 56-409         | 0.0516      |                       |             |
| 409 TO S.S.           | 1.0156      |                       |             |

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|-------------|------|------|------|

CLIENT OWNER: LUDHIANA SMART CITY LIMITED

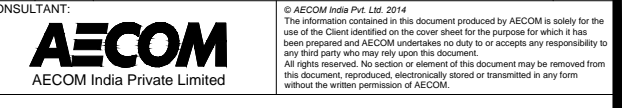
PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER DATE: 21/02/2017

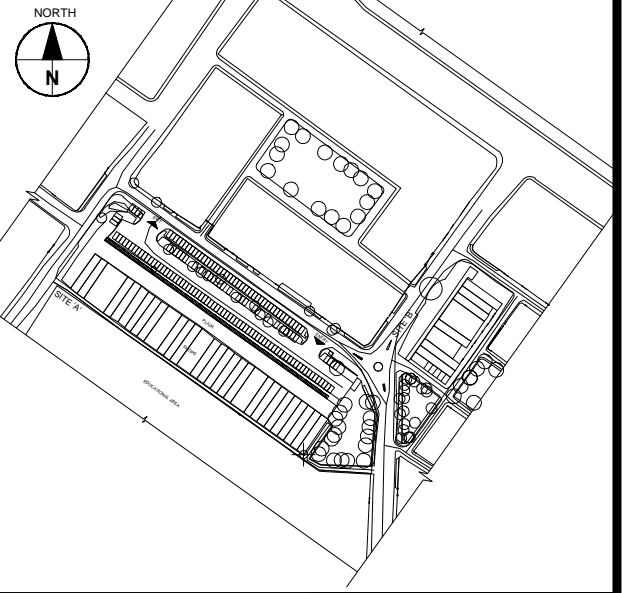
DRAWING TITLE: RETROFITTING SCHEME- PROPOSED NEW CSS LOCATIONS FOR ABD AREA 56

| SCALE | SHEET NO | DRAWING NUMBER            | REV |
|-------|----------|---------------------------|-----|
| 1:300 | A0       | DELD-LSCL-100-TP-RSN-3016 |     |



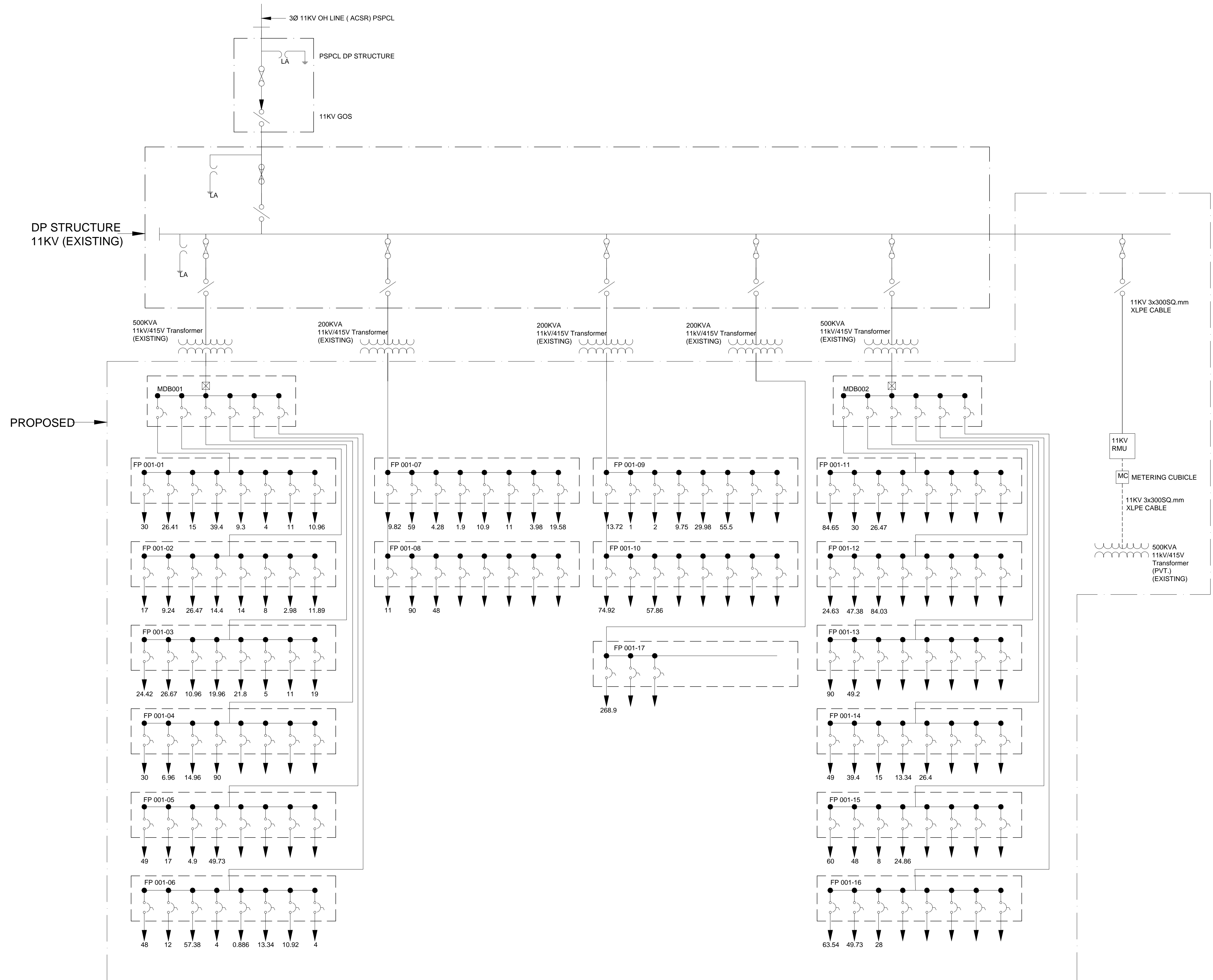


KEY MAP



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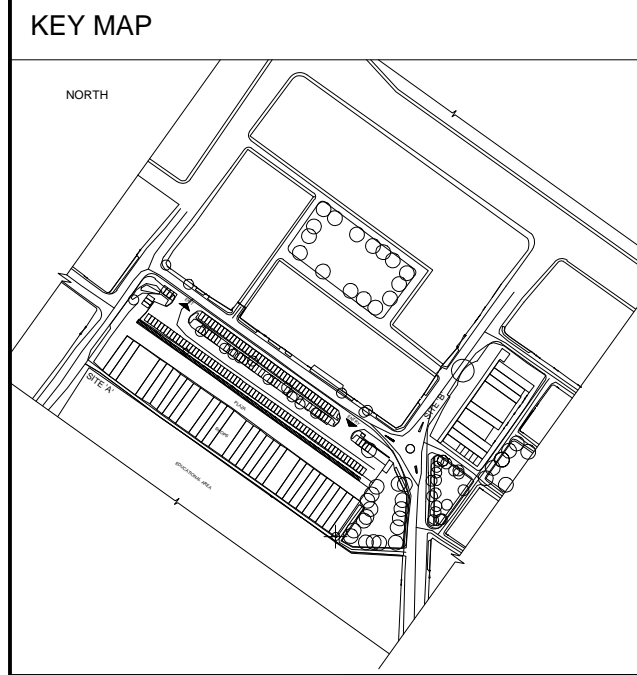


| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

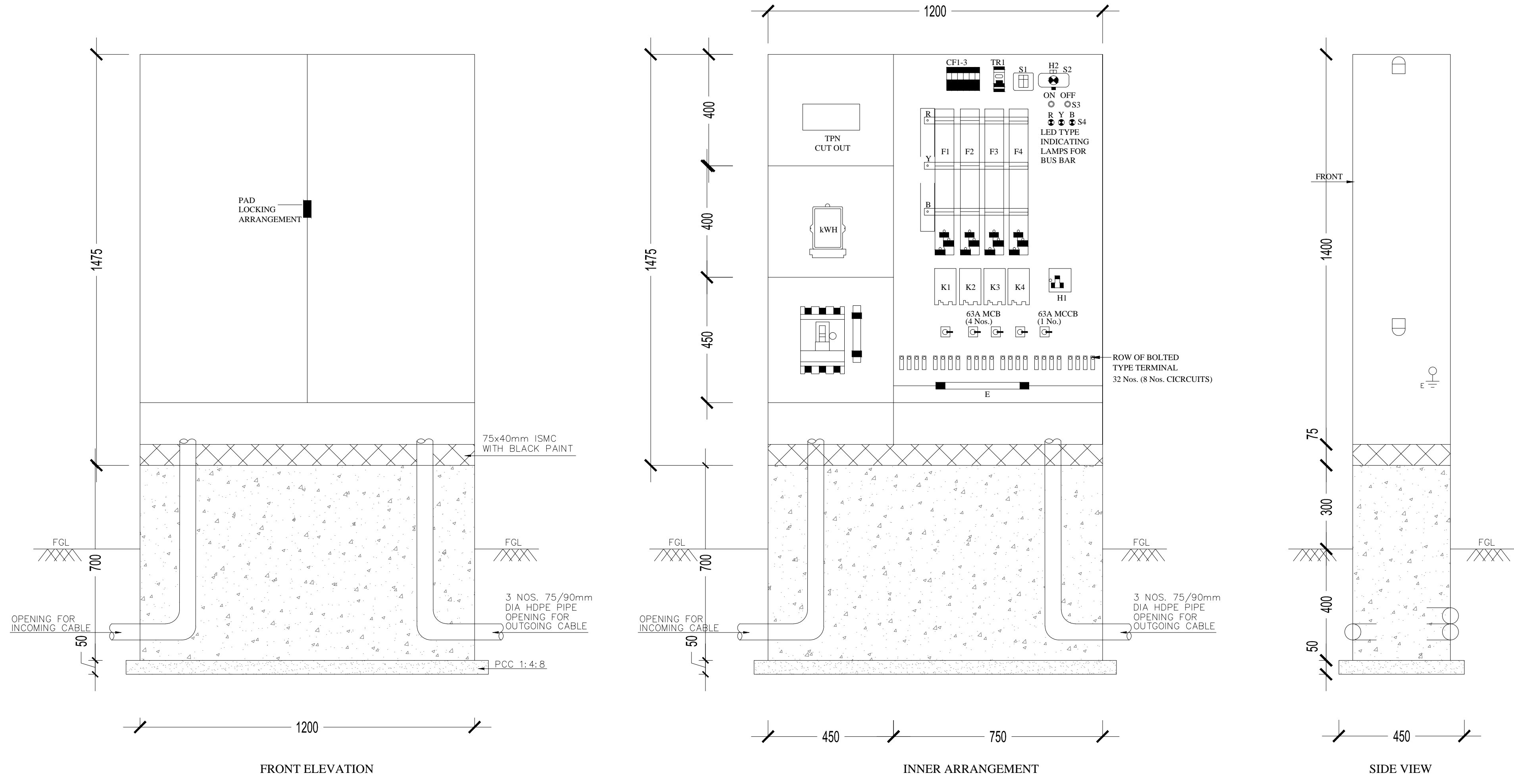
|                |  |
|----------------|--|
| CLIENT/OWNER:  | LUDHIANA SMART CITY LIMITED  |
| PROJECT:       | RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET                          |
| PACKAGE:       | PRELIMINARY DESIGN REPORT  |
| PURPOSE:       | FOR TENDER   |
| DRAWING TITLE: | RETROFITTING SCHEME- PROPOSED ARRANGEMENT OF FEEDER PILLAR FROM EXISTING TRANSFORMER |
| DATE:          | 21/02/2017   |

|               |    |                 |                           |
|---------------|----|-----------------|---------------------------|
| SCALE:        | A0 | DRAWING NUMBER: | DELD-LSCL-100-TP-RSN-3017 |
| CONTRACT NO.: |    |                 |                           |
|               |    |                 |                           |

