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Lighting and Electrical
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### Construction Standard

**Lighting and Electrical**

**Electrical Legend**

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IN-GROUND COLUMN FOOTING (TYPICAL)

FOOTING Ø

LEAVE APPROX. 300mm SLACK CABLE IN POLE

- PUBLIC LIGHTING
- TRAFFIC SIGNALS (WHERE APPLICABLE)

FOOTING SIZES TO BE DETERMINED BY POLE SUPPLIER. DESIGN POLE IN ACCORDANCE WITH AS1170.2 WITH A MINIMUM BASIC WIND SPEED FOR SERVICEABILITY LIMIT STATE OF 38m/s.

IN-GROUND COLUMN FOOTING (TYPICAL)

WHERE APPLICABLE FROM
TRAFFIC SIGNAL PIT
40 Ø HD UPVC
ORANGE CONDUIT

FROM FUSE PIT
40 Ø HD UPVC
ORANGE CONDUIT

32 Ø FLEXIBLE CONDUIT (UNLESS OTHERWISE NOTED)

COLUMN
SLEEVE

LEAVE 3.0M SPARE LENGTH OF FLEXIBLE CORRUGATED HD ORANGE CONDUIT INSIDE SLEEVE PRIOR TO INSTALLING COLUMN

40 Ø HD ORANGE CONDUIT

40 ØHD ORANGE CONDUIT INSIDE SLEEVE

(50mm ABOVE GROUND TO 150mm BELOW GROUND)

ACCESS OPENING

PETROLATUM TAPE

SAND TO BE WASHED IN.
(SEE INSTALLATION PROCEDURE)

MASONRY BASE SUPPORT BLOCK (250mm Ø)

INSTALLATION PROCEDURE
1. BORE HOLE PLUMB TO ACHIEVE 50mm (MIN) CLEARANCE BETWEEN SLEEVE & COLUMN.
2. SET SLEEVE INTO HOLE PLUMB, AND PROVIDE CABLE ENTRY IN APPROPRIATE LOCATION.
3. INSTALL MASONRY SUPPORT BLOCK.
4. INSTALL FLEXIBLE CORRUGATED CONDUIT(S) INTO SLEEVE.
5. PROGRESSIVELY WATER IN SPECIFIED SAND TYPE AROUND SLEEVE.
6. WRAP COLUMN WITH PETROLATUM TAPE.
7. LOWER COLUMN INTO SLEEVE AND FEED CONDUIT(S) PROGRESSIVELY INTO COLUMN.
8. POSITION COLUMN CENTRALLY, PLUMB AND PROGRESSIVELY WATER IN THE SPECIFIED SAND TYPE.

SAND SPECIFICATION
THE SAND TO BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS BELOW, AND BE NON-PLASTIC WITH 100% PASSING A 600 MICRON SIEVE.

TYPICAL 'IN-GROUND' COLUMN

SLEEVE
RIBBED CAISSON FOR LIGHTING COLUMN. (RIB LOC PTY LTD) REFER TO ACC SPECIFICATION

SAND TO BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS BELOW, AND BE NON-PLASTIC WITH 100% PASSING A 600 MICRON SIEVE.

ANTICORROSION COATING
THE RAG BOLTS AND COLUMN/BASE PLATE (TOP & BOTTOM) SHALL BE PAINTED TO 100mm A.F.G.L. WITH 'INTERPLUS 356' (FROM INTERNATIONAL PROTECTIVE COATINGS, PREVIOUSLY TAUBMANS).
SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. (MINIMUM 250 MICRONS DRY FILM THICKNESS)

CONSTRUCTION STANDARD
Lighting and Electrical

LIGHTING / TRAFFIC COLUMNS

Footing Details

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LOCATION OF POLE IN FOOTPATH

- 5000 MINIMUM FACE OF KERB
- 1000 MAXIMUM FUSE PIT
- 600 MINIMUM FOOT PATH
- 900 MINIMUM ACC FUSE PIT (SQUARE CONCRETE LID) ROUNDED EDGES, 50MM THICK
- 1200 PREFERED DOOR AT BACK OF POLE FACING PROPERTY BOUNDARY
- LOCATE ADJACENT TO LIGHTING POST AS PER PROJECT DRAWING TO SUIT TRENCH ROUTE

LOCATION OF POLE IN PARK LANDS

- 5000 MINIMUM PEDESTRIAN AND/OR BICYCLE PATH
- PROVIDE TWO PRECAST CONCRETE SEGMENTS WITH ROUNDED EDGES, 50MM THICK
- LAY FLUSH WITH TOP OF SURROUNDING SURFACE ON BED OF 30MM CLEAN WASHED SAND TO MATCH NATURAL GRADE OF SURROUNDING LAWN SURFACES
- 450 SQUARE (NOM.) BUTT JOINT, SWEEP SAND INTO JOINT AFTER LAYING

CONSTRUCTION STANDARD
Lighting and Electrical
POST TOP
Location Details Typical

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2. NOTES

1. COLUMNS INSTALLATION NOT PERMITTED WHERE MEDIAN IS LESS THAN 2.0 METRES.

2. COLUMNS IN MEDIAN TO BE IMPACT ABSORBING OR SLIP BASE TYPE.
1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION.

