

NOTES:

- 1. SEAL ALL NEW CONDUITS THAT ENTER SWITCBOARDS/PITS WITH EXPANDING FOAM ON
- COMPLETION.

 2. CONDUIT ROUTES SHOWN ARE INDICATIVE ONLY.
- CONFIRM CONDUIT ROUTES WITH COUNCIL PRIOR TO INSTALLATION.

 3. PROMDE FAULT LEVEL PROTECTION TO CODE AND LOCAL AUTHORITY REQUIREMENTS.
- 4. CONFIRM LOCATION OF EXISTING SERVICES ON SITE.
- 5. CONFIRM ALL DIMENSIONS ON SITE, REFER TO COUNCIL FOR SCALED SURVEY PLAN.
 6. PULLING PITS PROVIDED AS REQUIRED. FINISH FLUSH WITH GRASS SURFACE. CONFIRM PIT LOCATIONS WITH COUNCIL PRIOR TO INSTALLATION. MINIMUM CLASS C 150 KN POINT
- 7. ELECTRICAL WORKS TO COMPLY WITH THE LATEST SERVICE AND INSTALLATION RULES OF
- 8. PROVIDE SURGE SUPPRESSION AT THE MAIN SWITCHBOARD
- 9. ALL EXTERNAL CONDUITS INSTALLED BETWEEN GROUND LEVEL AND 3M ABOVE GROUND LEVEL THAT ARE IN PUBLIC AREAS SHALL BE GALVANIZED.
- 10. EACH LIGHT FITTING TO BE WRED SEPARATELY FROM THE BOTTOM OF THE POLE. DO NOT LOOP AT THE TOP.
- 11. CONFIRM LOCATION OF NEW LIGHTING SWITCHBOARD WITH COUNCIL PRIOR TO INSTALLATION.
- 12. MOTOROLA PICCOLO XR OUTPUT VOLTAGE IS A DC PULSE THROUGH A TWO WIRE CIRCUIT SUITABLE FOR ACTIVATING DC LATCHING COILS. DEFAULT OUTPUT VOLTAGE IS 12V. RELAY NUMBERS ARE FOR GUIDENCE ONLY. CONFIRM PIN NUMBER AND OUTPUT WIRE COLOUR. PROVIDE INTERPOSING RELAYS IF REQUIRED. CONFIRM ALL DETAILS OF THE IRRINET SYSTEM (PICCOLO XR) PRIOR TO TENDER SUBMISSION. REFER TO: CENTRATECH CRAIG SIMPSON 0401 321 219 csimpson@centratech.com.au
- 13. PROVIDE PRICING FOR BOTH LED AND METAL HALIDE, SUBMIT SPILL CALCULATIONS FOR BOTH OPTIONS.
- 14. ALL FLOODLIGHTING POLE COLUMN FOOTINGS SHALL EXTEND 200MM ABOVE FINISHED GROUND LEVEL. SURROUNDING ASSETS SHALL BE REINSTATED AROUND THE 'PLINTH' INCLUDING CONCRETE PAYING AND/OR GRASS. THE PLINTHS SHALL HAVE A SMOOTH SURFACE FINISH. CONFIRM PAD FOOTING PLINTH DETAILS WITH COUNCIL PRIOR TO CONSTRUCTION.
- 15. SEAL ALL NEW CONDUITS THAT ENTER PITS WITH EXPANDING FOAM ON
- 16. ALL POLE BASPLATES OPENING TO GROUND SHALL BE SEALED WITH
- WATERPROOF GROUT AFTER POLE INSTALLATION.