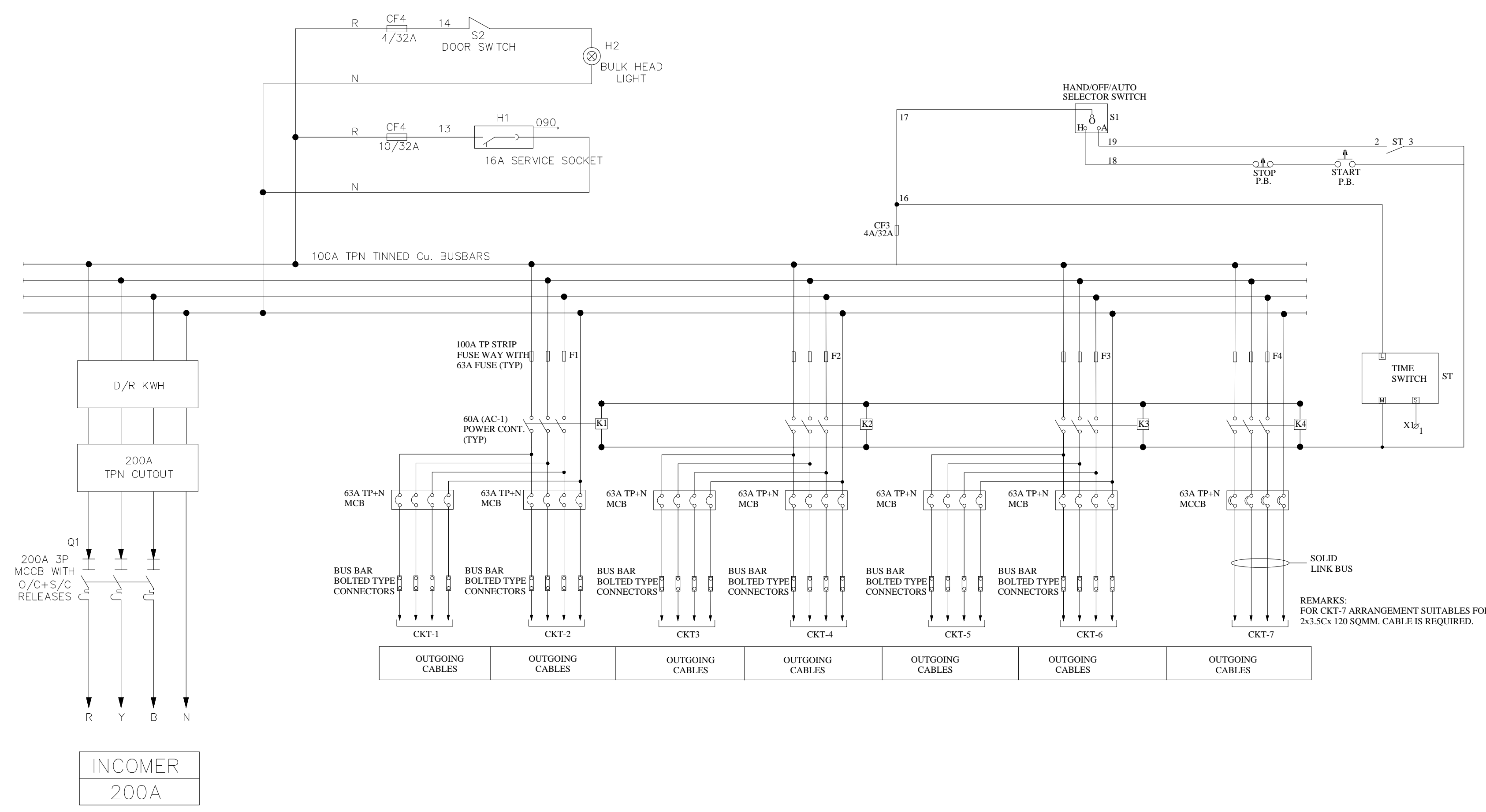




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TYPICAL GENERAL ARRANGEMENT FOR LIGHTING CONTROL PANEL



**BILL OF MATERIAL**

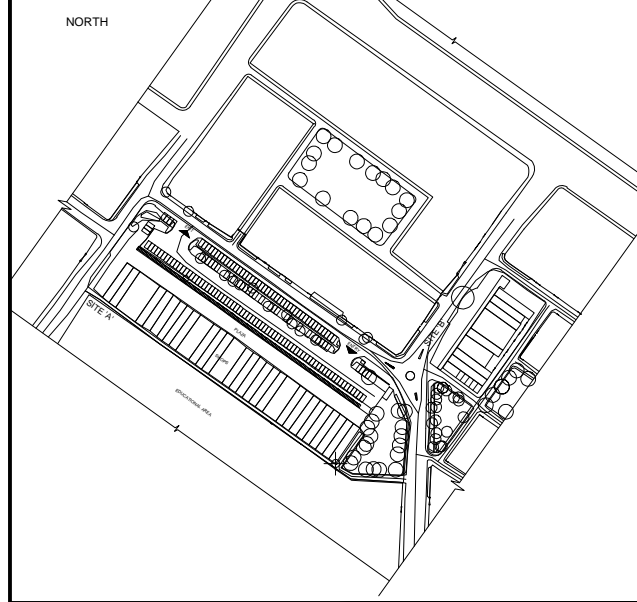
| REF.   | DESCRIPTION   | MAKE                 | TYPE                  | QTY.           |
|--------|---|----------------------|-----------------------|----------------|
| -      | IP 55, MS SHEET POWDER COATED ENCLOSURE                                 | -                    | H-1200xW-1000 D-350MM | 1 SET          |
| Q1     | 200A TP MCCB WITH O/L & S/C PROT. RELEASES                              | MERLIN GERIN / L&T   | 31630 OR EQUIVALENT   | 1 SET          |
| F1-F4  | 100A TP STRIP FUSE WAY WITH SIZE-00 'DIN' TYPE 63A HRC FUSES            | PRONUTEC / ASIATIC   | BTVA-PC-NH00-160A     | 4 SET          |
| K1-K4  | 60A 3P (AC-1) CONTACTOR WITH 240V AC COIL                               | TELEMECANIQUE        | LC1-D40UT             | 4 SET          |
| CUTOUT | 415V, 200A, SERVICE CUTOUT  | REPUTED              | TPN                   | 1 SET          |
| kwh    | 0-5A, kWh METER WITH A SET OF CTS                                       | SECURE / CONSERVE    | AL - ASR              | 1 SET          |
| TR1    | 24H & 7 DAYS, 1 CHANNEL DIGITAL TIME SWITCH                             | THERBEN/ASTRO        | TS610                 | 1 SET          |
| S1     | 3 POSITION SELECTOR SWITCH, AUTO/OFF/MANUAL                             | TELEMECANIQUE        | XB5AD33               | 1 SET          |
| S2     | DOOR SWITCH (SNAP ACTION WITH PUSH ROD)                                 | KAYCEE               | KLS 000-0B            | 1 SET          |
| S3     | PUSH BUTTON   | TELEMECANIQUE        | PUSH BUTTON TYPE      | 2 SET          |
| S4     | LED INDICATING LAMP   | TELEMECANIQUE        | LED TYPE              | 2 SET          |
| H1     | 240V AC, POWER SOCKET   | LEGRAND              | METAL CLAD            | 1 SET          |
| H2     | 240V AC, 60W BULKHEAD LIGHT   | REPUTED              | E72                   | 1 SET          |
| CF1-4  | 32A, 1P ISOLATABLE FUSE CARRIER 4A, 10x38 DISTRIBUTION FUSE, TYPE gl-99 | MERLIN GERIN SODOMEQ | ST(15636) 6012 0004   | 2 SET<br>1 SET |
| Ⓢ      | 63A 10KA MCB  | MDS / HAGER          | 4 POLE                | 6 SET          |
| Ⓢ      | 63A 10KA MCCB   | MDS / HAGER          | 4 POLE                | 1 SET          |
| Ⓢ      | BOLTED TYPE BUS BAR TERMINALS (63A)                                     | ELMEX                | LINK TYPE             | 24 SET         |

- NOTES:**
1. ALL DIMENSIONS ARE IN mm.
  2. MAIN SUPPLY : 415V, 3Ø, 50Hz, AC
  3. CONTROL SUPPLY : 240V, 1Ø, 2W, 50Hz, AC
  4. INSTALLATION : OUTDOOR - PLINTH MOUNTED.
  5. DEGREE OF PROTECTION : IP-55
  6. COLOUR : RAL 7032/GREEN TO BE APPROVED BY CLIENT.
  7. MAIN BUSBAR : RATED CURRENT 100A : 25KA/1 SEC. S/C CURRENT : 1x40x5 TINNED CU. - PH. : 1x40x5 TINNED CU. - N. : 1x40x5 TINNED CU. - E.
  8. CONTROL WIRING : PVC Cu. LINKS : VOLTAGE CKT. - 1.5 SQMM.
  9. POWER CONNECTION : SOLID Cu. LINKS
  10. CABLE ENTRY : INCOMING - BOTTOM : OUTGOING - BOTTOM
  11. EARTHING : 50x6mm GI FLAT.
  12. BUSBAR SUPPORT : FRP / DMC
- REMARKS:**
1. SLD OF THE CONTROL SYSTEM ON LAMINATED SHEET TO BE KEPT IN FEEDER PILLAR. LP - LIGHTING POLE

| DESCRIPTION   | DRWN   | CHKD           | DATE                      |
|---------------|--|----------------|---------------------------|
| CLIENT OWNER  | LUDHIANA SMART CITY LIMITED  |                |                           |
| PROJECT       | RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET        |                |                           |
| PACKAGE       | PRELIMINARY DESIGN REPORT  |                |                           |
| PURPOSE       | FOR TENDER   | DATE           | 21/02/2017                |
| DRAWING TITLE | RETROFITTING SCHEME- PROPOSED GA AND SLD OF LIGHTING CONTROL PANEL |                |                           |
| SCALE         | A0   | DRAWING NUMBER | DELD-LSCL-100-TP-RSN-3018 |
| CONTRACT NO.  | AECOM Private Limited  |                |                           |

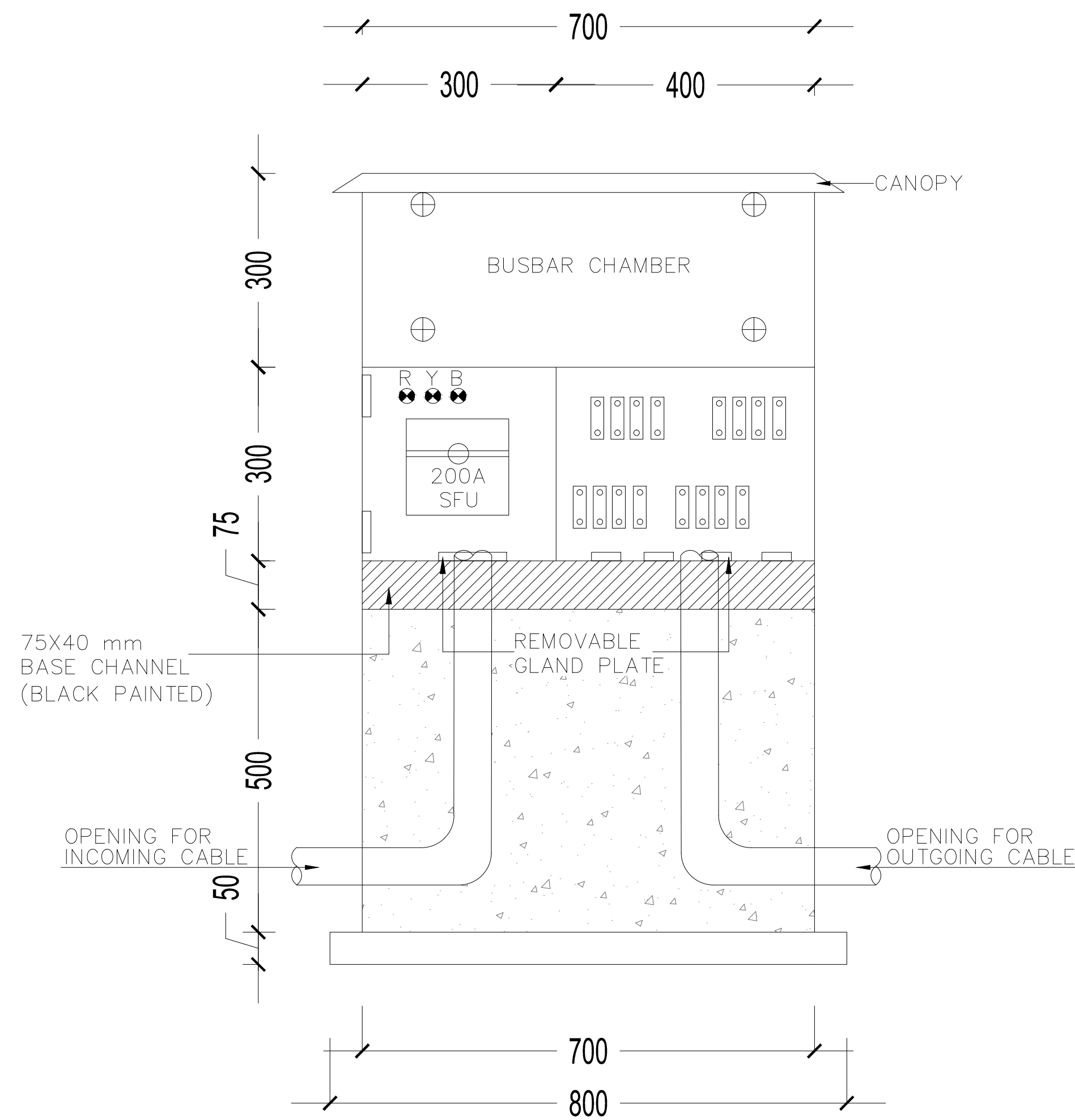


KEY MAP

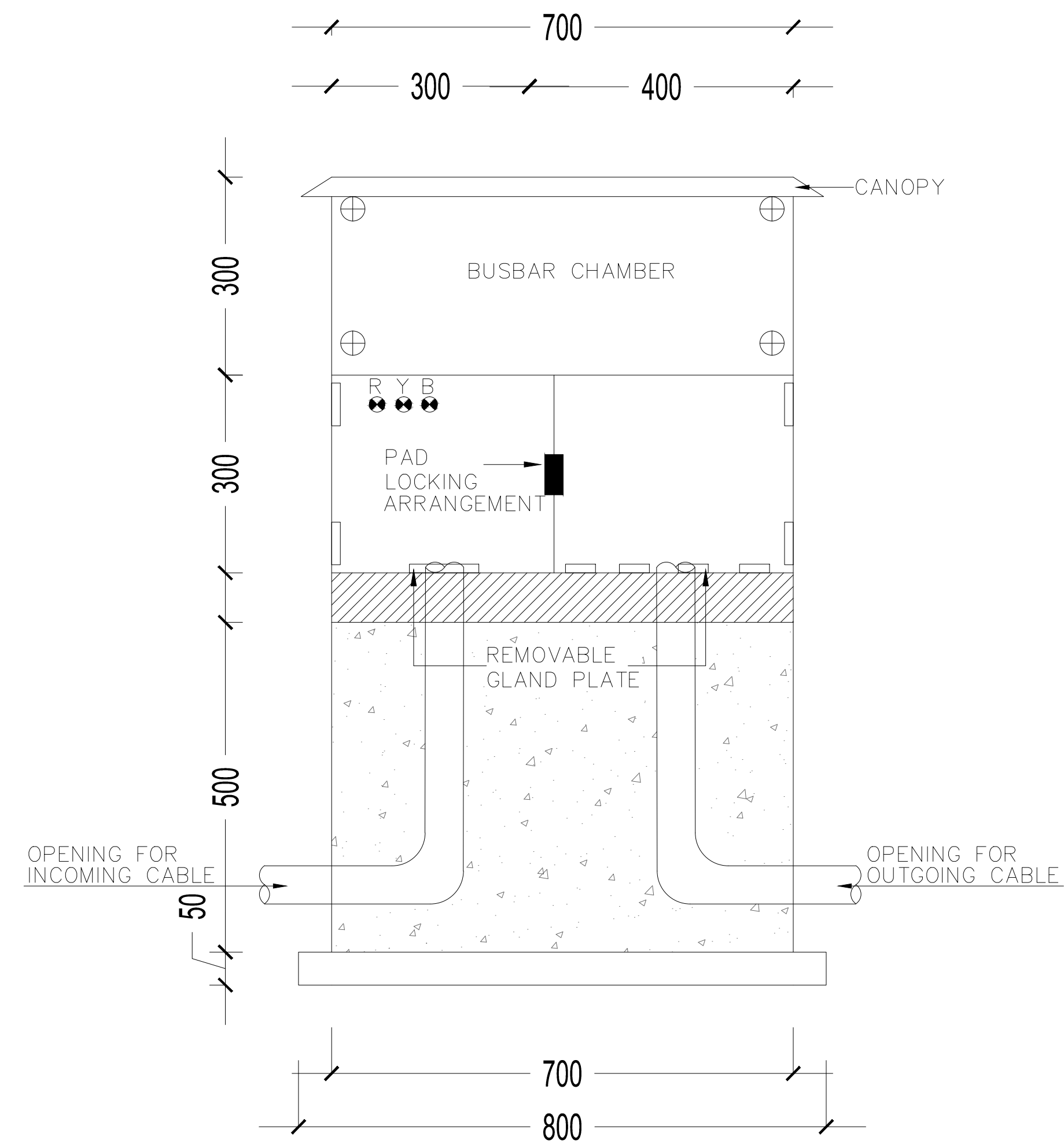


GENERAL NOTES :-

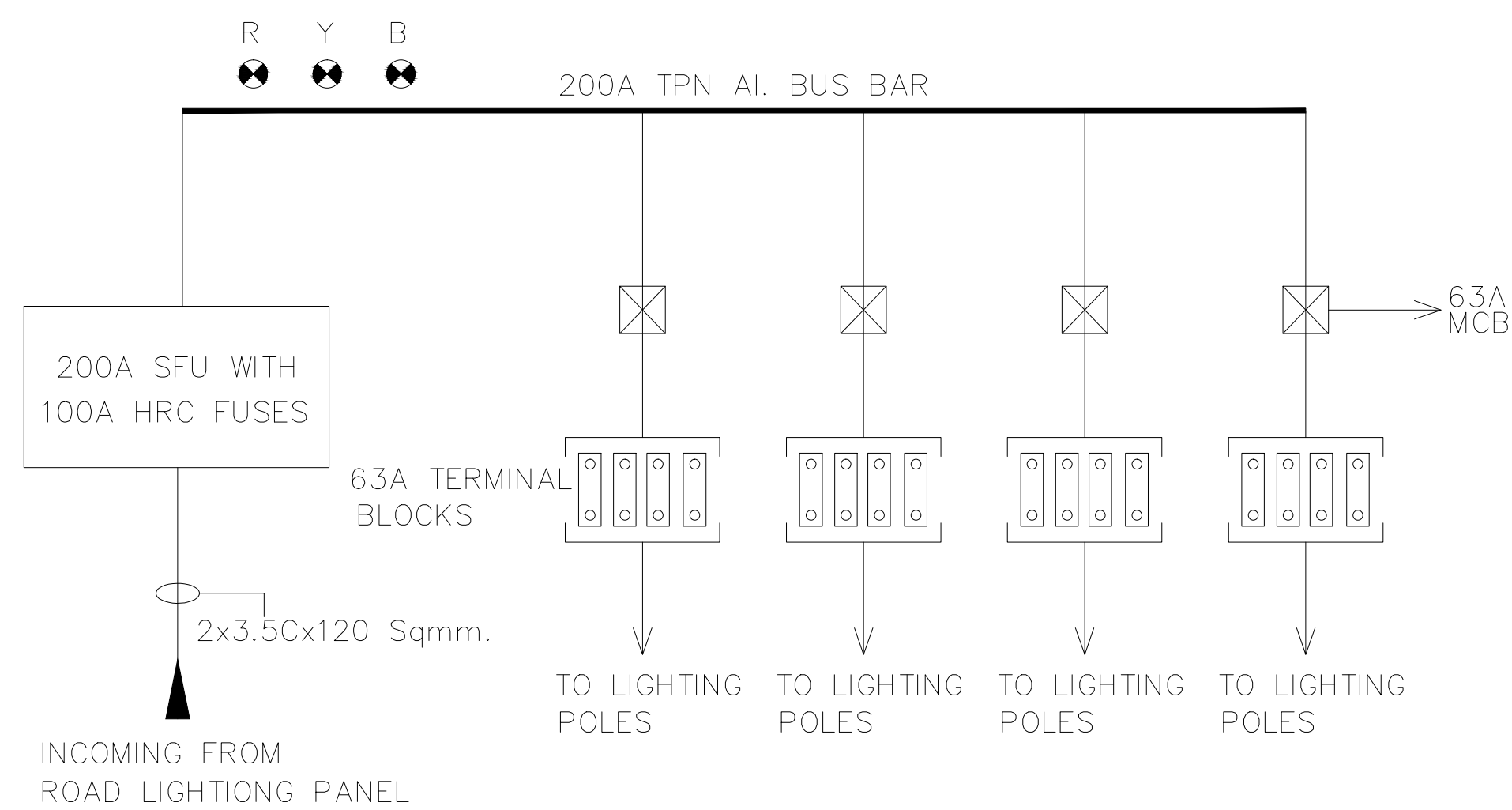
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FRONT VIEW (INNER DETAILS SHOWN)



FRONT VIEW (OUTER DETAILS SHOWN)



