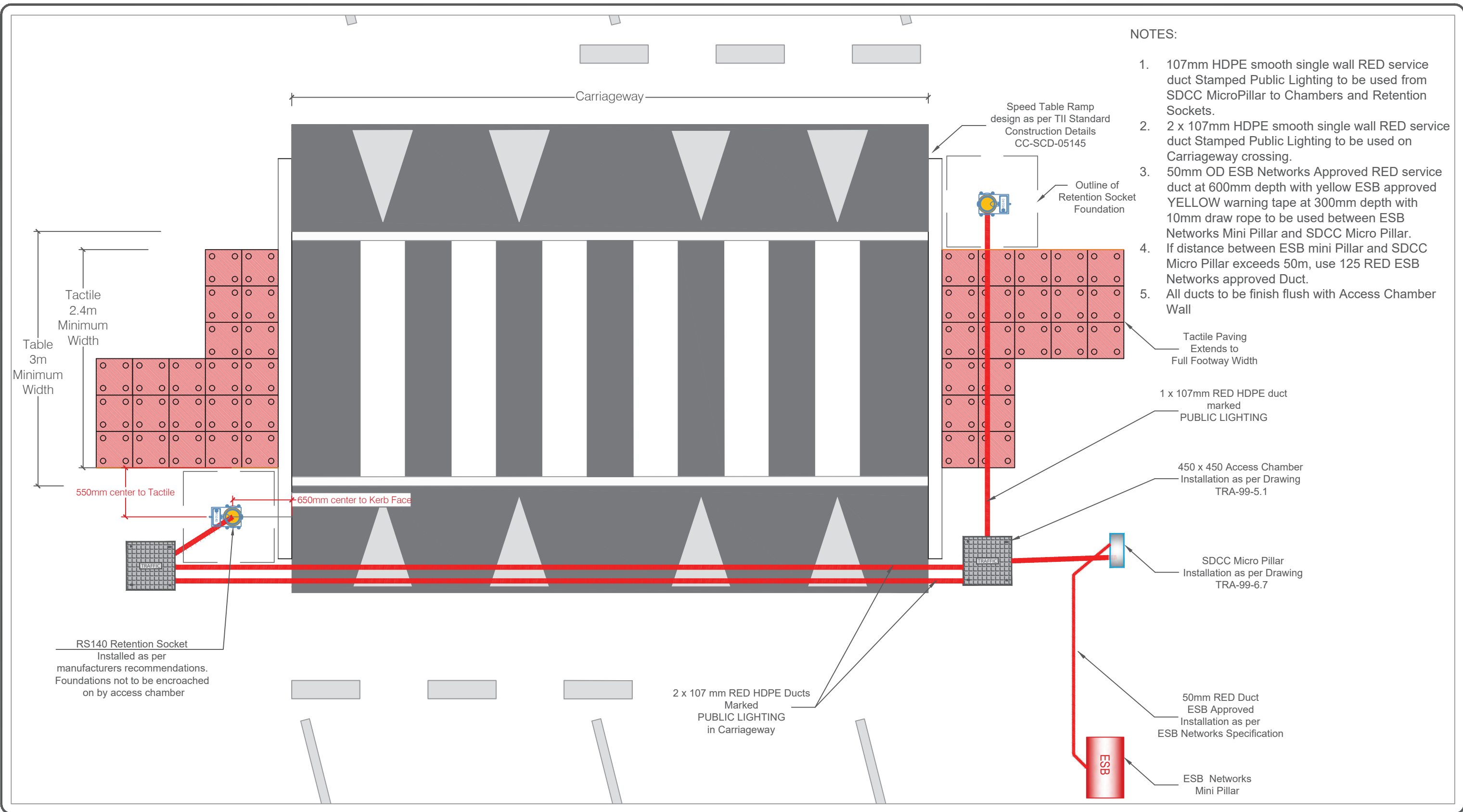




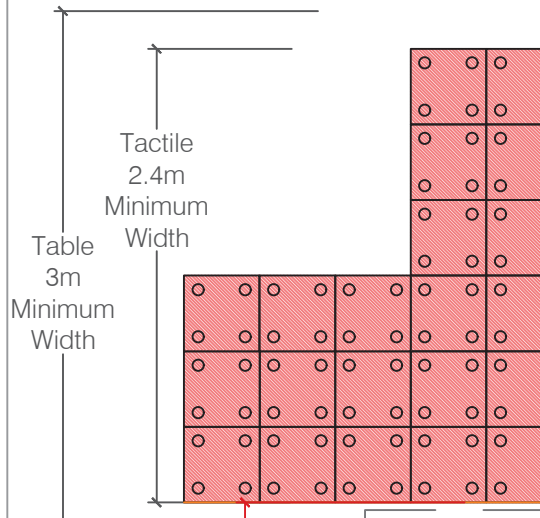
South Dublin County Council

Traffic Standard Construction Drawings



NOTES:

1. 107mm HDPE smooth single wall RED service duct Stamped Public Lighting to be used from SDCC MicroPillar to Chambers and Retention Sockets.
2. 2 x 107mm HDPE smooth single wall RED service duct Stamped Public Lighting to be used on Carriageway crossing.
3. 50mm OD ESB Networks Approved RED service duct at 600mm depth with yellow ESB approved YELLOW warning tape at 300mm depth with 10mm draw rope to be used between ESB Networks Mini Pillar and SDCC Micro Pillar.
4. If distance between ESB mini Pillar and SDCC Micro Pillar exceeds 50m, use 125 RED ESB Networks approved Duct.
5. All ducts to be finish flush with Access Chamber Wall



550mm center to Tactile

650mm center to Kerb Face

RS140 Retention Socket
Installed as per
manufacturers recommendations.
Foundations not to be encroached
on by access chamber

2 x 107 mm RED HDPE Ducts
Marked
PUBLIC LIGHTING
in Carriageway

Tactile Paving
Extends to
Full Footway Width

1 x 107mm RED HDPE duct
marked
PUBLIC LIGHTING

450 x 450 Access Chamber
Installation as per Drawing
TRA-99-5.1

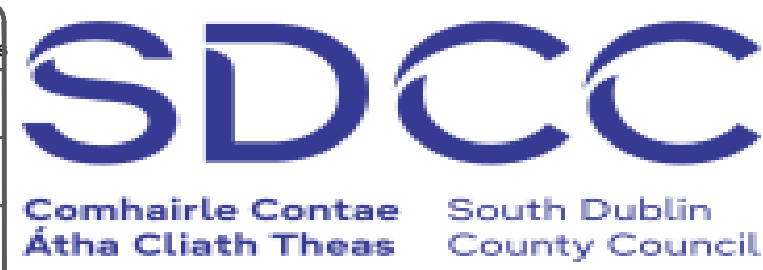
SDCC Micro Pillar
Installation as per Drawing
TRA-99-6.7

50mm RED Duct
ESB Approved
Installation as per
ESB Networks Specification

ESB
ESB Networks
Mini Pillar

- NOTE:**
- All dimensions are in millimeters.
 - No dimensions are to be scaled from drawing.
 - Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
 - All products to be installed to manufacturers guidelines
 - Road Markings as per Chapter 7_Traffic Signs Manual
 - Traffic Signals as per Chapter 9_Traffic Signs Manual
 - Drawing to be read in conjunction with all other Contract Drawings and Documents

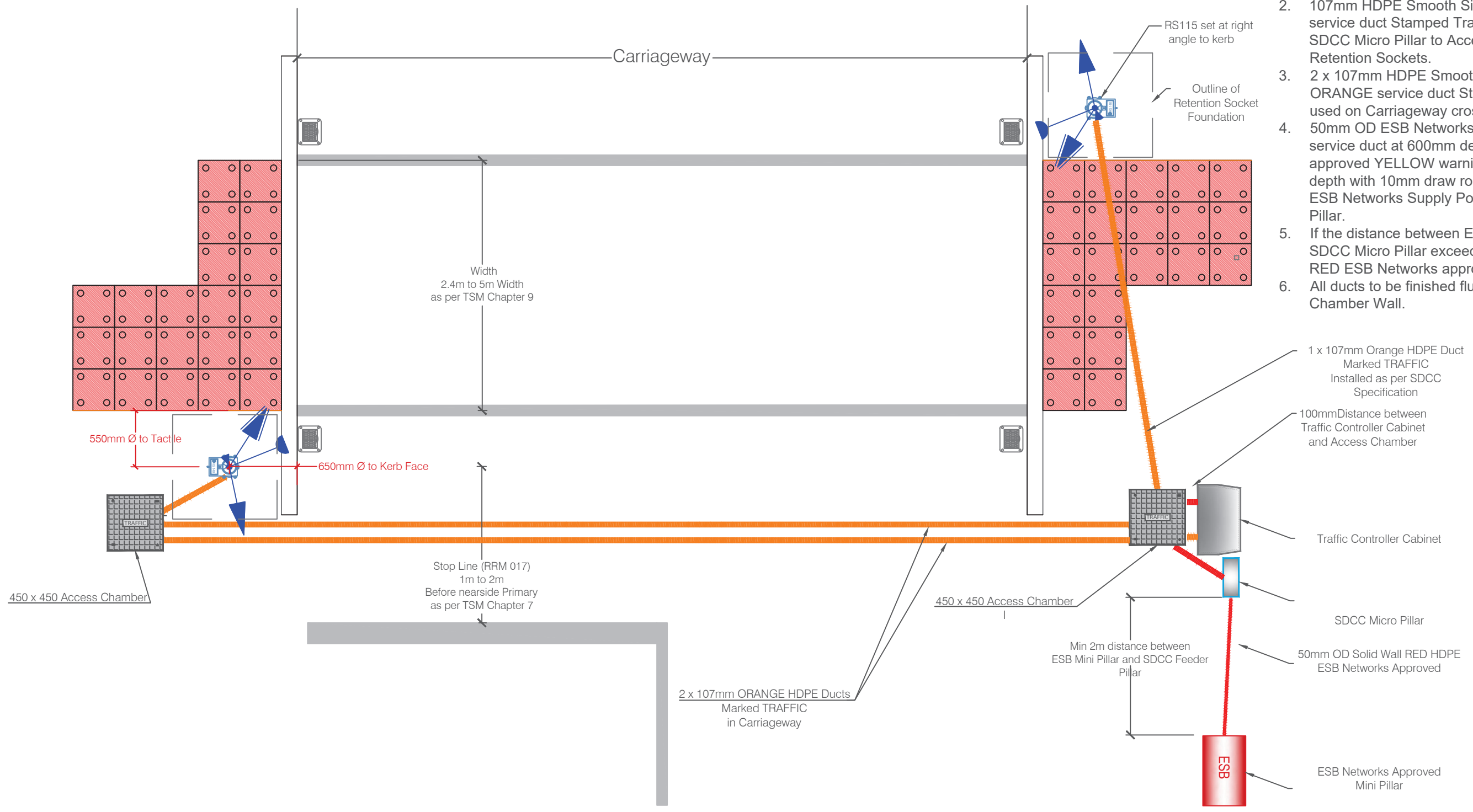
Client: South Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: Zebra Crossing - Typical Layout			
File Location:			
Scale: Not To Scale	Drawn:	Checked:	Date: Feb. 2025