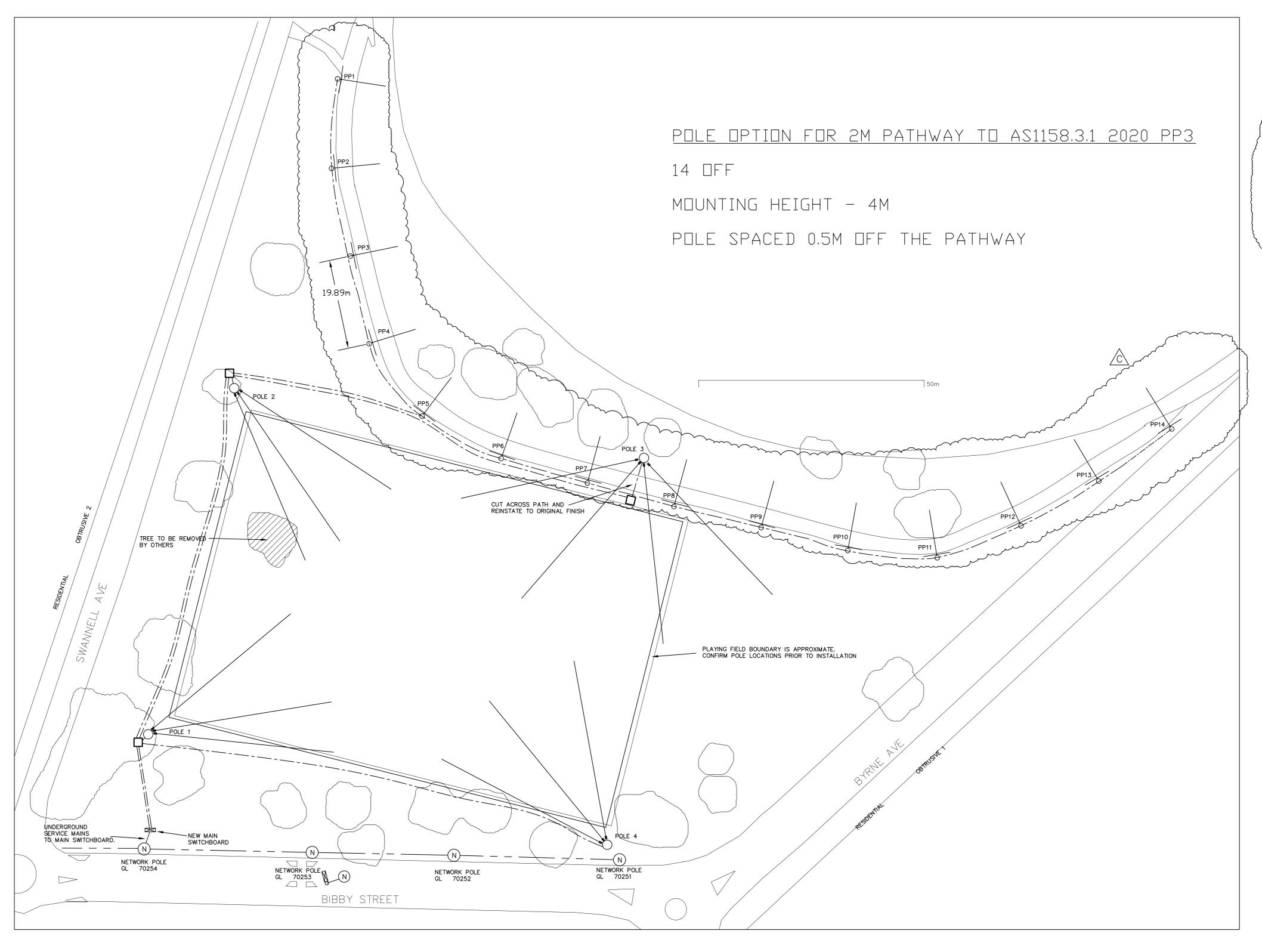
 17. CONDUITS WITHIN POLES SHALL RISE TO A MINIMUM OF 200mm ABOVE THE BASEPLATE LEVEL.
- 18. CONFIRM FOOTING CAGE DETAILS WITH POLE SUPPLIER.
 19. POLES INSTALLED WITH RAGBOLTS BELOW GROUND LEVEL SHALL BE
 PROVIDED WITH AN ADDITIONAL EPOXY COATING EQUAL TO DULUX
- DUREBILD STE TO A HEIGHT OF 100mm ABOVE FINISHED GROUND LEVEL. CONFIRM COLOUR PRIOR TO INSTALLATION.