2. COLUMN SHALL BE HOT DIPPED GALVANIZED AND WET PAINTED IN ACCORDANCE WITH ATTACHED ACC SPECIFICATION.

3. PAINT FINISH - DULUX OYSTER REFER PAINTING SPECIFICATION FOR APPLICATION

4. POLE IDENTIFICATION LABEL REQUIREMENTS

   CORPORATION OF THE CITY OF ADELAIDE
   MANUFACTURER'S NAME
   CONTRACT NUMBER
   MONTH/YEAR OF MANUFACTURE

NOTE DIMENSION TO BE NOTIFIED BY MANUFACTURER
CLEAT AND RECESS DETAILS

4 off M10x30 LONG THREADED STUDS

CLEAT TO REAR OF COLUMN FABRICATED FROM 10 Ø ROD (WHERE SPECIFIED)

RECESS FOR POWER OUTLET

P.E. CELL (WHERE SPECIFIED)

50Ø HOLE IN TOP PLATE

CLEAT TO REAR OF COLUMN FABRICATED FROM 100 Ø ROD

FULLY WELDED RECESS TO REAR OF COLUMN WITH CUT-OUT TO ACCEPT "NILSEN RC315M" SWITCHED POWER OUTLET. SUPPLIED WITH GASKETED BLANKING PLATE

P.E. CELL (WHERE SPECIFIED)

GROUND LEVEL

PETROLATUM TAPE (50mm ABOVE GROUND TO 150mm BELOW GROUND)

50Wx150H CUT-OUT TO REAR OF COLUMN FOR CABLE ENTRY

50x6 THICK ANTI-SINK STRAP

DESIGN POLE IN ACCORDANCE WITH AS1170.2 WITH A MINIMUM BASIC WIND SPEED FOR SERVICEABILITY LIMIT STATE OF 38m/s

LABEL BEHIND COVER FIXED TO REAR OF ACCESS DOOR. FOR DETAILS SEE STANDARD LT110-01 (Dwg C-ES-122-01)

7mm HOLE TO SUIT M6 S/S ALLEN KEY SOCKET HD CAP SCREW. PROVIDE NYLON WASHER SAME SIZE AS SCREW HEAD

TAP M10 HOLES M10 x45 LONG HEX BOLT THROUGH LOWER STRAP, WELDED IN PLACE (THREAD TO BE RE-CUT AFTER GALVANIZING). COMPLETE WITH 2 GALVANIZED NUTS.

25x6 STRAP FOR GEAR TRAY

CLEAR OPENING 350x120 NOMINAL (COVER REMOVED)

M6 TAPPED HOLE TO SUIT DOOR SCREW

ENLARGEMENT AT ACCESS OPENING

ACCESS COVER DETAIL

LIGHT COLUMN

NOTE DIMENSION TO BE NOTIFIED BY MANUFACTURER

CTM 1/20 (TYPICAL)

260.5 max

216

231.5

90

146 max

360

170

20

65

65

20

LT 110

3.5M POST TOP

Ceremonial Details

CONSTRUCTION STANDARD

Lighting and Electrical

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REFER TO STANDARD LT110-02 (Dwg. C-ES-122-02) FOR COLUMN DETAILS

FRONT ELEVATION

SIDE ELEVATION
(separated)

HALF TOP VIEW

INTERNAL ELEVATION

INTERNAL ELEVATION
(sides separated)

HALF BOTTOM VIEW

CONSTRUCTION STANDARD
Lighting and Electrical
3.5M POST TOP
Ceremonial Base

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"UNIQUE SOLUTIONS"
RSL - 350 RESIDENTIAL POSTOP
OR EQUIVALENT APPROVED