Drawing No.: SDCC TR 1	Revision: -
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NOTES:

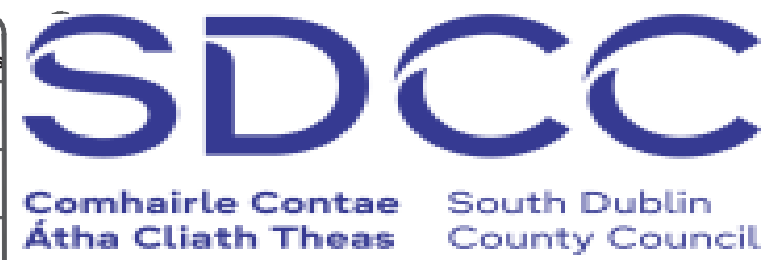
1. 2m cable slack to be coiled in access chambers to facilitate knockdown repairs
2. 107mm HDPE Smooth Single Wall ORANGE service duct Stamped Traffic to be used from SDCC Micro Pillar to Access Chambers and Retention Sockets.
3. 2 x 107mm HDPE Smooth Single Wall ORANGE service duct Stamped TRAFFIC to be used on Carriageway crossing.
4. 50mm OD ESB Networks Approved RED service duct at 600mm depth with yellow ESB approved YELLOW warning tape at 300mm depth with 10mm draw rope to be used between ESB Networks Supply Point and SDCC Micro Pillar.
5. If the distance between ESB Mini Pillar and SDCC Micro Pillar exceeds 50m, use 125mm RED ESB Networks approved Duct.
6. All ducts to be finished flush with Access Chamber Wall.



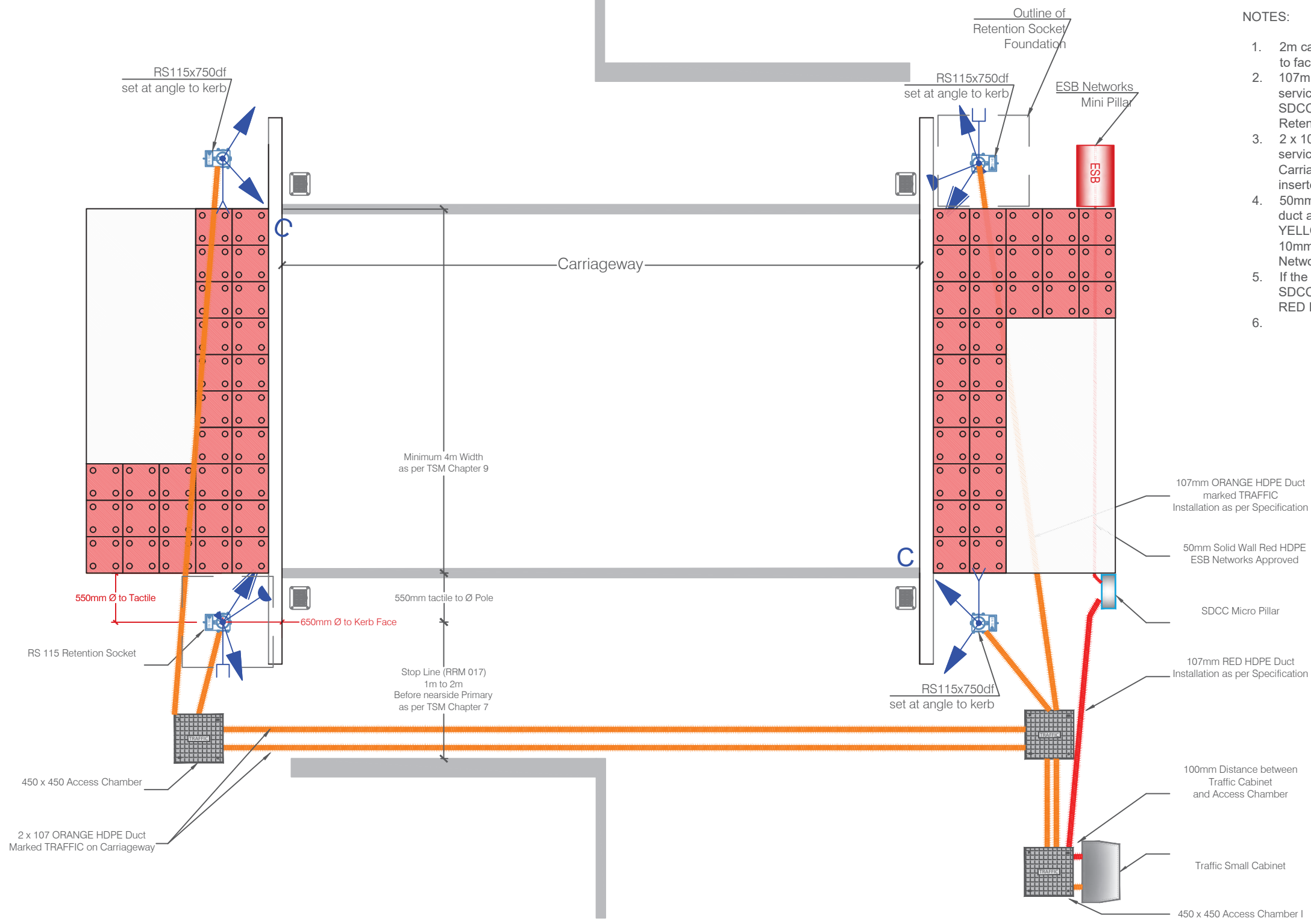
NOTE:

- All dimensions are in millimeters.
- No dimensions are to be scaled from drawing.
- Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
- All products to be installed to manufacturers guidelines
- Road Markings as per Chapter 7_Traffic Signs Manual
- Traffic Signals as per Chapter 9_Traffic Signs Manual
- Drawing to be read in conjunction with all other Contract Drawings and Documents

Client: South Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: Typical Pedestrian Crossing Layout			
File Location:			
Scale: Not to Scale	Drawn:	Checked:	Date: 02/2025

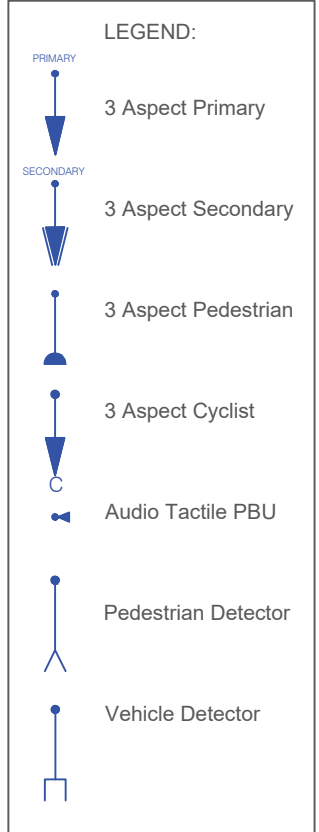


Drawing No.: SDCC TR-2	Revision: -
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NOTES:

1. 2m cable slack to be coiled in access chambers to facilitate knockdown repairs.
2. 107mm HDPE Smooth Single Wall ORANGE service duct Stamped Traffic to be used from SDCC Feeder Pillar to Access Chambers and Retention Sockets.
3. 2 x 107mm HDPE Smooth Single Wal ORANGE service duct Stamped Traffic to be used on Carriageway crossing. 2 way spacers to be inserted every 3m duct length.
4. 50mm ESB Networks Approved RED service duct at 600mm depth with yellow ESB approved YELLOW warning tape at 300mm depth with 10mm draw rope to be used between ESB Networks Supply Point and SDCC Feeder Pillar.
5. If the distance between ESB Mini Pilar and SDCC Feeder Pillat exceeds 50m, use 125mm RED ESB Networks approved Duct.
- 6.