SINGLE LINE DIAGRAM

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

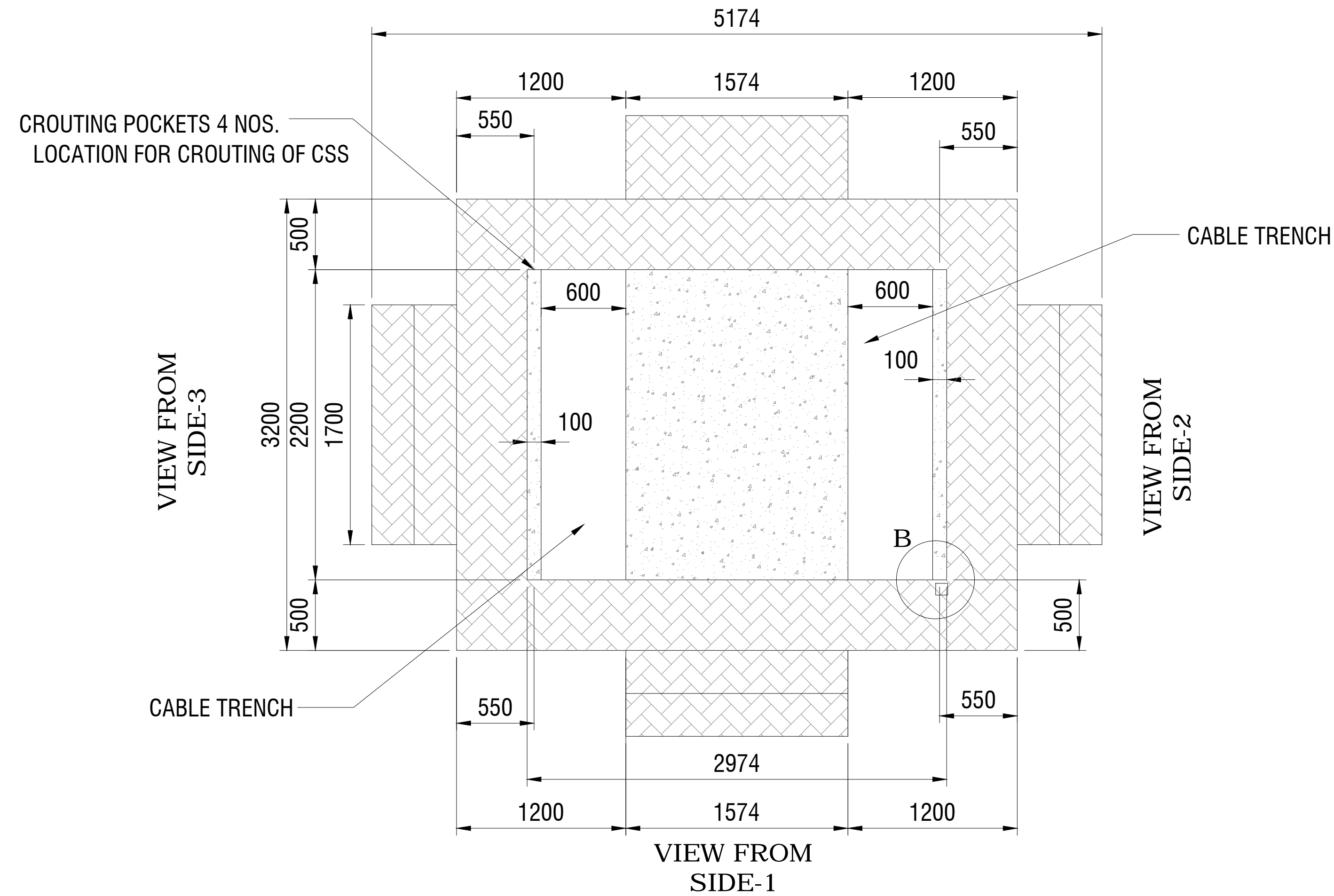
PURPOSE: FOR TENDER DATE: 21/02/2017

DRAWING TITLE: RETROFITTING SCHEME- PROPOSED GA AND FOUNDATION OF JUNCTION BOX

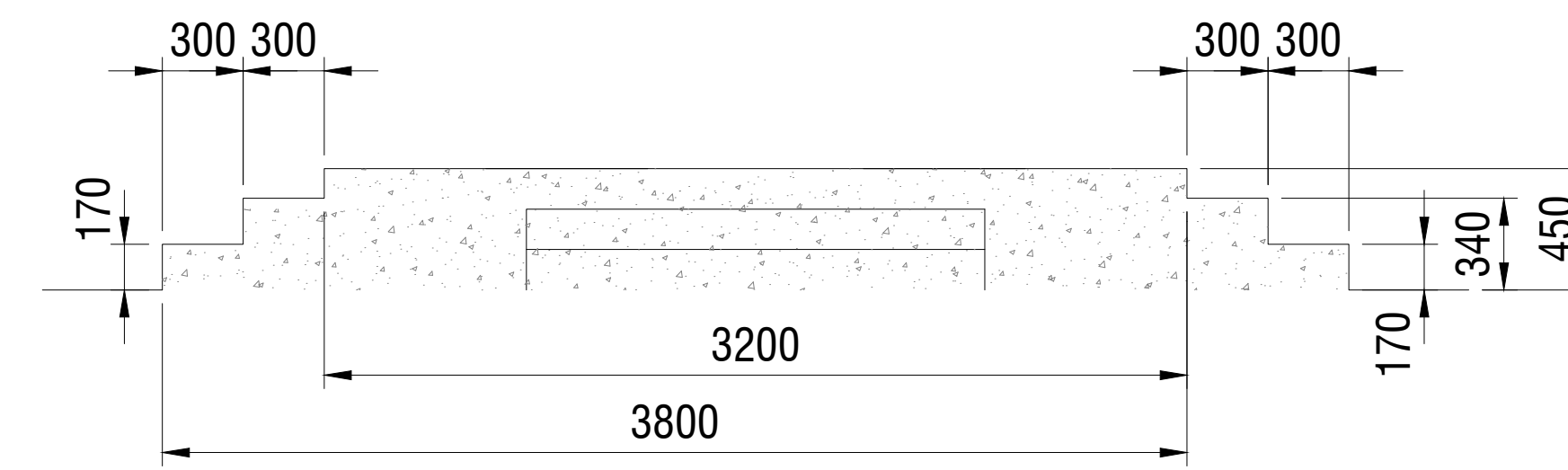
| SCALE | SIZE | DRAWING NUMBER             | REV. |
|-------|------|----------------------------|------|
| A0    |      | DELD-LSCL-100-TP- RSN-3019 |      |

