

Legend

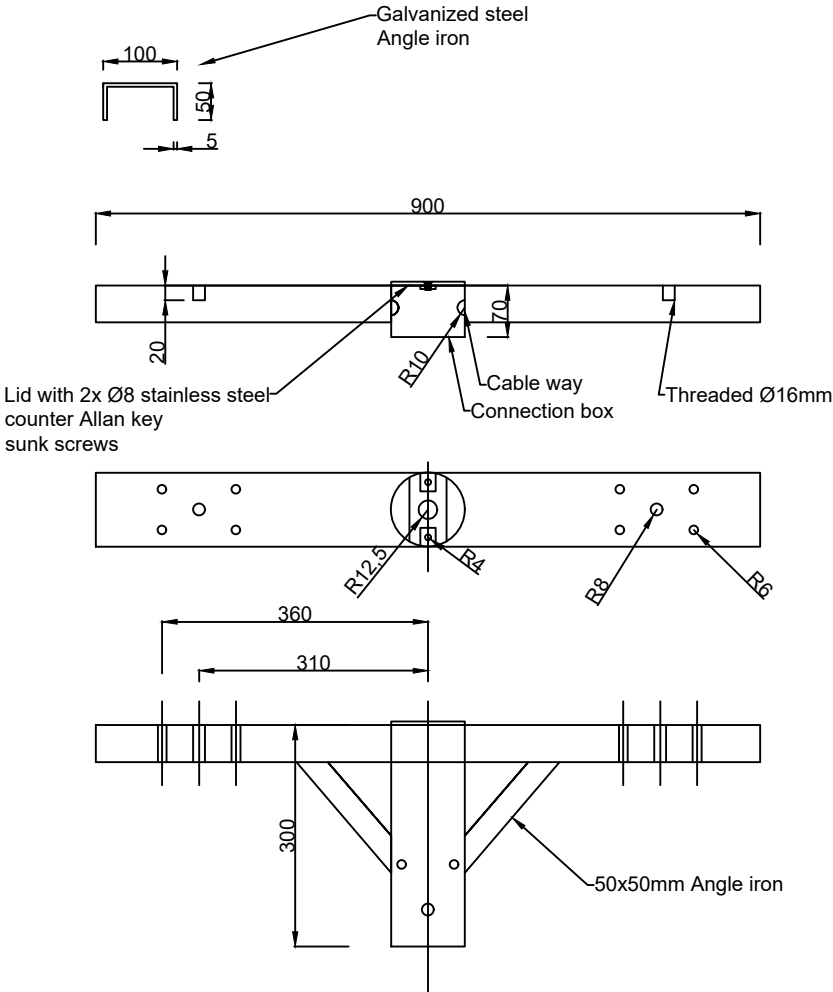
|                                                                                                                             |           |      |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|------|
| SENIOR ENGINEER (ELECTRICAL)                                                                                                | SIGNATURE | DATE |
| SENIOR ENGINEER (CIVIL)                                                                                                     | SIGNATURE | DATE |
| PORT ENGINEER                                                                                                               | SIGNATURE | DATE |
| PORT ENGINEER<br>ROOM 705<br>NPA HOUSE<br>PORT OF CAPE TOWN<br>P.O.BOX 4245<br>TEL. 021 449 6173<br>FAX. 021 449 6171       |           |      |
| <div><div></div><div>TRANSNET</div><div>national ports authority</div></div> <div>delivering on our commitment to you</div> |           |      |