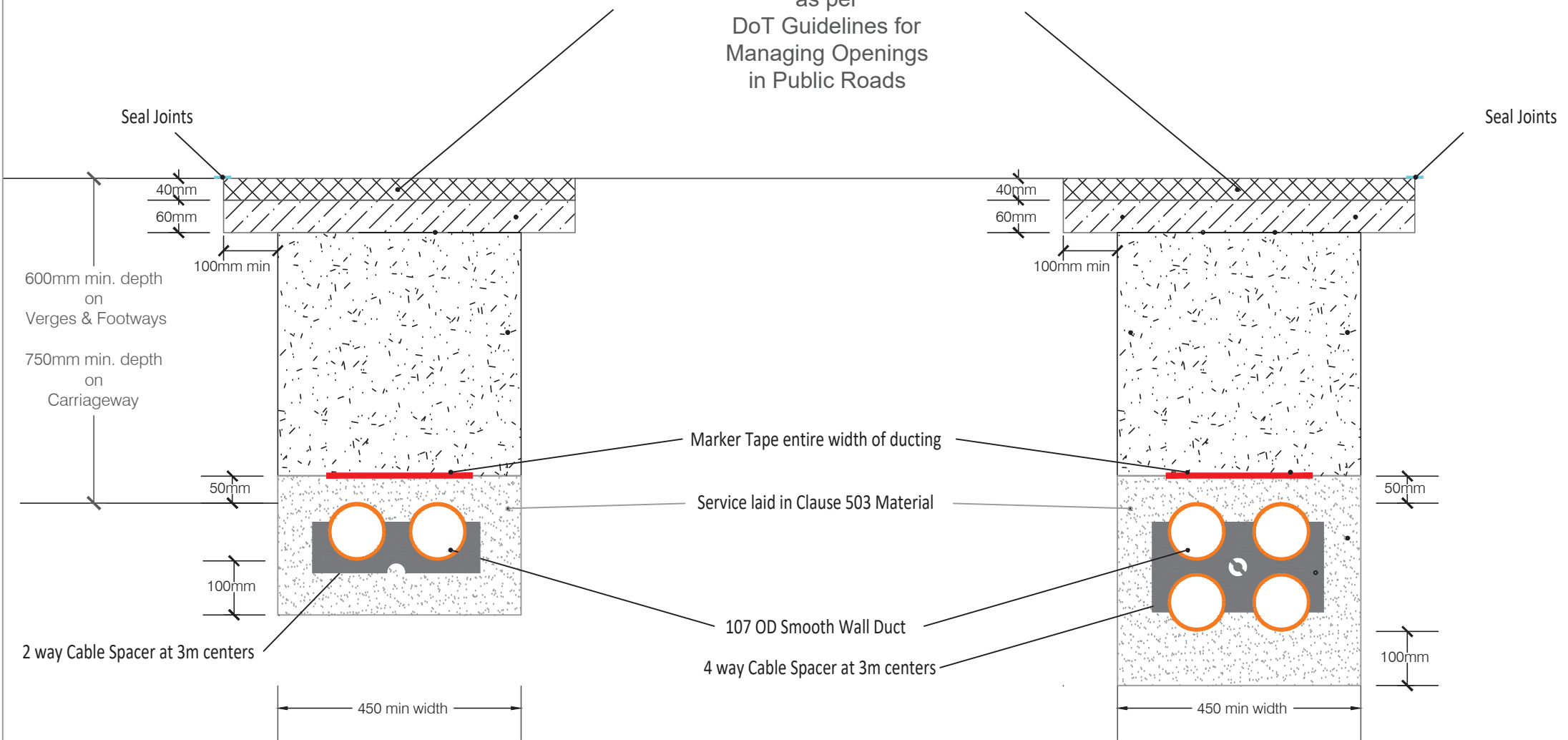
NOTE:

- All dimensions are in millimeters.
- No dimensions are to be scaled from drawing.
- Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
- All products to be installed to manufacturers guidelines
- Road Markings as per Chapter 7_Traffic Signs Manual
- Traffic Signals as per Chapter 9_Traffic Signs Manual
- Drawing to be read in conjunction with all other Contract Drawings and Documents

Client: South Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: Typical Toucan Crossing Layout			
File Location:			
Scale: Not To Scale	Drawn:	Checked:	Date: 02-2025

Drawing No.: SDCC TR-3	Revision: -
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Reinstatement & Backfill as per DoT Guidelines for Managing Openings in Public Roads



NOTES:

1. 107 mm smooth walled Orange or RED Cable Duct HDPE marked 'Traffic' or 'Public Lighting' and manufactured to BS EN 61386-24:2010_minimum 750N at 5% compression.
2. Excavation depths 600mm minimum in verge and footways and 750mm minimum depth in carriageway as per Clause 7 TII-CC-SPW-1500.
3. Ducts should be strapped or clipped together at intervals of no more than 3m. A purpose made spacer should be used to achieve this.
4. Marker tape should cover entire width of ducting.
5. Form a saw cut 100mm deep at a minimum of 100mm from sides of excavation prior to permanent reinstatement.
6. Where the trimmed edge of an excavation is within 400mm of a joint/edge, ironwork or other reinstatement, the trim line should be extended to the interface of such situations.
7. Reinstatement shall be carried out as per DoT Guidelines for Managing Openings in Public Roads.
8. Surface course to match existing surface unless otherwise directed by the SDCC Engineer.

Standard Duct Allocation:

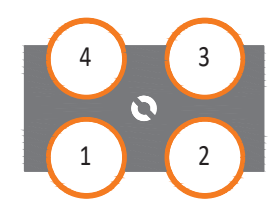


1. 21 x 1 square LV Traffic Signal Cable
2. 13 x 1 square ELV Traffic Signal Cable



Purpose made 2 way spacer to be used a 3m intervals

Standard Duct Allocation:



1. 21 x 1 square LV Traffic Signal Cable
2. 13 x 1 square ELV Traffic Signal Cable and Loop Feeder
3. Fibre or Spare
4. CAT 6



Purpose made 4 way spacer to be used a 3m intervals

NOTE:

- All dimensions are in millimeters.
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- Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
- All products to be installed to manufacturers guidelines
- Road Markings as per Chapter 7_Traffic Signs Manual
- Traffic Signals as per Chapter 9_Traffic Signs Manual
- Drawing to be read in conjunction with all other Contract Drawings and Documents

Client: Suth Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: 2 way & 4 way Traffic Cable Duct on Carraigeway			
File Location:			
Scale: Not To Scale	Drawn:	Checked:	Date: Feb 2025



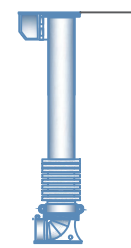
Drawing No.: SDCC TR-4	Revision: -
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LED Lantern
Designed to ILP TR12

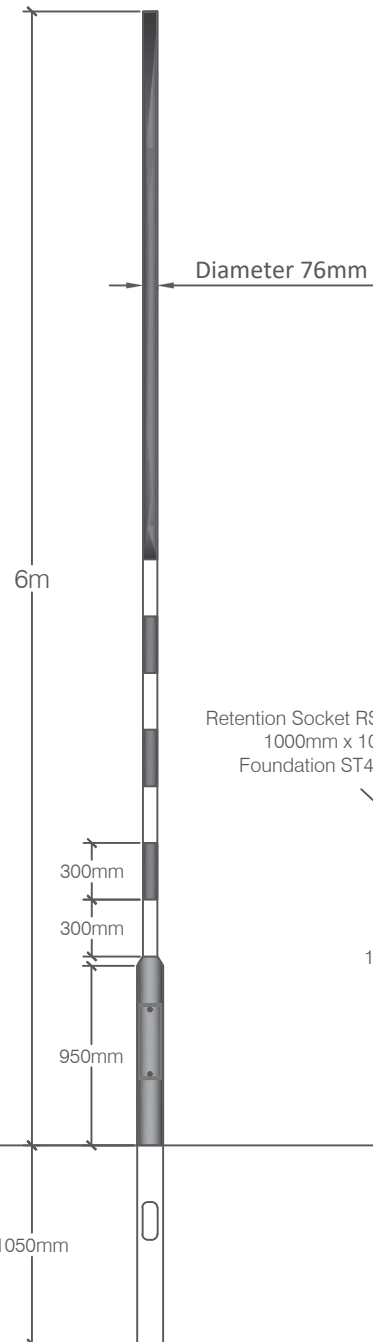
Belisha Beacon
Mid Post Wraparound
with High Intensity LED Array



PLAN

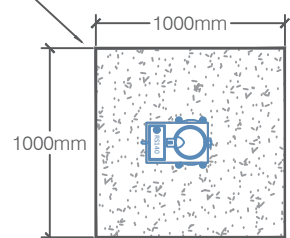


ELEVATION
RS 140 x 1220df

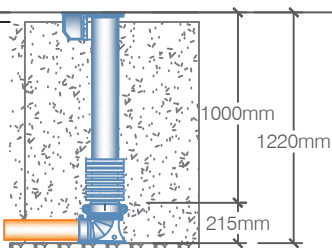


Type B Zebra Pole
6m above GL
1050mm below GL

Retention Socket RS140 x 1220df
1000mm x 1000mm
Foundation ST4 Concrete

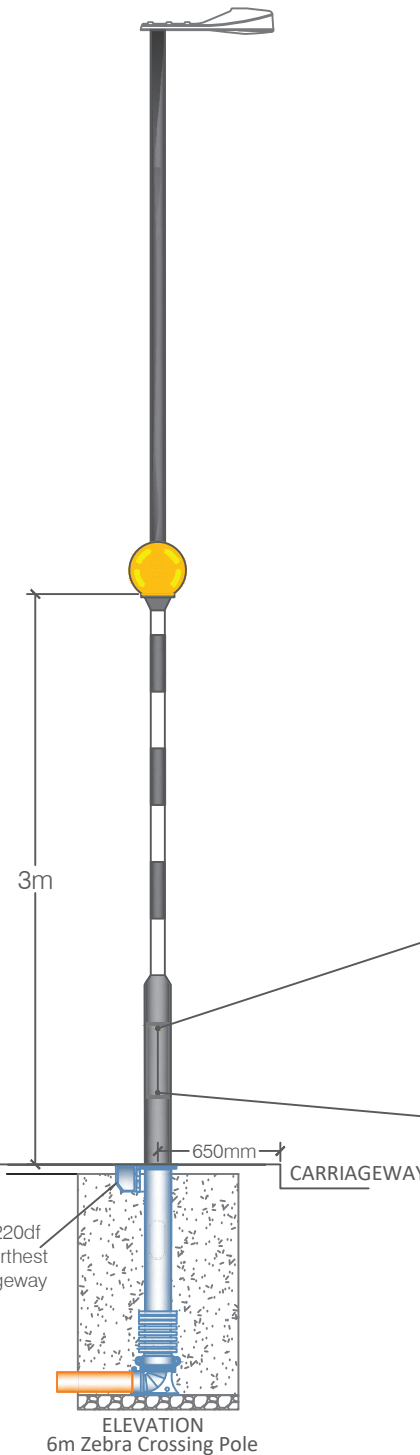


PLAN



ELEVATION

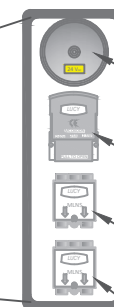
RS140 x 1220df
Chamber furthest
from carriageway