CONTRACT NO: AECOM/INDIA/2017/02/001  
 AECOM India Private Limited

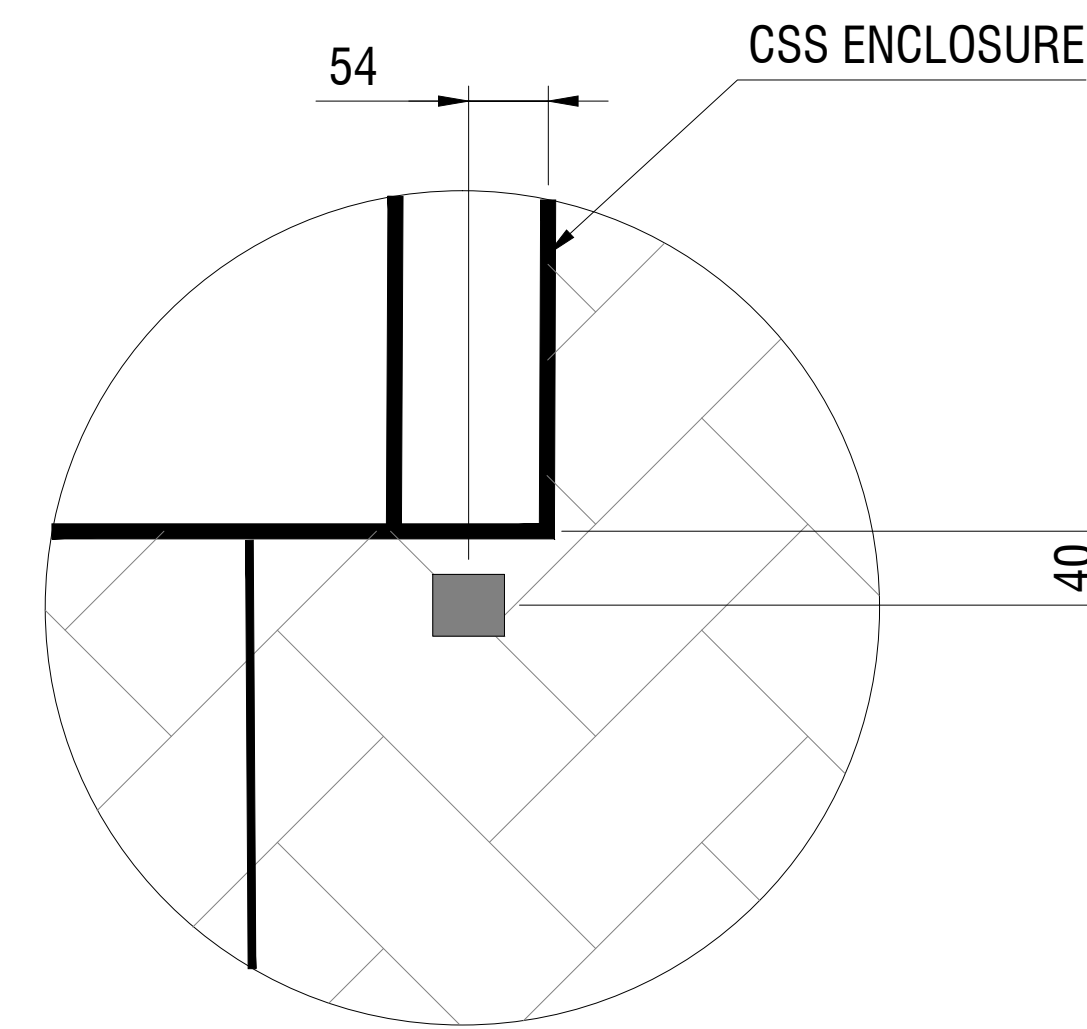




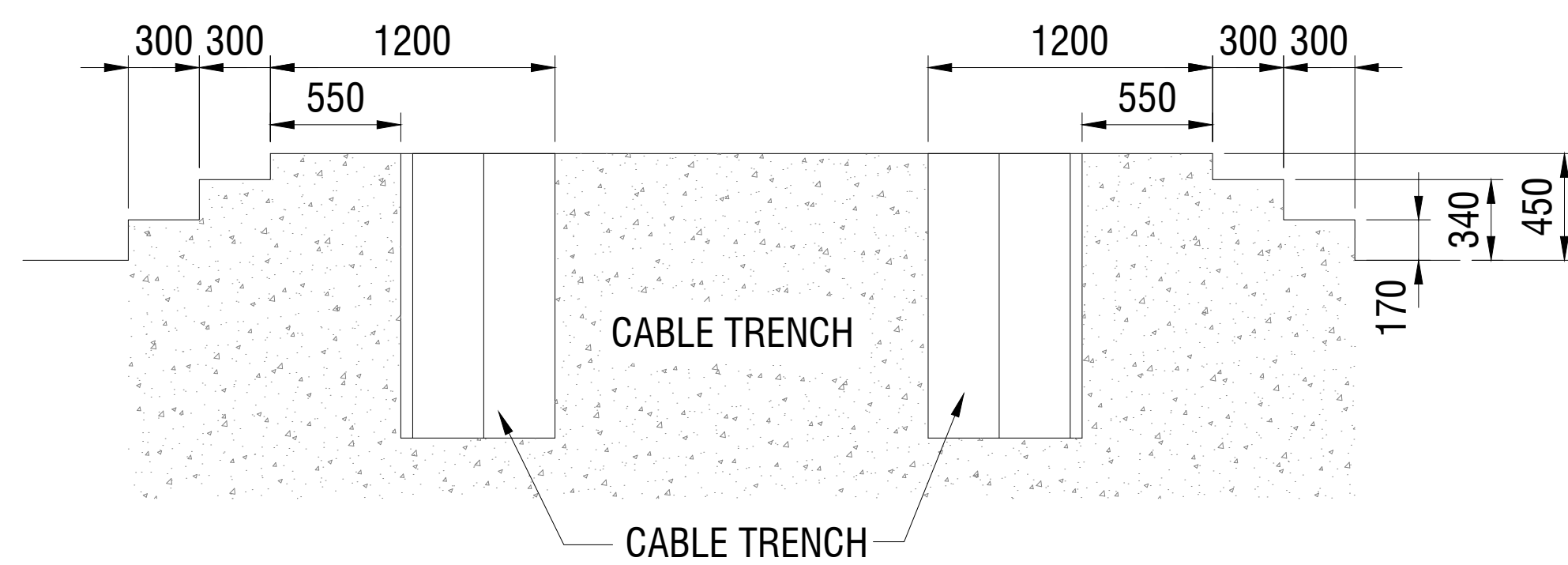
**FOUNDATION PLAN**  
SCALE 1:50



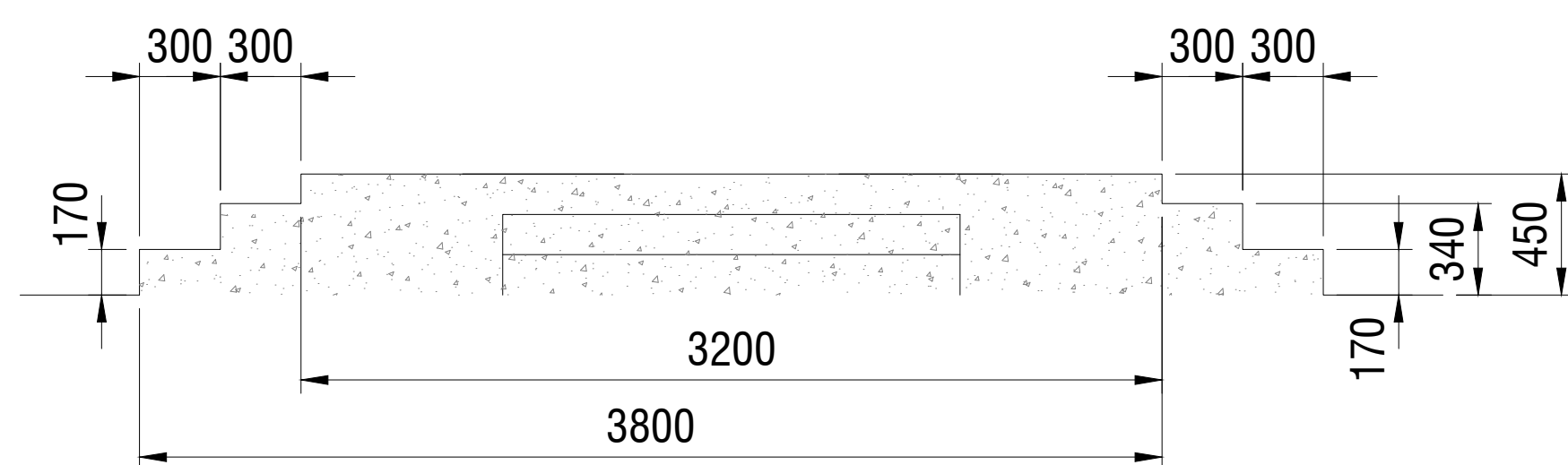
**VIEW FROM SIDE-3**  
SCALE 1:50



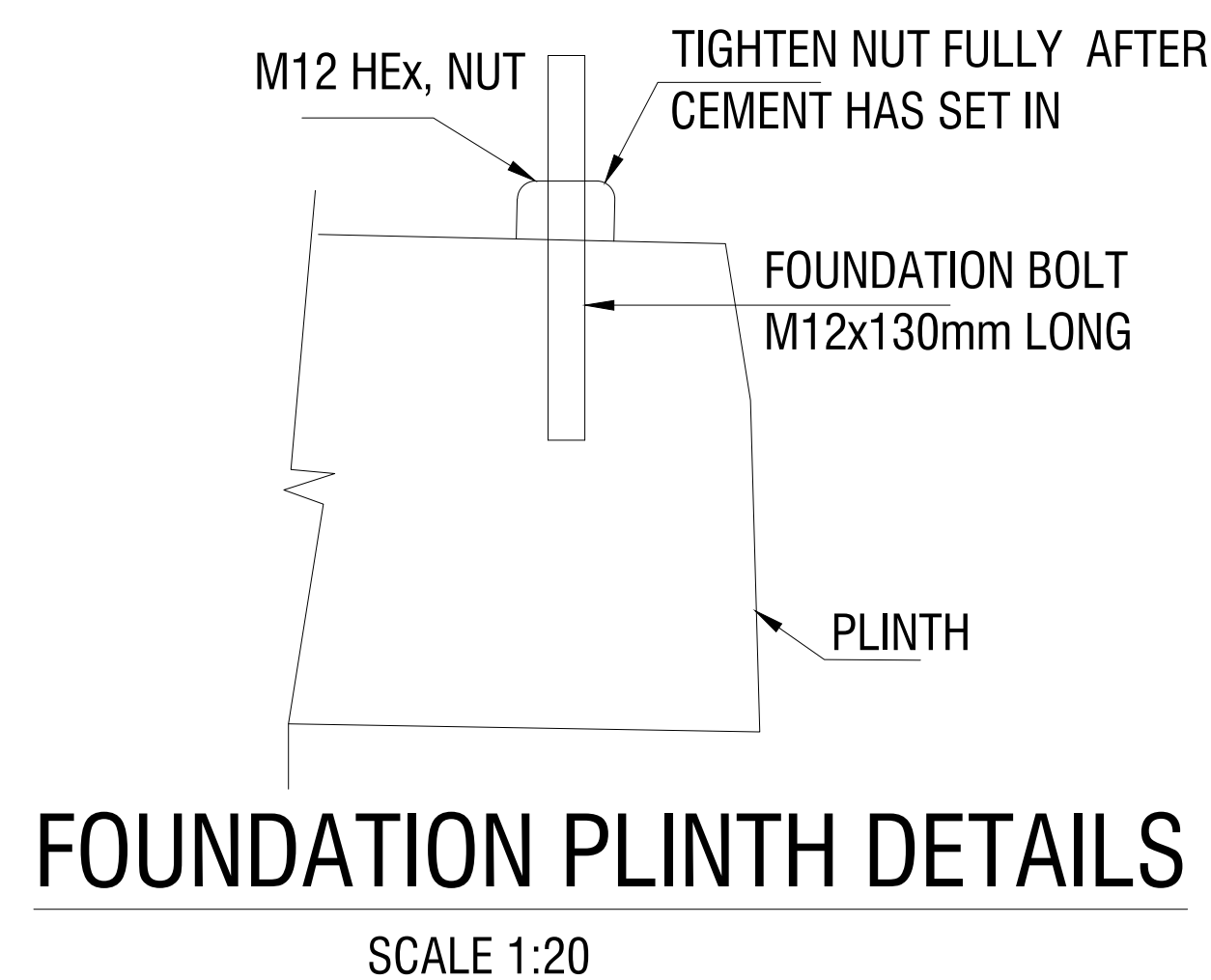
**DETAIL OF VIEW-B**  
SCALE 1:50



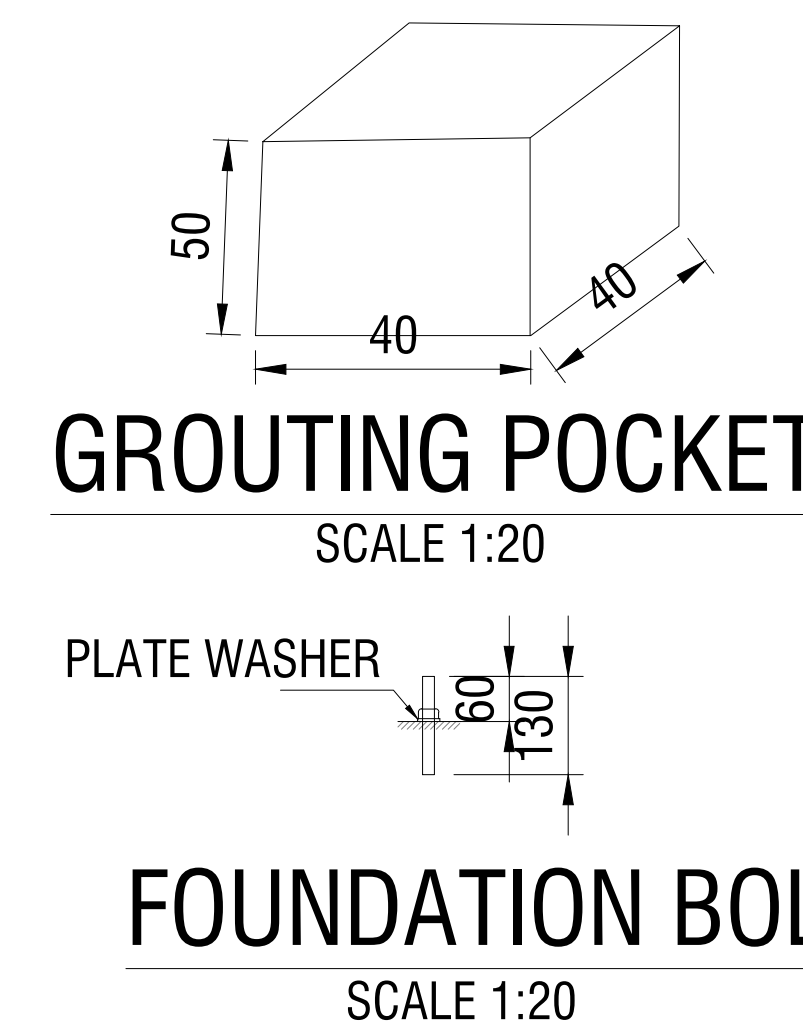
**VIEW FROM SIDE-1**  
SCALE 1:50



**VIEW FROM SIDE-2**  
SCALE 1:50



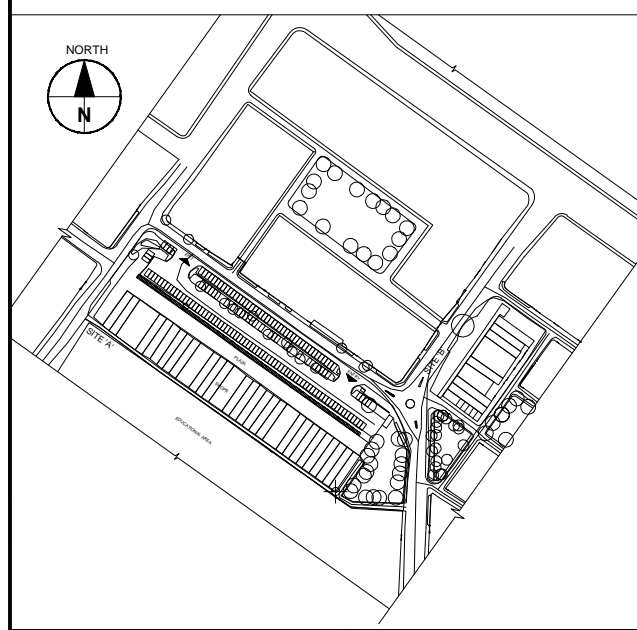
**FOUNDATION PLINTH DETAILS**  
SCALE 1:20



**GROUTING POCKET**  
SCALE 1:20

**FOUNDATION BOLT**  
SCALE 1:20

KEY MAP



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NOTES:-

1. REFER GA DRAWING CIVIL DETAILS OF PACKAGE SUBSTATION
2. FOUNDATION SHOULD BE SUITABLE FOR STATIC LOAD OF 9 TON
3. THIS IS REF. DRAWING FOR PREPARING THE REQUIRED CIVIL DRAWING CONSIDERING THE SITE CONDITION.
4. HT/LT CABLE SHOULD BE MIN 1.2 M
5. THE TOP OF THE PLINTH HAS TO BE LEVELED ( WITH MAX VARIATION OF 4MM). THIS IS ESSENTIAL FOR PROPER ALIGNMENT OF PACKAGED SUBSTATION DOORS.
6. PROVISION FOR EQUIPMENT EARTHING WILL BE PROVIDED FROM BOTTOM SIDE OF CSS.
7. INTERVAL EARTHING WILL BE BROUGHT ON EARTHING POINTS INSIDE THE CSS

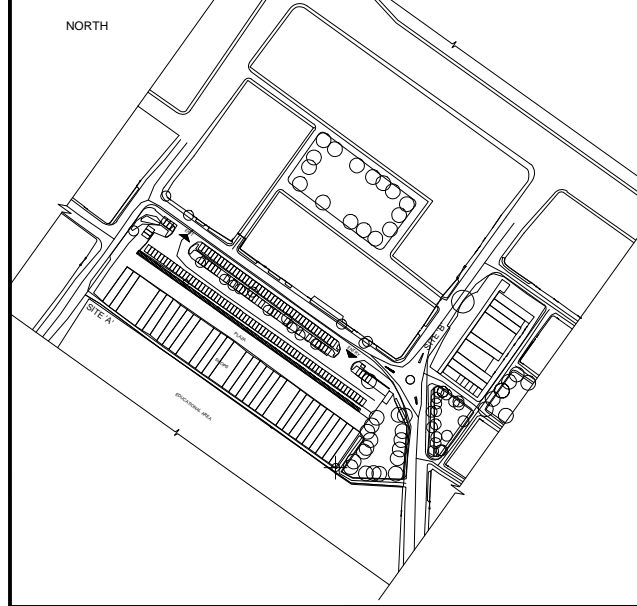
| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

|               |   |
|---------------|---|
| CLIENT/OWNER  | LUDHIANA SMART CITY LIMITED                                 |
| PROJECT       | RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET |
| PACKAGE       | PRELIMINARY DESIGN REPORT                                   |
| PURPOSE       | FOR TENDER  |
| DRAWING TITLE | RETROFITTING SCHEME- PROPOSED FOUNDATION DETAIL FOR CSS     |
| DATE          | 21/02/2017  |

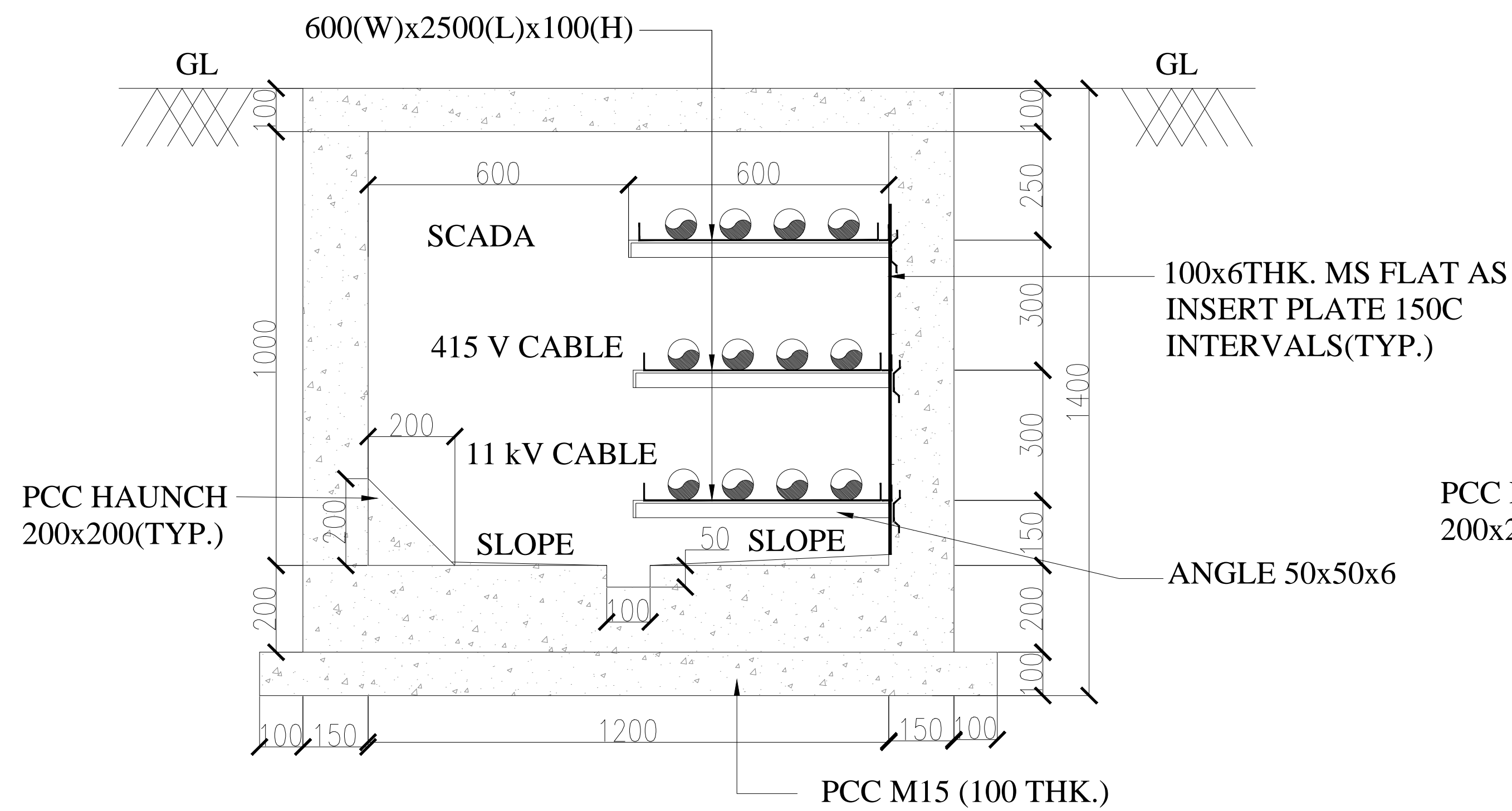
| SCALE | SIZE | DRAWING NUMBER             | REV. |
|-------|------|----------------------------|------|
| A0    |      | DELD-LSCL-100-TP- RSN-3020 |      |



