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- SYA/DI/STD/005: Details of DI Concrete Thrust Block and Anchor Block
- SYA/DI/STD/006: Schedule of Thrust Block and Anchor Block
1. For legend, abbreviation and general notes see Drawing No. SYA / STD / 001.
2. All dimensions are in mm unless otherwise stated.
3. The lettering size shall be 0.28R, whereby R is radius.
4. The lettering font must be in "Times New Roman".
5. The lettering spacing shall be 1 'space-bar' spacing.
6. The colour codes are as follows:
   - Water Drop (1) - Blue
     (Paint code: Trans Elite Blue P396-11406)
   - Water Drop (2) - Light Blue
     (Paint code: Jotun 16508908)
   - Water Drop (3) - Lettering & Wave - Dark Blue
     (Nation Wide Purple P396-11406)

SCHEDULE OF RADIUS

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GENERAL GUIDELINES ON SYABAS LOGO DIMENSION TO BE PAINTED ON WATER RESERVOIRS/TANKS.

1. Depth of the reservoir/tanks is defined as the exposed vertical surface of the reservoir/tank excluding supporting structures. (refer to Drawing No: SYA / STD / 004).
2. Column width of Mushroom type water tower is defined as diameter of the vertical column of the water tower.
3. SYABAS logo height is defined as the height of the 3 water drops excluding the wave.
   a. In the technical Drawing No: SYA / STD / 002, it is indicated as 3R.
   b. 3R is equivalent to 1/3 of exposed vertical surface of the reservoir/tank.
   c. R is the radius of the circle required to construct SYABAS logo.
   d. The dimension of SYABAS logo is shown in Drawing No: SYA / STD / 002.
4. SYABAS logo height shall be painted as 1/3 of exposed depth for normal reservoirs/tanks or 1/3 of column diameter for mushroom type of water tower.

GENERAL GUIDELINES ON LETTERING DIMENSION TO BE PAINTED ON THE WALL OF WATER RESERVOIRS/TANKS.

1. The name of Tank/Taman shall be painted as 1/3 of SYABAS logo height and the font used shall be ARIAL (refer to Drawing SYA / STD / 004).
2. Technical information such as Capacity, TWL and BWL shall be 2/9 of SYABAS logo height and the font shall be ARIAL (refer to Drawing No: SYA / STD / 004).

GENERAL SPECIFICATION OF PAINT ON THE WALL OF WATER RESERVOIRS/TANKS.

1. Suitable surface preparation and undercoat shall be applied in accordance to the manufacturer's requirement.
2. All paint shall be of water based emulsion type paint which is fungus resistant.
3. Paint shall be suitable for external use (weatherbond, weather shield etc.), with 5 years (minimum). Manufacturer's shall provide a written warranty to SYABAS to cover defect, peeling, poor workmanship, fungus etc. The paintwork shall be applied by the manufacturer's workers or under their supervision.
4. Paint colour code shall follow colour code as in drawing no. SYA / STD / 002.
NOTE:
1. FOR LEGEND, ABBREVIATION AND GENERAL NOTES SEE DESG. NO. SYA / STD / 001.
2. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.

1. FOR LEGEND, ABBREVIATION AND GENERAL NOTES SEE DESG. NO. SYA / STD / 001.

SYARIKAT BEKALAN AIR SELANGOR SDN BHD
PETISIVAN 2001
JALAN PANTAI BAHRU
59990, KUALA LUMPUR.
TEL NO.: 03 - 2282 6244 / 03 - 2283 1111
FAX NO.: 03 - 2282 5498
LAMAN WEB: www.syabas.com.my
EMAIL: puspel@syabas.com.my

STANDARD LOGO FOR RC CIRCULAR
SYA / STD / 004

2. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
### STANDARD LAYERS AND SYMBOLS

