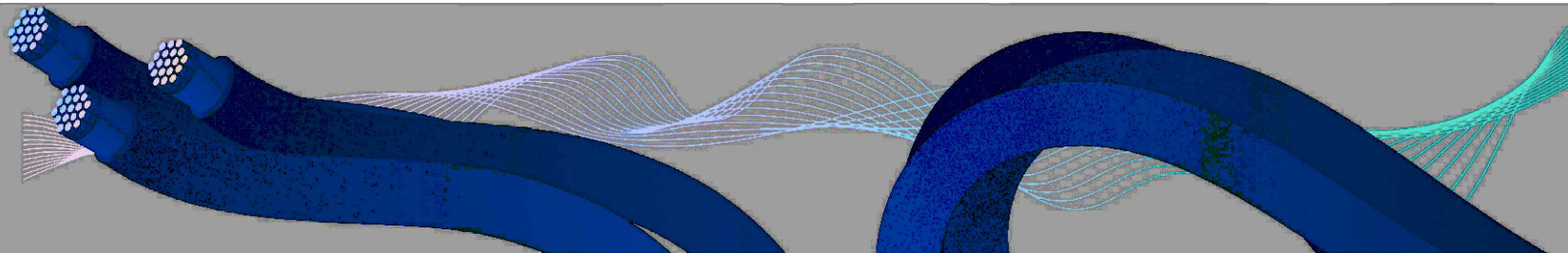


GOSFORD WATERFRONT PUBLIC DOMAIN - LIGHTING DESIGN

GOSFORD



ELECTRICAL SERVICES

DRAWING SCHEDULE

- 26072-E00 - COVER SHEET
- 26072-E01 - SITE LOCATION PLAN
- 26072-E02 - AREA 1 - GRAHAM PARK ELECTRICAL LAYOUT
- 26072-E03 - WATERFRONT PATHWAY - SHEET 1
- 26072-E04 - WATERFRONT PATHWAY - SHEET 2
- 26072-E05 - WATERFRONT PATHWAY - SHEET 3
- 26072-E06 - WATERFRONT PATHWAY - SHEET 4
- 26072-E07 - AREA 2 - WATERFRONT PARK ELECTRICAL LAYOUT
- 26072-E08 - WATERFRONT PATHWAY - SHEET 5
- 26072-E08 - WATERFRONT PATHWAY - SHEET 6
- 26072-E10 - WATERFRONT PATHWAY - SHEET 7
- 26072-E11 - AREA 3 - SAILING CLUB TO SEA PARK ELECTRICAL LAYOUT
- 26072-E12 - AREA 3 - SINGLE LINE & CONTROL DIAGRAMS
- 26072-E13 - AREA 2 - SINGLE LINE & CONTROL DIAGRAMS
- 26072-E14 - AREA 2 - SINGLE LINE & CONTROL DIAGRAMS
- 26072-E15 - AREA 1 - SINGLE LINE & CONTROL DIAGRAMS
- 26072-E16 - AREA 1 - SINGLE LINE & CONTROL DIAGRAMS



C	TENDER ISSUE	SH	RM	13.08.26
B	70% ISSUE	SH	RM	29.05.26
A	PRELIMINARY ISSUE	LM	RM	22.05.26
REV	REVISION DETAILS	BY	APP.	DATE



DESIGN BY:
**ELECTRICAL
PROJECTS
AUSTRALIA**
386 MAITLAND ROAD
MAYFIELD NSW 2304
02 4967 5999
MAIL@EPA.ENERGY

PROJECT:
GOSFORD WATERFRONT PUBLIC
DOMAIN - LIGHTING DESIGN

CLIENT:
ADW JOHNSON

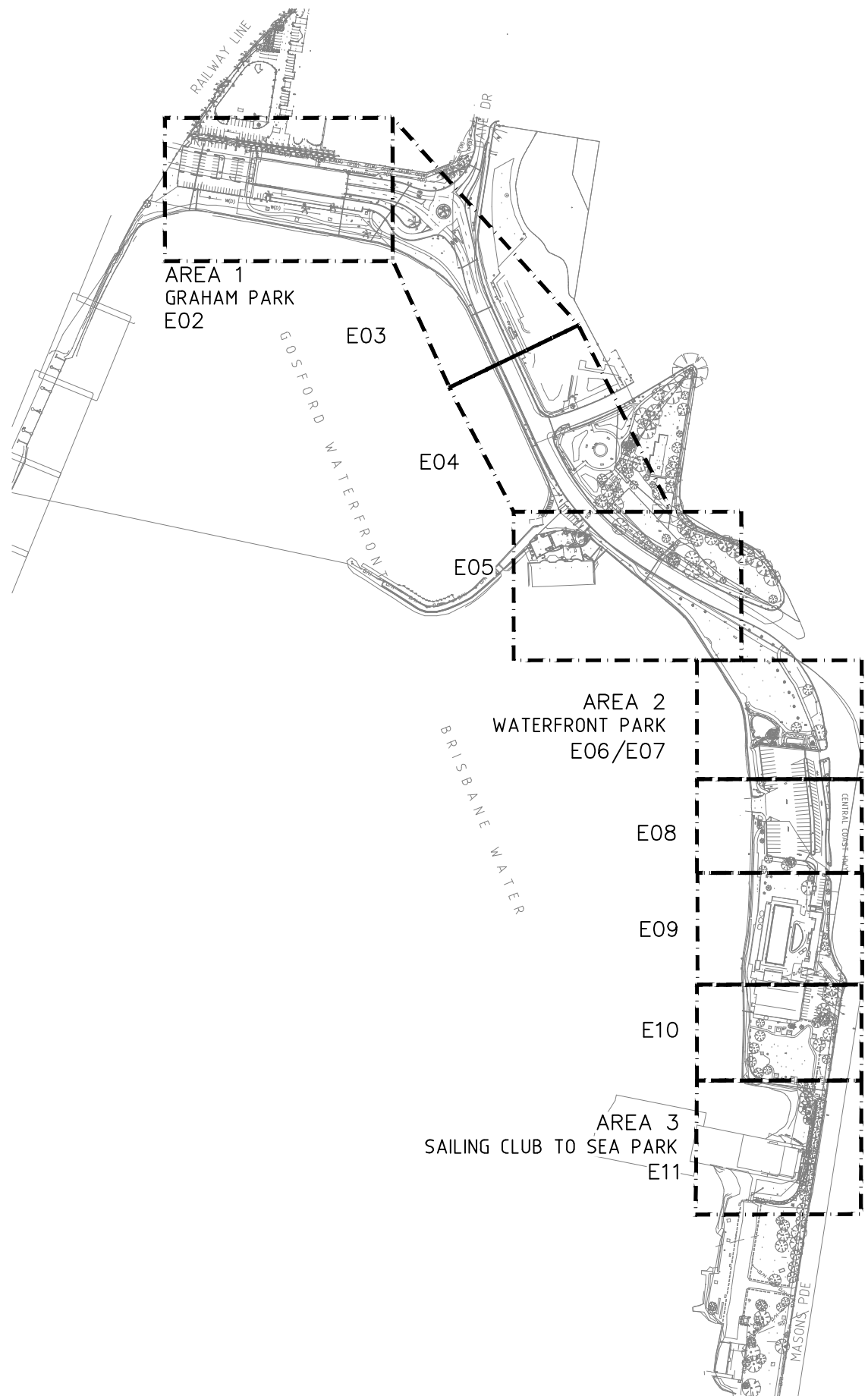
LOCATION:
GOSFORD

DRAWING:
COVER SHEET

DATE: 18.05.26 DRAWN: LM

SCALE: NTS@A3 DESIGN: RM

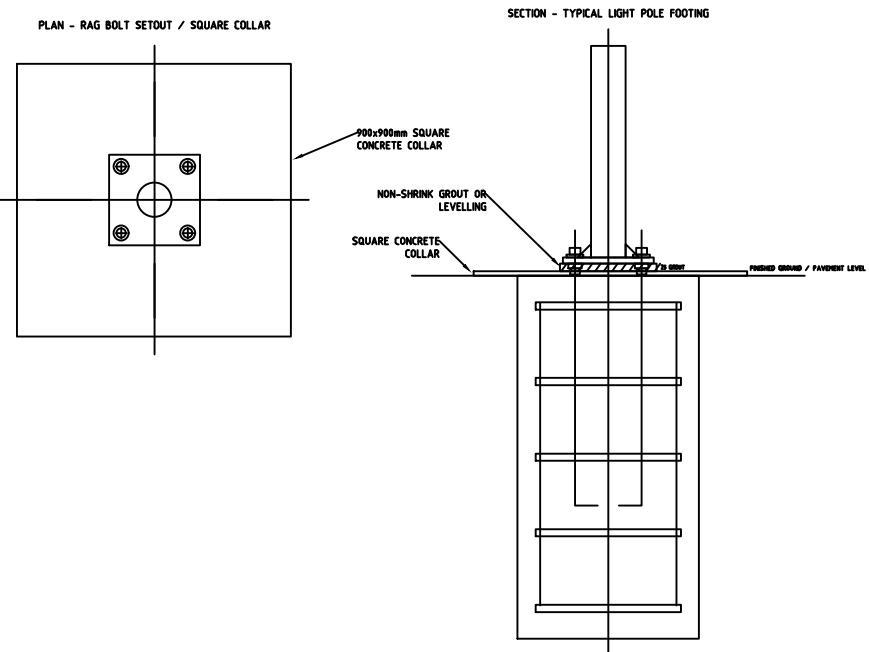
PROJECT No. DRAWING No. ISSUE:
26072 E00 C



IDENTIFICATION OF LIGHTING (NOT OWNED BY DISTRIBUTOR) IN STREETS, PARKS OR OTHER PUBLIC AREAS

ALL LIGHTING SHALL HAVE A CLEAR AND INDELIBLE SIGN ATTACHED TO THE OUTSIDE OF EACH LIGHTING FITTING OR LIGHT POLE THAT INDICATES THAT IT IS A PRIVATE INSTALLATION. THE SIGN SHALL ALSO INCLUDE THE OWNERSHIP AND IDENTIFY THE ORIGIN OF SUPPLY IN ACCORDANCE WITH AS/NZS3000. THE HEIGHT OF THE LETTERING OF THE WORD "PRIVATE" SHALL BE MINIMUM 20mm. THE HEIGHT OF THE LETTERING OF OTHER WORDS SHALL BE A MINIMUM OF 6mm.