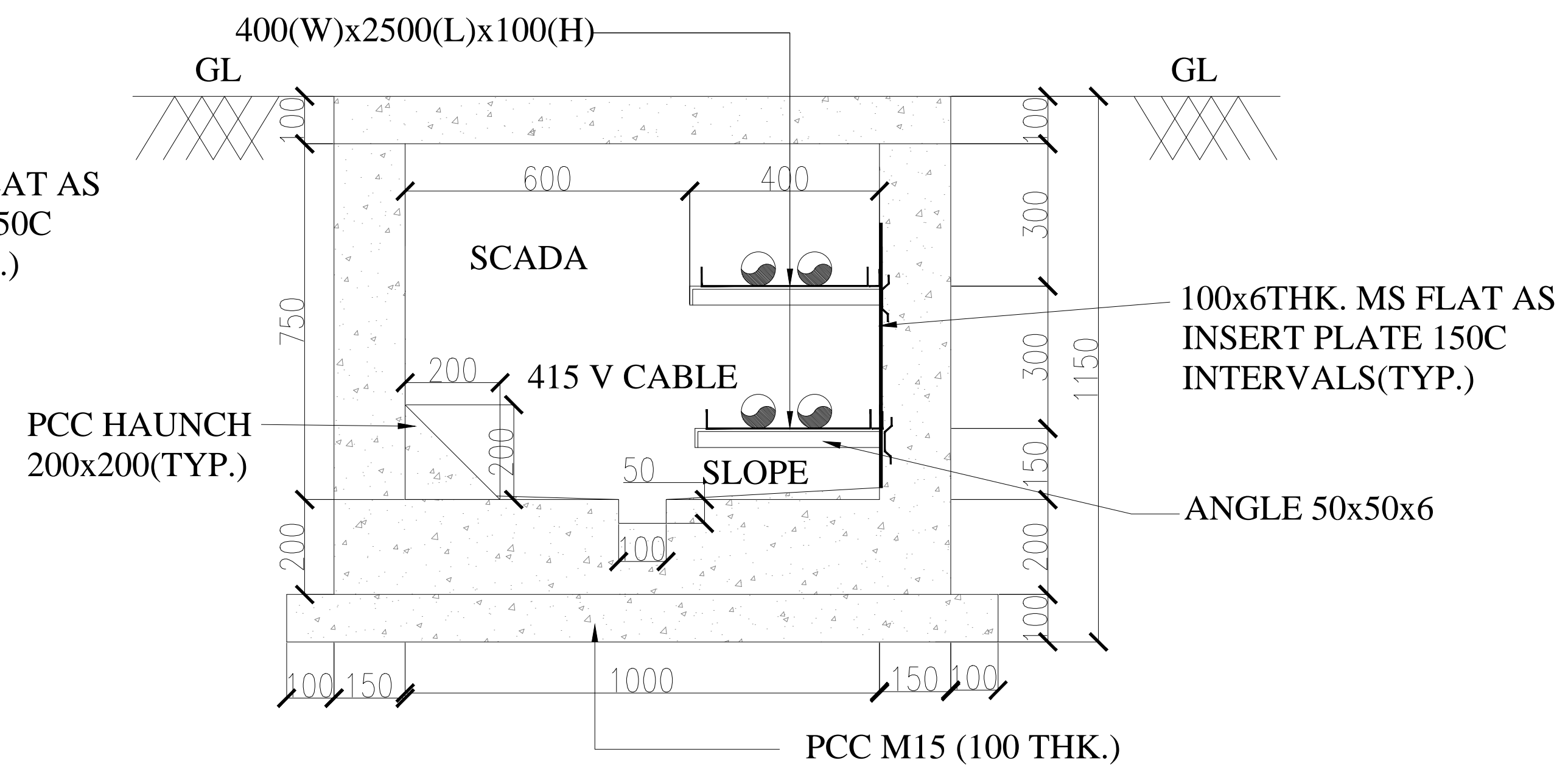
KEY MAP



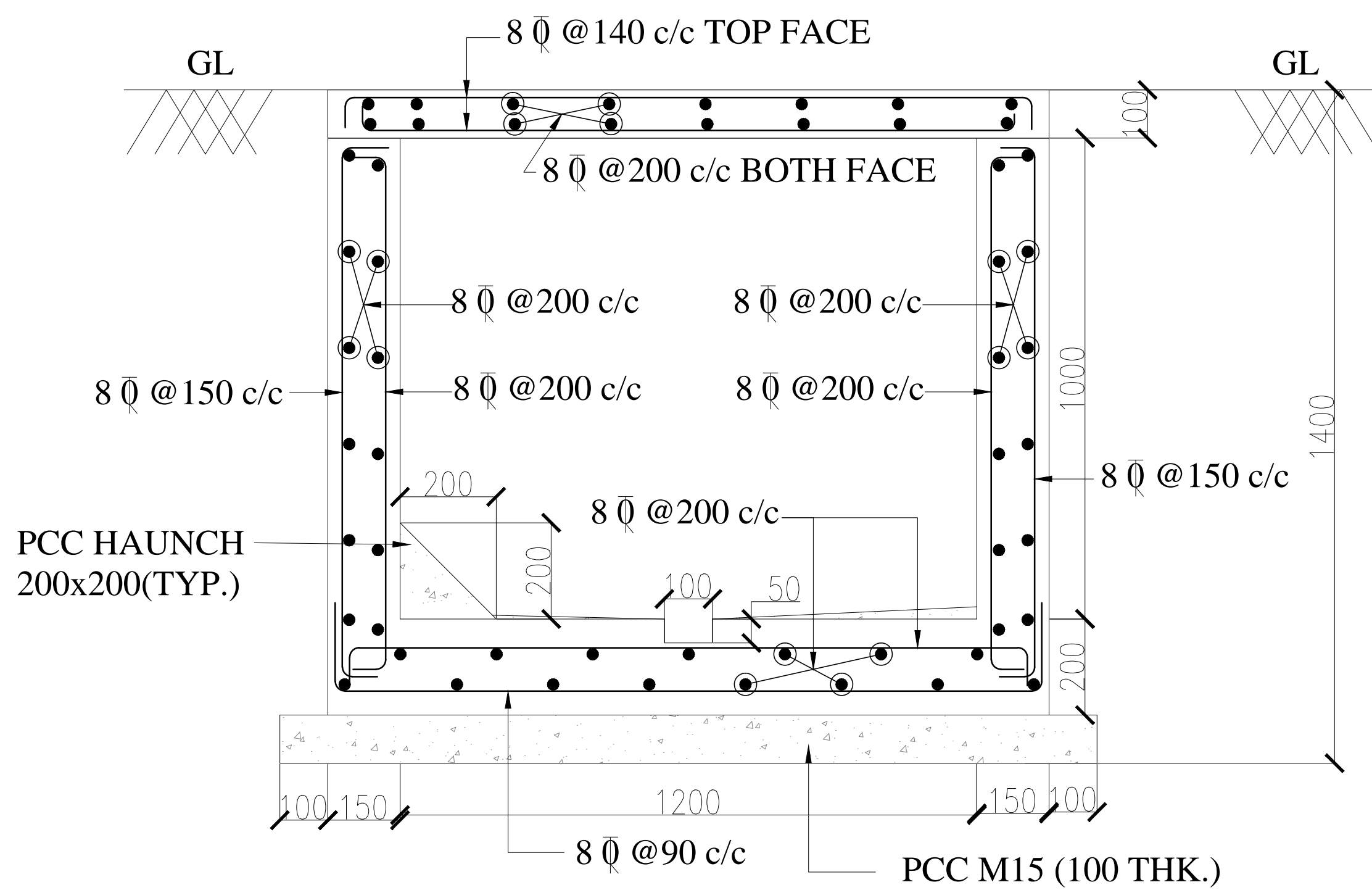
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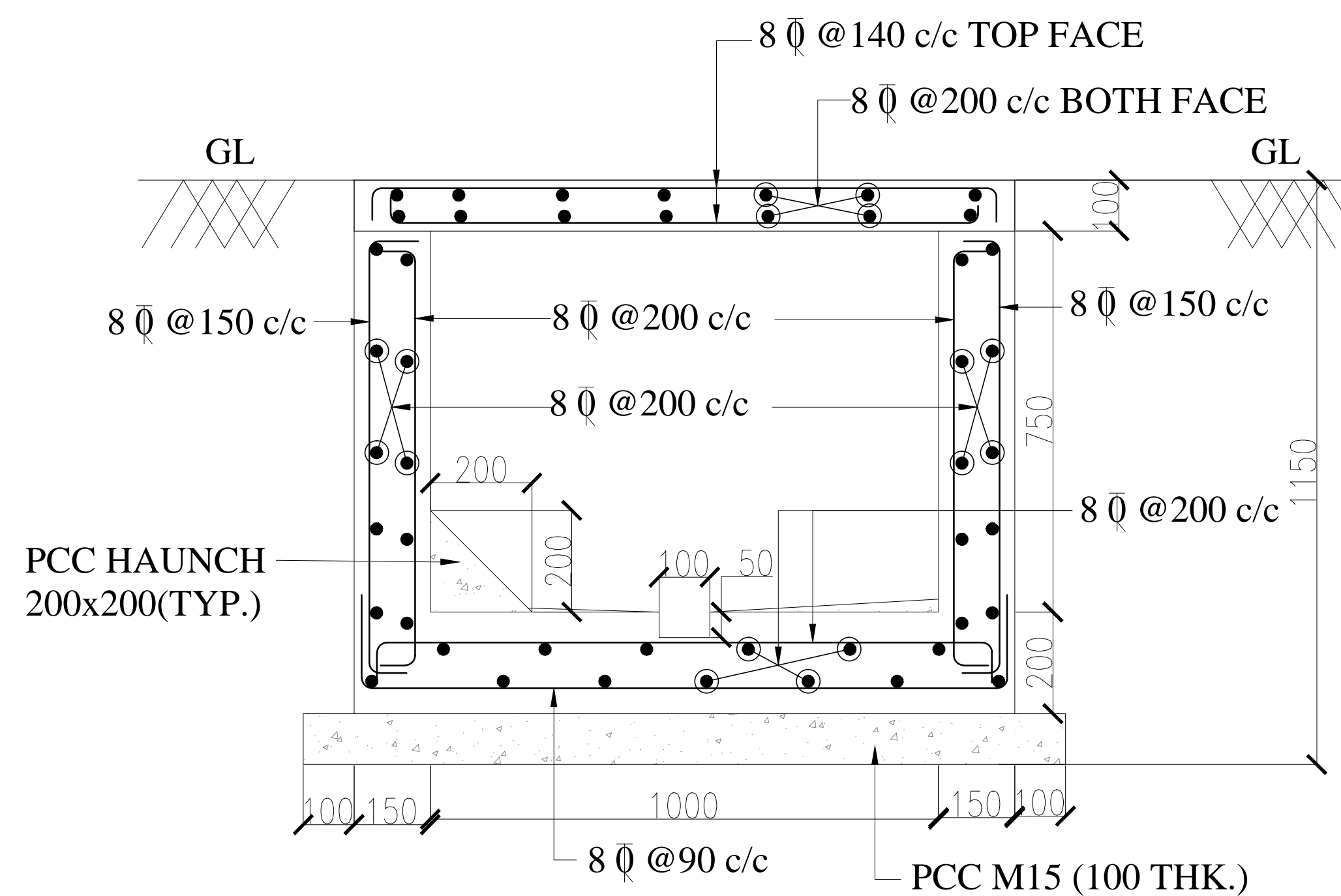
CROSS SECTION OF CABLE TRENCH (HT & LT)



CROSS SECTION OF LT CABLE TRENCH



CROSS SECTION OF CABLE TRENCH (HT & LT)



CROSS SECTION OF LT CABLE TRENCH

| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

CLIENT/OWNER: LUDHIANA SMART CITY LIMITED

PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

PACKAGE: PRELIMINARY DESIGN REPORT

PURPOSE: FOR TENDER DATE: 21/02/2017

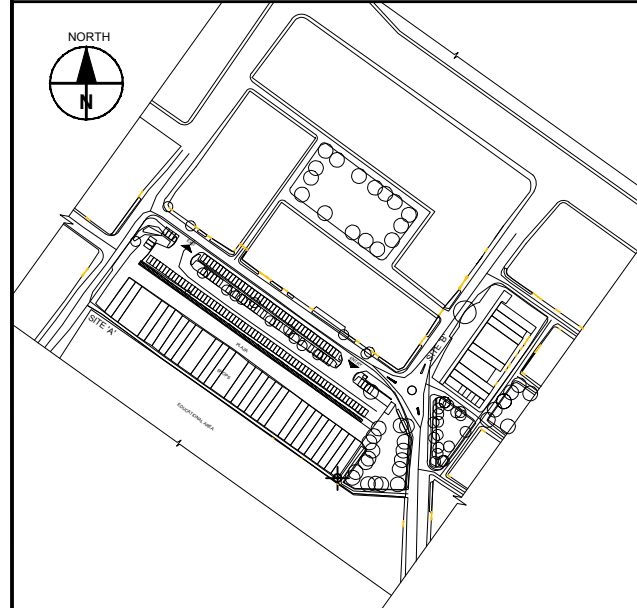
DRAWING TITLE: RETROFITTING SCHEME- PROPOSED CABLE TRENCH DETAIL

| SCALE | NO                        | DATE | REVISION |
|-------|---------------------------|------|----------|
| A0    | DELD-LSCL-100-TP-RSN-3021 |      |          |