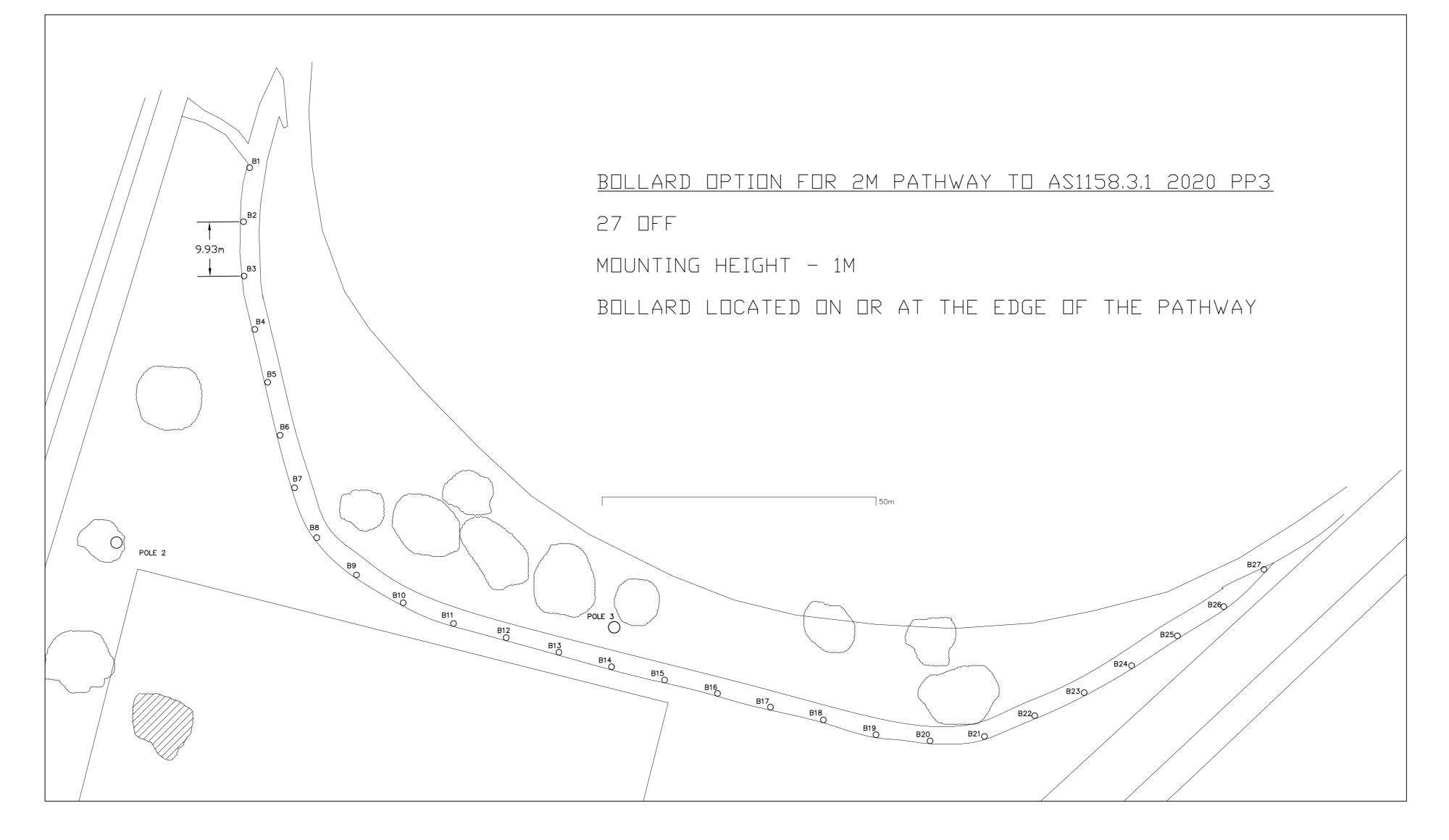
 20. LOOPING TERMINATIONS WITHIN THE POLES SHALL BE ABOVE THE
- 21. TERMINATIONS SHALL NOT BE PROVIDED WITHIN THE TOP OF THE POLE. 22. PROVIDE A VAPOUR SEAL BETWEEN THE INSIDE OF THE POLE AND THE LIGHT FITTING.
- 23. CABAC KEV GLOVES SHALL BE INSTALLED ON ALL POLE SUBMAIN CABLES WITHIN THE POLES EXCLUDING EARTH.
- 24. THE PATHWAY POLES ARE TO BE PROMDED WITH THE FOLLOWING:

BOTTOM LEVEL OF THE ACCESS DOOR.