SPIGOT REQUIREMENTS
76mm OD DIA. x 70mm HIGH

80 NB LIGHT PIPE
VIC POLE BOULEVARD VPB3.5PG
REFER TO "ENLARGEMENT AT ACCESS OPENING"

ACCESS OPENING
BASE 3mm G250 PLATE
12 SIDED 165 A.F.
PETROLATUM TAPE (50mm ABOVE GROUND TO 150mm BELOW GROUND)
FINISHED GROUND LEVEL (FOOTPATH)
50WX150H CUTOUT
WITH ROUNDED CORNERS
FOOTING DETAILS SEE
STANDARD LT 020-01
(Dwg C-ES-101-01)
50x6 THICK
ANTI-SINK STRAP
MASONRY BASE
SUPPORT BLOCK

POST TOP PARK LANDS HERITAGE

DESIGN POLE IN ACCORDANCE WITH AS1170.2 WITH A MINIMUM BASIC WIND SPEED FOR SERVICEABILITY LIMIT STATE OF 38M/S

SECTION X-X

TRANSITION VIC POLE (CTFL)
F10 - 152 - 92

TAP M10 HOLES
CLEAR OPENING
350x120 NOMINAL (COVER REMOVED)
25x6 STRAP
M6 TAPPED HOLE TO SUIT DOOR SCREW

LABEL BEHIND COVER
FIXED TO REAR OF ACCESS DOOR
7mm HOLE TO SUIT M6 S/S ALLEN KEY SOCKET HD CAP SCREW PROVIDE NYLON WASHER, DIAMETER SAME SIZE AS SCREW HEAD

ENLARGEMENT AT ACCESS OPENING

M10x45 LONG HEX BOLT THROUGH LOWER STRAP. WELD HEAD AT BACK OF STRAP. (THREAD TO BE RE-CUT AFTER GALVANIZING) COMPLETE WITH 2 GALVANIZED NUTS.

ACCESS COVER DETAIL

NOTE:
1. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)
2. PAINT FINISH
   DULUX BLACK
   REFER PAINT SPECIFICATION FOR APPLICATION
3. LABEL REQUIREMENTS
   CORPORATION OF THE CITY OF ADELAIDE
   MANUFACTURER'S NAME
   CONTRACT NUMBER
   MONTH/YEAR OF MANUFACTURE

CONSTRUCTION STANDARD
Lighting and Electrical
3.5M POST TOP
Heritage

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REFER TO STANDARD LT221-02 (Dwg C-ES-160-02) FOR SUPPLY CABLE PROTECTION COVER DETAILS

3500 ABOVE GROUND LEVEL TYPICAL OR 5000 WHERE 250mm CLEARANCE NOT ACHIEVABLE.

REFER TO STANDARD LT300-01 (Dwg C-ES-133-01) AND STANDARD LT300-02 (Dwg C-ES-133-02) FOR ELECTRICAL SUPPLY DETAILS

FINISHED SURFACE

SUPPLY CABLE PROTECTION COVER SEE STANDARD LT300-02 (Dwg C-ES-160-02)

WALL FIXINGS - M8x100 DEEP CHEMICAL ANCHORS

CONSTRUCTION STANDARD
Lighting and Electrical
WALL MOUNTED
Top Bracket - 79 x 6 x 375 plate, with 50 deep lugs and 100 deep lugs. Bracket drilled for wall fixing bolts. Galvanised finish.

Intermediate and Bottom Brackets - 79 x 6 x 150 plate, with 50 deep lugs. Bracket drilled for wall fixing bolts. Galvanised finish.

Bracket Lugs - Fabricated from 80 OD pipe, welded to bracket plate, to suit close fit to cover. Drilled and tapped for M4 cover stainless steel retaining screws. Galvanised finish.

Wall Fixings - M8 x 100 deep chemical anchors.

Cover - Fabricated from 89Ø CHS (4 wall thickness), cut in half, drilled and countersunk for M4 countersunk stainless steel cover retaining screws. Finished to match light fitting.
METAL LID FOR 300 Ø SLEEVE
225 Ø NOM. FIBRE CEMENT SLEEVE

DESCRIPTION

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>STOCK NO.</th>
<th>DESCRIPTION</th>
<th>SUPPLIER</th>
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<tr>
<td>1</td>
<td>RA 5473</td>
<td>SECURING BOLTS FOR METAL COVER</td>
<td>ETSA</td>
</tr>
<tr>
<td>2</td>
<td>RA 5476</td>
<td>UNDERGROUND ELECTRICAL ENCLOSURE</td>
<td>ETSA</td>
</tr>
<tr>
<td>3</td>
<td>RA 5487</td>
<td>225 Ø NOM. FIBRE CEMENT SLEEVE</td>
<td>ETSA</td>
</tr>
<tr>
<td>4</td>
<td>RA 5476</td>
<td>METAL LID FOR 300 Ø SLEEVE</td>
<td>ETSA</td>
</tr>
</tbody>
</table>