ELEVATION
6m Zebra Crossing Pole

NOTES:

1. Zebra Crossing Pole to be 7.050m in length, 6m above ground and 1.050mm below ground.
2. Zebra Crossing Pole to be painted black with white bands as per Legislation.
3. Retention Socket to be RS140 x 1120df
4. The foundation of the Retention Socket to be as per manufacturers recommendations
5. No chamber to encroach on RS foundation
6. Beacon gallery to be 3m above Ground Level
7. Mid post wraparound Belisha Beacon with high intensity LED arrays driven at 24 volts AC or similar approved.
8. The Belisha Beacon shall have a light sensor which will adjust output to ambient lighting levels.
9. If any of these dimensions cannot be achieved, SDCC Engineer to be informed prior to installation.
10. If Retention socket is situated in grass verge a 150mm concrete plinth shall surround socket.
11. All ST4 Concrete to comply with TII Specification for Road Works Series 2600 CC-SPW-02600



Backboard Details

24 Volt Transformer

Lucy Zodian Cut Out

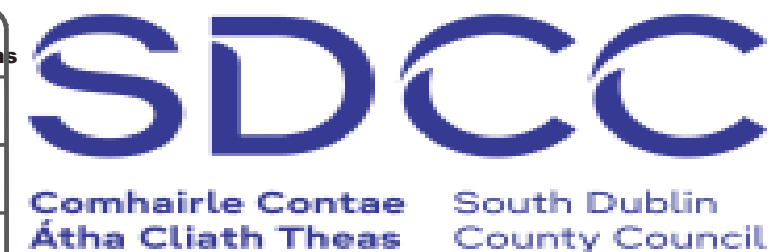
Neutral Terminal Block

Earth Terminal Block

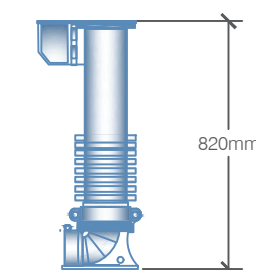
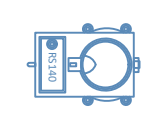
NOTE:

- All dimensions are in millimeters.
- No dimensions are to be scaled from drawing.
- Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
- All products to be installed to manufacturers guidelines
- Road Markings as per Chapter 7_Traffic Signs Manual
- Traffic Signals as per Chapter 9_Traffic Signs Manual
- Drawing to be read in conjunction with all other Contract Drawings and Documents

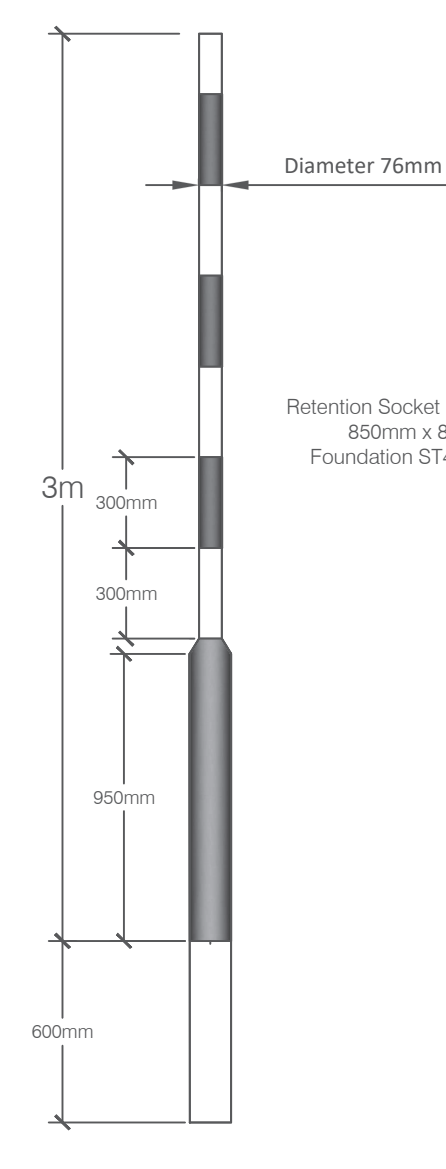
Client: South Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: Type B1 6m Zebra Crossing Pole Details			
File Location:			
Scale: Not To Scale	Drawn:	Checked: JR	Date: Feb 2025



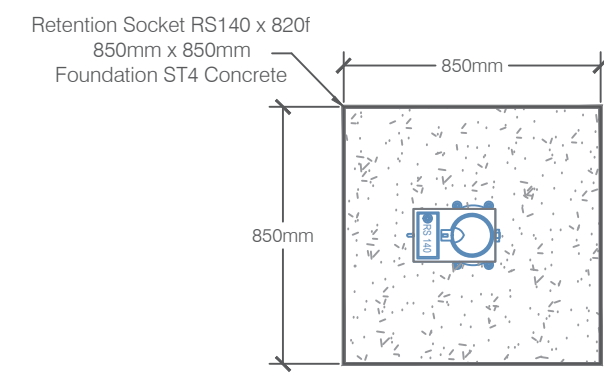
Drawing No.: SDCC TR-5	Revision: -
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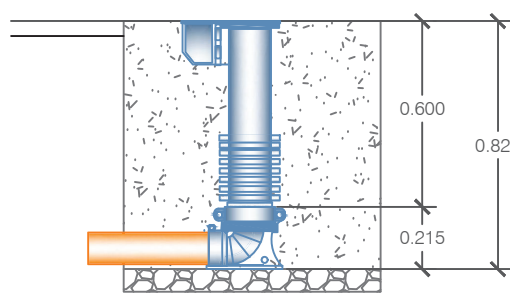
Retention Socket
RS 140 x 820df



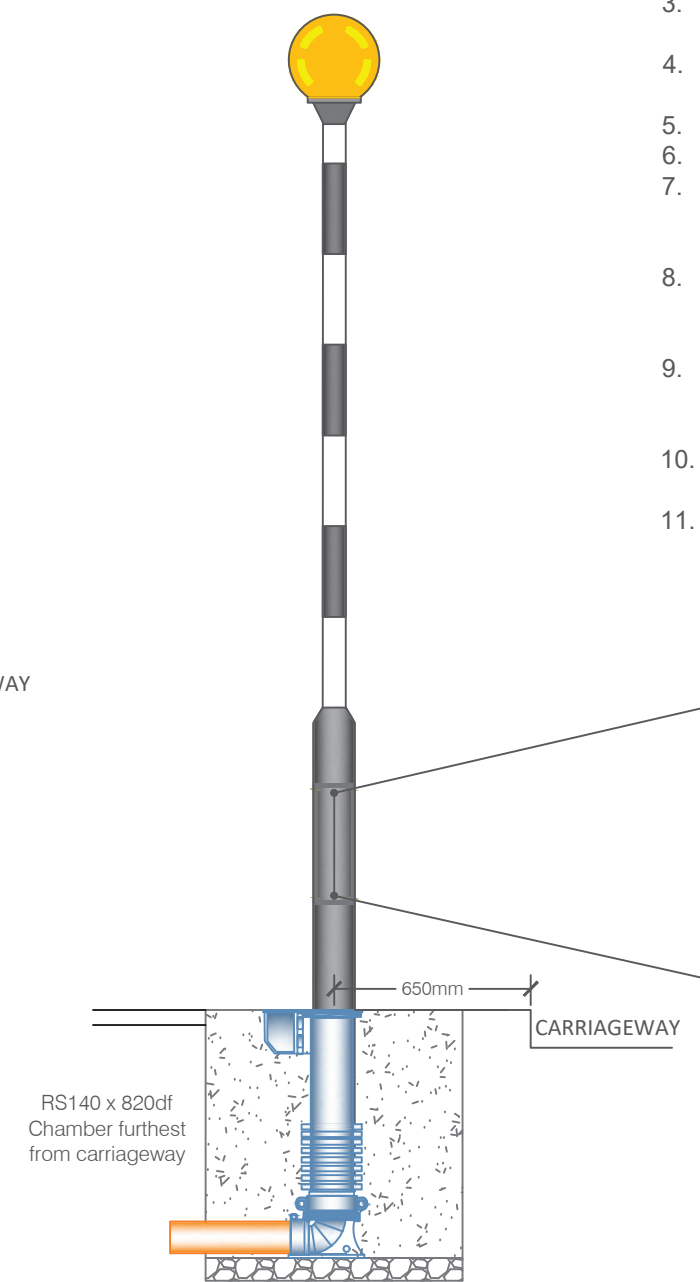
Zebra Pole
3m above GL
600mm below GL



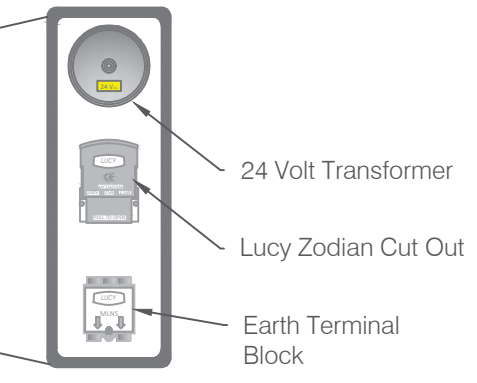
PLAN



ELEVATION



ELEVATION
3m Zebra Crossing Pole

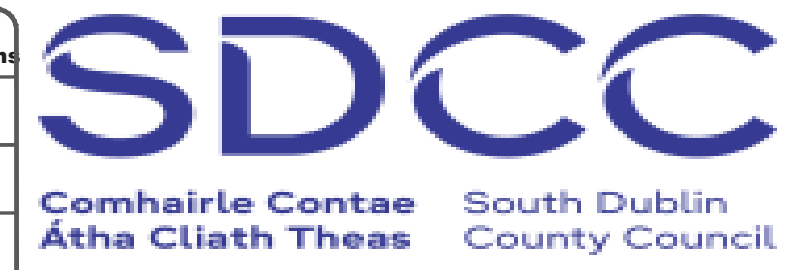


Backboard Details

- NOTES:
1. Zebra Crossing Pole to be 3.6m in length, 3m above ground and 600mm below ground.
 2. Zebra Crossing Poles to be painted black with white bands as per Legislation.
 3. Retention Socket to be RS140 x 820df
 4. The foundation of the Retention Socket to be as per manufacturers recommendations.
 5. No chamber to encroach on RS foundation
 6. Beacon gallery to be 3m above Ground Level
 7. Belisha Beacon with high intensity LED arrays driven at 24 Volts AC or similar approved.
 8. The Belisha Beacon shall have a light sensor which will adjust output to ambient lighting levels.
 9. If any of these dimensions cannot be achieved, SDCC Engineer to be informed prior to installation.
 10. If retention socket is situated in grass verge a 150mm concrete plinth shall surround socket.
 11. All ST4 Concrete to comply with TII Specification for Road Works Series 2600 CC-SPW-02600