CONTRACTOR TO PROVIDE STAINLESS STEEL 316 LASER ENGRAVED BLACK INK FILLED LABELS SECURED WITH STAINLESS STEEL FIXTURES, DRILLED AND TAPPED SCREWS OR STRAPS TO SUIT.



TYPICAL LIGHT POLE BASE DETAIL WITH CONCRETE COLLAR

NTS@A3

D	TENDER ISSUE	LM	RM	13.08.26
C	TENDER ISSUE	LM	RM	07.07.26
B	70% ISSUE	SH	RM	29.05.26
A	PRELIMINARY ISSUE	LM	RM	22.05.26
REV	REVISION DETAILS	BY	APP.	DATE



DESIGN BY:
**ELECTRICAL
PROJECTS
AUSTRALIA**
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PROJECT:
GOSFORD WATERFRONT PUBLIC
DOMAIN - LIGHTING DESIGN

CLIENT:
ADW JOHNSON

LOCATION:
GOSFORD

DRAWING:
SITE LOCATION PLAN

DATE: 18.05.26 DRAWN: LM

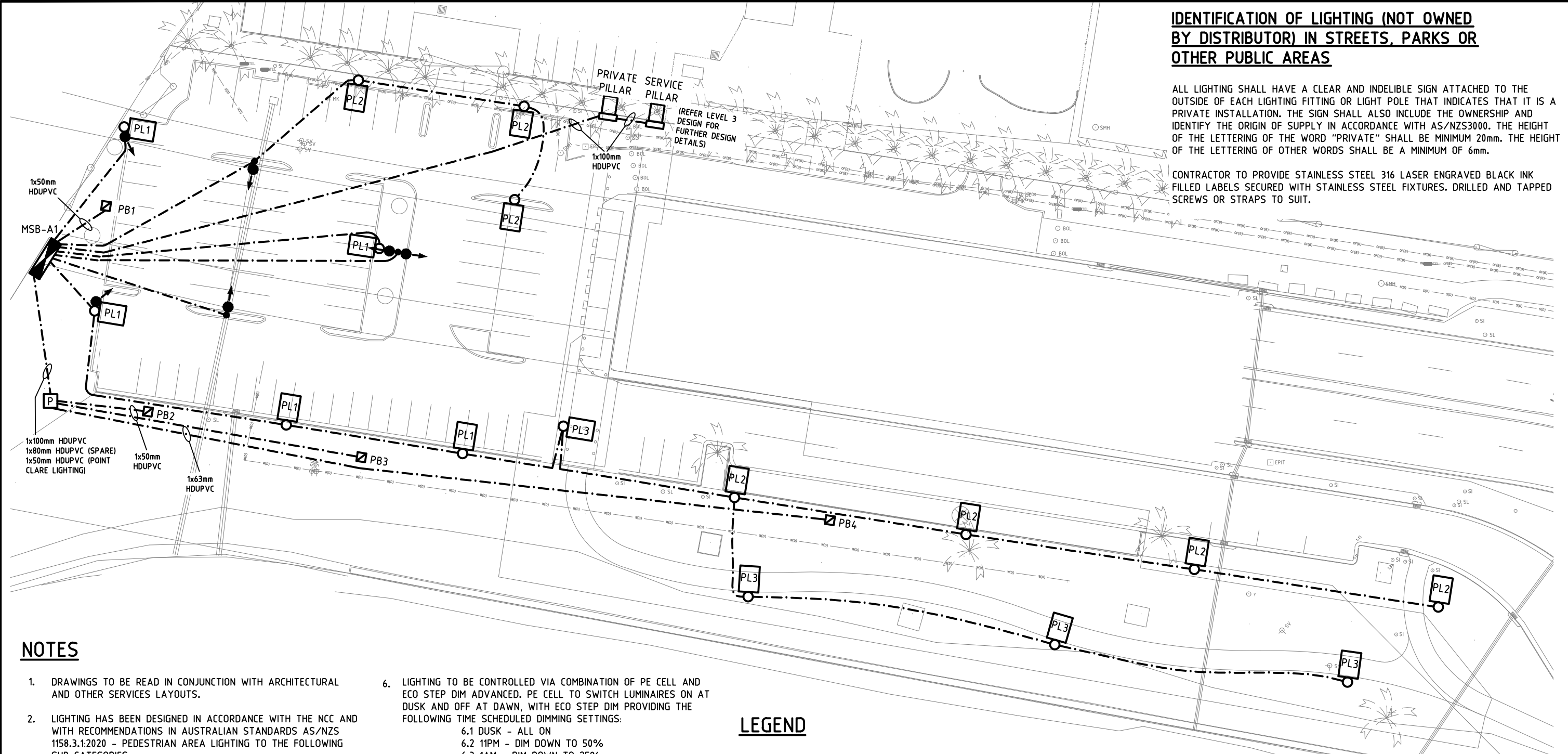
SCALE: 1:5000@A3 DESIGN: RM

PROJECT No. 26072 DRAWING No. E01 ISSUE: C

IDENTIFICATION OF LIGHTING (NOT OWNED BY DISTRIBUTOR) IN STREETS, PARKS OR OTHER PUBLIC AREAS

ALL LIGHTING SHALL HAVE A CLEAR AND INDELIBLE SIGN ATTACHED TO THE OUTSIDE OF EACH LIGHTING FITTING OR LIGHT POLE THAT INDICATES THAT IT IS A PRIVATE INSTALLATION. THE SIGN SHALL ALSO INCLUDE THE OWNERSHIP AND IDENTIFY THE ORIGIN OF SUPPLY IN ACCORDANCE WITH AS/NZS3000. THE HEIGHT OF THE LETTERING OF THE WORD "PRIVATE" SHALL BE MINIMUM 20mm. THE HEIGHT OF THE LETTERING OF OTHER WORDS SHALL BE A MINIMUM OF 6mm.

CONTRACTOR TO PROVIDE STAINLESS STEEL 316 LASER ENGRAVED BLACK INK FILLED LABELS SECURED WITH STAINLESS STEEL FIXTURES. DRILLED AND TAPPED SCREWS OR STRAPS TO SUIT.



NOTES

1.

DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES LAYOUTS.
2.

LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH THE NCC AND WITH RECOMMENDATIONS IN AUSTRALIAN STANDARDS AS/NZS 1158.3.1:2020 - PEDESTRIAN AREA LIGHTING TO THE FOLLOWING SUB-CATEGORIES:

2.1

CAR PARK - PC3

2.2

DISABLED PARKING - PCD

2.3

PATHWAYS - PP3
3.

LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS/NZS 4282 - CONTROL OF THE OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING.
4.

LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH DCEEW NATIONAL POLLUTION GUIDELINES FOR WILDLIFE.
5.

LIGHTING TO BE SUPPLIED WITH R2C TOP AND BELOW (READY TO CONNECT) ZHAGA BOOK 18 INTERFACE FOR FUTURE USE. ZHAGA SOCKETS TO BE CAPPED.
6.

LIGHTING TO BE CONTROLLED VIA COMBINATION OF PE CELL AND ECO STEP DIM ADVANCED. PE CELL TO SWITCH LUMINAIRES ON AT DUSK AND OFF AT DAWN, WITH ECO STEP DIM PROVIDING THE FOLLOWING TIME SCHEDULED DIMMING SETTINGS:

6.1

DUSK - ALL ON

6.2

11PM - DIM DOWN TO 50%

6.3

1AM - DIM DOWN TO 25%

6.6

DAWN - ALL OFF
7.

SPECIFIED WE-EF LUMINAIRES ARE COMPLAINT WITH AUSGRID'S NS119 STANDARD AND ON THE NEM APPROVED LOAD TABLE BY AEMO.
8.

INSTALL 1x32mm HDUPVC CONDUIT TO LIGHT POLES EXCEPT WHERE SHOWN OTHERWISE.
9.

CONDUITS TO BE BURIED AT 500mm BELOW GROUND AND COORDINATE ON SITE WITH SITE CONDITIONS.
10.

GOBO PROJECTORS ARE EITHER MOUNTED TO CARPARK LIGHTING POLES OR STANDALONE GOBO POLES. ALL GOBO PROJECTORS TO BE AIMED UPWARDS TO ILLUMINATE UNDERSIDE OF BRIDGE STRUCTURE.