CONTRACT NO: AECOM/INDIA/2017/02/001  
**AECOM**  
 AECOM India Private Limited

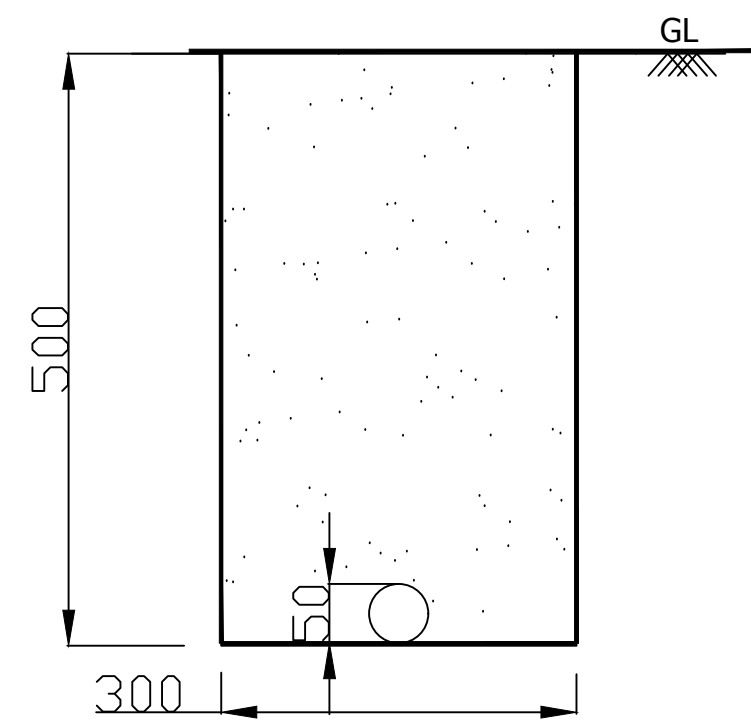


KEY MAP

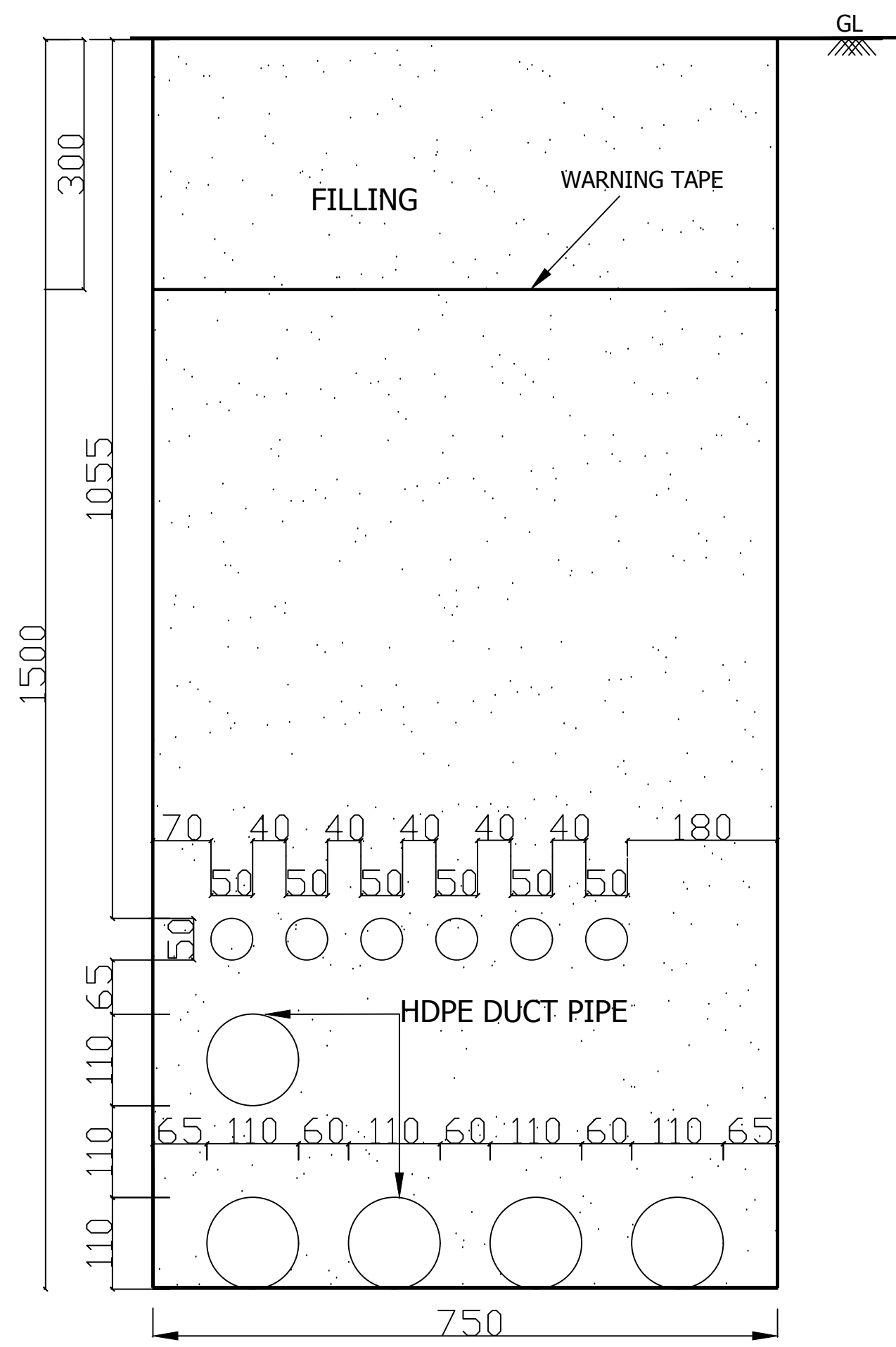


GENERAL NOTES :-

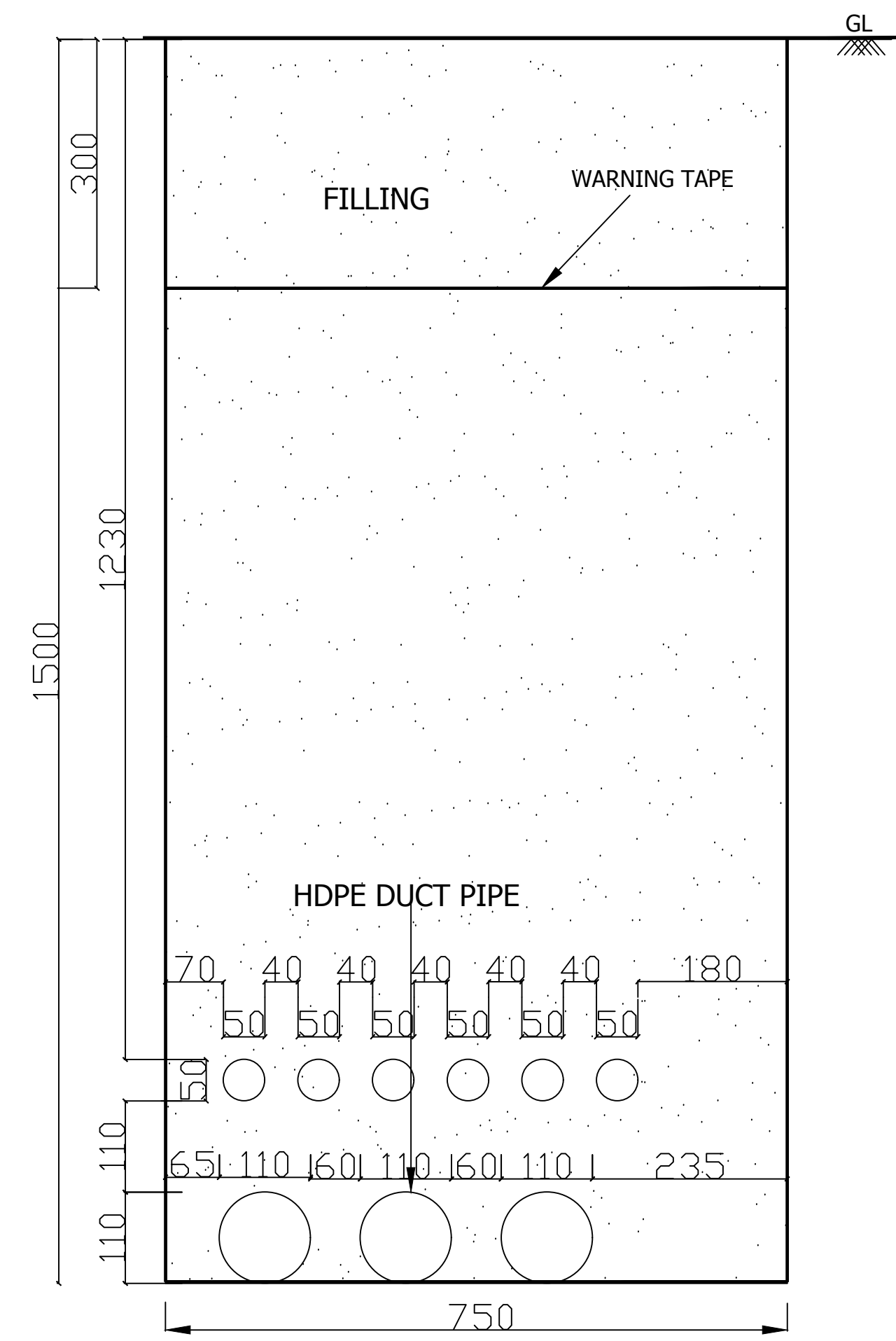
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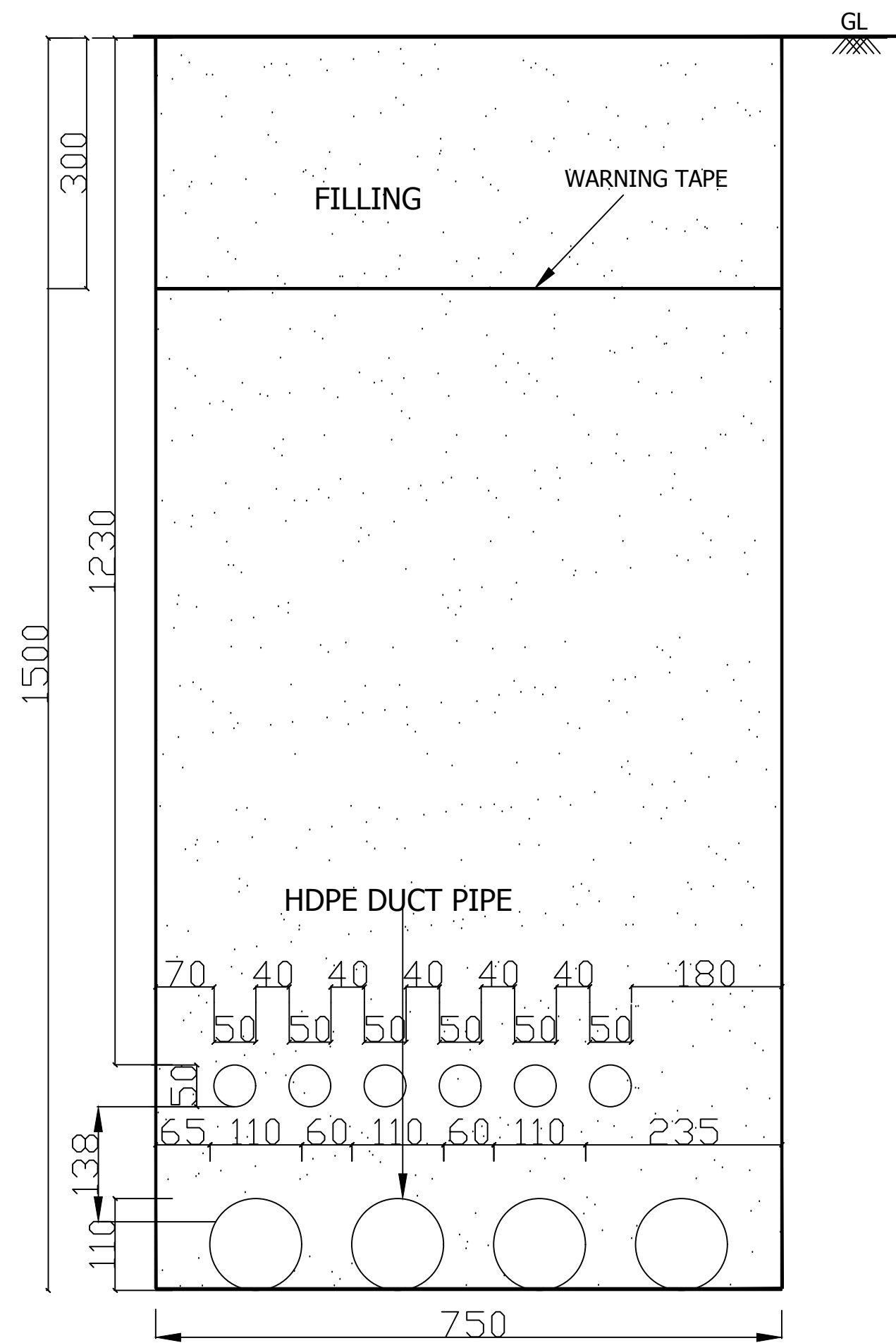
BURIED CABLE TRENCH FOR L.T CABLE  
EXTERNAL LIGHTING



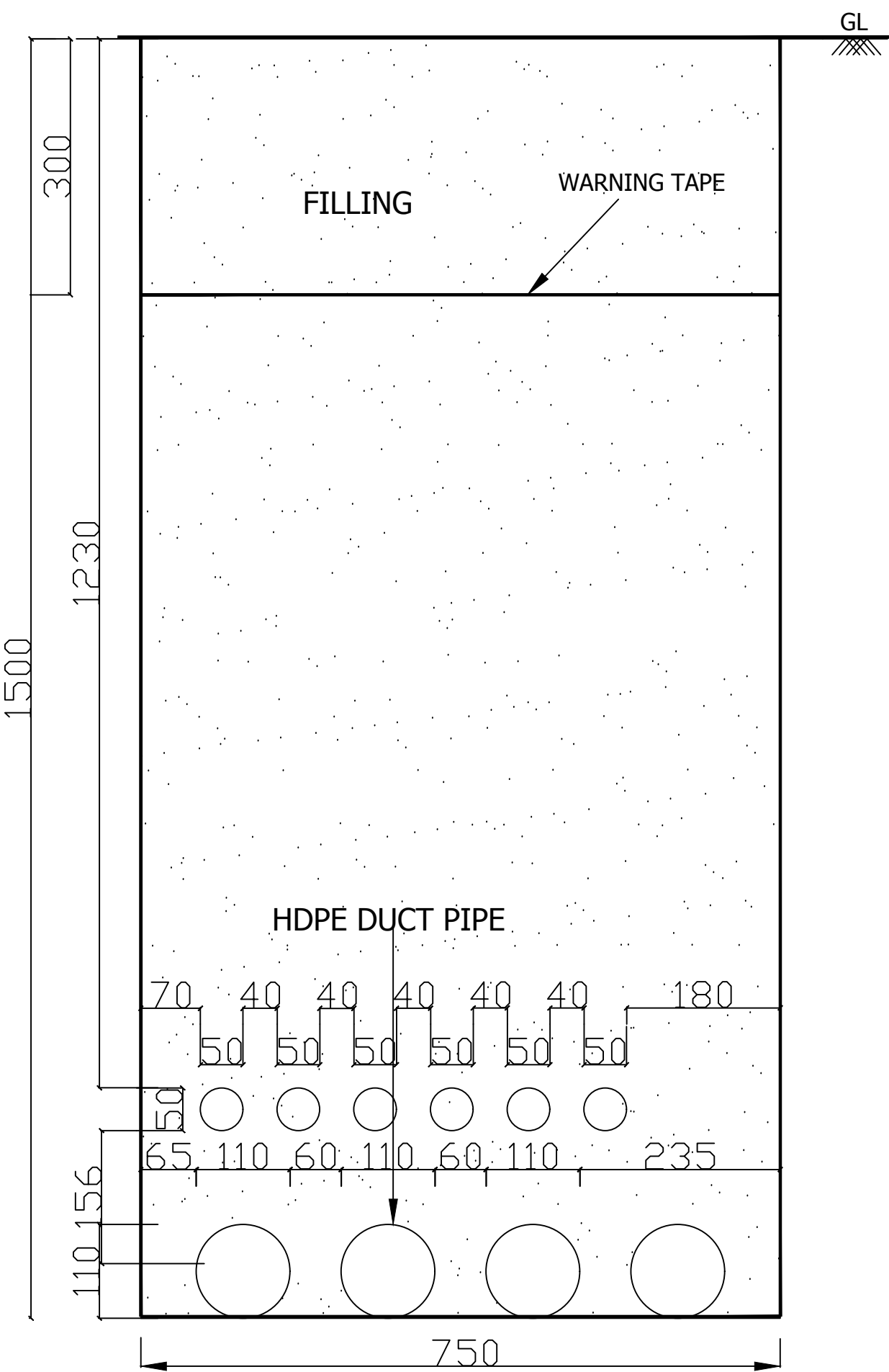
BURIED CABLE TRENCH FOR L.T CABLE  
SECTION AA' (500 KVA)(CSS-405)



BURIED CABLE TRENCH FOR L.T CABLE  
SECTION BB' (1000 KVA)(CSS-406)



BURIED CABLE TRENCH FOR L.T CABLE  
SECTION CC' (1000 KVA)(CSS-406)



BURIED CABLE TRENCH FOR L.T CABLE  
SECTION DD' (1000 KVA)(CSS-208)

| PRELIMINARY DRAWINGS |      |      |            |
|----------------------|------|------|------------|
| DESCRIPTION          | DRWN | CHKD | DATE       |
|                      |      |      | 27.02.2017 |

CLIENT/OWNER:  
**LUDHIANA SMART CITY LIMITED**

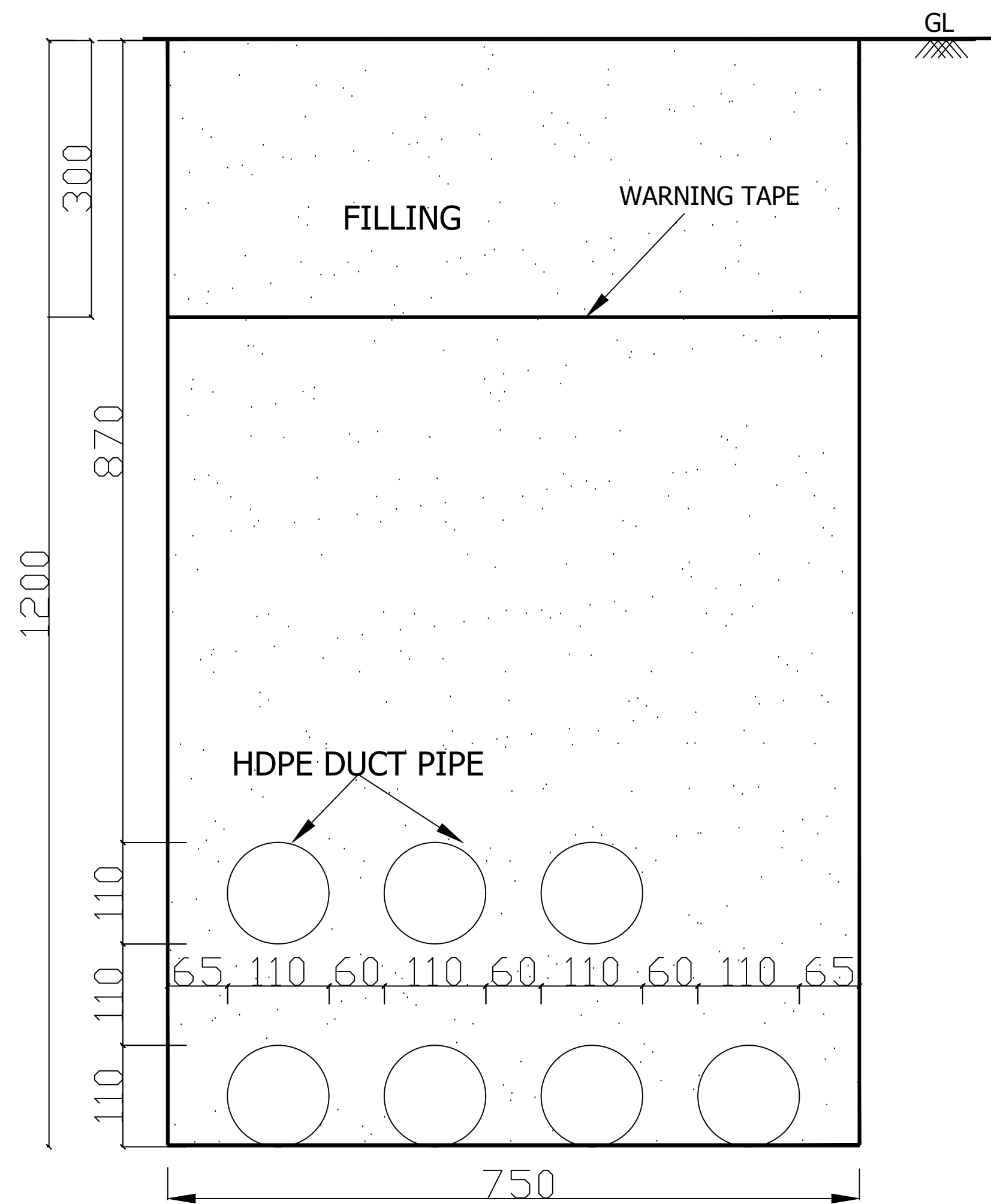
PROJECT:  
**RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET**

|  |                  |
|--|------------------|
| PACKAGE:<br>PRELIMINARY DESIGN   | STATUS           |
| PURPOSE:<br>FOR TENDER   | DATE<br>21.02.17 |
| DRAWING TITLE:<br>RETROFITTING SCHEME:<br>PROPOSED BURIED CABLE<br>DUCT DETAIL | DATE<br>27.02.17 |