CONDUIT ROUTE IN FOOTPATH

3 ACC UNDERGROUND ELECTRICAL ENCLOSURE COVER
REFER TO STANDARD LT 300-01
(DWG C-ES-133-01)

2 225 Ø NOM. ETSA TYPE FIBRE CEMENT SLEEVE

PROVIDE APPX. 1.0M SLACK CABLE

CONCRETE BLOCKS OR 100mm QUARRY RUBBLE
TO SUPPORT SLEEVE

FROM ACC PUBLIC LIGHTING OR ETSA
UTILITIES SERVICE POINT
(AS APPROPRIATE).

SECTION

5 METAL LID FOR 300 SLEEVE.
'ETSA' LETTERING TO BE REMOVED.

ETSA TYPE SECURING BOLTS

FIX CHAIN/WIRE TO SUSPEND UNDERGROUND ELECTRICAL ENCLOSURE 100mm BELOW METAL LID

2 ACC UNDERGROUND ELECTRICAL ENCLOSURE
REFER TO STANDARD LT 310-01 OR 02
(DWG C-ES-133-02 OR 03)

16 Ø x 1300 LONG STAINLESS STEEL
EARTH STAKE. SEAL CONNECTION WITH 'DENSO' TAPE.

TO ADJACENT LIGHT POLE
TO NEXT FUSE PIT (IF APPROPRIATE).

40 Ø ELECTRICAL CONDUITS
(PROVIDE 90° SWEEP BENDS)
CONSTRUCTION STANDARD
Lighting and Electrical
UNDERGROUND ELECTRICAL ENCLOSURE
Cover

5mm RADIUS CORNER. COUNTERSUNK HOLES IN OPPOSITE CORNERS FOR 10 Ø BRASS COUNTERSUNK SLOTTED HEAD SCREWS.

4 no. 50 x 25 x 12 MILD STEEL SPACER BLOCKS WELDED TO ANGLE. (2 no. DRILLED AND TAPPED FOR 100 SCREWS).

55mm HIGH LASER CUT LETTERING. (1mm DEPTH).

6mm MILD STEEL CHEQUER PLATE COVER.

2 no. 40 x 40 x 5 MILD STEEL PLATES WELDED TO ANGLE. DRILL FOR 6mm "DYNABOLT" FIXING TO PLINTH.

25 x 25 x 5 MILD STEEL ANGLE PERIMETER FRAME.

NOTE
1. ALL STEEL WORK TO BE HOT DIP GALVANISED AFTER FABRICATION
2. ALL SCREW THREADS TO BE SUITABLY LUBRICATED.
Drill 4 holes to suit M12. (typical)

Notch to suit Pit cover tie down bolts.

Stopper Band 6mm thick

Drill 4 holes to suit M12. (typical)

Notch to suit Pit cover tie down bolts.

Neutral Link

Fuse

GLANDS - Number and size to suit wiring.

CONSTRUCTION STANDARD
Lighting and Electrical
UNDERGROUND ELECTRICAL ENCLOSURE
TYPE 2

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ACC ADAPTABLE FUSE ENCLOSURE
SEE DRAWING LT700 SHEET 01

ACC FUSE PIT
SEE DRAWING LT700 SHEET 02

ACC SWITCHBOARD
SEE DRAWING LT700 SHEET 02
NOTE
STANDARDS AND ATTACHED ACC SPECIFICATION.
COLUMN SHALL BE HOT DIPPED GALVANISED
COLUMN TO CONFORM TO RELEVANT AUSTRALIAN
FOR FOOTING DETAILS REFER TO STANDARD LT020-01
CORPORATION OF THE CITY OF
ADELAIDE
MANUFACTURER'S NAME
CONTRACT NUMBER
MONTH/YEAR OF MANUFACTURE

4. LABEL REQUIREMENTS
FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND
GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)

FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND
GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)

BASIC WIND SPEED FOR SERVICEABILITY

DESIGN POLE IN ACCORDANCE
WITH AS1170.2 WITH A MINIMUM
BASIC WIND SPEED FOR SERVICEABILITY
LIMIT STATE OF 38M/S

ACCESS OPENING AT 180° TO
OUTREACH ARM, REFER DETAIL

PETROLATUM TAPE (50mm ABOVE
GROUND TO 150mm BELOW GROUND)

FINISHED GROUND LEVEL
(FOOTPATH)