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### Notes:
1. For Legend, Abbreviation and General Notes, see DRG. No. SYA/STD/005.
2. All dimensions are in mm unless otherwise stated.
3. Colour code for pipeline changed.
4. Proposed or as-built pipeline shall be continuous linetype.
5. Existing pipeline shall be dashed linetype.
NOTE:
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NOTE:
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SYABAS
ALL COPY RIGHT RESERVED
SYARIKAT BEKALAN AIR SELANGOR SDN BHD
PROJECT:
DRAWING NO:
DRAWING TITLE:
DRAWN BY: SHAHRUL
DESIGNED : YHH
CHECKED : KTT
PETI SURAT 5001,
JALAN PANTAI BAHRU,
59990, KUALA LUMPUR.
TEL NO : 03 - 2282 6244 / 03 - 2283 1111
FAX NO : 03 - 2282 5498
LAMAN WEB : www.syabas.com.my
EMAIL : puspel@syabas.com.my

SYABAS
REV.
DATE
DESCRIPTION
REVISED BY
1
To replace ABS Marker Post with concrete Marker Post.

DETAIL OF CONCRETE MARKER POST

SECTION A - A

SLIDE VALVE
PAIP AIR
SYABAS
PAIP AIR
SYABAS
BUTTERFLY VALVE
AIR VALVE
SOUR VALVE
PIPE
AIR INSERTION POINT

DI 300mm OR MS OR HDPE

PAIP AIR
SYABAS
PAIP AIR
SYABAS
PAIP AIR
SYABAS
PAIP AIR
SYABAS
PAIP AIR
SYABAS
PAIP AIR
SYABAS

SECTIONAL ELEVATION
SIDE ELEVATION
FRONT ELEVATION

50mm
300mm
300mm
50mm
50mm

PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS

CLARIFICATION AND SYMBOLS TO BE COOURED/PAINTED IN BLUE (CAPRI BLUE - RAL 5019)

CONCRETE GRADE 25

MASS CONCRETE GRADE 20

50mm
300mm

PAIP AIR SYABAS
PAIP AIR SYABAS

PLASTIC OR MS OR HDPE

PAIP AIR SYABAS
PAIP AIR SYABAS

10
10
10
10
20
10
10
15

PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS

PAIP AIR SYABAS
PAIP AIR SYABAS

PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS

DI 300mm

OR MS OR HDPE

PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS
PAIP AIR SYABAS

300mm

300mm

50mm

50mm

50mm

50mm

50mm

50mm

50mm
1. All dimensions are in millimetres unless otherwise stated.
2. Concrete shall be of grade 25 N/mm² in compliance to BS 8110:1985.
3. All lean concrete shall be grade 15/20.
4. Portland cement used shall comply to BS 12.
5. Reinforcement steel shall comply with BS 4449, BS 4482 or BS 4483. Reinforcement shall cut and/or bent in accordance with BS 4466.
6. All concrete shall properly vibrated with and approved mechanical vibrators.
7. Excavated foundations and steel reinforcement shall be approved by the engineer before placing of concrete.
8. Unless otherwise stated, 25mm lean concrete shall be provided beneath all substructural works.

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NOTE:

- September 06: Original drawing.
- October 08: To replace drawing no. SYA/STD/012.
- October 08: Changed to the straight column fencing. Concrete post introduced.
- September 08: Revised by HS.
- October 08: To replace the 25mm dia. opening with 10mm dia. c/w 5mm slot at the top of the concrete post.

---

DRAWING TITLE:
DETAILS OF SECURITY FENCING

DRAWN BY: SYAFIR
DESIGNED: SS
CHECKED: KTT
APPROVED: SS
SCALE: AS SHOWN
DATE: JUNE 2011
DRAWING NO: SYA/STD/012/REV.3
### Details of Water Sampling Station

1. **For Legend, Abbreviation and General Notes See DRG. No. SYA / STD / 001.**
2. **All Dimensions Are In mm Unless Otherwise Stated.**
3. **Water Sampling Station Code.**

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### Additional Notes:
- To change description note for 100mm dia. Pressure Gauge.
- To remove Type 2 Stainless Steel Sink drawing.
- To remove "Side Elevation" drawing and to amend "Front Elevation" drawing label for Water sampling Cabinet.
- To amend perimeter slab from 1225 x 750 x 150 to 1225 x 1225 x 150.
- To add dimension for depth of stainless steel sink.