- NOTE:
- All dimensions are in millimeters.
 - No dimensions are to be scaled from drawing.
 - Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
 - All products to be installed to manufacturers guidelines
 - Road Markings as per Chapter 7_Traffic Signs Manual
 - Traffic Signals as per Chapter 9_Traffic Signs Manual
 - Drawing to be read in conjunction with all other Contract Drawings and Documents

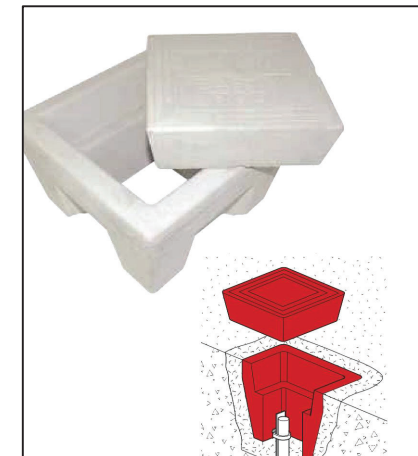
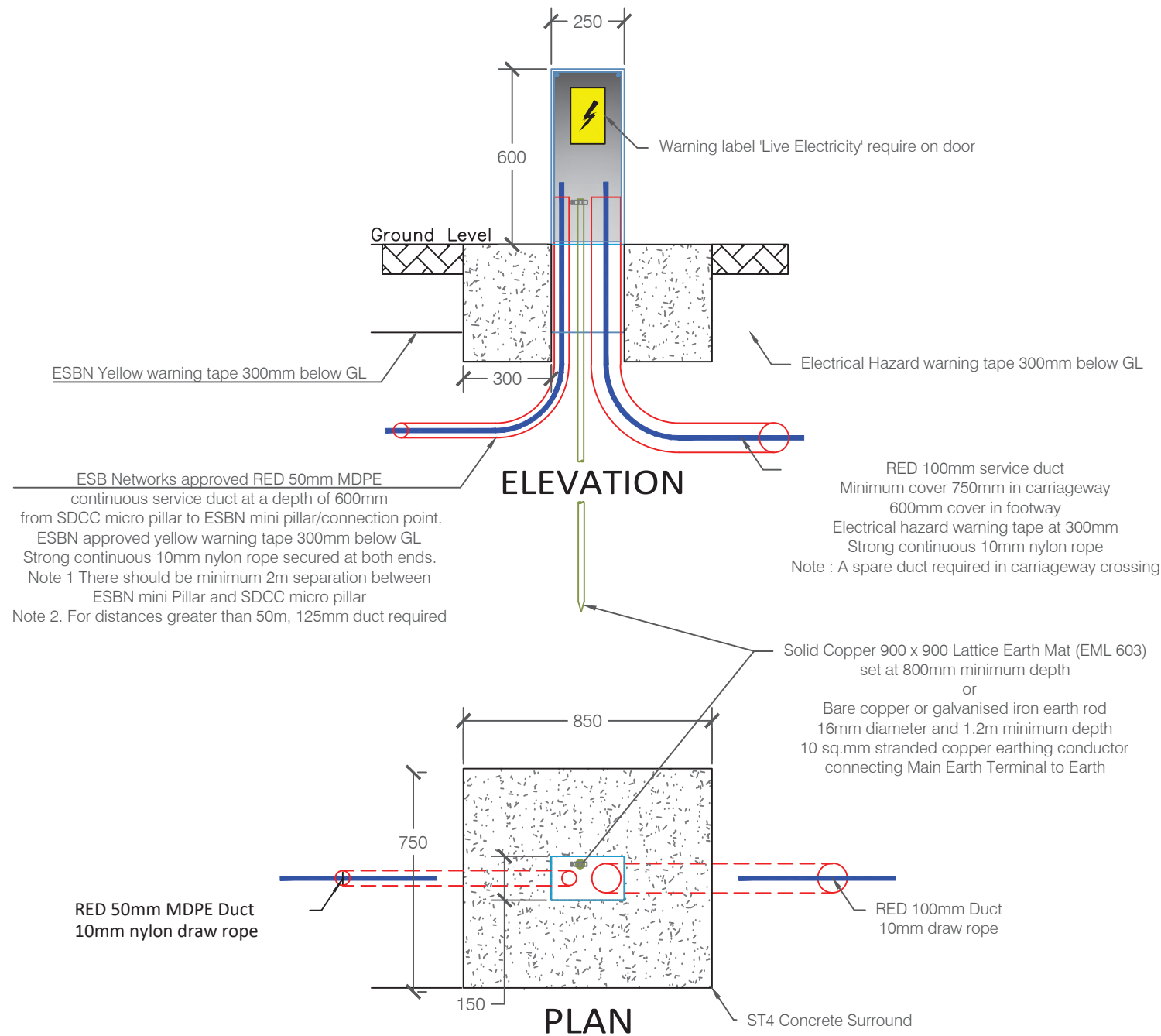
Client: South Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: Type B2 3m Zebra Crossing Pole Details			
File Location:			
Scale: Not To Scale	Drawn:	Checked: JR	Date: Sept. 2021



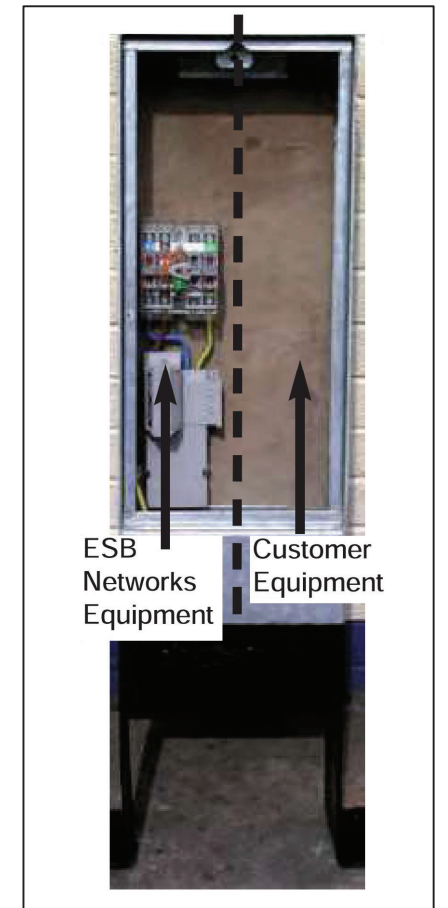
Drawing No.: SDCC TR-6	Revision: -
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NOTES:

1. Minimum Dimensions:- 250mm wide x 600mm high x 150 depth x 330mm root.
2. Minimum Opening Size:- 220mm wide x 510mm high.
3. All South Dublin County Council Feeder Pillars shall be fabricated of minimum 3mm thick sheet steel. including the doors and extension plates.
4. Each Pillar shall be finished for outdoor use by hot dip galvanising to EN ISO 1461:1999
5. Bituminous protective coating shall be applied to extension plates extending all round to the level of the door recess.
6. Each Pillar shall be secured against unauthorised access by a single unHINGED flat plate door secured by one or more triangular head locking bolts.
7. Each pillar shall be adequately ventilated by means of a set of louvered slots near the top.
8. An 18mm thick fireproofed, fungicidal treated plywood insulating back board shall be fitted to facilitate mounting of supply cut out, link blocks, fuse units and any other specified equipment
9. All brass and metal components shall be electro plated
10. The pillar shall have an Earth bonding lug.
11. The Pillar shall be secured by placing ST4 Concrete as per TII Specification Series 2600
12. A high voltage warning symbol shall be attached to the front panel.
13. If an Earth Rod is placed away from the Micro Pillar, a concrete Earth inspection housing shall be placed over the Earth Rod, and a 50mm red duct provided back to the micro pillar.
14. If a Copper Earth Mat is used a 50mm red duct should be provided for the Earth cable back to the micro pillar. The Earth Mat shall be inspected by SDCC Engineer prior to backfilling.