75W x 200H CUTOUT WITH
ROUNDED CORNERS

FOOTING DETAILS SEE
STANDARD LT020-01
(Dwg C-ES-101-01)

50x6 ANTI-SINK STRAP

MASONRY CONCRETE
SUPPORT BLOCK

ELEVATION

SECTION X-X

ENLARGEMENT AT
ACCESS OPENING

LABEL BEHIND COVER
FIXED TO GEAR TRAY

7mm HOLE TO SUIT M6
ALLEN KEY SOCKET HD
CAP SCREW, PROVIDE
NYLON WASHER,
DIAMETER SAME SIZE AS
SCREW HEAD

NOTE
1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN
STANDARDS AND ATTACHED ACC SPECIFICATION.
2. COLUMN SHALL BE HOT DIPPED GALVANISED
3. FOR FOOTING DETAILS REFER TO STANDARD LT020-01
(Dwg C-ES-101-01)
4. LABEL REQUIREMENTS

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NOTE
1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION
2. COLUMN SHALL BE HOT DIPPED GALVANISED
3. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)
4. FOR LABEL REQUIREMENTS REFER TO STANDARD LT400-01 (Dwg C-ES-102-01)

ENLARGEMENT AT TRAFFIC SIGNAL FINIAL

SECTION Y-Y

ACCESS COVER DETAIL

FUNCTIONS

6.5 M COLUMN
with Traffic Light Attachments

CONSTRUCTION STANDARD
Lighting and Electrical

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FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)

1. STREET LIGHT
   - Sail area: 0.2 m² max
   - Mass: 10 kg max
   - 42 dia spigot
   - 100 long
   - Removable banner retainer

2. SOLID BANNER
   - 1200W x 2500L
   - 25 kg max (by others)

3. PEDESTRIAN LUMINAIRE
   - Sail area: 0.1 m² max
   - Mass: 5 kg max

4. DESIGN POLE IN ACCORDANCE WITH AS1170.2 WITH A MINIMUM BASIC WIND SPEED FOR SERVICEABILITY LIMIT STATE OF 38 m/s

5. ACCESS OPENING AT 180° TO OUTREACH ARM, REFER DETAIL

6. ENLARGEMENT AT ACCESS COVER

7. FOOTING DETAILS SEE STANDARD LT020-01 (Dwg C-ES-101-01)

8. SUPPORT BLOCK 50x6 ANTI-SINK STRAP

9. OUTREACH ARM, REFER DETAIL

10. PEDESTRIAN LUMINAIRE
    - SAIL AREA 0.1M² MAX
    - MASS 5KG MAX

11. STREET LIGHT
    - SAIL AREA 0.2M² MAX
    - MASS 10KG MAX

12. 42 DIA SPIGOT
    - 100 LONG
    - REMOVABLE BANNER RETAINER

13. SOLID BANNER
    - 1200W x 2500L
    - 25KG MAX (BY OTHERS)

14. PEDESTRIAN LUMINAIRE
    - SAIL AREA 0.1M² MAX
    - MASS 5KG MAX

15. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION.

16. COLUMN SHALL BE HOT DIPPED GALVANISED AND STANDARDS AND ATTACHED ACC SPECIFICATION.

17. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)

18. LABEL REQUIREMENTS

   1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION.
   2. COLUMN SHALL BE HOT DIPPED GALVANISED AND WET PAINTED IN ACCORDANCE WITH ATTACHED ACC SPECIFICATION.
   3. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)
   4. LABEL REQUIREMENTS

   CORPORATION OF THE CITY OF ADELAIDE
   MANUFACTURER'S NAME
   CONTRACT NUMBER
   MONTH/YEAR OF MANUFACTURE

CONSTRUCTION STANDARD
Lighting and Electrical
9.0 M COLUMN

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FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND
GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)

NOTE
1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND
ATTACHED ACC SPECIFICATION.
2. COLUMN SHALL BE HOT DIPPED GALVANISED
3. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)
4. FOR LABEL REQUIREMENTS REFER TO STANDARD LT410-01 (Dwg C-ES-103-01)

ELEVATION

SECTION X-X

SECTION Y-Y

LUG DETAIL

ACCESS COVER

DETAIL

CONSTRUCTION STANDARD
Lighting and Electrical
9.0 M COLUMN
with Traffic Light Attachments

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FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)

FOR FOOTING DETAILS REFER TO STANDARD LT020-01 COLUMN TO CONFORM TO RELEVANT AUSTRALIAN ACC SPECIFICATION.