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### Water Sampling Station Code

- **KL / 00001**
- **GBK / 00001**
- **HLGT / 00001**
- **HSGR / 00001**
- **KLG / 00001**
- **KL / 00001**
- **KSGR / 00001**
- **KLGT / 00001**
- **PTG / 00001**
- **SBK / 00001**
- **SPG / 00001**

---

### Footnotes:
- **SYABAS**
- **ALL COPY RIGHT RESERVED**
- **STESEN PERCONTOH AIR**
- **SYABAS**
- **NOMBOR TEL ADUAN PUSPEL 1 800 88 5252**
- **SYARIKAT BEKALAN AIR SELANGOR SDN BHD**
- **PROJECT :**
- **DRAWING NO :**
- **DRAWING TITLE :** DETAILS OF WATER SAMPLING STATION
- **DRAWN BY :** SHAHRUL
- **DESIGNED :**
- **NOTE :**
- **APPROVED :**
- **PETI SURAT 5001, JALAN PANTAI BAHRU, 59990, KUALA LUMPUR.**
- **TEL NO : 03 - 2282 6244 / 03 - 2283 1111**
- **FAX NO : 03 - 2282 5498**
- **LAMAN WEB : www.syabas.com.my**
- **EMAIL : puspel@syabas.com.my**

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### Diagram:

- **Piping Details**
- **Front Elevation**
- **Side Elevation**
- **Front View**
- **Side View**
- **Plan View**
- **Stainless Steel Sink Detail**
- **Section A-A**
- **Water Sampling Cabinet Label**

---

### Symbols:
- **WQD**
- **SS**

---

### Notes on Drawing:
- **DATE :** NOV. 2012
- **CHECKED :**
- **DRAWN BY :**
- **REVISED BY :**
- **SYA / STD / 013 / REV.1**
TYPICAL ARRANGEMENT OF 100mm @ SLUICE VALVE AT 100mm @ PILLAR

HYDRANT WITH 63.5mm (2 1/2") OUTLET (AT INTERMEDIATE LOCATION)

TYPICAL ARRANGEMENT OF 100mm @ SLUICE VALVE AT 100mm @ PILLAR

HYDRANT WITH 63.5mm (2 1/2") OUTLET (AT DEAD END)
PROJECT: TYPICAL DETAILS OF ELEPHANT TRUNK

DRAWN BY: SHAHRUL
DESIGNED: YHH
CHECKED: O&M
APPROVED: LPL
SCALE: NTS
DATE: AUG 2014
DRAWING NO: SYA / STD / 014 / 1

NOTE: 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.

REV. DATE DESCRIPTION
1 SYA / STD / 014 / 1

The following features are added:
1. Bulk meter stand added.
2. Stop cock c/w MS Box Clamp added
3. Premix platform
4. Control valve (lever type) added.

SYABAS
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JALAN PANTAI BAHRU,
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EMAIL : puspel@syabas.com.my

SCALE : NTS
DATE : AUG. 2014
APPROVED : LPL

REVISED BY O&M

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<td>The following features are added:</td>
<td>Sept. '13</td>
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<tr>
<td></td>
<td>1. Bulk meter stand added.</td>
<td></td>
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<tr>
<td></td>
<td>2. Stop cock c/w MS Box Clamp added</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Premix platform</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. Control valve (lever type) added.</td>
<td></td>
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</table>

SYABAS
SYARIKAT BEKALAN AIR SELANGOR SDN BHD
PETANI SEKALI, SELANGOR
Telp. No. 03-22826244 / 03-22831111
Faks. No. 03-22825498
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puspel@syabas.com.my
Concrete slab to be embedded 50mm in ground level and 25mm exposed. Edge of concrete slab changed to 150mm instead of 300mm.

4 MAC. `09
Changed BRC A10 for concrete slab to BRC A6.

HS
Removed fencing line. Removed 50mm water meter size. Removed Push Cap Lockable Valve.

3 SEPT. `08
To use Push Cap Lockable Valve before HS the stopcock.

REV.
DATE
DESCRIPTION
1
03 JAN. `08
X for 15mm dia. changed to 100mm. to 85mm.
Y for 15mm dia. removed.
2
11 APR. `08
Reintroduce concrete slab with Y for 20mm dia. and 25mm dia. changed additional notes.
3 DEC. `10
WG
Removed 32mm water meter size.