LEGEND

- PL1

POLE TOP LUMINAIRE - WE-EF VFL520 (108-2342) - 36W, 3913LM, 2700K, CRI 80, A60 ASYMMETRIC FORWARD THROW LIGHT DISTRIBUTION, IP66, IK08, L90 B10 @ 100,000 HOURS. SUPPLY WITH DALI DRIVER, R2C ZHAGA SOCKET TOP AND BELOW LUMINAIRE AND ECO STEP DIM ADVANCED. MOUNTED ON 5M ROUND TAPERED POLE FROM GM POLES. BLACK POWDER COAT FINISH.
- PL2

POLE TOP LUMINAIRE - WE-EF VFL520 (108-2341) - 36W, 4002LM, 2700K, CRI 80, R65 RECTANGULAR SIDE THROW LIGHT DISTRIBUTION, IP66, IK08, L90 B10 @ 100,000 HOURS. SUPPLY WITH DALI DRIVER, R2C ZHAGA SOCKET TOP AND BELOW LUMINAIRE AND ECO STEP DIM ADVANCED. MOUNTED ON 5M ROUND TAPERED POLE FROM GM POLES. BLACK POWDER COAT FINISH.
- PL3

POLE TOP LUMINAIRE - WE-EF VFL520 (108-2316) - 24W, 2805LM, 2700K, CRI 80, P65 PEDESTRIAN/BICYCLE LANE LIGHT DISTRIBUTION, IP66, IK08, L90 B10 @ 100,000 HOURS. SUPPLY WITH DALI DRIVER, R2C ZHAGA SOCKET TOP AND BELOW LUMINAIRE AND ECO STEP DIM ADVANCED. MOUNTED ON 5M ROUND TAPERED POLE FROM GM POLES. BLACK POWDER COAT FINISH.
- P

POWER PIT - CLASS C
- POLE FOR GOBO PROJECTORS - 4m ROUND POLE FROM GM POLES. BLACK POWDER COAT FINISH
- GOBO PROJECTOR - WE-EF FLC220-CC LED [GP], 139-2296, BLACK FINISH - 25W, 2600lm, RGBW, SYMMETRIC BEAM, IP66, IK07, L70 B50 @ 50,000 hours. GOBO MOTIF ON REQUEST (TO BE CONFIRMED WITH CLIENT & STAKEHOLDERS).
- PBx

POWER BOLLARD - LEDA SECURITY TITAN 600 STAINLESS STEEL 304 (KEYED TO CCC REQUIREMENTS)

4x10A

SINGLE PHASE DOUBLE IP54 SOCKET OUTLETS

7x15A

SINGLE PHASE IP66 OUTLETS

3x32A

THREE PHASE IP66 OUTLETS

B	TENDER ISSUE	LM	RM	13.08.26
A	PRELIMINARY ISSUE	LM	RM	22.05.26
REV	REVISION DETAILS	BY	APP.	DATE

DESIGN BY:



ELECTRICAL

PROJECTS

AUSTRALIA

386 MAITLAND ROAD
MAYFIELD NSW 2304
02 4967 5999
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PROJECT:
GOSFORD WATERFRONT PUBLIC
DOMAIN - LIGHTING DESIGN

CLIENT:
ADW JOHNSON

LOCATION:
GOSFORD

DRAWING:
AREA 1 - GRAHAM PARK
ELECTRICAL LAYOUT

DATE: 18.05.26
SCALE: 1:500@A3

DRAWN: LM
DESIGN: RM

PROJECT No. 26072
DRAWING No. E02
ISSUE: B

SOME ITEMS SHOWN ON E06 ARE
DUPLICATED ON E07 FOR CLARITY.

LEGEND

-  POLE TOP LUMINAIRE - WE-EF VFL520 (108-2316) - 24W, 2805LM, 2700K, CRI 80, P65 PEDESTRIAN/BICYCLE LANE LIGHT DISTRIBUTION, IP66, IK08, L90 B10 @ 100,000 HOURS. SUPPLY WITH DALI DRIVER, R2C ZHAGA SOCKET TOP AND BELOW LUMINAIRE AND ECO STEP DIM ADVANCED. MOUNTED ON 5M ROUND TAPERED POLE FROM GM POLES. BLACK POWDER COAT FINISH.
-  EXISTING EVENT POWER PILLAR
-  EXISTING STREET LIGHT
-  POWER BOLLARD
-  POWER CONDUIT
-  POWER PIT
-  DISTRIBUTION BOARD
-  MAIN SWITCHBOARD

NOTES

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES LAYOUTS.
2. LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH THE NCC AND WITH RECOMMENDATIONS IN AUSTRALIAN STANDARDS AS/NZS 1158.3.1:2020 - PEDESTRIAN AREA LIGHTING TO THE FOLLOWING SUB-CATEGORIES:

2.1 CAR PARK - PC3

2.2 DISABLED PARKING - PCD

2.3 PATHWAYS - PP3
3. LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS/NZS 4282 - CONTROL OF THE OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING.
4. LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH DCCEEW NATIONAL POLLUTION GUIDELINES FOR WILDLIFE.
5. LIGHTING TO BE SUPPLIED WITH R2C TOP AND BELOW (READY TO CONNECT) ZHAGA BOOK 18 INTERFACE FOR FUTURE USE. ZHAGA SOCKETS TO BE CAPPED.
6. LIGHTING TO BE CONTROLLED VIA COMBINATION OF PE CELL AND ECO STEP DIM ADVANCED. PE CELL TO SWITCH LUMINAIRES ON AT DUSK AND OFF AT DAWN, WITH ECO STEP DIM PROVIDING THE FOLLOWING TIME SCHEDULED DIMMING SETTINGS:

6.1 DUSK - ALL ON

6.2 11PM - DIM DOWN TO 50%

6.3 1AM - DIM DOWN TO 25%

6.6 DAWN - ALL OFF
7. SPECIFIED WE-EF LUMINAIRES ARE COMPLAINT WITH AUSGRID'S NS119 STANDARD AND ON THE NEM APPROVED LOAD TABLE BY AEMO.
8. INSTALL 1x32mm HDUPVC CONDUIT TO LIGHT POLES EXCEPT WHERE SHOWN OTHERWISE.

IDENTIFICATION OF LIGHTING (NOT OWNED
BY DISTRIBUTOR) IN STREETS, PARKS OR
OTHER PUBLIC AREAS

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CONTRACTOR TO PROVIDE STAINLESS STEEL 316 LASER ENGRAVED BLACK INK FILLED LABELS SECURED WITH STAINLESS STEEL FIXTURES. DRILLED AND TAPPED SCREWS OR STRAPS TO SUIT.



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PROJECT:
GOSFORD WATERFRONT PUBLIC
DOMAIN - LIGHTING DESIGN

CLIENT:
ADW JOHNSON

LOCATION:
GOSFORD

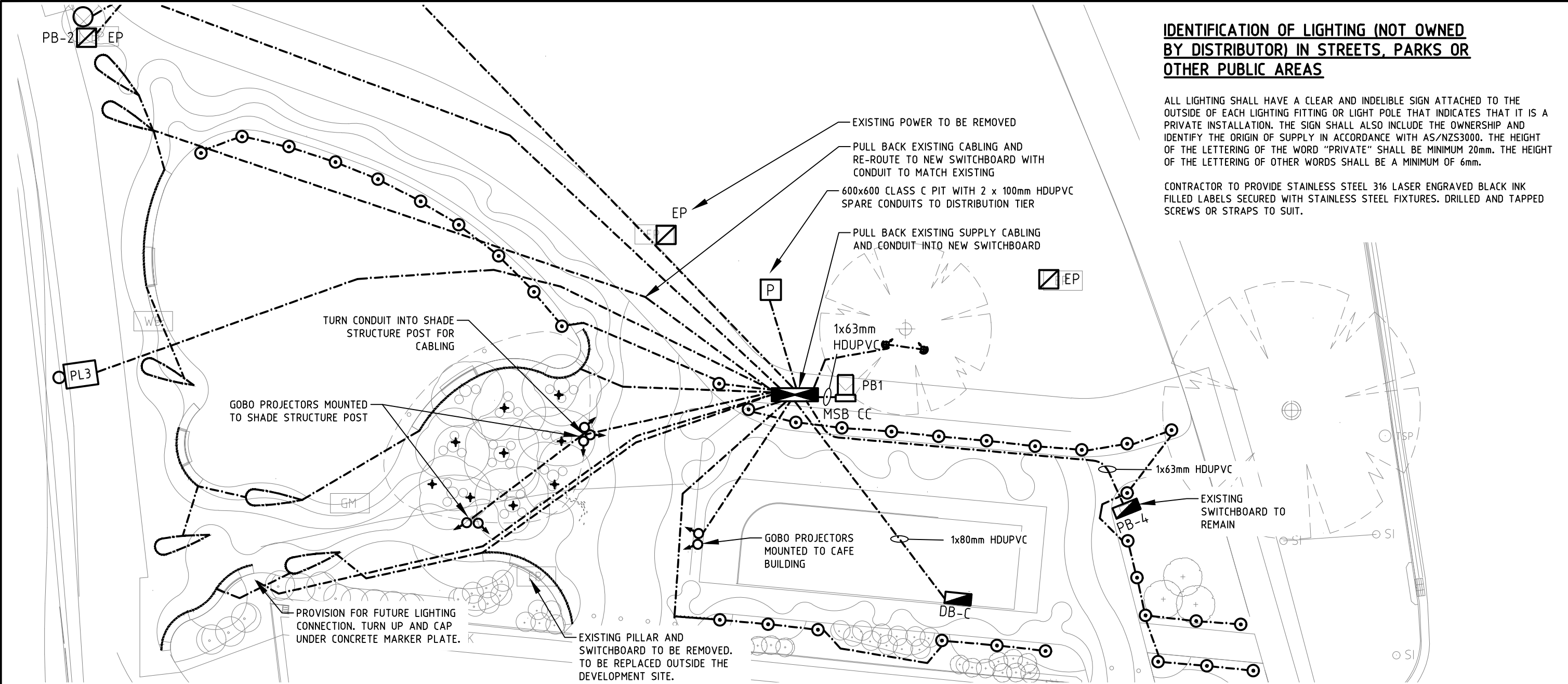
DRAWING:
WATERFRONT PATHWAY
SHEET 4

DATE: 18.05.26 DRAWN: LM

SCALE: 1:500@A3 DESIGN: RM

PROJECT No. 26072 DRAWING No. E06 ISSUE: C

C	TENDER ISSUE	SH	RM	13.08.26
B	70% ISSUE	SH	RM	29.05.26
A	PRELIMINARY ISSUE	LM	RM	22.05.26
REV	REVISION DETAILS	BY	APP.	DATE



IDENTIFICATION OF LIGHTING (NOT OWNED BY DISTRIBUTOR) IN STREETS, PARKS OR OTHER PUBLIC AREAS

ALL LIGHTING SHALL HAVE A CLEAR AND INDELIBLE SIGN ATTACHED TO THE OUTSIDE OF EACH LIGHTING FITTING OR LIGHT POLE THAT INDICATES THAT IT IS A PRIVATE INSTALLATION. THE SIGN SHALL ALSO INCLUDE THE OWNERSHIP AND IDENTIFY THE ORIGIN OF SUPPLY IN ACCORDANCE WITH AS/NZS3000. THE HEIGHT OF THE LETTERING OF THE WORD "PRIVATE" SHALL BE MINIMUM 20mm. THE HEIGHT OF THE LETTERING OF OTHER WORDS SHALL BE A MINIMUM OF 6mm.