- a. A 100MM PLINTH
 b. AN ACCESS DOOR PROVIDING CLEAR ACCESS TO ALL COMPONENTS
 c. CONFIRM ALL POLE FOOTING DETAILS WITH COUNCIL PRIOR TO
- CONSTRUCTION.

 d. OUTREACH ARMS TO BE CAPABLE OF SUPPORTING 100KGS. CONFIRM DETAILS PRIOR TO CONSTRUCTION.





The details contained on this drawing are subject to copyright protection under current legislation. This drawing and details remains the property of Canada Bay Council.

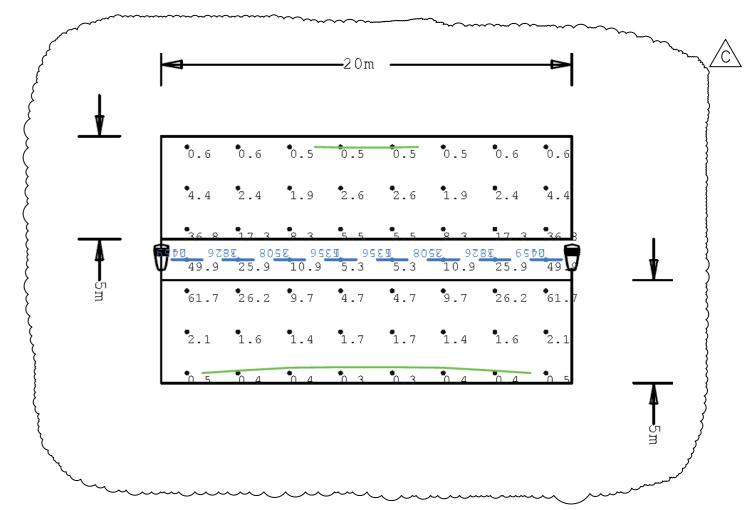
DO NOT SCALE from this drawing. Use given dimensions. CONTRACTOR is to check all dimensions on the job prior to commencement of shop drawings or fabrication. Any discrepancies are to be refered to Council prior to commencement of work.

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|-------|------|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Min/Avg | Min/Ma: |
| PATH 20 | Illuminance | Lux | 14.50 | 31.4 | 7.4 | 0.51 | 0.24 |
| PATH 20_2m | Illuminance | Lux | 23.00 | 49.9 | 5.3 | 0.23 | 0.11 |
| PATH 20_2m_Vert_E | Illuminance | Lux | 14.26 | 38.6 | 0.5 | 0.04 | 0.01 |
| PATH 20_2m_Vert_W | Illuminance | Lux | 14.26 | 38.6 | 0.5 | 0.04 | 0.01 |
| PATH 20_Vert_E | Illuminance | Lux | 11.83 | 38.6 | 0.5 | 0.04 | 0.01 |
| PATH 20 Vert W | Illuminance | Lux | 11.83 | 38.6 | 0.5 | 0.04 | 0.01 |