WET PAINTED IN ACCORDANCE WITH ATTACHED COLUMN SHALL BE HOT DIPPED GALVANISED AND STANDARDS AND ATTACHED ACC SPECIFICATION.

3. NOTE

1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION.

2. COLUMN SHALL BE HOT DIPPED GALVANISED AND WET PAINTED IN ACCORDANCE WITH ATTACHED ACC SPECIFICATION.

3. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)

4. LABEL REQUIREMENTS:
   - CORPORAION OF THE CITY OF ADELAIDE
   - MANUFACTURER'S NAME
   - CONTRACT NUMBER
   - MONTH YEAR OF MANUFACTURE

CONSTRUCTION STANDARD
Lighting and Electrical
10.5 M COLUMN

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FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND
GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)

NOTE
1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN
STANDARDS AND ATTACHED ACC SPECIFICATION.
2. COLUMN SHALL BE HOT DIPPED GALVANISED
3. FOR FOOTING DETAILS REFER TO
STANDARD LT020-01 (Dwg C-ES-101-01)
4. FOR LABEL REQUIREMENTS REFER TO
STANDARD LT420-01 (Dwg C-ES-104-01)

3.
1.
2.
NOTE
FOR LABEL REQUIREMENTS REFER TO
STANDARD LT020-01 (Dwg C-ES-101-01)
STANDARD LT420-01 (Dwg C-ES-104-01)

SECTION Y-Y

10.5 M COLUMN
with Traffic Light Attachments

CONSTRUCTION STANDARD
Lighting and Electrical

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3. COLUMN SHALL BE HOT DIPPED GALVANISED.

### LABEL REQUIREMENTS

- **Corporation of the City of Adelaide**
- **Manufacturer's Name**
- **Contract Number**
- **Month/Year of Manufacture**

### DESIGN POLE

- **Height**: 10.5 m
- **Type**: Double Outreach

### ACCESS COVER DETAILS

- **Access Opening at 90° to Outreach Arms**: Refer Detail
- **Anti-Corrosion Coating, Paint Column Base, Including Top and Bottom Side of Flange**: Refer to Standard LT020-01 (Dwg C-ES-101-01)
- **Enlargement at Access Opening**
- **Section X-X**

### ENLARGEMENT AT ACCESS OPENING

- **M10 Holes**: 25 x 6 Strap
- **Clear Opening**: 400 x 110 Nominal (Cover Removed)
- **M10 Holes**: Tapped Hole to Suit Door Screw

### ACCESS COVER

- **Label Behind Cover**: Fixed to Gear Tray
- **7mm Hole to Suit M6 Allen Key Socket HD Cap Screw**
- **Provide Nylon Washer, Diameter Same Size as Screw Head**

### CONSTRUCTION STANDARD

**Lighting and Electrical**

#### 10.5 M COLUMN

- **Double Outreach**

---

**NOTE**

1. THESE COLUMNS ARE IMPACT ABSORBING AND COMPLY WITH RELATIVE AUSTRALIAN STANDARDS AND PERFORMANCE CRITERIA IN ACC SUPPLY SPECIFICATION.
2. COLUMN SHALL BE HOT DIPPED GALVANISED.
3. FOR FOOTING DETAILS REFER TO STANDARD LT 020-01 (Dwg C-ES-101-01)
4. LABEL REQUIREMENTS

---

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ETSA UTILITIES
SERVICE PIT

ACC ADAPTABLE FUSE ENCLOSURE
(WITH EARTH STAKE)
REFER TO STANDARD LT310-03 (Dwg C-ES-133-04)

LIGHTING COLUMN
(WITH SWITCHBOARD)

NOTE.
CIRCUIT SIZES ARE MINIMUM.
CONSULTANT/CONTRACTOR TO CONFIRM SIZE REQUIRED FOR VOLTAGE DROP CONSIDERATIONS.

TYPICAL CONNECTION DIAGRAM

CONSTRUCTION STANDARD
Lighting and Electrical
SINGLE LIGHTING COLUMN
Direct Supply from ETSA Pit

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TYPICAL CONNECTION DIAGRAM

ETSA UTILITIES SERVICE PIT

ACC SWITCHBOARD
(PROVIDE NUMBER OF CIRCUITS AS REQUIRED)
REFER TO STANDARD LT310-03
(Dwg C-ES 133-04)

ACC FUSE PIT
(JOIN EARTHS TO AS3000 REQUIREMENTS)
REFER TO STANDARD LT310-03
(Dwg C-ES 133-04)

LIGHTING COLUMN

NOTE.
CIRCUIT SIZES ARE MINIMUM.
CONSULTANT/CONTRACTOR TO CONFIRM SIZE REQUIRED FOR VOLTAGE DROP CONSIDERATIONS.