Concrete Earth Inspection Housing

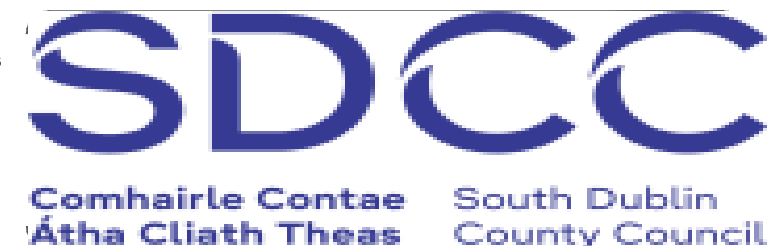


ESB Networks Equipment
Customer Equipment

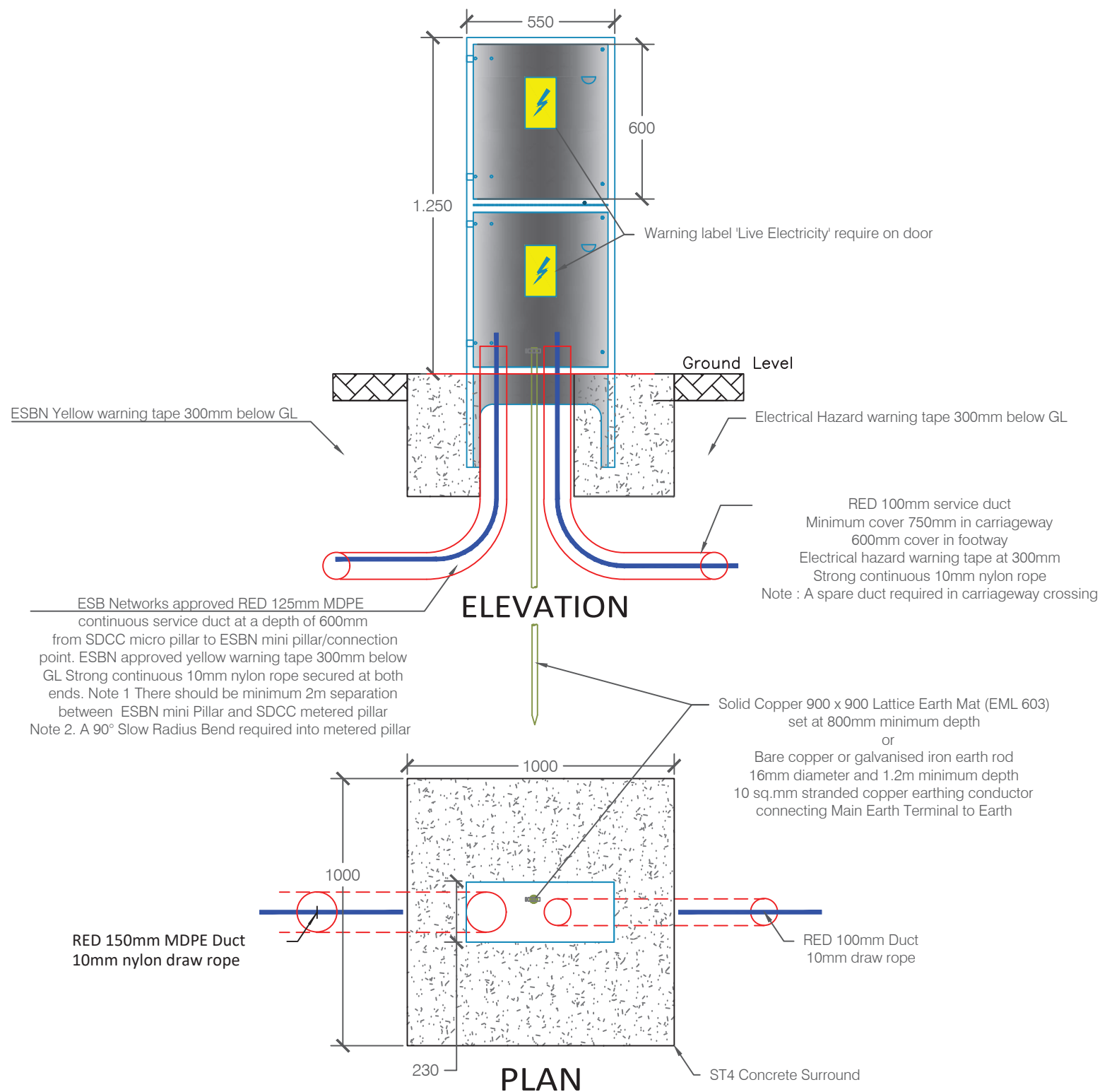
NOTE:

- All dimensions are in millimeters.
- No dimensions are to be scaled from drawing.
- Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
- All products to be installed to manufacturers guidelines
-

Client: South Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: Unmetered Single Phase Micro Pillar			
File Location:			
Scale: Not To Scale	Drawn:	Checked:	Date: Feb 2025

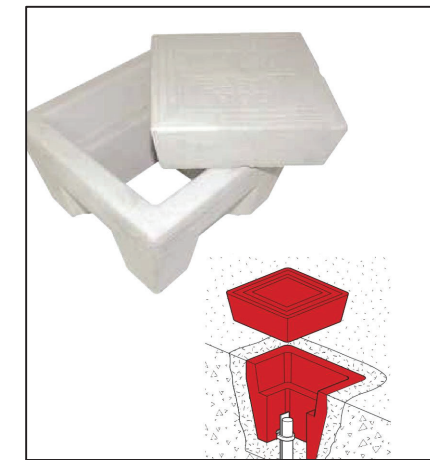


Drawing No.: SDCC TR-7	Revision: -
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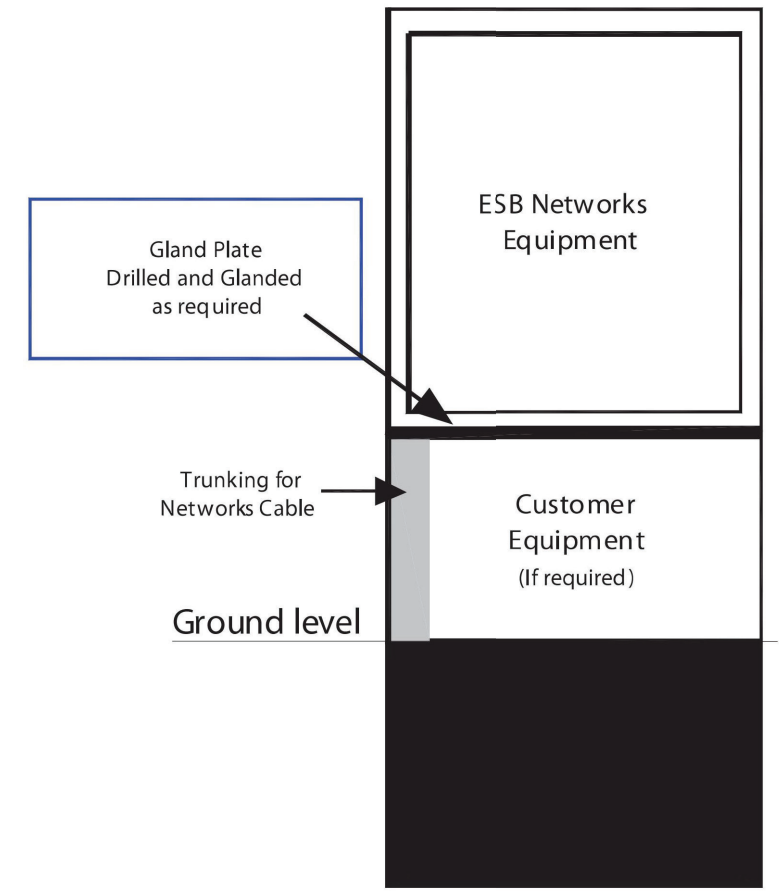


NOTES:

1. Minimum Dimensions:- 500mm wide x 1250mm high x 225 depth x 350mm root.
2. Minimum Opening Size for ESB Networks Requirements:- 465mm wide x 600mm high.
3. Doors must be vertically hinged
4. Gland Plate must be drilled and Glanded to ESB Networks requirements
5. All South Dublin County Council Feeder Pillars shall be fabricated of minimum 3mm thick sheet steel, including the doors and extension plates.
6. Each Pillar shall be finished for outdoor use by hot dip galvanising to EN ISO 1461:1999
7. Bituminous protective coating shall be applied to extension plates extending all round to the level of the door recess.
8. Each Pillar shall be secured against unauthorised access by a single unhinged flat plate door secured by one or more triangular head locking bolts.
9. Each pillar shall be adequately ventilated by means of a set of louvered slots near the top.
10. An 18mm thick fireproofed, fungicidal treated ply insulating back board shall be fitted to facilitate mounting of supply cut out, link blocks, fuse units and any other specified equipment
11. All brass and metal components shall be electro plated
12. The pillar shall have an Earth bonding post.
13. The Pillar shall be secured by placing ST4 Concrete as per TII Specification Series 2600
14. A high voltage warning symbol shall be attached to the front panel.
15. If an Earth Rod is placed away from the Micro Pillar, a concrete Earth inspection housing shall be placed over the Earth Rod, and a 50mm red duct provided back to the micro pillar.
16. If a Copper Earth Mat is used a 50mm red duct should be provided for the Earth cable back to the micro pillar. The Earth Mat shall be inspected by SDCC Engineer prior to backfilling.