POLE OPTION FOR 2M PATHWAY ILLUMINATION TO AS1158.3.1 2020 PP3
1. MOUNTING HEIGHT - 4M

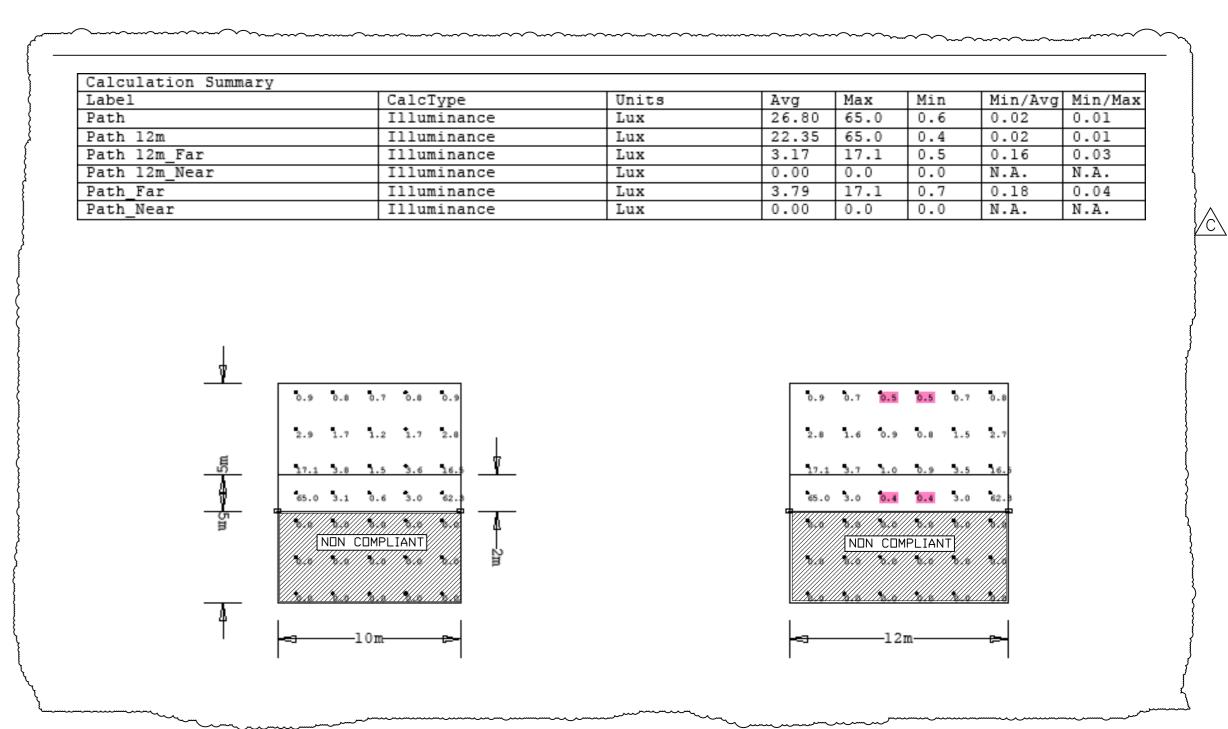
2. SPACING 20M

FULL COMPLIANCE TO AS1158.3.1 2020



POLE OPTION FOR 2M PATHWAY SPACING TABLE TO AS1158.3.1 2020 PP3

FULL COMPLIANCE TO AS1158.3.1 2020



BOLLARD OPTION FOR 2M PATHWAY ILLUMINATION TO AS1158.3.1 2020 PP3

1. MOUNTING HEIGHT - 1M 2. SPACING 10M

NON COMPLIANCE TO AS1158.3.1 2020 1. THE BOLLARD CANNOT PROVIDE CONFORMANCE OVER AN AREA OF 5M TO THE BOLLARD REAR SIDE OF THE PATHWAY.

| С | 02/06/20 | Pathway update to AS1158.3.1 2020 PP3 4M MH + bollard non-compliance | СС |
|-----|----------|--|-----|
| В | 19/05/20 | Pathway update to AS1158.3.1 2020 PP3 5M MH | СС |
| Α | 23/01/19 | Tender issue. | СС |
| No. | DATE | Description | Dra |

GRA

ELECTRICAL ENGINEERS

GARY ROBERTS & ASSOCIATES
PTY LTD ACN 064331086

PHONE (02) 9457 6485

MOBILE (0412) 442 671

E-mail: grassoc@optusnet.com.au

Client: CANADA BAY COUNCIL

Project:
LYSAGHT PARK
SWANNELL AVENUE CHISWICK NSW 2046
2019 LIGHTING UPGRADE

Drawing

ELECTRICAL SERVICES
LIGHTING LAYOUT

Date: Drawn: Checked: Proj.No: Scale: 23/01/19 C.C.

PLOT DATE: 20-01-19
CAD FILE: 20-01-19