CONSTRUCTION STANDARD
Lighting and Electrical
MULTIPLE LIGHTING COLUMNS
**METHOD AND TYPE OF FIXINGS USED FOR GWP** SHALL BE TO APPROVAL OF SUPERINTENDENT.

THE INSTALLED PVC BEND AND COUPLING ADAPTOR SHALL BE INSPECTED BY SUPERINTENDENT PRIOR TO BACK FILLING.

---

**NEW CONSUMER MAINS SERVICE**

<table>
<thead>
<tr>
<th>SERVICE TYPE</th>
<th>No. OF PHASES</th>
<th>SERVICE CAPACITY</th>
<th>CABLE SIZE &amp; TYPE</th>
<th>U/G CONDUIT HD UPVC NOM.SIZE</th>
<th>ABOVEGROUND GWP (MEDIUM DUTY) NOM. BORE</th>
<th>DIMENSIONS OF FUSE ENCLOSURE (W x H x D)</th>
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<tbody>
<tr>
<td>A</td>
<td>1</td>
<td>70AMP</td>
<td>16mm²</td>
<td>320</td>
<td>250</td>
<td>380 x 200 x 180</td>
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<tr>
<td>B</td>
<td>2</td>
<td>60AMP</td>
<td>16mm²</td>
<td>320</td>
<td>400</td>
<td>380 x 200 x 180</td>
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<tr>
<td>C</td>
<td>3</td>
<td>60AMP</td>
<td>16mm²</td>
<td>320</td>
<td>400</td>
<td>380 x 300 x 180</td>
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<tr>
<td>D</td>
<td>3</td>
<td>100AMP</td>
<td>25mm²</td>
<td>400</td>
<td>100</td>
<td>380 x 300 x 180</td>
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<tr>
<td>E</td>
<td>3</td>
<td>100AMP</td>
<td>35mm²</td>
<td>400</td>
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<td>200AMP</td>
<td>95mm²</td>
<td>400</td>
<td>150</td>
<td>800 x 370 x 250</td>
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**CONSTRUCTION STANDARD**

**Lighting and Electrical**

UNDERGROUNDING OF PRIVATE PROPERTIES

Plan and Schedule

---

**NOTES**

1. CONTRACTOR TO LIAISE WITH TELECOMMUNICATIONS AUTHORITY FOR SHARING OF CONSUMER MAINS SERVICE TRENCH (WHERE APPLICABLE).
2. METHOD AND TYPE OF FIXINGS USED FOR GWP SHALL BE TO APPROVAL OF SUPERINTENDENT.
3. THE INSTALLED PVC BEND AND COUPLING ADAPTOR SHALL BE INSPECTED BY SUPERINTENDENT PRIOR TO BACK FILLING.
4. THE PROPOSED GWP AND FUSE ENCLOSURE SHALL BE PAINTED WITH PRIMER AND TWO COATS OF EXTERIOR PAINT. COLOUR TO MATCH THE WALL OR STRUCTURE THAT EQUIPMENT IS MOUNTED TO.
5. FOR ELEVATIONS, REFER TO STANDARD LT800-02 (Dwg C-ES-150-02).

---

**OPTION 1**

TO NEW ETSA UTILITIES FUSE ENCLOSURE

**OPTION 2**

TO EXISTING METER SWITCHBOARD

---

**FOOTPATH**

100mm MIN. CLEARANCE FROM CORNER TO GWP

FUSE ENCLOSURE (PREFERRED ON SIDE OF BUILDING)
LOCATE VERTICAL CONDUIT TO CONCEAL BEHIND WALL RETURN OR ADJACENT TO DOWN PIPES WHERE APPLICABLE

---

**PROPERTY BOUNDARY**

100mm MIN. CLEARANCE FROM PROPERTY BOUNDARY TO CONDUIT

---

**BUILDING**

---

**NOTE**

CONTRACTOR TO LIAISE WITH TELSTRA FOR UTILISING CONSUMER MAINS SERVICE TRENCH (WHERE APPLICABLE).
UTILITIES SP

GALVANISED WATER PIPE (G.W.P.).

REFER TO 'SCHEDULE' ON DWG C-ES-150-01 FOR SIZES TO USE.

THE G.W.P. SHALL BE BENT TO FOLLOW THE GENERAL CONTOUR OF BUILDING. PAINT TO MATCH STRUCTURE THAT EQUIPMENT IS CONNECTED TO.

SEE ENLARGEMENT "A".