CONTRACTOR TO PROVIDE STAINLESS STEEL 316 LASER ENGRAVED BLACK INK FILLED LABELS SECURED WITH STAINLESS STEEL FIXTURES. DRILLED AND TAPPED SCREWS OR STRAPS TO SUIT.

NOTES

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES LAYOUTS.

2. LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH THE NCC AND WITH RECOMMENDATIONS IN AUSTRALIAN STANDARDS AS/NZS 1158.3.1:2020 - PEDESTRIAN AREA LIGHTING TO THE FOLLOWING SUB-CATEGORIES:

2.1 CAR PARK - PC3

2.2 DISABLED PARKING - PCD

2.3 PATHWAYS - PP3

3. LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS/NZS 4282 - CONTROL OF THE OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING.

4. LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH DCEEW NATIONAL POLLUTION GUIDELINES FOR WILDLIFE.

5. LIGHTING TO BE SUPPLIED WITH R2C TOP AND BELOW (READY TO CONNECT) ZHAGA BOOK 18 INTERFACE FOR FUTURE USE. ZHAGA SOCKETS TO BE CAPPED.
6. LIGHTING TO BE CONTROLLED VIA COMBINATION OF PE CELL AND ECO STEP DIM ADVANCED. PE CELL TO SWITCH LUMINAIRES ON AT DUSK AND OFF AT DAWN, WITH ECO STEP DIM PROVIDING THE FOLLOWING TIME SCHEDULED DIMMING SETTINGS:

6.1 DUSK - ALL ON

6.2 11PM - DIM DOWN TO 50%

6.3 1AM - DIM DOWN TO 25%

6.6 DAWN - ALL OFF

7. SPECIFIED WE-EF LUMINAIRES ARE COMPLAINT WITH AUSGRID'S NS119 STANDARD AND ON THE NEM APPROVED LOAD TABLE BY AEMO.

8. INSTALL 1x32mm HDUPVC CONDUIT TO LIGHT POLES EXCEPT WHERE SHOWN OTHERWISE.

9. INSTALLING CONTRACTOR TO PROVIDE SHOP DRAWING FOR CAN LIGHT FIXING TO SHADE STRUCTURE - FOR REVIEW AND APPROVAL FROM HCCDC, EPA AND ADWJ.

10. GOBO PROJECTION ARTWORK TO BE CLUSTER OF CIRCLES IN BLUE AND WHITE. CONFIRM WITH EPA AND ADWJ PRIOR TO ORDERING.

LEGEND

- POLE TOP LUMINAIRE - WE-EF VFL520 (108-2316) BLACK FINISH - 24W, 2805LM, 2700K, CRI 80, P65 PEDESTRIAN/BICYCLE LANE LIGHT DISTRIBUTION, IP66, IK08, L90 B10 @ 100,000 HOURS. SUPPLY WITH DALI DRIVER, R2C ZHAGA SOCKET TOP AND BELOW LUMINAIRE AND ECO STEP DIM ADVANCED. MOUNTED ON 5M ROUND TAPERED POLE FROM GM POLES. BLACK POWDER COAT FINISH.
- BOLLARD - STRAMAC LIGHTING, WE-EF MRY224 (115-9805), 850MMH, BLACK FINISH - 18W, 1829lm, 2700K, CRI 80, S60 ASYMMETRIC SIDE THROW, IP66, IK10, L70 B50 @ 50,000 hours
- SURFACE MOUNTED CAN DOWNLIGHT - STRAMAC LIGHTING, LIGMAN JET 39 (JE-80031), BLACK FINISH - 14W, 1618lm, 2700K, WIDE 41 DEGREE OPTIC, CRI 80, IP65, IK08, L90 B10 @ 55,000 hours
- SPIKE MOUNTED UPLIGHT WITH ANTI-GLARE VISOR - STRAMAC LIGHTING, UNIOS EMERALD SPIKE, BLACK FINISH - 10W, 599lm, 2700K, 38 DEGREE OPTIC, CRI 80, IP65, L70 B10 @ >50,000 hours
- POWER CONDUIT
- POLE MOUNTED GOBO PROJECTOR - STRAMAC LIGHTING, WE-EF FLC201 (GP), 139-2749, BLACK FINISH - 7.5W, 286lm, RGBW, CRI 80, IP66, IK07, L90 B10 @ 90,000 hours. GOBO PROJECTION ARTWORK REFER TO NOTE 10. MOUNTED ON 4m TAPERED ROUND POLE, BLACK FINISH
- FLEXIBLE IP RATED LED STRIP - LITE SOURCE & CONTROLS, VUELITE NEON SIDE, 17.4mmW x 18mmH - 8W/m, 450lm/m, 2700K, CRI 80, IP67, IK10, SUPPLY WITH TRU-FX FLEXIBLE MOUNTING EXTRUSION
- IN-GROUND LED STRIP - LITE SOURCE & CONTROLS, VUELITE NEON SIDE, 17.4mmW x 18mmH - 8W/m, 450lm/m, 2700K, CRI 80, IP67, IK10, SUPPLY WITH IN-GROUND MOUNTING EXTRUSION
- POWER BOLLARD - LEDA SECURITY TITAN 600 STAINLESS STEEL 304 (KEYED TO CCC REQUIREMENTS) 6x10A DOUBLE IP54 SOCKET OUTLETS 3x15A SINGLE PHASE IP66 OUTLETS 2x32A THREE PHASE IP66 OUTLETS
- DISTRIBUTION BOARD
- MAIN SWITCHBOARD
- EXISTING EVENT POWER PILLAR
- EXISTING STREET LIGHT

C	TENDER ISSUE	SH	RM	13.08.26
B	70% ISSUE	SH	RM	29.05.26
A	PRELIMINARY ISSUE	LM	RM	29.05.26
REV	REVISION DETAILS	BY	APP.	DATE

DESIGN BY:

ELECTRICAL PROJECTS AUSTRALIA

386 MAITLAND ROAD
MAYFIELD NSW 2304
02 4967 5999
MAIL@EPA.ENERGY

PROJECT:

GOSFORD WATERFRONT PUBLIC DOMAIN - LIGHTING DESIGN

CLIENT:

ADW JOHNSON

LOCATION:

GOSFORD

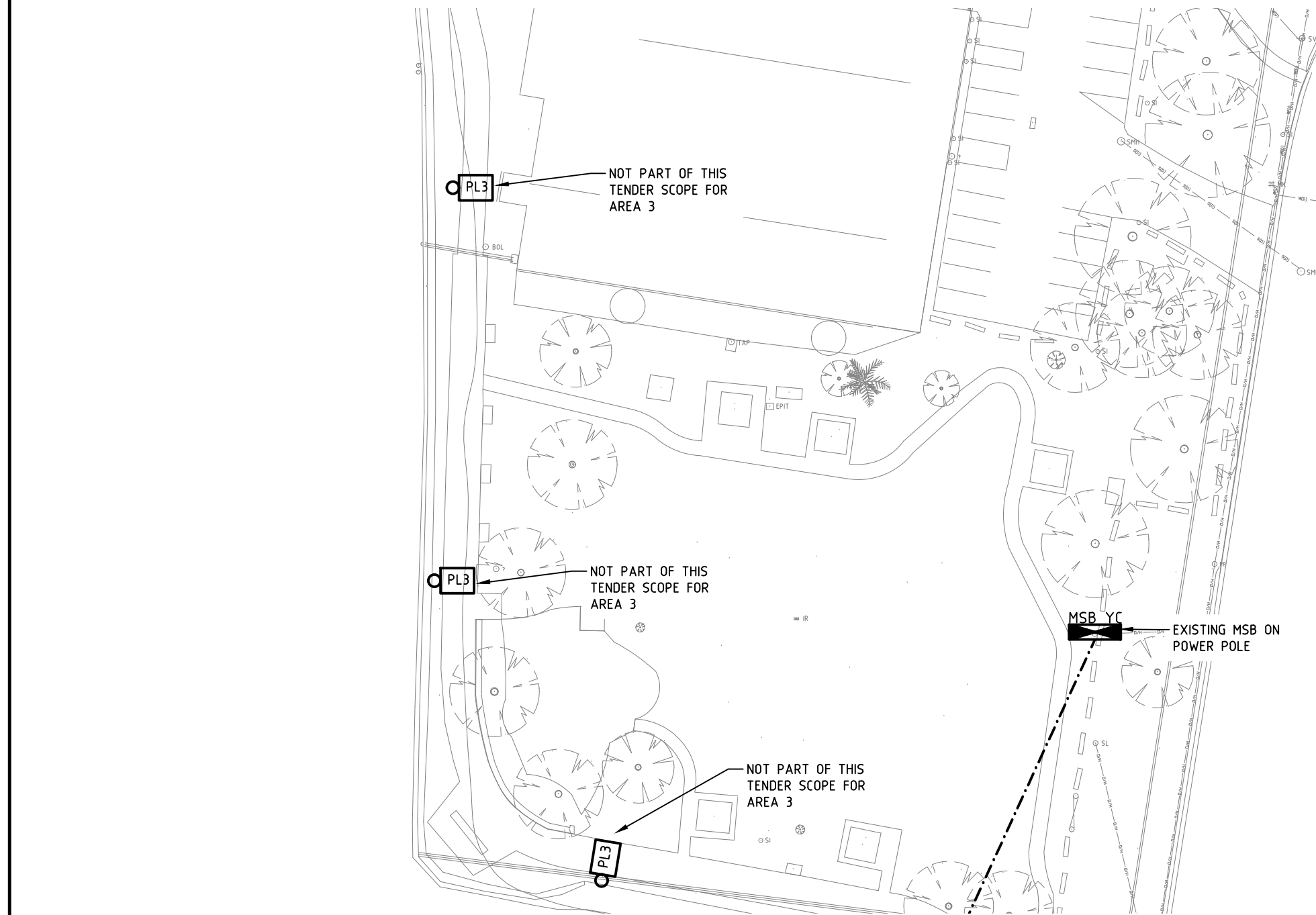
DRAWING:

AREA 2 - WATERFRONT PARK ELECTRICAL LAYOUT

DATE: 18.05.26 DRAWN: LM

SCALE: 1:200@A3 DESIGN: RM

PROJECT No. 26072 DRAWING No. E07 ISSUE: C



LEGEND

-  POLE TOP LUMINAIRE - WE-EF VFL520 (108-2316) - 24W, 2805LM, 2700K, CRI 80, P65 PEDESTRIAN/BICYCLE LANE LIGHT DISTRIBUTION, IP66, IK08, L90 B10 @ 100,000 HOURS. SUPPLY WITH DALI DRIVER, R2C ZHAGA SOCKET TOP AND BELOW LUMINAIRE AND ECO STEP DIM ADVANCED. MOUNTED ON 5M ROUND TAPERED POLE FROM GM POLES. BLACK POWDER COAT FINISH.
-  POWER CONDUIT
-  MAIN SWITCHBOARD

NOTES

- DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES LAYOUTS.
- LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH THE NCC AND WITH RECOMMENDATIONS IN AUSTRALIAN STANDARDS AS/NZS 1158.3.1:2020 - PEDESTRIAN AREA LIGHTING TO THE FOLLOWING SUB-CATEGORIES:
 - CAR PARK - PC3
 - DISABLED PARKING - PC4
 - PATHWAYS - PP3
- LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS/NZS 4282 - CONTROL OF THE OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING.
- LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH DCCEW NATIONAL POLLUTION GUIDELINES FOR WILDLIFE.
- LIGHTING TO BE SUPPLIED WITH R2C TOP AND BELOW (READY TO CONNECT) ZHAGA BOOK 18 INTERFACE FOR FUTURE USE. ZHAGA SOCKETS TO BE CAPPED.
- LIGHTING TO BE CONTROLLED VIA COMBINATION OF PE CELL AND ECO STEP DIM ADVANCED. PE CELL TO SWITCH LUMINAIRES ON AT DUSK AND OFF AT DAWN, WITH ECO STEP DIM PROVIDING THE FOLLOWING TIME SCHEDULED DIMMING SETTINGS:
 - DUSK - ALL ON
 - 11PM - DIM DOWN TO 50%
 - 1AM - DIM DOWN TO 25%
 - DAWN - ALL OFF
- SPECIFIED WE-EF LUMINAIRES ARE COMPLAINT WITH AUSGRID'S NS119 STANDARD AND ON THE NEM APPROVED LOAD TABLE BY AEMO.
- INSTALL 1x32mm HDUPVC CONDUIT TO LIGHT POLES AS SHOWN.
- LIGHTING POLES TO BE INSTALLED WITH SQUARE CONCRETE COLLAR BASE. REFER TO DRAWING 26072-E01 FOR BASE DETAIL. CONCRETE COLLAR TO SIT FLUSH WITH EDGE OF PATH FOR EASE OF GARDENING AND VEGETATION MAINTENANCE. CONCRETE COLLAR FINISH TO MATCH FOOTPATH AS CLOSE AS POSSIBLE.

D	IFC ISSUE	LM	RM	13.07.26
C	REVISED TENDER ISSUE	LM	RM	07.07.26
B	TENDER ISSUE	SH	RM	29.05.26
A	PRELIMINARY ISSUE	LM	RM	22.05.26
REV	REVISION DETAILS	BY	APP.	DATE

DESIGN BY:

 **ELECTRICAL PROJECTS AUSTRALIA**

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PROJECT:
GOSFORD WATERFRONT PUBLIC DOMAIN - LIGHTING DESIGN

CLIENT:
ADW JOHNSON

LOCATION:
GOSFORD

DRAWING:
WATERFRONT PATHWAY SHEET 7

DATE: 18.05.26 DRAWN: LM

SCALE: 1:500@A3 DESIGN: RM

PROJECT No. 26072 DRAWING No: E10 ISSUE: D



LEGEND



POLE TOP LUMINAIRE - WE-EF VFL520 (108-2316) - 24W, 2805LM, 2700K, CRI 80, P65 PEDESTRIAN/BICYCLE LANE LIGHT DISTRIBUTION, IP66, IK08, L90 B10 @ 100,000 HOURS. SUPPLY WITH DALI DRIVER, R2C ZHAGA SOCKET TOP AND BELOW LUMINAIRE AND ECO STEP DIM ADVANCED. MOUNTED ON 5M ROUND TAPERED POLE FROM GM POLES. BLACK POWDER COAT FINISH.

--- POWER CONDUIT

NOTES

- DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES LAYOUTS.
- LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH THE NCC AND WITH RECOMMENDATIONS IN AUSTRALIAN STANDARDS AS/NZS 1158.3.1:2020 - PEDESTRIAN AREA LIGHTING TO THE FOLLOWING SUB-CATEGORIES:
 - CAR PARK - PC3
 - DISABLED PARKING - PCD
 - PATHWAYS - PP3
- LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS/NZS 4282 - CONTROL OF THE OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING.
- LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH DCEEW NATIONAL POLLUTION GUIDELINES FOR WILDLIFE.
- LIGHTING TO BE SUPPLIED WITH R2C TOP AND BELOW (READY TO CONNECT) ZHAGA BOOK 18 INTERFACE FOR FUTURE USE. ZHAGA SOCKETS TO BE CAPPED.
- LIGHTING TO BE CONTROLLED VIA COMBINATION OF PE CELL AND ECO STEP DIM ADVANCED. PE CELL TO SWITCH LUMINAIRES ON AT DUSK AND OFF AT DAWN, WITH ECO STEP DIM PROVIDING THE FOLLOWING TIME SCHEDULED DIMMING SETTINGS:
 - DUSK - ALL ON
 - 11PM - DIM DOWN TO 50%
 - 1AM - DIM DOWN TO 25%
 - DAWN - ALL OFF
- SPECIFIED WE-EF LUMINAIRES ARE COMPLAINT WITH AUSGRID'S NS119 STANDARD AND ON THE NEM APPROVED LOAD TABLE BY AEMO.
- INSTALL 1x32mm HDUPVC CONDUIT TO LIGHT POLES EXCEPT WHERE SHOWN OTHERWISE.
- LIGHTING POLES TO BE INSTALLED WITH SQUARE CONCRETE COLLAR BASE. REFER TO DRAWING 26072-E01 FOR BASE DETAIL. CONCRETE COLLAR TO SIT FLUSH WITH EDGE OF PATH FOR EASE OF GARDENING AND VEGETATION MAINTENANCE. CONCRETE COLLAR FINISH TO MATCH FOOTPATH AS CLOSE AS POSSIBLE.

IDENTIFICATION OF LIGHTING (NOT OWNED BY DISTRIBUTOR) IN STREETS, PARKS OR OTHER PUBLIC AREAS

ALL LIGHTING SHALL HAVE A CLEAR AND INDELIBLE SIGN ATTACHED TO THE OUTSIDE OF EACH LIGHTING FITTING OR LIGHT POLE THAT INDICATES THAT IT IS A PRIVATE INSTALLATION. THE SIGN SHALL ALSO INCLUDE THE OWNERSHIP AND IDENTIFY THE ORIGIN OF SUPPLY IN ACCORDANCE WITH AS/NZS3000. THE HEIGHT OF THE LETTERING OF THE WORD "PRIVATE" SHALL BE MINIMUM 20mm. THE HEIGHT OF THE LETTERING OF OTHER WORDS SHALL BE A MINIMUM OF 6mm.

CONTRACTOR TO PROVIDE STAINLESS STEEL 316 LASER ENGRAVED BLACK INK FILLED LABELS SECURED WITH STAINLESS STEEL FIXTURES. DRILLED AND TAPPED SCREWS OR STRAPS TO SUIT.

D	IFC ISSUE	LM	RM	13.07.26
C	REVISED TENDER ISSUE	LM	RM	07.07.26
B	TENDER ISSUE	SH	RM	29.05.26
A	PRELIMINARY ISSUE	LM	RM	22.05.26
REV	REVISION DETAILS	BY	APP.	DATE



DESIGN BY:

ELECTRICAL PROJECTS AUSTRALIA

386 MAITLAND ROAD
MAYFIELD NSW 2304
02 4967 5999
MAIL@EPA.ENERGY

PROJECT:

GOSFORD WATERFRONT PUBLIC DOMAIN - LIGHTING DESIGN

CLIENT:

ADW JOHNSON

LOCATION:

GOSFORD

DATE:

18.05.26

DRAWN:

LM

SCALE:

1:500@A3

DESIGN:

RM

DRAWING:

AREA 3 - SAILING CLUB TO SEA PARK ELECTRICAL LAYOUT

PROJECT No.

26072

DRAWING No.