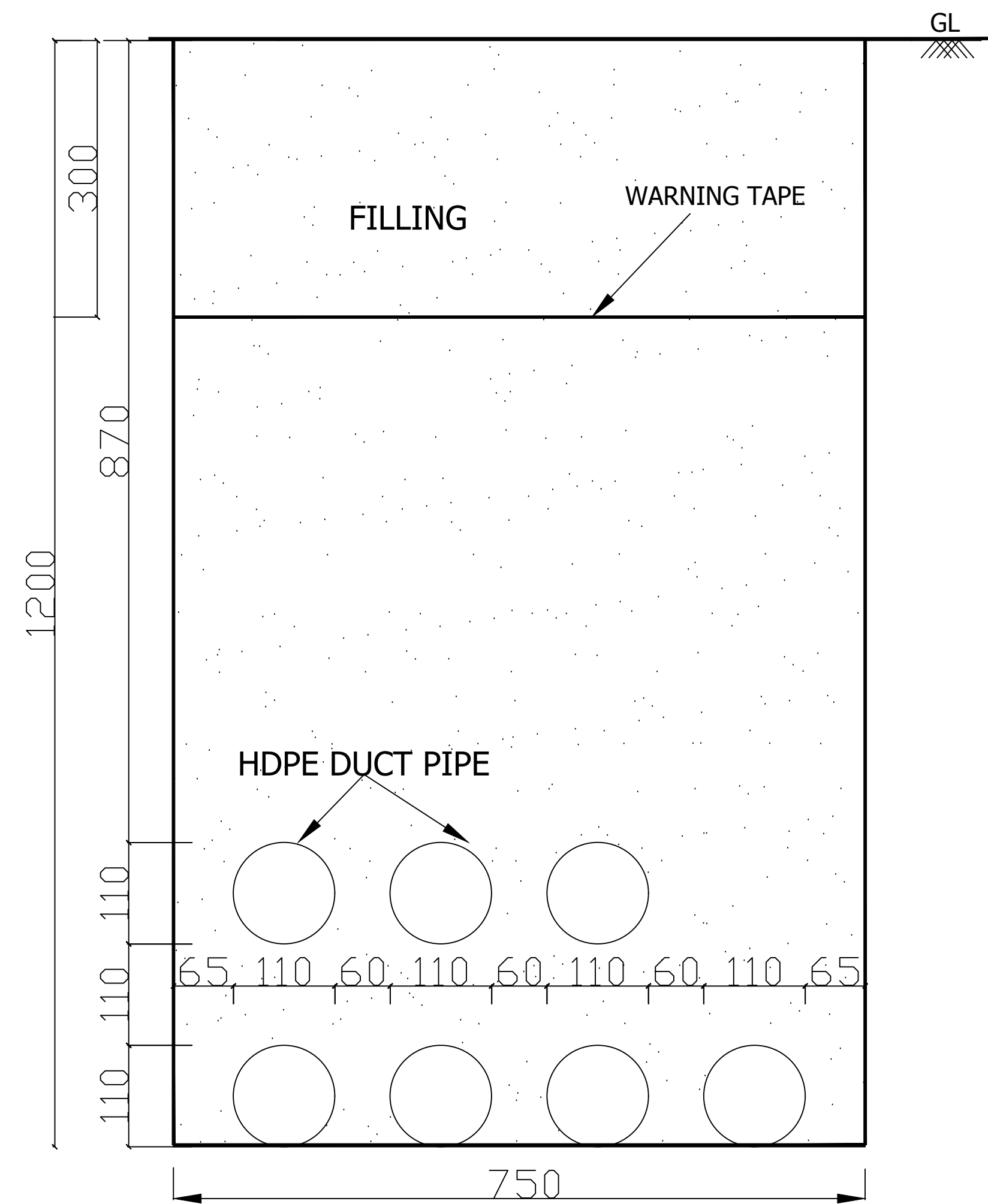
|          |            |             |             |
|----------|------------|-------------|-------------|
| Drawn by | Checked by | Approved by | Accepted by |
| Sign     | Sign       | Sign        | Sign        |
| Date     | Date       | Date        | Date        |
| Name     | Name       | Name        | Name        |

|       |                           |             |     |
|-------|---------------------------|-------------|-----|
| SCALE | DRAWING NUMBER            | APPROVED BY | REV |
| A0    | DEL-DLSCL-100-TP-RSN-3022 |             |     |

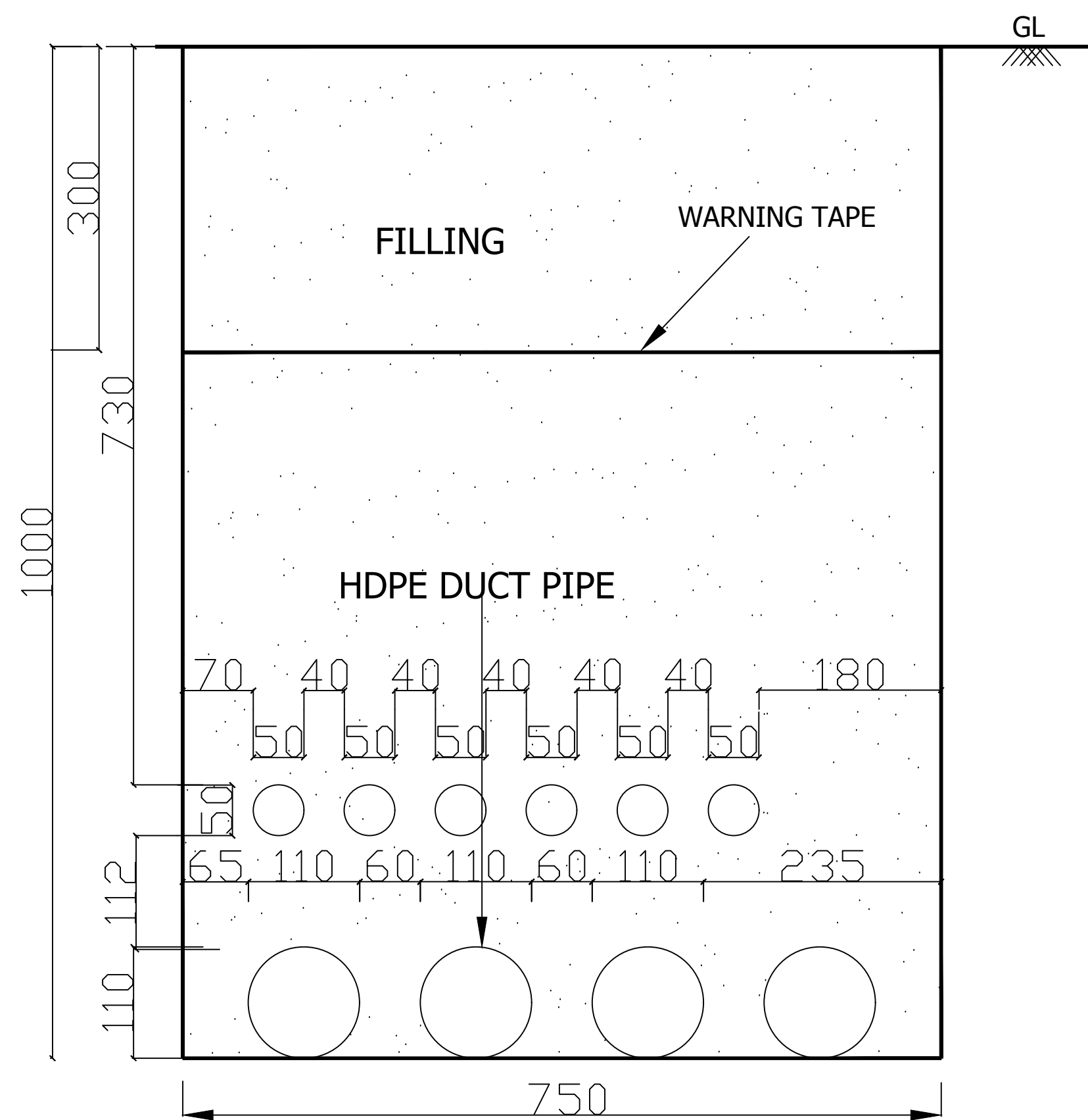




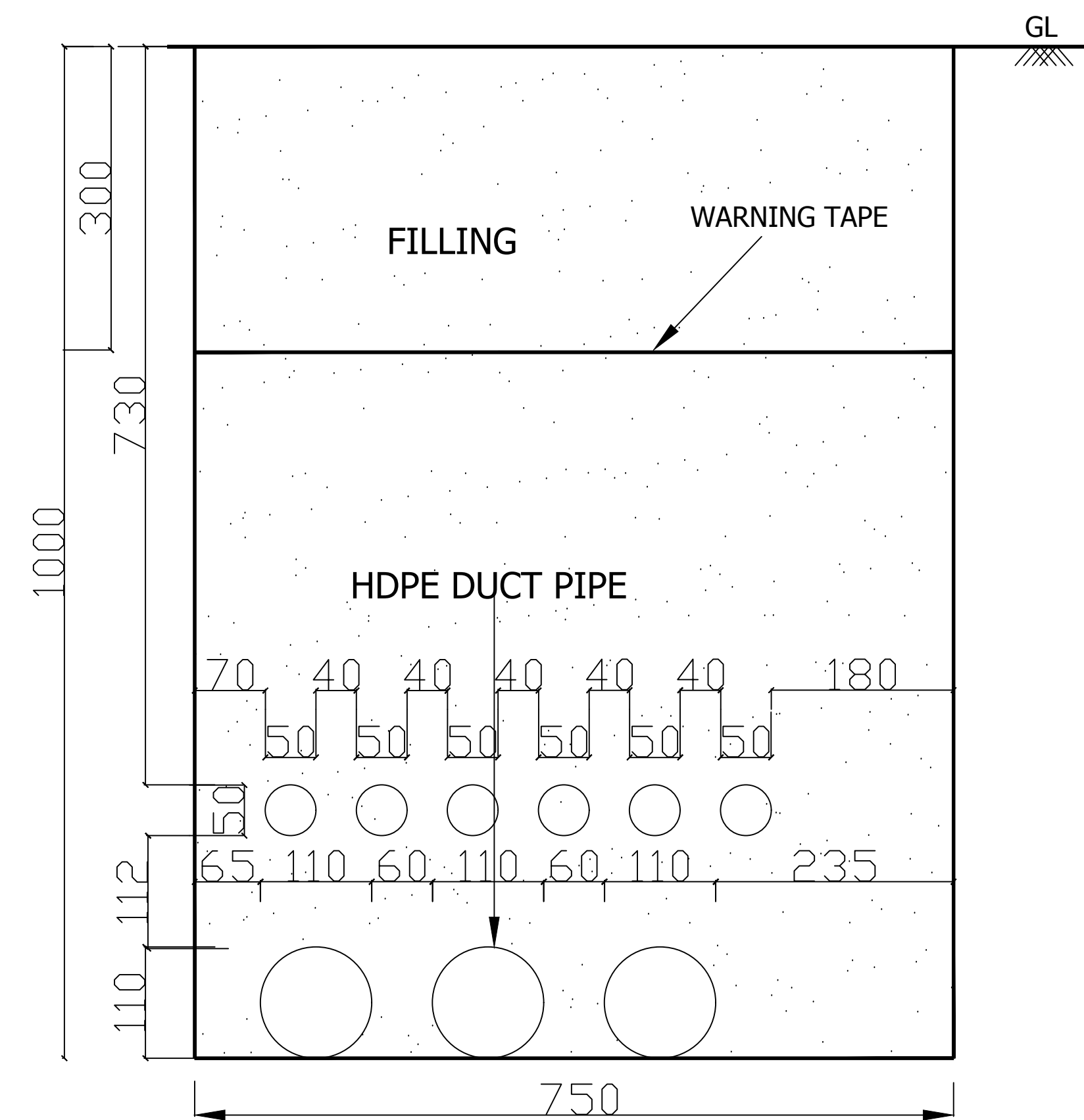
BURIED CABLE TRENCH FOR L.T. CABLE  
SECTION EE' (1000 KVA)(CSS-406)



BURIED CABLE TRENCH FOR L.T. CABLE  
SECTION FF' (500 KVA)(CSS-408)

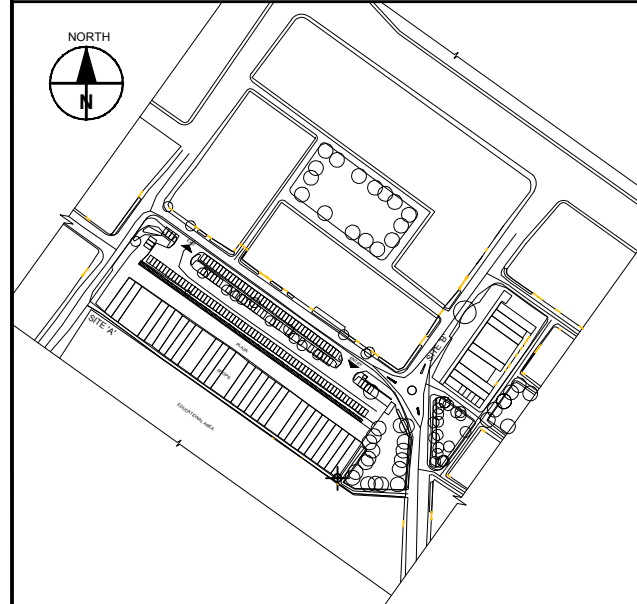


BURIED CABLE TRENCH FOR L.T. CABLE  
SECTION GG' (500 KVA)(CSS-408)



BURIED CABLE TRENCH FOR L.T. CABLE  
SECTION HH' (500 KVA)(CSS-408)

KEY MAP



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PRELIMINARY DRAWINGS

| DESCRIPTION | DRWN | CHKD | DATE       |
|-------------|------|------|------------|
|             |      |      | 27.02.2017 |

CLIENT/OWNER  
**LUDHIANA SMART CITY LIMITED**

PROJECT  
**RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET**

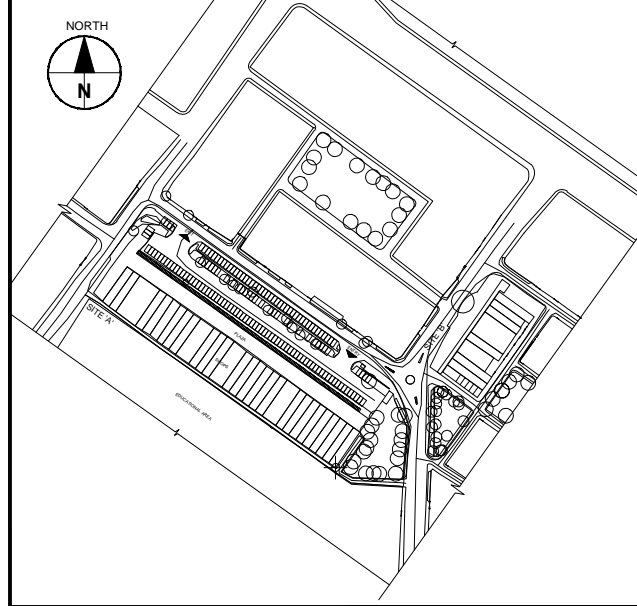
| PACKAGE   | STATUS           |
|---|------------------|
| PRELIMINARY DESIGN  |                  |
| PURPOSE<br>FOR TENDER   | DATE<br>21.02.17 |
| DRAWING TITLE<br>RETROFITTING SCHEME:<br>PROPOSED BURIED CABLE<br>DUCT DETAIL | DATE<br>27.02.17 |

| Consultant / Contractor |      | Approver / Client |      |
|-------------------------|------|-------------------|------|
| Sign                    | Date | Sign              | Date |
|                         |      |                   |      |

| SCALE | SIZE | DRAWING NUMBER                 | APPROVED BY | ACCEPTED BY | REV. |
|-------|------|--------------------------------|-------------|-------------|------|
| A0    |      | DELD-LSCL-100 - TP - RSN-3022A |             |             |      |