90° LARGE SWEEP BEND.

INSTALL ORANGE ELECTRICAL MARKER TAPE 150 ABOVE CONDUIT.

FROM ETA UTILITIES SP

GROUND LEVEL

PROPOSED ETA UTILITIES Fuse Enclosure.

GALVANISED WATER PIPE (G.W.P.).

GROUND LEVEL

TO NEW ETA UTILITIES Fuse Enclosure

(Where Meter Box is inside Building)

OPTION 1

TO EXISTING METER SWITCHBOARD

(Where Meter Switchboard is external to Building)

OPTION 2

TO NEW Fuse Enclosure on Upstand

(Where the Fuse Enclosure cannot be fixed to Building)

OPTION 3

NOTES

1. FOR PLAN, NOTES AND SCHEDULE, REFER TO STANDARD LT800-01 (Dwg C-ES-150-01).

PROTECTION

1. Paint Threads.

2. Assemble and Paint outside.

PVC PLAIN TO SCREW COUPLING.

PVC CONDUIT.

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CONSTRUCTION STANDARD

Lighting and Electrical

UNDERGROUNDING OF PRIVATE PROPERTIES

Details

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BACK FILL MATERIAL
REFER ATTACHED
ACC SPECIFICATION
GROUND LEVEL

ACC WHITE COMMUNICATIONS
DUCTS 100 Ø (TYPICAL)
ACC ORANGE ELEC. MARKER TAPE
ACC PUBLIC LIGHTING
40 Ø (TYPICAL) ORANGE HD UPVC
ACC SPARE 800 Ø (TYPICAL)
ORANGE HD UPVC
BED IN SAND (TYPICAL)
ETSA UTILITIES DUCTS,
100 Ø (TYPICAL)

FOOTPATH
(ACC & ETSA UTILITIES ELECTRICAL DUCTS)

NOTE
1. CO-ORDINATE DUCTING REQUIREMENTS WITH
   ALL SERVICE AUTHORITIES

BACK FILL MATERIAL
REFER ATTACHED
ACC SPECIFICATION
GROUND LEVEL

ACC WHITE COMMUNICATIONS
DUCTS 100 Ø (TYPICAL)
ACC Orange ELEC. MARKER TAPE
ACC Public Lighting
40 Ø (TYPICAL) ORANGE HD UPVC
ACC SPARE 800 Ø (TYPICAL)
ORANGE HD UPVC
BED IN SAND (TYPICAL)
ETSA UTILITIES DUCTS,
100 Ø (TYPICAL)

ROADWAY
(ACC & ETSA UTILITIES ELECTRICAL DUCTS)
PARK LANDS - GENERAL

1. CO-ORDINATE DUCTING REQUIREMENTS WITH ALL SERVICE AUTHORITIES.
2. PERMANENT CABLE MARKERS REQUIRED AT MAXIMUM SPACING OF 30 METRES FOR LONG STRAIGHT ROUTES AND AT ANY CHANGE OF DIRECTION.
3. EVENT AREAS SHALL BE AS PARKLANDS GENERAL, BUT WITH 1500mm COVER.

NOTE

PARK LANDS - PATHWAY LIGHTING

(FOR PUBLIC LIGHTING UNDER OR ADJACENT TO PATHWAYS, WHERE CABLE ROUTE IS CLEARLY DEFINED, CONTACT ACC PROJECT MANAGER TO DETERMINE ACCEPTABLE LOCATIONS)

IT IS NOT TO BE USED IN EVENT AREAS.
PARK LANDS - BORED

FOR PUBLIC LIGHTING UNDER OR ADJACENT TO PATHWAYS WHERE CABLE ROUTE IS CLEARLY DEFINED AND TRADITIONAL TRENCHING METHODS ARE NOT PRACTICAL AND/OR MAY CAUSE HARM TO EXISTING VEGETATION.

FOR PREFERRED METHOD OF CABLE POSITIONING IN PARK LANDS, SEE STANDARD LT900-02 (Dwg C-ES-141-01).

NOTE

1. CO-ORDINATE DUCTING REQUIREMENTS WITH ALL SERVICE AUTHORITIES.

2. PERMANENT CABLE MARKERS REQUIRED AT MAXIMUM SPACING OF 30 METRES FOR LONG STRAIGHT ROUTES AND AT ANY CHANGE OF DIRECTION AND AT ANY ENDS OF CONDUIT/CABLE RUN.

3. EVENT AREAS 1500mm COVER.

CONSTRUCTION STANDARD

Lighting and Electrical

BORED TRENCHES

Park Lands

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