SYABAS and Developers.
Additional notes on communication pipe material for projects undertaken by SYABAS and Developers.

To changed communication pipe from Stainless Steel to HDPE.

To include 5D and 3D requirement for meter size 32mm dia. and 40mm dia.

To changed communication pipe from Stainless Steel to HDPE.

To changed communication pipe from Stainless Steel to HDPE.

To changed communication pipe from Stainless Steel to HDPE.

To changed communication pipe from Stainless Steel to HDPE.

All other dimensions added.

Minimum size for stand pipe added. Note for concrete slab amended.

Detail of Transition Coupler added. WG Tolerances for all dimensions added.

Removed 32mm water meter size.
Concrete slab to be embedded 50mm in ground level and 25mm exposed.

Edge of concrete slab changed to 150mm instead of 300mm.

3 DEC. '10 Removed 32mm water meter size.

To use Push Cap Lockable Valve before HS the stopcock.

REVISED BY:

1. X for 15mm dia. changed to 100mm. to 85mm.
   Y for 15mm dia. removed.

2. Reintroduce concrete slab with Y for 20mm dia. and 25mm dia. changed additional notes.

3 DEC. '10 Detail of Transition Coupler added. WG Tolerances for all dimensions added. Minimum size for stand pipe added. Note for concrete slab amended.
TYPICAL DETAIL OF BULK METER STAND

(Y-strainer may be used in place of T-pot strainer for size not available in the market)
**DRAWING TITLE:**

**TYPICAL DETAIL OF CONSTANT FLOW VALVE**

**SIZE OF CONSTANT FLOW VALVE**

<table>
<thead>
<tr>
<th>Flow Rate Q (l/s)</th>
<th>Flow Rate at 20 hrs</th>
<th>Full Bore (mm)</th>
<th>Half Bore (mm)</th>
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<tr>
<td>2</td>
<td>0.144</td>
<td>25</td>
<td>22</td>
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<tr>
<td>3</td>
<td>0.196</td>
<td>32</td>
<td>22</td>
</tr>
<tr>
<td>4</td>
<td>0.248</td>
<td>40</td>
<td>32</td>
</tr>
<tr>
<td>5</td>
<td>0.299</td>
<td>50</td>
<td>40</td>
</tr>
<tr>
<td>7</td>
<td>0.504</td>
<td>70</td>
<td>50</td>
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<td>9</td>
<td>0.648</td>
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<td>10</td>
<td>0.720</td>
<td>100</td>
<td>90</td>
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<td>15</td>
<td>1.080</td>
<td>150</td>
<td>100</td>
</tr>
<tr>
<td>20</td>
<td>1.440</td>
<td>200</td>
<td>150</td>
</tr>
<tr>
<td>25</td>
<td>2.160</td>
<td>250</td>
<td>200</td>
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<tr>
<td>30</td>
<td>2.880</td>
<td>300</td>
<td>250</td>
</tr>
<tr>
<td>40</td>
<td>5.040</td>
<td>500</td>
<td>350</td>
</tr>
<tr>
<td>50</td>
<td>7.200</td>
<td>700</td>
<td>550</td>
</tr>
<tr>
<td>60</td>
<td>10.800</td>
<td>1000</td>
<td>700</td>
</tr>
<tr>
<td>70</td>
<td>14.400</td>
<td>1500</td>
<td>1000</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Pressure drop for constant flow valve is 7 PSI (0.48 bar).
2. The orifice of the constant flow valve is usually sized to generate a pressure differential of 3 to 5 PSI (0.20 to 0.35 bar).
3. There is a total pressure drop due to friction.