KEY MAP

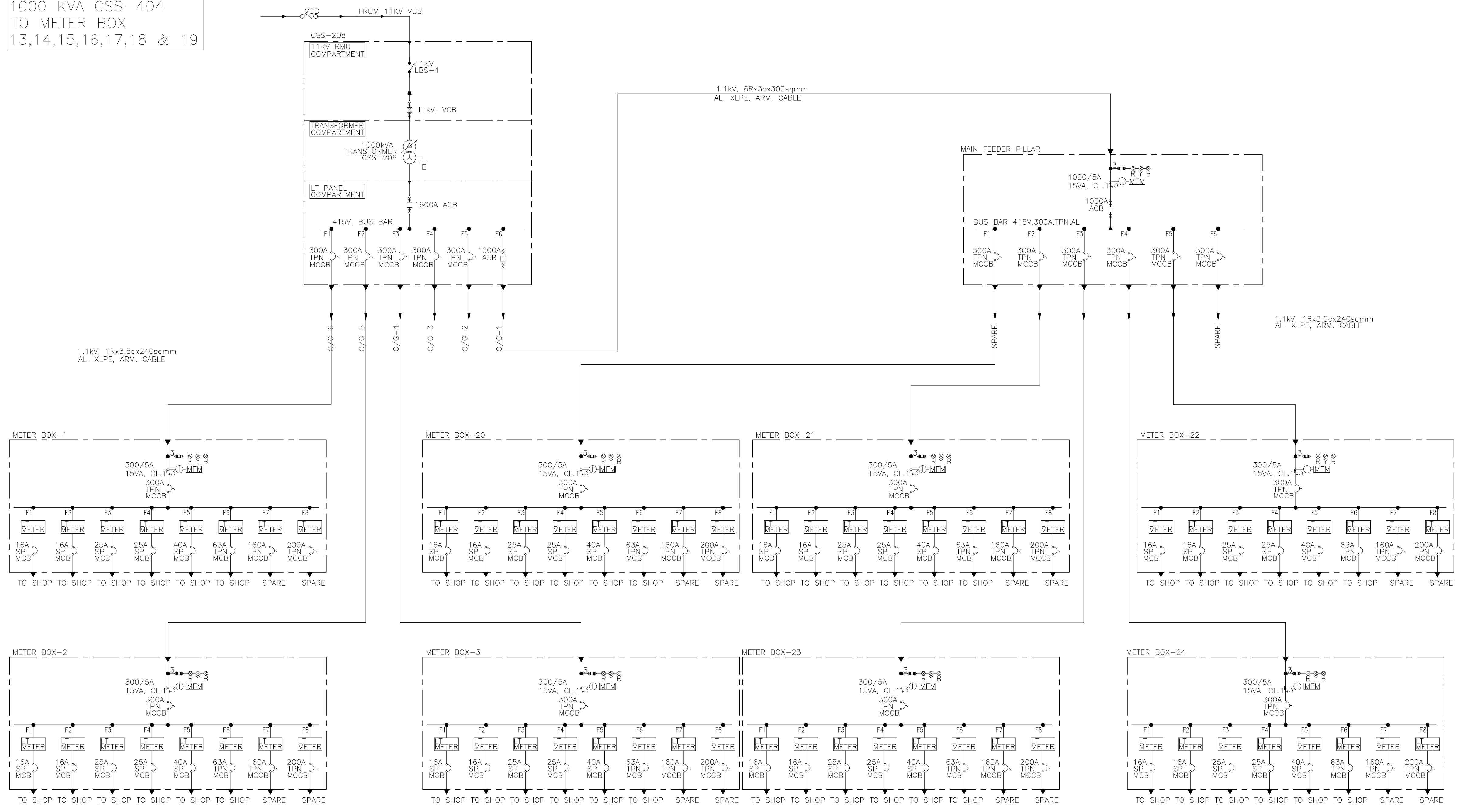


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LEGEND

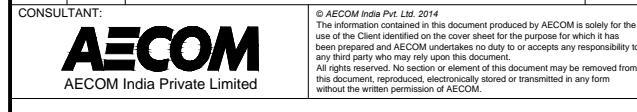
- INDICATION LAMP
- VACUUM CIRCUIT BREAKER (VCB)
- HT FUSE
- MULTIFUNCTION METER
- CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF PTs)
- INSTRUMENTATION

1000 KVA CSS-404 TO METER BOX 13,14,15,16,17,18 & 19



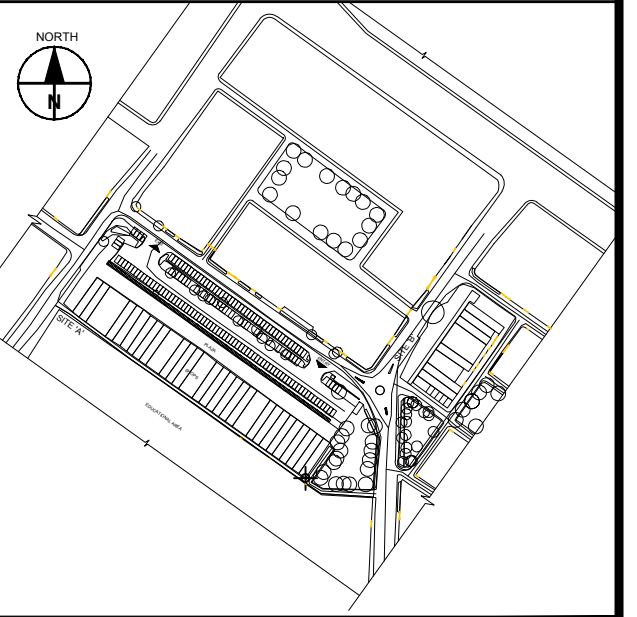
| DESCRIPTION | DRWN | CHKD | DATE |
|-------------|------|------|------|
|             |      |      |      |

|  |                                 |                |                  |
|--|---------------------------------|----------------|------------------|
| CLIENT OWNER: LUDHIANA SMART CITY LIMITED  |                                 |                |                  |
| PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET                                 |                                 |                |                  |
| PACKAGE: PRELIMINARY DESIGN REPORT   |                                 |                |                  |
| PURPOSE: FOR TENDER  |                                 |                | DATE: 21/02/2017 |
| DRAWING TITLE: RETROFITTING SCHEME: PROPOSED SINGLE LINE DIAGRAM FOR CSS(404) TO METER BOX(13 TO 19) |                                 |                |                  |
| SCALE: A0  | SIZE: DELD-LSCL-100-TP-RSN-3023 | DRWING NUMBER: | REV:             |



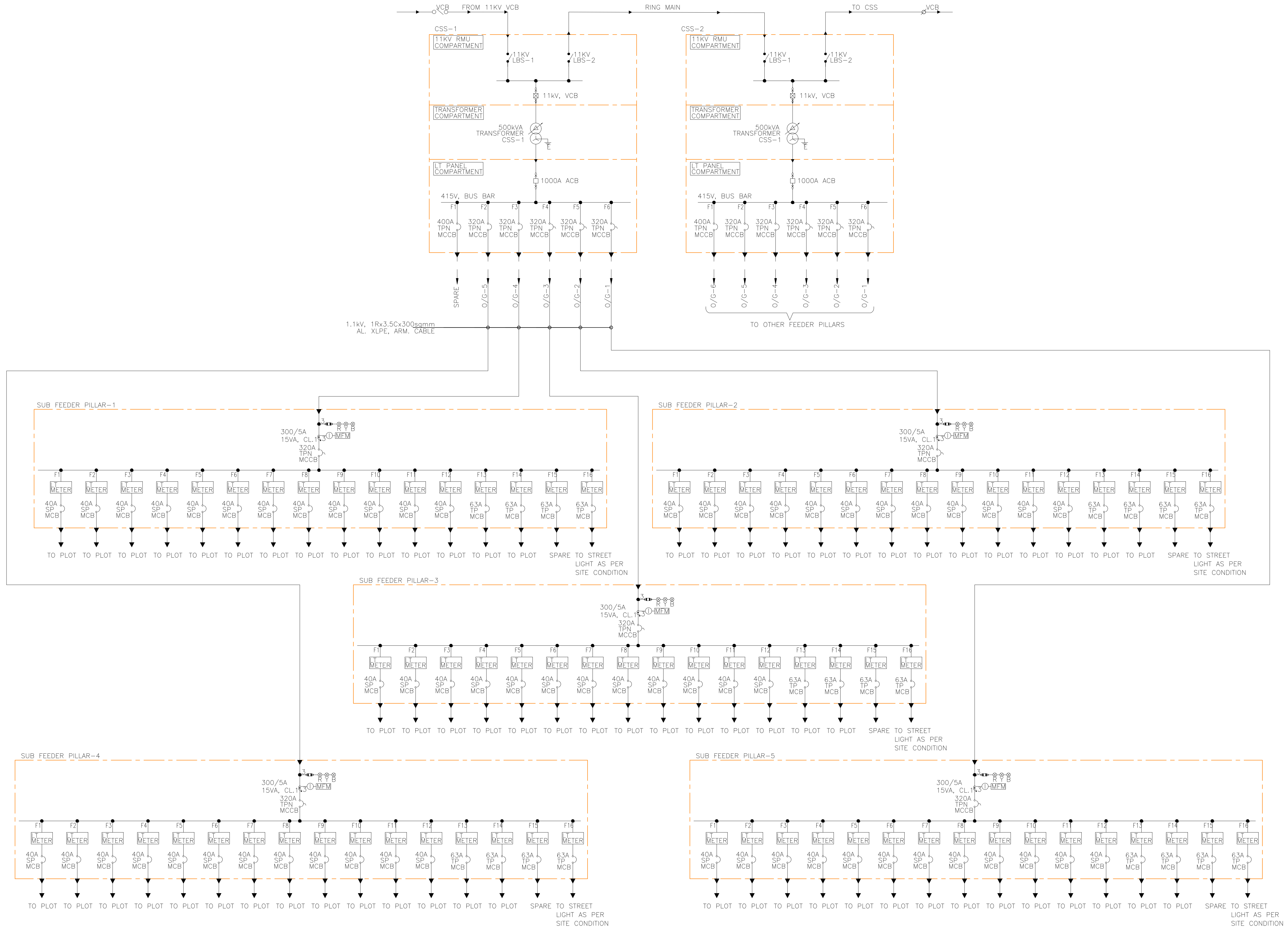


KEY MAP



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PRELIMINARY DRAWINGS

| DESCRIPTION | DRWN | CHKD | DATE       |
|-------------|------|------|------------|
|             |      |      | 27.02.2017 |

CLIENT/OWNER: LUDHIANA SMART CITY LIMITED

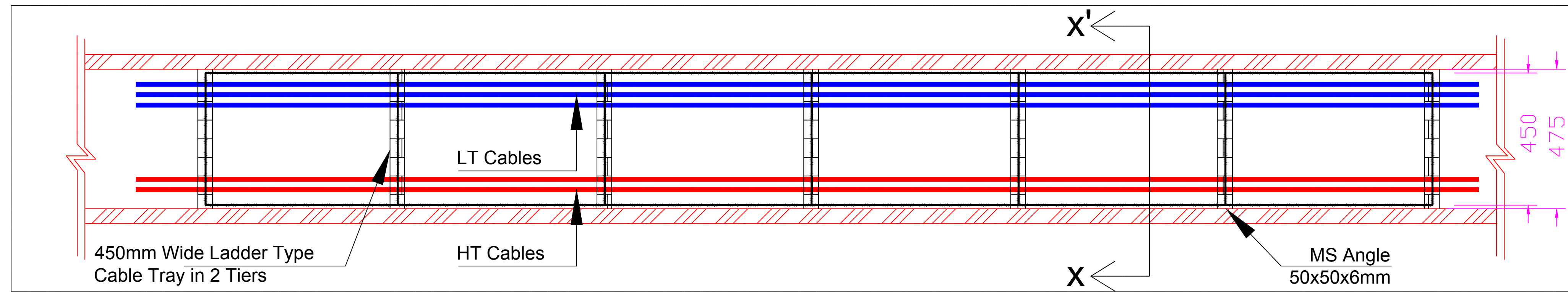
PROJECT: RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET

| PACKAGE            | STATUS |
|--------------------|--------|
| PRELIMINARY DESIGN |        |
| FOR TENDER         |        |

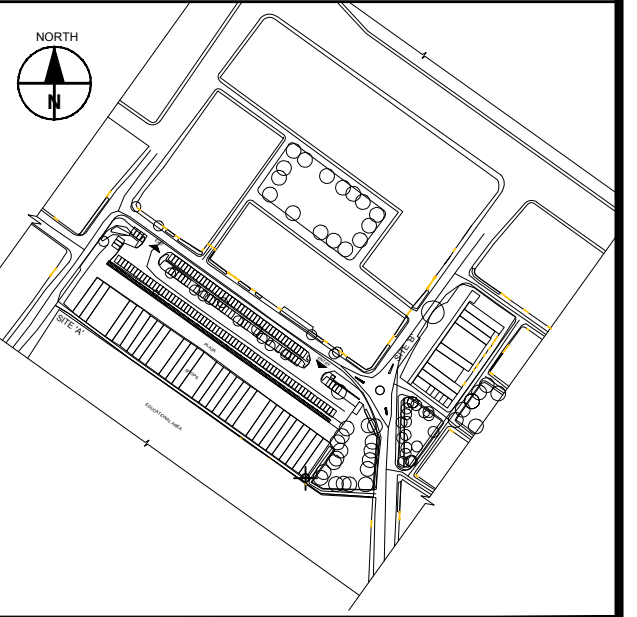
| DATE | DATE | DATE | DATE |
|------|------|------|------|
|      |      |      |      |

SCALE: A0 DELD-LSCL-100-TP-RSN-3023A

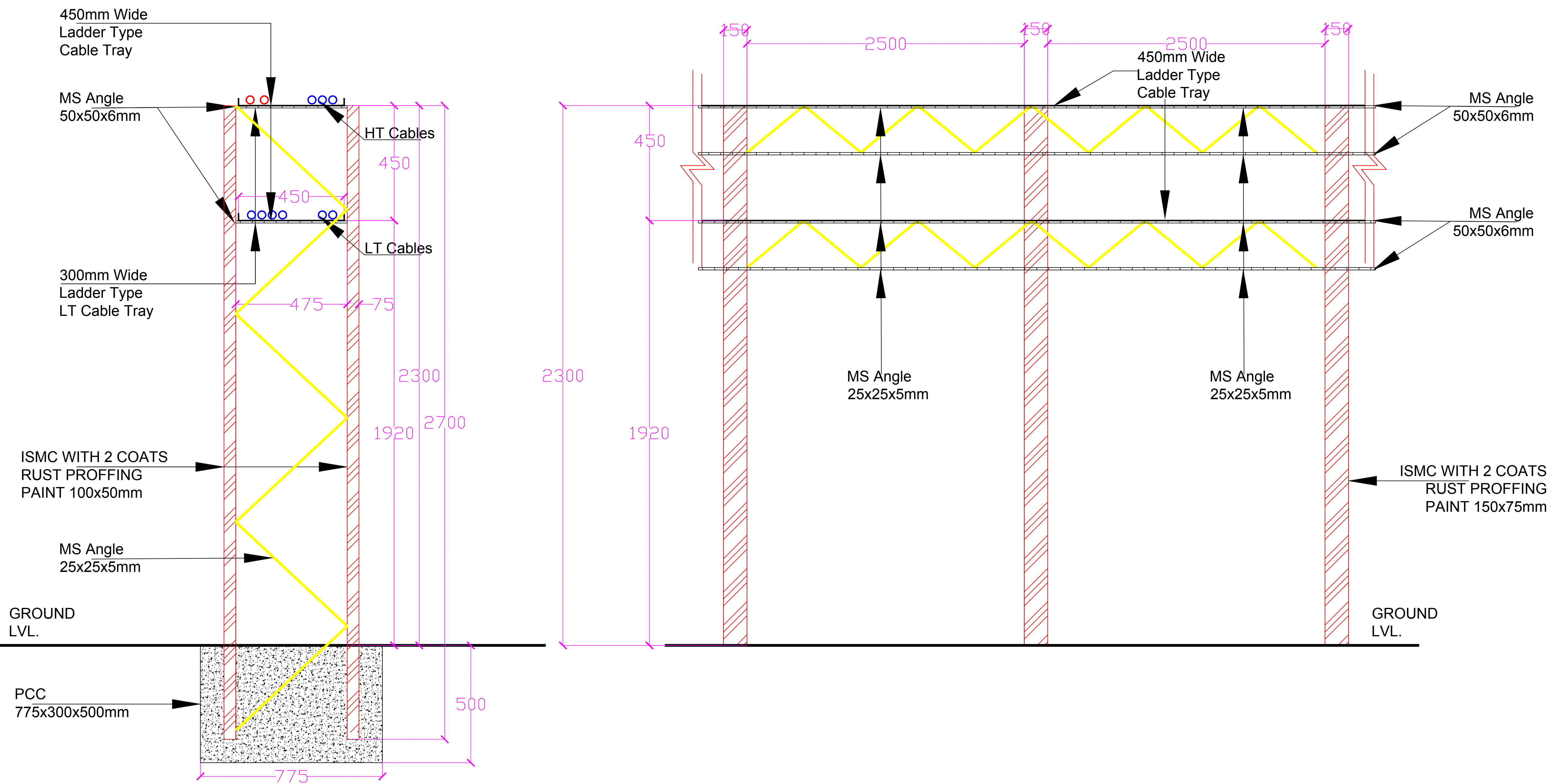




KEY MAP



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**PRELIMINARY DRAWINGS**

| DESCRIPTION | DRWN | CHKD | DATE       |
|-------------|------|------|------------|
|             |      |      | 27.02.2017 |

CLIENT/OWNER: **LUDHIANA SMART CITY LIMITED**

PROJECT: **RETROFITTING AND FACADE IMPROVEMENT OF SARABHA NAGAR MARKET**

| PACKAGE  | STATUS         |
|--|----------------|
| PRELIMINARY DESIGN   |                |
| PURPOSE: FOR TENDER  | DATE: 21.02.17 |
| DRAWING TITLE: RETROFITTING SCHEME: PROPOSED STRUCTURE DETAIL FOR 2 TIERS CABLE TRAY | NO. (1)        |

| Consultant / Contractor |       | Approver / Client |       |
|-------------------------|-------|-------------------|-------|
| Sign:                   | Sign: | Sign:             | Sign: |
| Date:                   | Date: | Date:             | Date: |
| Name:                   | Name: | Name:             | Name: |

SCALE: **A0 DELD-LSCL-100 -TP- RSN-3024**