E11

ISSUE:

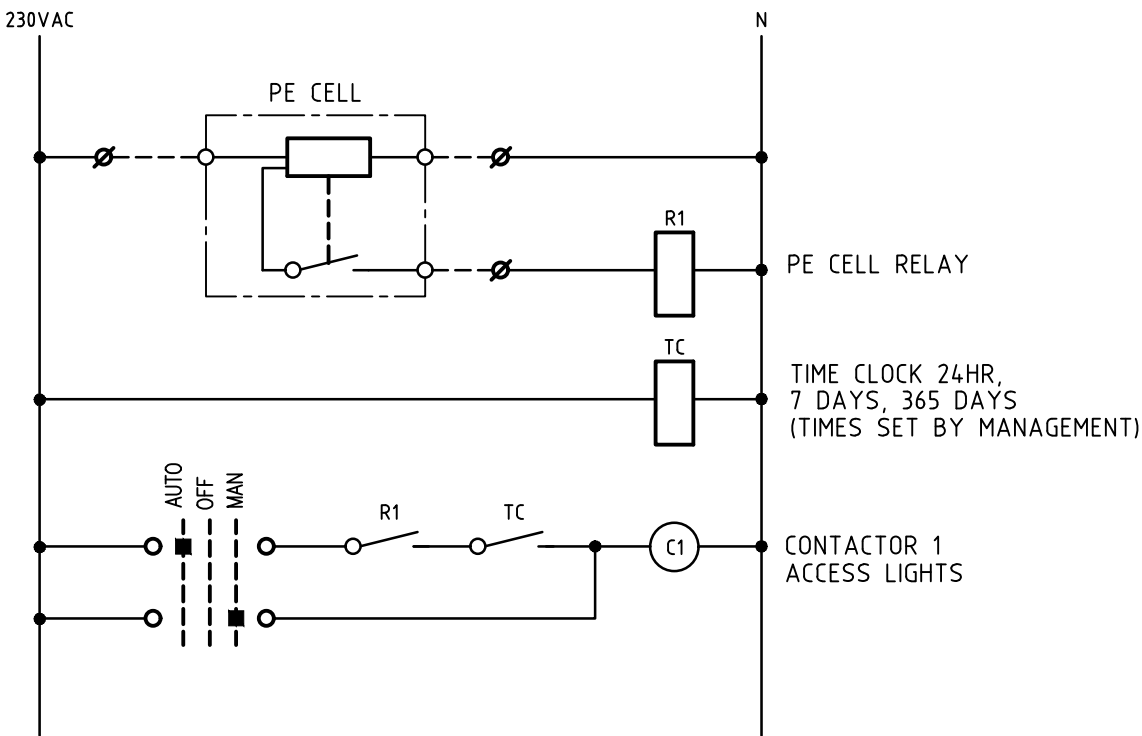
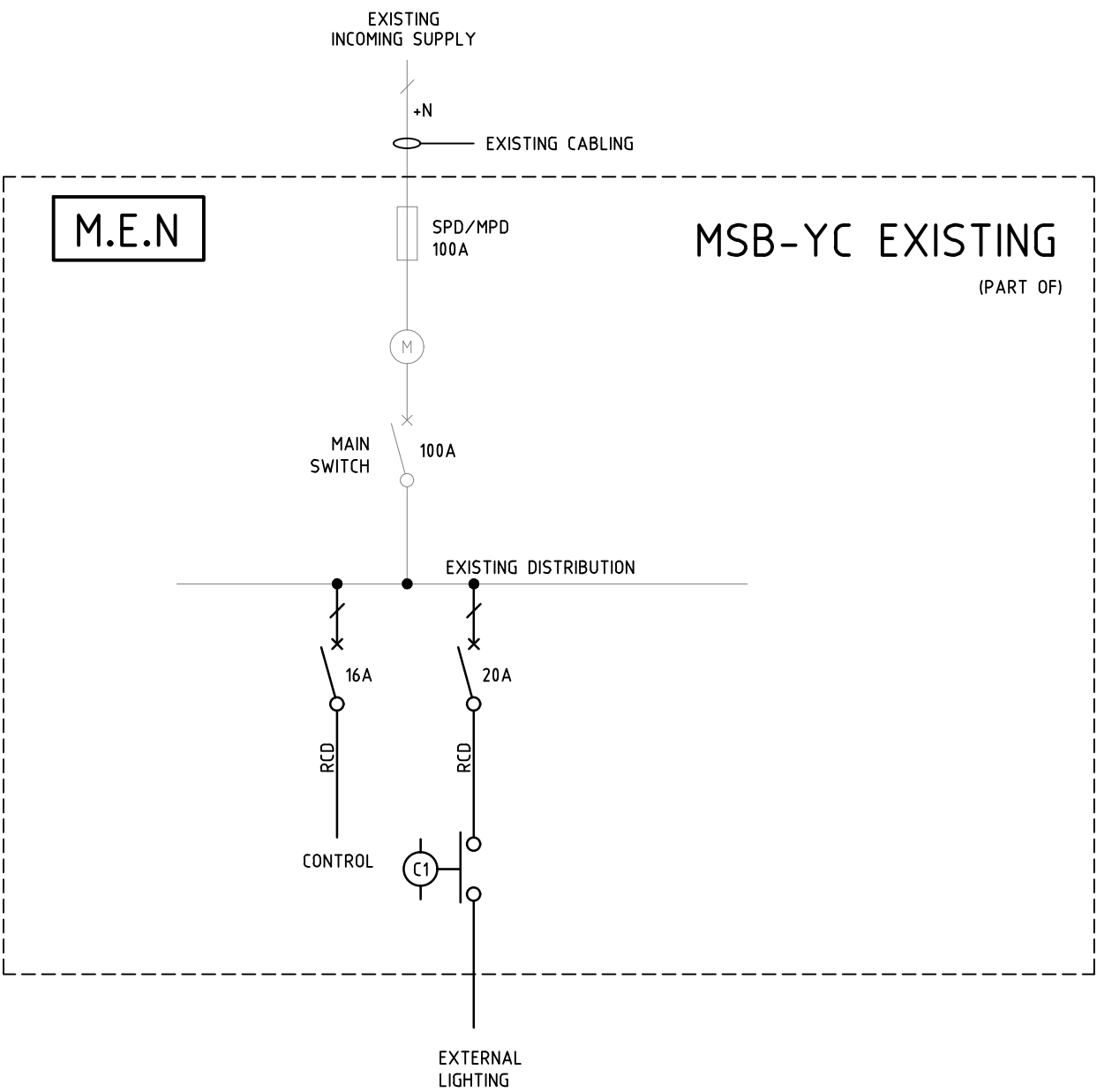
D

LEGEND

-  400A
CIRCUIT BREAKER (RATING SHOWN)
-  CONTACTOR
-  SUPPLY AUTHORITY METERING
-  RESIDUAL-CURRENT DEVICE
-  FUSE. SIZE AS SHOWN

NOTES

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL ELEVATIONS/SECTIONS AND FURNITURE LAYOUTS.
2. METERING TO COMPLY WITH SUPPLY AUTHORITY REQUIREMENTS.
3. USE REINFORCED CASCADING AND ENHANCED DISCRIMINATION FOR CIRCUIT BREAKER SELECTIVITY SO THAT MINIATURE CIRCUIT BREAKERS 6-10kA MAY BE USED.



TYPICAL
EXTERNAL LIGHTING CONTROL
(MSB-YC)

B	IFC ISSUE	SH	CH	17.08.26
A	TENDER ISSUE	SH	CH	29.05.26
REV	REVISION DETAILS	BY	APP.	DATE



DESIGN BY:
**ELECTRICAL
PROJECTS
AUSTRALIA**
386 MAITLAND ROAD
MAYFIELD NSW 2304
02 4967 5999
MAIL@EPA.ENERGY

PROJECT:
GOSFORD WATERFRONT PUBLIC
DOMAIN - LIGHTING DESIGN

CLIENT:
ADW JOHNSON

LOCATION:
GOSFORD

DRAWING:
AREA 3 - SINGLE LINE &
CONTROL DIAGRAMS

DATE: 29.05.26
SCALE: NTS@A3
PROJECT No. 26072

DRAWN: SH
DESIGN: CH
DRAWING No: E12
ISSUE: B

LEGEND

- 400A

CIRCUIT BREAKER (RATING SHOWN)

MAIN SWITCH

RESIDUAL-CURRENT DEVICE

NOTES

1.

DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL ELEVATIONS/SECTIONS AND FURNITURE LAYOUTS.

2.

METERING TO COMPLY WITH SUPPLY AUTHORITY REQUIREMENTS.

3.

USE REINFORCED CASCADING AND ENHANCED DISCRIMINATION FOR CIRCUIT BREAKER SELECTIVITY SO THAT MINIATURE CIRCUIT BREAKERS 6-10kA MAY BE USED.

FROM MSB-CC

+N/E

MAIN SWITCH

125A

20A

20A

20A

20A

20A

20A

20A

20A

20A

32A

32A

RCD

RCD

RCD

RCD

RCD

RCD

RCD

RCD

RCD

RCD

RCD

15A SWITCHED SOCKET OUTLET IP66

15A SWITCHED SOCKET OUTLET IP66

15A SWITCHED SOCKET OUTLET IP66

DOUBLE 10A SWITCHED SOCKET OUTLET IP54

DOUBLE 10A SWITCHED SOCKET OUTLET IP54

DOUBLE 10A SWITCHED SOCKET OUTLET IP54

DOUBLE 10A SWITCHED SOCKET OUTLET IP54

DOUBLE 10A SWITCHED SOCKET OUTLET IP54

DOUBLE 10A SWITCHED SOCKET OUTLET IP54

DOUBLE 10A SWITCHED SOCKET OUTLET IP54

32A SWITCHED SOCKET OUTLET IP66

32A SWITCHED SOCKET OUTLET IP66

POWER BOLLARD No.1

LEDA SECURITY TITAN 600 STAINLESS STEEL 304 (KEYED TO CCC REQUIREMENTS) IP65 DISTRIBUTION BOX

ENGRAVED & FILLED 3MM MIN. BRASS PLATE "MAIN EARTH ELECTRODE" IN 10mm HIGH CHARACTERS. FIX WITH MIN. 2x6mm C SUNK BRASS MASONRY BOLTS.