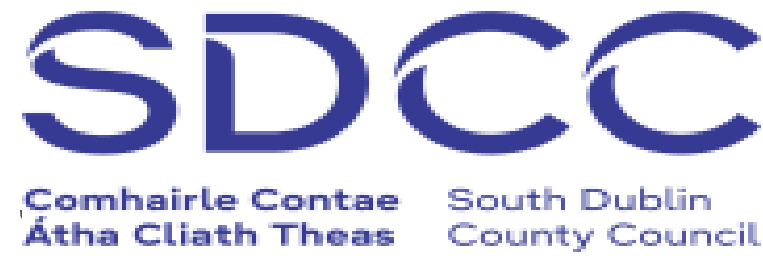


Concrete Earth Inspection Housing

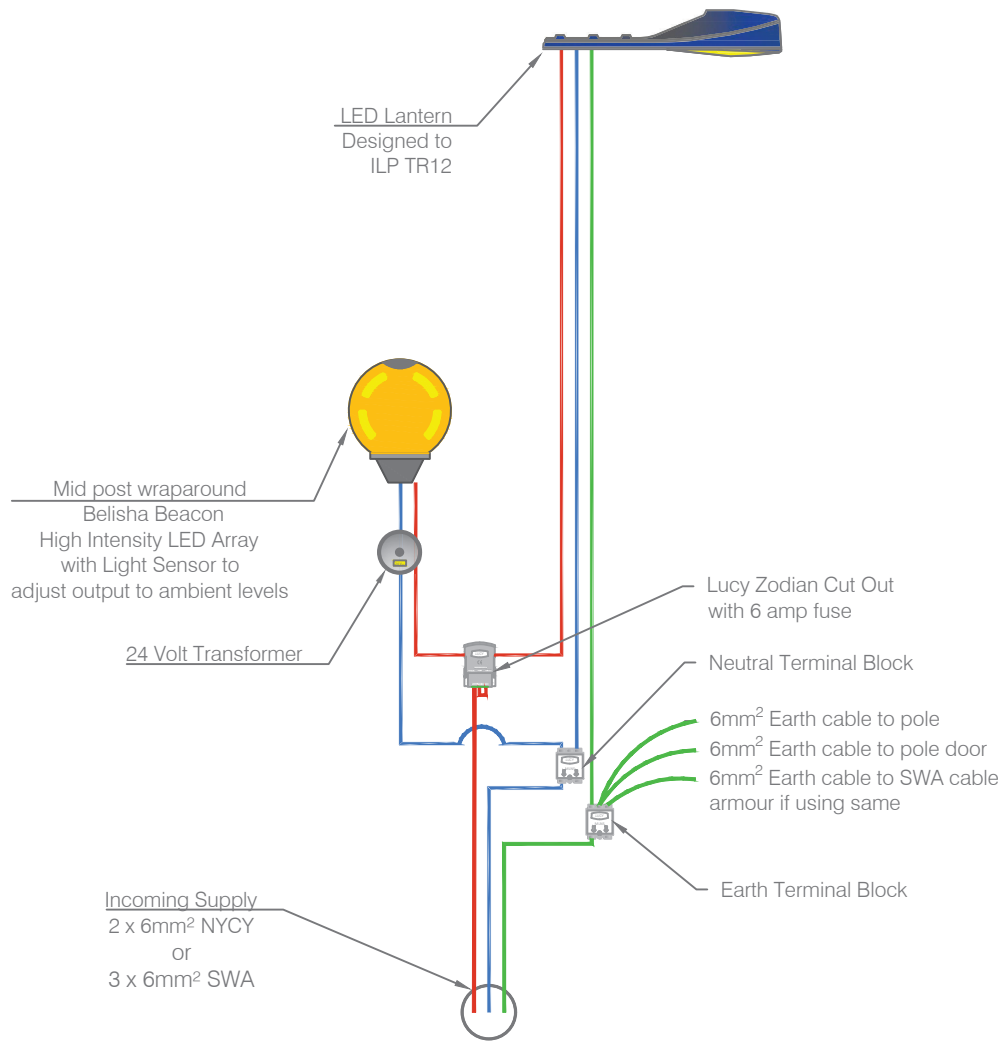


- NOTE:**
- All dimensions are in millimeters.
 - No dimensions are to be scaled from drawing.
 - Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
 - All products to be installed to manufacturers guidelines
 -

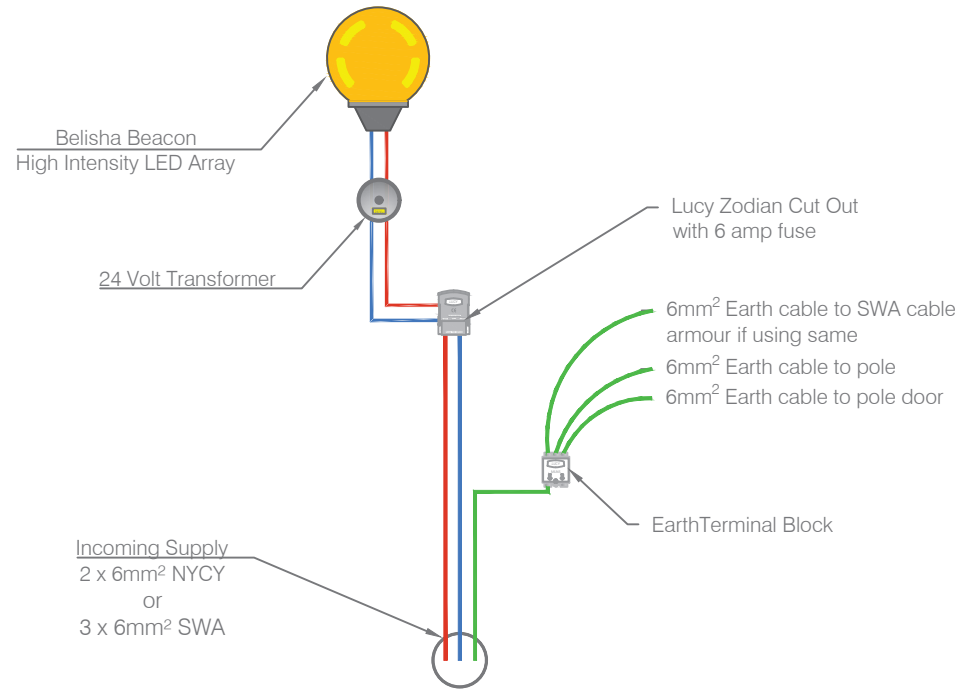
Client: South Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: Metered Three Phase/Single Phase Feeder Pillar			
File Location:			
Scale: Not To Scale	Drawn:	Checked:	Date: Feb 2025



Drawing No.: SDCC TR-8	Revision: -
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TYPE B1 Integral Belisha Beacon
6m TR12 Zebra Crossing



TYPE B2 Post Top Belisha Beacon
3m Zebra Crossing

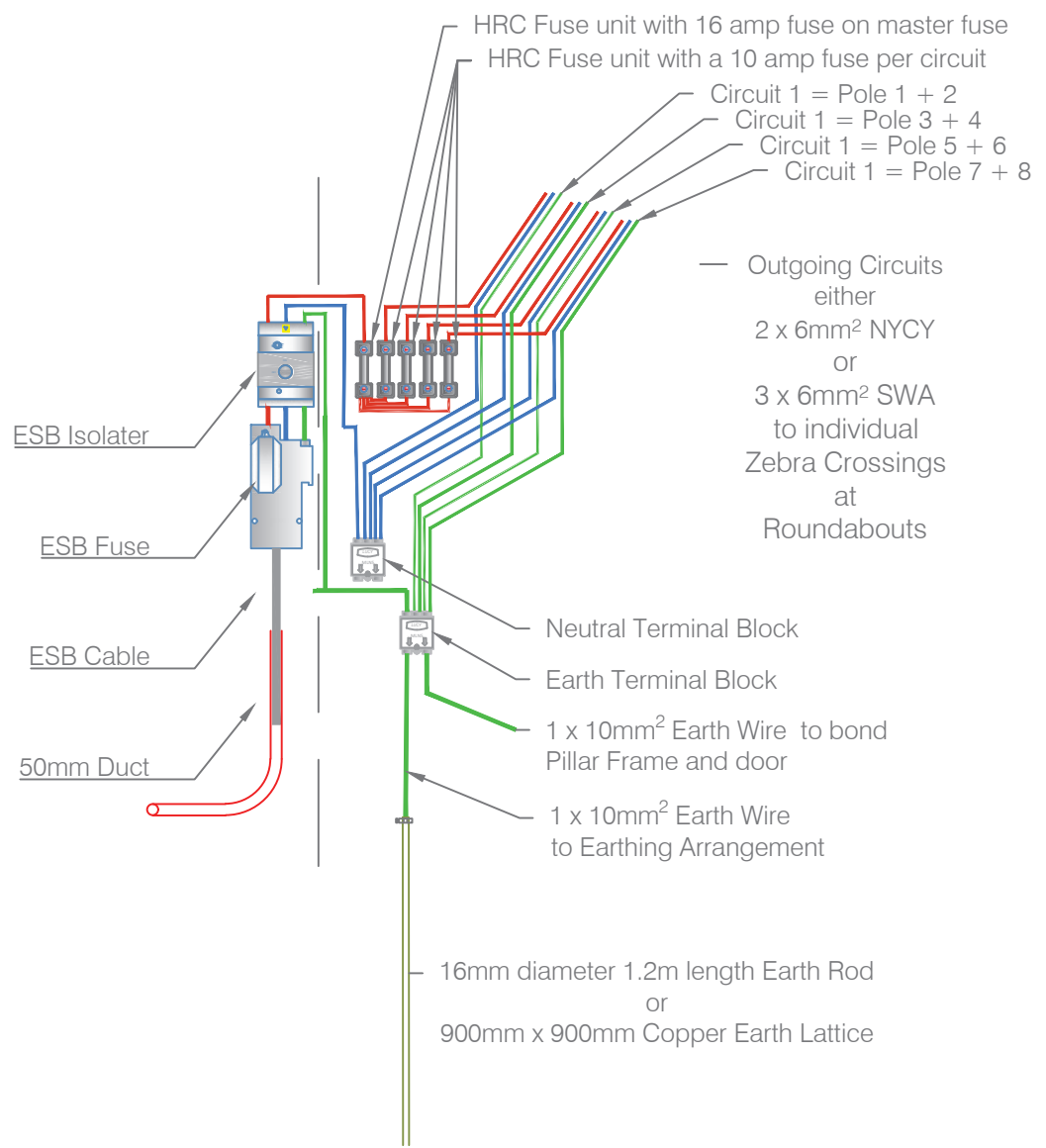
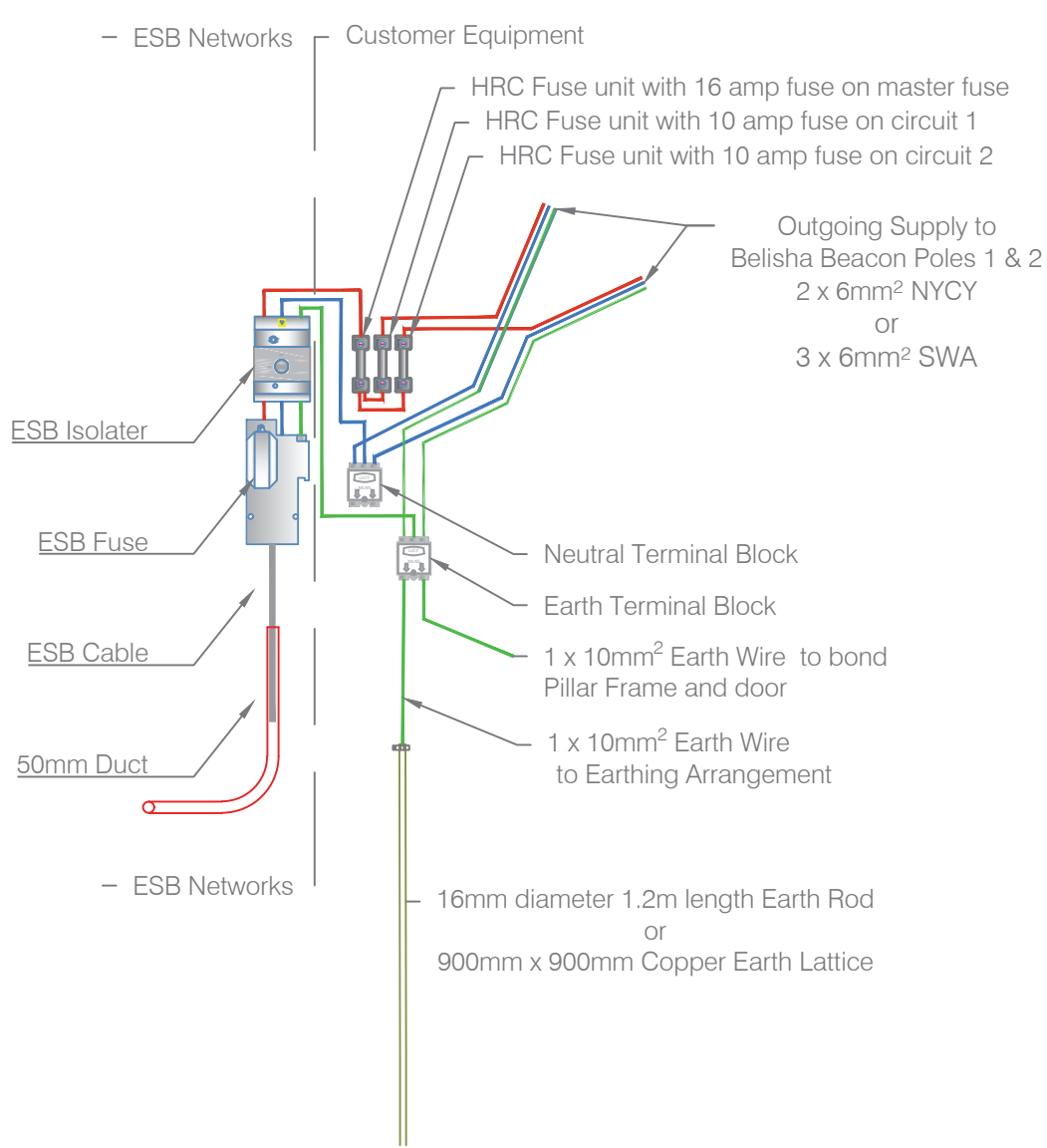
NOTE:

- All dimensions are in millimeters.
- No dimensions are to be scaled from drawing.
- Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
- All products to be installed to manufacturers guidelines
- Road Markings as per Chapter 7_Traffic Signs Manual
- Traffic Signals as per Chapter 9_Traffic Signs Manual
- Drawing to be read in conjunction with all other Contract Drawings and Documents

Client: South Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: Belisha Beacon Wiring Diagram			
File Location:			
Scale: Not To Scale	Drawn:	Checked:	Date: Feb 2025



Drawing No.: SDCC TR-9	Revision: -
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NOTE:

- All dimensions are in millimeters.
- No dimensions are to be scaled from drawing.
- Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
- All products to be installed to manufacturers guidelines
- Road Markings as per Chapter 7_Traffic Signs Manual
- Traffic Signals as per Chapter 9_Traffic Signs Manual
- Drawing to be read in conjunction with all other Contract Drawings and Documents

Client: South Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: Unmetered Micro Pillar Wiring Diagram			
File Location:			
Scale: Not To Scale	Drawn:	Checked:	Date: Feb 2025



Drawing No.: SDCC TR-10	Revision: -
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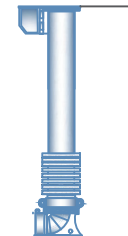
LED Lantern
Designed to ILP TR12



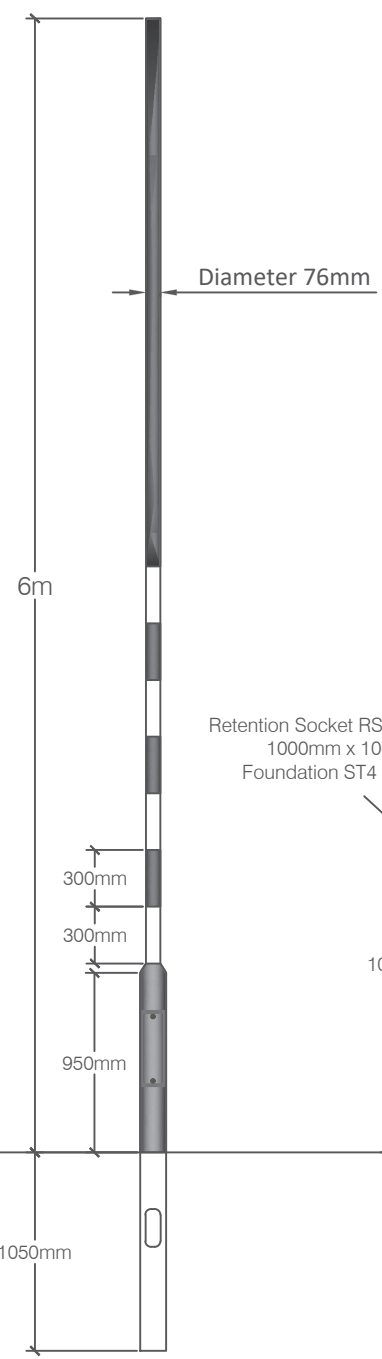
RUS 066



PLAN

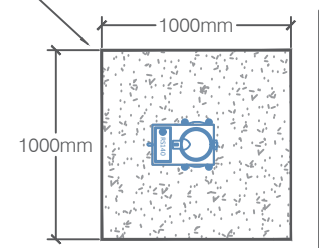


ELEVATION
RS 140 x 1220df

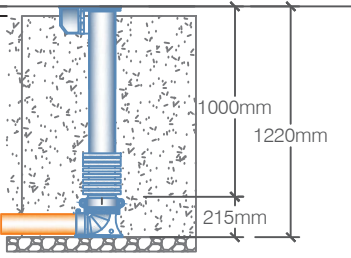


Type B Zebra Pole
6m above GL
1050mm below GL

Retention Socket RS140 x 1220df
1000mm x 1000mm
Foundation ST4 Concrete

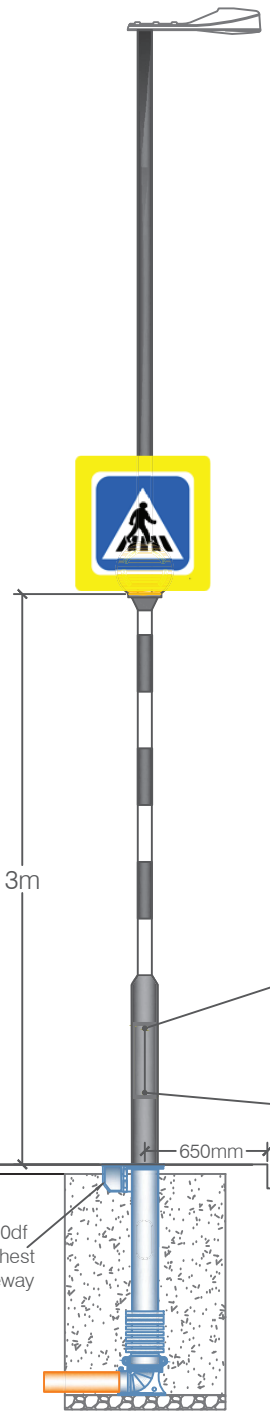


PLAN



ELEVATION

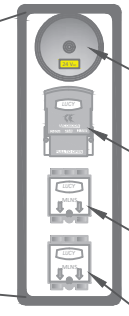
RS140 x 1220df
Chamber furthest
from carriageway



ELEVATION
6m Zebra Crossing Pole

NOTES:

1. Zebra Crossing Pole to be 7.050m in length, 6m above ground and 1.050mm below ground.
2. Zebra Crossing Pole to be painted black with white bands as per Legislation.
3. Retention Socket to be RS140 x 1120df
4. The foundation of the Retention Socket to be as per manufacturers recommendations
5. No chamber to encroach on RS foundation
6. RUS 066 Sign to be 3m above Ground Level
7. If any of these dimensions cannot be achieved, SDCCs Engineer to be informed prior to installation.
8. If Retention socket is situated in grass verge a 150mm concrete plinth shall surround socket.
9. All ST4 Concrete to comply with TII Specification for Road Works Series 2600 CC-SPW-02600



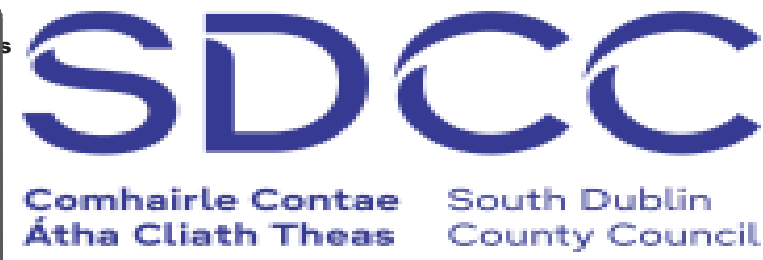
Backboard Details

- 24 Volt Transformer
- Lucy Zodian Cut Out
- Neutral Terminal Block
- Earth Terminal Block

NOTE:

- All dimensions are in millimeters.
- No dimensions are to be scaled from drawing.
- Contractor to submit details of all materials used to SDCC for approval, if the materials are not on SDCC Approved Materials list.
- All products to be installed to manufacturers guidelines
- Road Markings as per Chapter 7_Traffic Signs Manual
- Traffic Signals as per Chapter 9_Traffic Signs Manual
- Drawing to be read in conjunction with all other Contract Drawings and Documents

Client: South Dublin County Council Traffic Technical Specifications			
Project: Traffic Standard Construction Details			
Title: RUS 066 Type B1 6m Zebra Crossing Pole Details			
File Location:			
Scale: Not To Scale	Drawn:	Checked:	Date: Feb 2025



Drawing No.: SDCC TR-11	Revision: -
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