PORT OF CAPE TOWN

Existing 15m poles  
New Light fittings

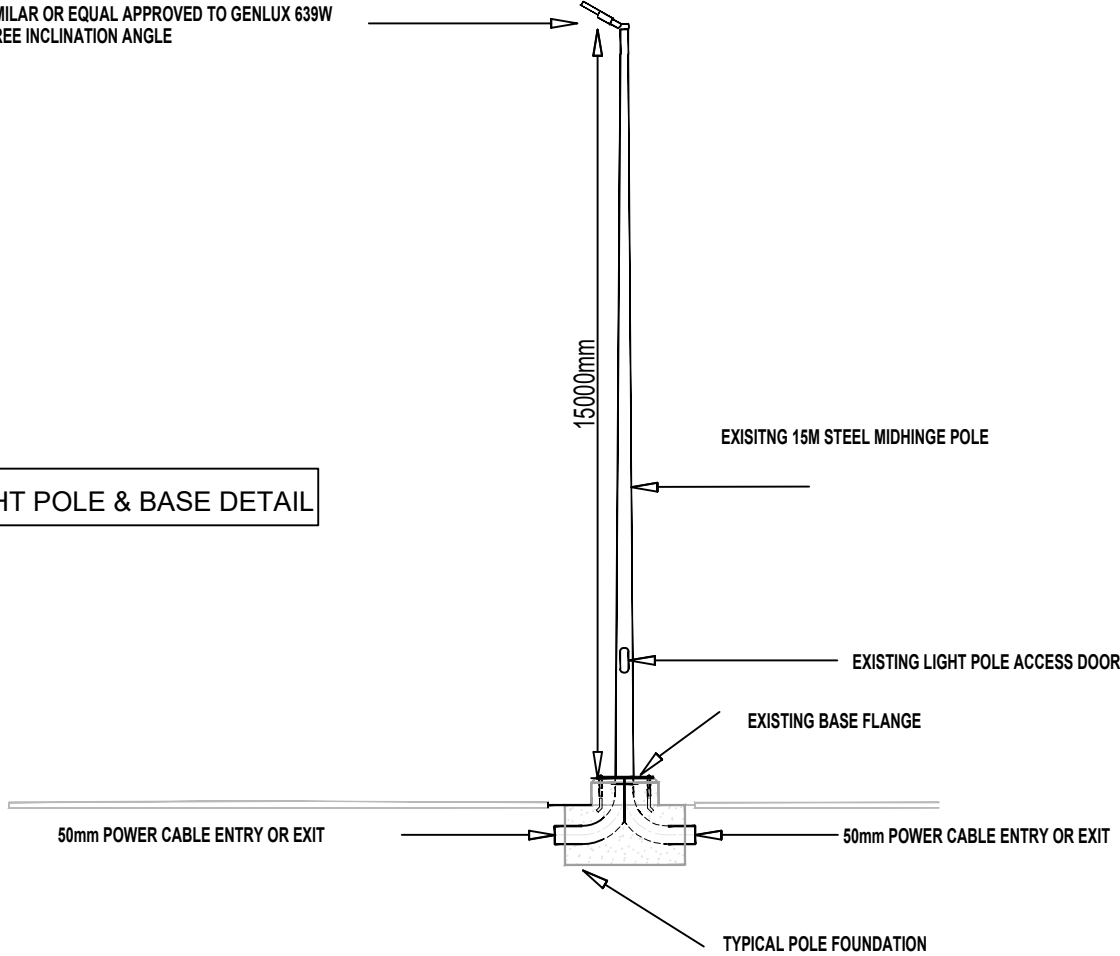
|                     |            |           |          |
|---------------------|------------|-----------|----------|
| DRAWN               | M Raven    | CHECKED   | T Mavuso |
| SCALE               | NTS        | PAGE SIZE |          |
| No. TBH 106 W6-2021 |            |           |          |
| DATE                | 12/10/2018 | SHEET     | 4        |
| CAD. REF.           |            |           |          |
| FILE REF.           |            | AMENDMENT | Rev0     |

B- CROSS ARM DETAIL



NEW SIMILAR OR EQUAL APPROVED TO GENLUX 639W  
30 DEGREE INCLINATION ANGLE

A- LIGHT POLE & BASE DETAIL



C- POSITIONS OF NEW MIDHINGE LIGHT FITTINGS

| Pole Name             |        | Pole 1          | Pole 2          | Pole 3          | Pole 4          | Pole 5          | Pole 7       | Pole 8     | Pole 9      | Pole 10      | Pole 11      | Pole 12      |
|-----------------------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|------------|-------------|--------------|--------------|--------------|
| Rating of fitting (w) |        | 693             | 693             | 693             | 693             | 693             | 693          | 693        | 693         | 693          | 693          | 693          |
| Voltage(v)            |        | 230             | 230             | 230             | 230             | 230             | 230          | 230        | 230         | 230          | 230          | 230          |
| No. of fittings       |        | 2               | 2               | 2               | 2               | 2               | 2            | 2          | 2           | 2            | 2            | 2            |
| Lux level (avg)       | Area 1 | 21              | 21              | 21              | 21              | 21              | 21           | 21         | 21          | 21           | 21           | 21           |
|                       | Area 2 | 65              | 65              | 65              | 65              | 65              | 65           | 65         | 65          | 65           | 65           | 65           |
| GPS location          | x      | -51367.4466     | -51313.2874     | -51267.0141     | -51218.4368     | -51169.1845     | -51061.4948  | -51108.851 | -51154.0982 | -51216.1144  | -51256.6538  | -51280.6504  |
|                       | y      | -3754741.751    | -3754787.333    | -3754831.249    | -3754874.338    | -3754917.106    | -3754848.607 | -3754806.7 | -3754768.68 | -3754711.846 | -3754677.151 | -3754655.618 |
|                       | z      | 3.518           | 3.551           | 3.632           | 3.402           | 3.579           | 3.721        | 21.526     | 21.621      | 6.0131       | 3.35         | 3.35         |
| Cable size (mm2)      |        | 16              | 16              | 16              | 16              | 16              | 16           | 16         | 16          | 16           | 16           | 16           |
| Supply from           |        | Berrio Rd kiosk | Berrio Rd kiosk | Berrio Rd kiosk | Berrio Rd kiosk | Berrio Rd kiosk | Port sub     | Port sub   | Port sub    | Port sub     | Port sub     | Port sub     |
| Length(m)             |        | 130             | 54              | 56              | 130             | 190             | 100          | 27         | 60          | 131          | 188          | 252          |
| Voltage drop(%)       |        | 0.48            | 0.2             | 0.21            | 0.48            | 0.70            | 0.37         | 0.10       | 0.22        | 0.48         | 0.70         | 0.93         |