ENGRAVED HINGED LID "ELECTRICAL EARTH"

AS CLOSE AS POSSIBLE TO BUILDING

GROUND LEVEL

CAST ALUMINIUM ALLOY EARTH CONNECTION BOX. ALM-DULMISON CAT No. ERB1

COPPER ALLOY DOUBLE SADDLE CLAMP WITH STAINLESS STEEL 'U' BOLT & NUTS EQUAL TO ALM-DULMISON GB/EL TYPES. APPLY APPROPRIATE PROTECTION AS REQUIRED BY AS3000.

HDU PVC CONDUIT- ALTERNATIVE POSITIONS

MIN 12mm DIA. COPPER BONDED TO STEEL ELECTRODE DRIVEN TO AT LEAST 1200mm.

INSTALLATION OF EARTH ELECTRODE - AREA 2

N.T.S.

B	TENDER ISSUE	SH	CH	13.08.26
A	70% ISSUE	SH	CH	29.05.26
REV	REVISION DETAILS	BY	APP.	DATE

DESIGN BY:

ELECTRICAL PROJECTS AUSTRALIA

386 MAITLAND ROAD
MAYFIELD NSW 2304
02 4967 5999
MAIL@EPA.ENERGY

PROJECT:

GOSFORD WATERFRONT PUBLIC DOMAIN - LIGHTING DESIGN

CLIENT:

ADW JOHNSON

LOCATION:

GOSFORD

DRAWING:

AREA 2 - SINGLE LINE & CONTROL DIAGRAMS

DATE:

29.05.26

DRAWN:

SH

SCALE:

NTS@A3

DESIGN:

CH

PROJECT No.

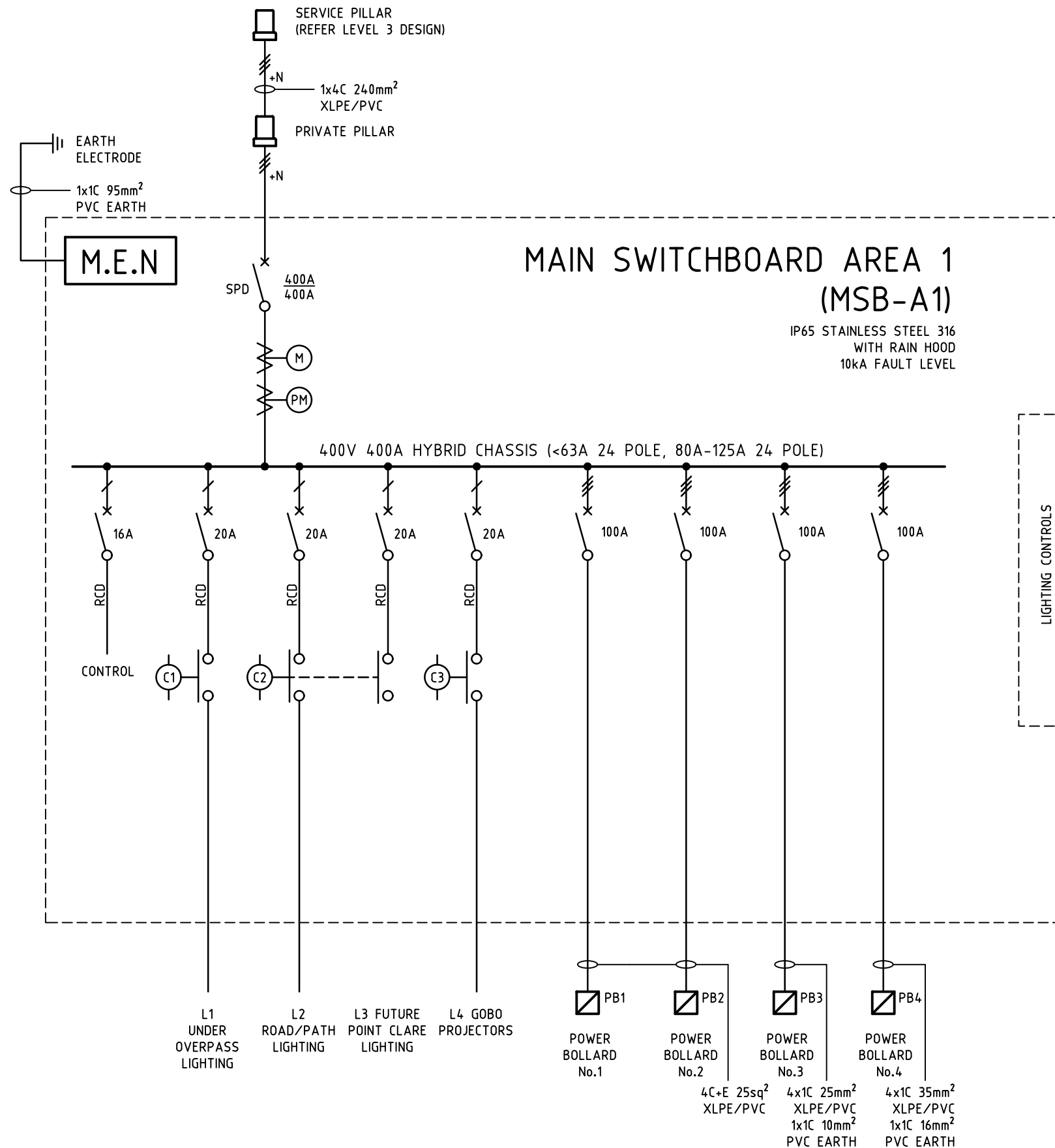
26072

DRAWING No.

E14

ISSUE:

B

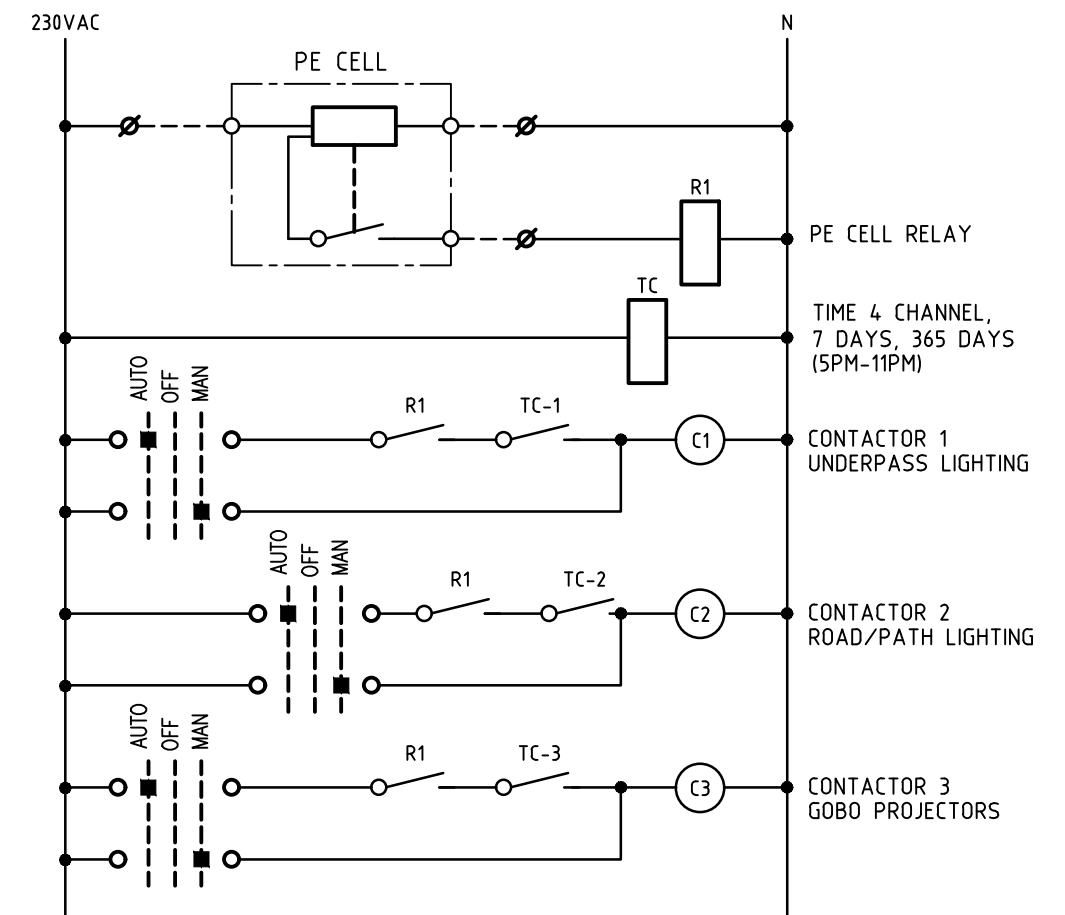


LEGEND

	CIRCUIT BREAKER (RATING SHOWN)
	CONTACTOR
	SUPPLY AUTHORITY METERING
	POWER METER
	RESIDUAL-CURRENT DEVICE
	POWER BOLLARD
	DISTRIBUTION BOARD

NOTES

- DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL ELEVATIONS/SECTIONS AND FURNITURE LAYOUTS.
- METERING TO COMPLY WITH SUPPLY AUTHORITY REQUIREMENTS.
- USE REINFORCED CASCADING AND ENHANCED DISCRIMINATION FOR CIRCUIT BREAKER SELECTIVITY SO THAT MINIATURE CIRCUIT BREAKERS 6-10kA MAY BE USED.