**SYABAS**

**ALL RIGHTS RESERVED**

**SYARIKAT BEKALAN AIR SELANGOR SDN BHD**

**NOTE:**

**PETI SURAT 5001,**

**JALAN PANTAI BAHRU,**

**59990, KUALA LUMPUR.**

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**EMAIL :** puspel@syabas.com.my
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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>001</td>
<td>06 JUNE `08</td>
<td>Removal of short piece and replace with additional of a socket at short piece</td>
</tr>
<tr>
<td>002</td>
<td>8 JAN. `09</td>
<td>To use Push Cap Lockable Valve before the stopcock.</td>
</tr>
<tr>
<td>003</td>
<td>02 MAC `09</td>
<td>For developer project, spacing X changed to 80mm.</td>
</tr>
<tr>
<td>004</td>
<td>3 DEC. `10</td>
<td>HS Removed Push Cap Lockable Valve. Detail of Transition Coupler added.</td>
</tr>
<tr>
<td>005</td>
<td>3 DEC. `10</td>
<td>WG Tolerances for all dimensions added.</td>
</tr>
<tr>
<td>006</td>
<td>10 DEC. `10</td>
<td>WG Spacing X changed to 90mm.</td>
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**TYPICAL DETAILS OF STAINLESS STEEL METER STAND**

**METERS INSTALLED IN HORIZONTAL POSITION**

**TYPICAL DETAILS OF STAINLESS STEEL METER STAND**

**METERS INSTALLED IN VERTICAL POSITION**

**TYPICAL DETAILS OF STAINLESS STEEL METER STAND**

**INSTALLATION FOR 2 TO 3 STOREY BUILDING**

**NOTE:**

1. All dimensions are in millimeters.
2. All materials shall be specified per table above.
3. All dimensions shall be as per above schedule.
4. All materials shall be specified per table above.
5. All materials shall be specified per table above.
METER STAND FOR Multi-METER CONNECTION
USING STAINLESS STEEL TUBE

DETAIL 1:

TYPICAL DETAILS OF STAINLESS STEEL TUBE METER STAND
METERS INSTALLED IN HORIZONTAL POSITION

TYPICAL DETAILS OF STAINLESS STEEL TUBE METER STAND
METERS INSTALLED IN VERTICAL POSITION

DATE: JUNE 2011

SYABAS KTT

SYARIKAT BEKALAN AIR SELANGOR SDN BHD
PETI SURAT 5001,
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EMAIL : puspel@syabas.com.my
Concrete slab to be embedded 50mm in ground level and 25mm exposed.

Edge of concrete slab changed to 150mm instead of 300mm.

4 MAC. '09

 Changed BRC A10 for concrete slab to BRC A6.

5 SEPT. '08

To use Push Cap Lockable Valve before HS the stopcock.

REVISED BY

HS

X for 15mm dia. changed to 100mm. Y for 15mm dia. removed.

2 DEC. '10

WG


46

To changed communication pipe material for projects undertaken by SYABAS and Developers.

Additional notes on communication pipe material for projects undertaken by SYABAS and Developers.

To use SS socket after the meter stopcock removed.

Concrete slab removed.

To include 5D and 3D requirement for meter size 32mm dia. and 40mm dia.

To changed communication pipe from Stainless Steel to HDPE.

Removed 32mm water meter size.
HIGH RISE APARTMENT/CONDOMINIUM

METERS INSTALLED IN VERTICAL POSITION

METERS INSTALLED IN HORIZONTAL POSITION

TYPICAL DETAILS OF STAINLESS STEEL POLYSTEEL METER STAND

METER STAND INSTALLATION FOR HIGH RISE APARTMENT / CONDOMINIUM
SYABAS

SYARIKAT BEKALAN AIR SELANGOR SDN BHD
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JALAN PANTAI BAHRU,
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TEL NO : 03 - 2088 5400
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DRAWING NO:
DRAWING TITLE :
DRAWN BY : SHAHRUL
DESIGNED :
CHECKED :
SYA / STD / 019 / 3
SCALE : NTS
DATE :
APPROVED :
S Y A B A S
REV.
DATE
DESCRIPTION
REVISED BY
KTT
JUNE 2011
PROJECT :
METER STAND INSTALLATION FOR 4 TO 5 STOREY WALK-UP BUILDINGS USING STAINLESS STEEL TUBE
SYA / STD / 019 / 3

TYPICAL DETAIL OF STAINLESS STEEL TUBE METER STAND
METERS INSTALLED IN VERTICAL POSITION

TYPICAL DETAIL OF STAINLESS STEEL TUBE METER STAND
METERS INSTALLED IN HORIZONTAL POSITION

4 TO 5 STOREY WALK-UP BUILDING
1. All dimensions are in millimeter unless otherwise stated.

2. 3 Tapping per meter length.