TYPICAL
EXTERNAL LIGHTING CONTROL
(MSB-A1)

REV	DESCRIPTION	BY	APP.	DATE
B	TENDER ISSUE	SH	CH	13.08.26
A	70% ISSUE	SH	CH	29.05.26
REV	REVISION DETAILS	BY	APP.	DATE

DESIGN BY:
ELECTRICAL PROJECTS AUSTRALIA
386 MAITLAND ROAD
MAYFIELD NSW 2304
02 4967 5999
MAIL@EPA.ENERGY

PROJECT:
GOSFORD WATERFRONT PUBLIC
DOMAIN - LIGHTING DESIGN

CLIENT:
ADW JOHNSON

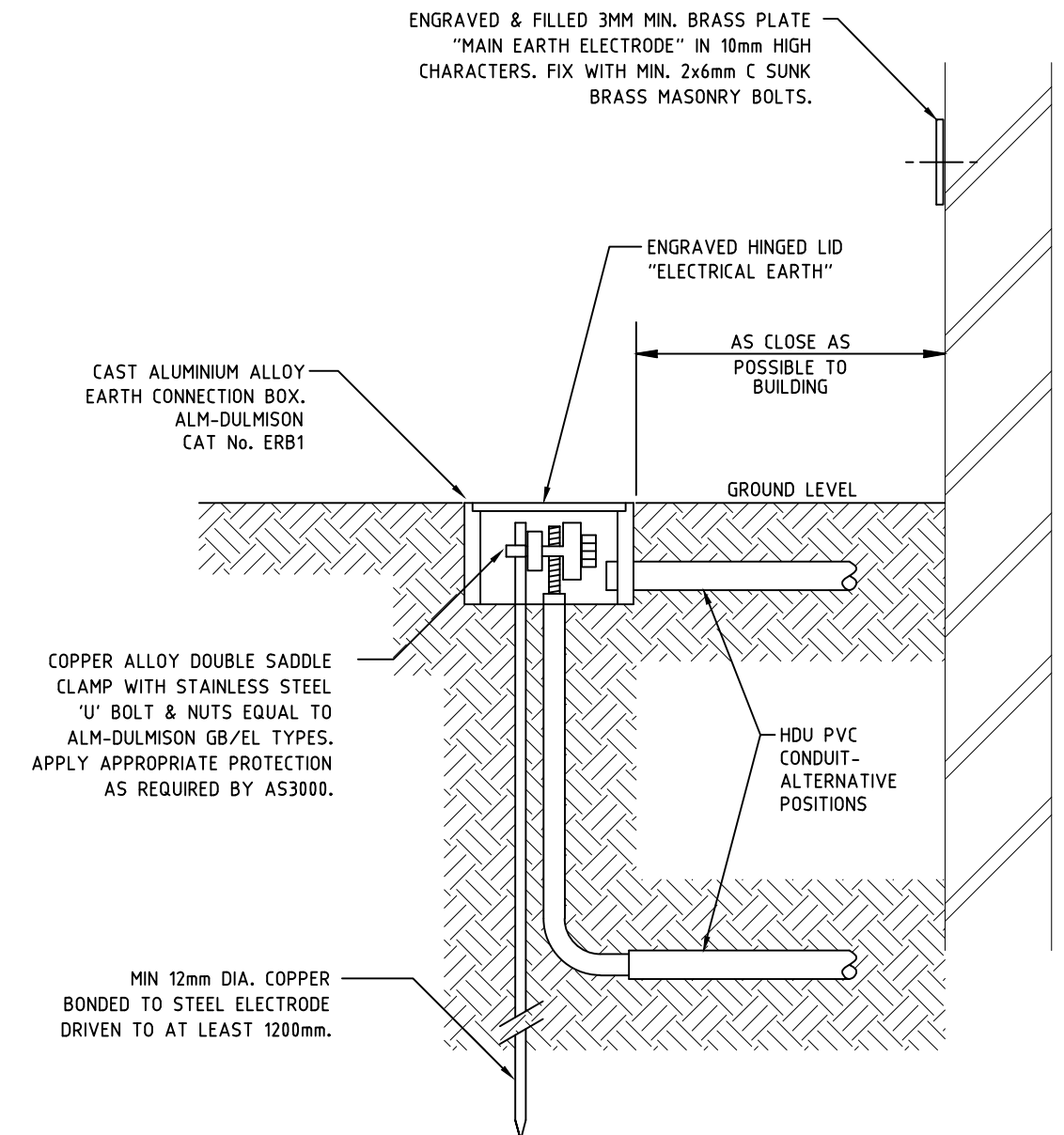
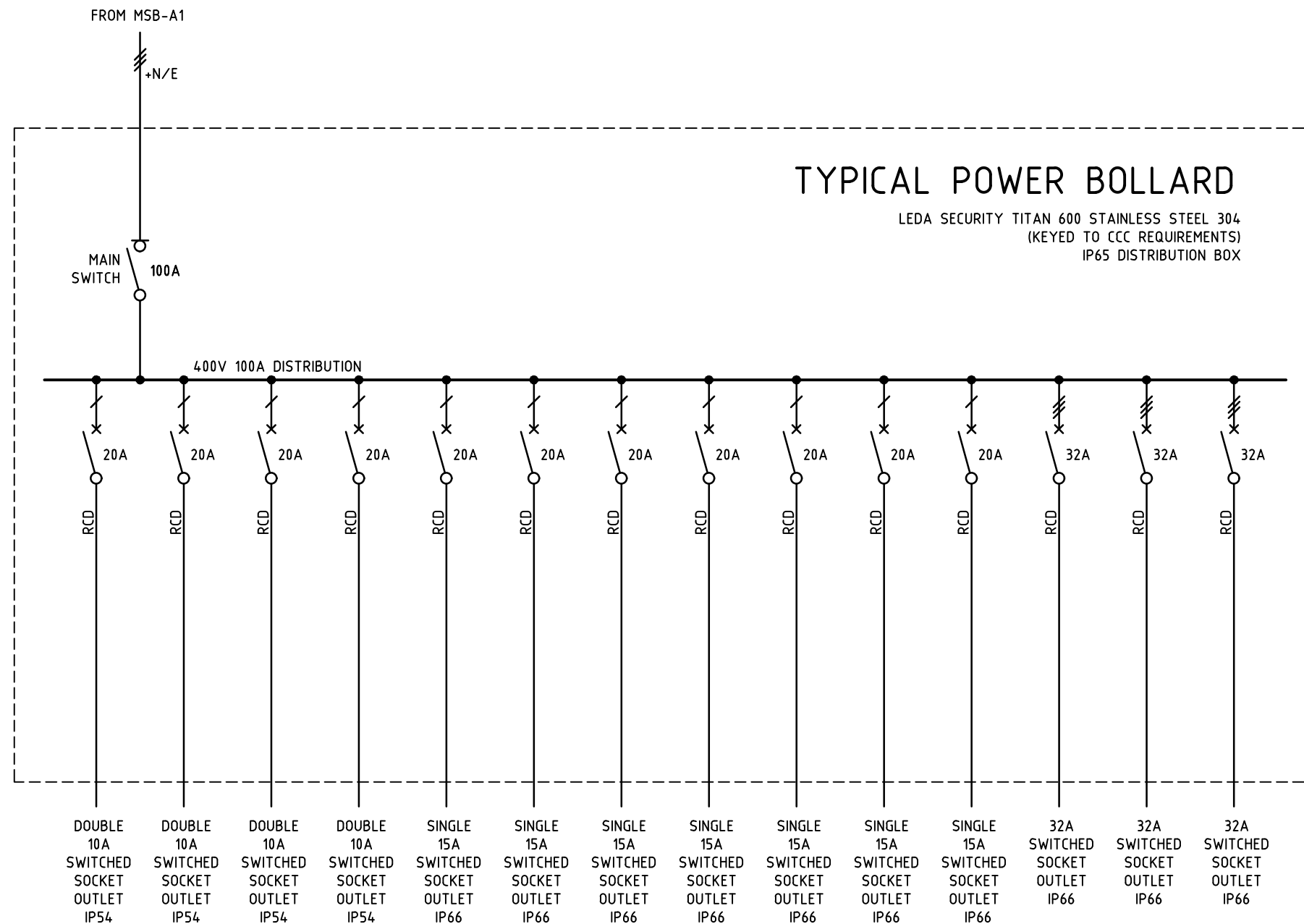
LOCATION:
GOSFORD

DRAWING:
AREA 1 - SINGLE LINE &
CONTROL DIAGRAMS

DATE: 29.05.26 DRAWN: SH
SCALE: NTS@A3 DESIGN: CH
PROJECT No. 26072 DRAWING No. E15 ISSUE: B

 CIRCUIT BREAKER (RATING SHOWN)
 MAIN SWITCH
 RESIDUAL-CURRENT DEVICE

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL ELEVATIONS/SECTIONS AND FURNITURE LAYOUTS.
2. METERING TO COMPLY WITH SUPPLY AUTHORITY REQUIREMENTS.
3. USE REINFORCED CASCADING AND ENHANCED DISCRIMINATION FOR CIRCUIT BREAKER SELECTIVITY SO THAT MINIATURE CIRCUIT BREAKERS 6-10kA MAY BE USED.



N.T.S.

B	TENDER ISSUE	SH	CH	13.08.26
A	70% ISSUE	SH	CH	29.05.26
REV	REVISION DETAILS	BY	APP.	DATE



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PROJECT:
GOSFORD WATERFRONT PUBLIC
DOMAIN - LIGHTING DESIGN

CLIENT:
ADW JOHNSON

LOCATION:
GOSFORD

DRAWING:
AREA 1 - SINGLE LINE &
CONTROL DIAGRAMS

DATE: 29.05.26 DRAWN: SH

SCALE: NTS@A3 DESIGN: CH

PROJECT No.	DRAWING No:	ISSUE:
26072	E16	B