TYPICAL COMMUNICATION PIPES TAPPING ARRANGEMENT (OPEN CUT)

1. Details for Communication Pipes Tapping Arrangement and Pipe Trench

COMMUNICATION PIPE UNDER METALLED ROAD CROSSING

NORMAL TRENCH FOR COMMUNICATION PIPE

ON ROAD SHOULDER NOT UNDER METALLED ROAD

NOTE:
- Installation of Open Cuts is by Approved Directional Boring Method.
- There is no backfill required.

SYABAS
SYARIKAT BEKALAN AIR SELANGOR SDN BHD
NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRE UNLESS OTHERWISE STATED.
2. ACTUAL LENGTH OF COMMUNICATION PIPE SHALL BE DETERMINED ON SITE.
3. ALL CONCRETE TO BE GRADE 25 UNLESS OTHERWISE STATED.
4. FOR X ≥ 2.0m, THEN THE STAINLESS STEEL PIPE IS ONLY THE DRAIN CROSSING AND SHALL BE CONNECTED TO THE METER STAND BY HDPE PIPE USING SUITABLE JOINTING MATERIAL.

TYPICAL DETAILS OF COMMUNICATION PIPE WITH DRAIN CROSSING

TYPE A

TYPE B

TYPICAL DETAIL FOR COMMUNICATION PIPE WITH DRAIN CROSSING
NOTES:
1. ALL DIMENSIONS ARE IN MILIMETRE UNLESS OTHERWISE STATED.
2. ACTUAL LENGTH OF COMMUNICATION PIPE SHALL BE DETERMINED ON SITE.
3. ALL CONCRETE TO BE GRADE 25 UNLESS OTHERWISE STATED.

PROJECT:
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SYABAS
SCALE : AS SHOWN
DATE : JUNE 2007

1. ALL DIMENSIONS ARE IN MILIMETRE UNLESS OTHERWISE STATED.
2. ACTUAL LENGTH OF COMMUNICATION PIPE SHALL BE DETERMINED ON SITE.
3. ALL CONCRETE TO BE GRADE 25 UNLESS OTHERWISE STATED.
NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRE UNLESS OTHERWISE STATED.
2. ACTUAL LENGTH OF COMMUNICATION PIPE SHALL BE DETERMINED ON SITE.
3. ALL CONCRETE TO BE GRADE 25 UNLESS OTHERWISE STATED.

DIAGRAM:
- DETAILS OF HDPE COMMUNICATION PIPE AND TAPPING FROM MILD STEEL RETICULATION PIPE
- ALL STEEL TAPPING SADDLE FOR MILD STEEL MAIN PIPE
- WITH HDPE COMMUNICATION PIPE

DRAWING TITLE:
- SYARIKAT BEKALAN AIR SELANGOR SDN BHD
- PETI SURAT 5001, JALAN PANTAI BAHRU, 59990, KUALA LUMPUR.
- TEL NO: 03 - 2282 6244 / 03 - 2283 1111
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SYA / STD / 023
### Notes:
1. All dimensions are in millimeter unless otherwise stated.
2. Actual length of communication pipe shall be determined on site.
3. All concrete to be grade 25 unless otherwise stated.

### Details of HDPE Communication Pipe and Tapping

<table>
<thead>
<tr>
<th>Rev.</th>
<th>Description</th>
<th>Date</th>
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**Tapping Scheme for Ductile Iron Main Pipe**

- with HDPE Communication Pipe

### Details of HDPE Communication Pipe and Tapping

- **Scale**: NTS
- **Date**: June 2007

---

**SYABAS**

**SYARIKAT BEKALAN AIR SELANGOR SDN BHD**

**Project:**

**Drawing No:**

**Drawing Title:**

**Date:**

**Details of HDPE Communication Pipe and Tapping**

**FOR DUCTILE IRON (UPVC) / AC RETICULATION PIPE**

**Designed by:**

**Approved by:**

**Scale:**

**Date:**

**Drawing No:** SYA / STD / 024