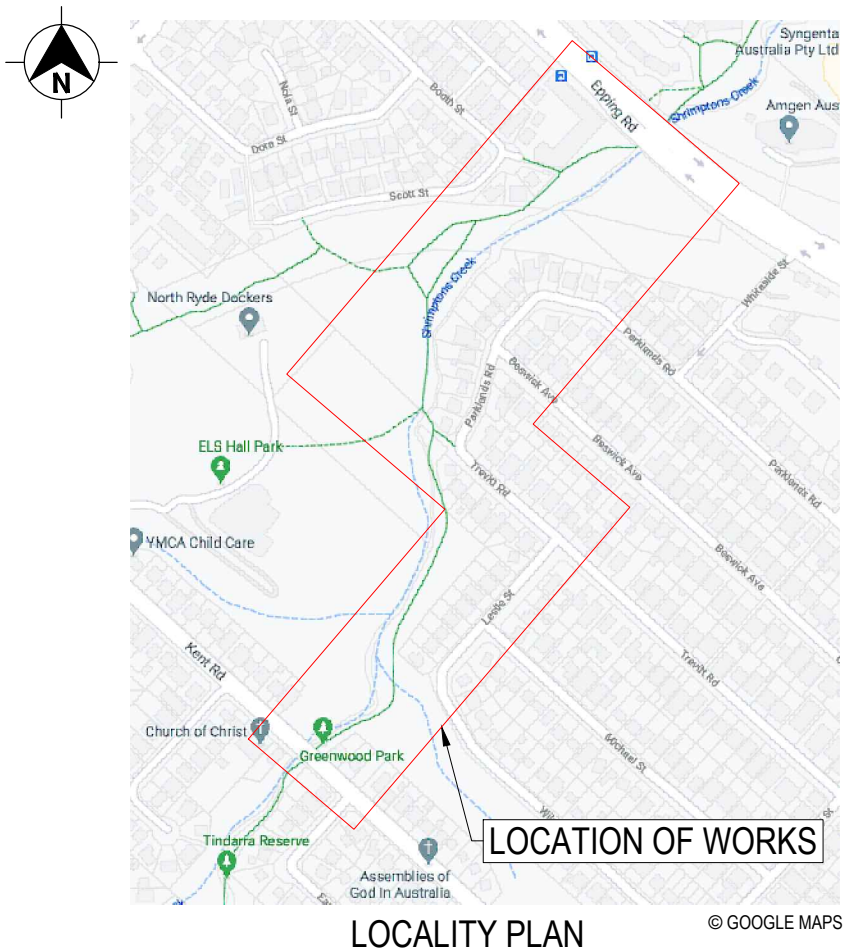


CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING



PUBLIC LIGHTING DESIGN
SHRIMPTONS CREEK
BETWEEN KENT ROAD AND EPPING ROAD
DETAILED LIGHTING DESIGN

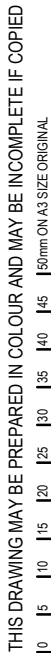


SHEET INDEX		
SHEET NUMBER	DESCRIPTION	REV
1	COVER SHEET	08
2	SITE PLAN 01	08
3	SITE PLAN 02	08
4	COLUMN & FOUNDATION DETAILS	08
5	SINGLE LINE DIAGRAM	08
6	GENERAL NOTES	08
7	GENERAL NOTES	08
8	LIGHTING CERTIFICATION - LUX DIAGRAM 01	08
9	LIGHTING CERTIFICATION - LUX DIAGRAM 02	08
10	LIGHTING CERTIFICATION - SOFTWARE OUT PUT	08
11	LIGHTING CERTIFICATION - SOFTWARE OUT PUT	08
12	LIGHTING CERTIFICATION - SOFTWARE OUT PUT	08

FOR CONSTRUCTION

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED
50mm ON A3 SIZE ORIGINAL

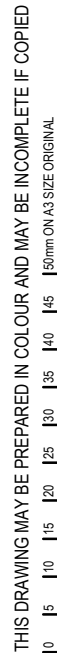
TEMPLATE VERSION YYYY/MM/DD:			PLOT DATE / TIME 19/05/2021 4:19:56 PM		PLOT BY janre		CLIENT CITY OF RYDE COUNCIL		A3
REV	DATE	AMENDMENT / REVISION DESCRIPTION	ISSUED BY	SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY		CITY OF RYDE COUNCIL	
01	17-11-20	ISSUED FOR APPROVAL	M.C.	NOT TO SCALE		ArconaTech ACN 162 670 957 ABN 13 162 670 957 info@arconatech.com.au www.arconatech.com.au PO Box 890 PO Box 78 Liverpool NSW 2170 Wollongong NSW 2520 0448.814.154		PRIVATE LIGHTING BETWEEN KENT RD AND EPPING ROAD SHRIMPTONS CREEK, NORTH RYDE COVER SHEET	
02	15-01-21	DESIGN UPDATE FOR BRIDGE CROSSING DUCTS	M.C.						
03	22-01-21	UPDATED ISOLUX PLOTS FOR DESIGN UPDATE AND BACKLIGHT SHIELDS	M.C.						
04	19-05-21	UPDATED SET OUT TABLE AND WORKS SCHEDULE	M.C.						
05	16-07-21	ADDED: DBYD INFORMATION, EXISTING TREES ALONG PATH. COLUMN AND TRENCH LOCATIONS UPDATED FROM SITE MEETING	M.C.						
06	13-08-21	ISSUE FOR TENDER	M.C.						
07	19-10-21	UPDATED LIGHTING DESIGN	M.C.						
08	08-11-21	UPDATED SCOPE OF WORKS	M.C.						
				CO-ORDINATE SYSTEM MGA ZONE 56	HEIGHT DATUM AHD			DOCUMENT No 21012C	
								ISSUE STATUS ISSUE FOR CONSTRUCTION	REV. 08
								SHEET No. 01	



SITE PLAN
SCALE 1:1000



© ArconaTech Pty Ltd



WORKS SCHEDULE			
REF. IDENTIFIER	ROUTE DISTANCE (m)	CONDUCTOR OR ASSET DETAIL	CONSTRUCTION DETAIL
C - 45	43m	4x1C 16mm² CU XLPE/PVC + 1x6mm² EARTH CABLE	LAY NEW CABLE IN CONDUIT
C - 46	60m		
45 - 47	46m		
46 - 48	61m		
47 - 49	67m		
48 - 50	62m		
49 - 51	55m		
50 - 52	54m		
51 - 53	52m		
52 - 54	53m		
53 - 55	50m		
54 - 56	54m		
55 - 57	57m		
56 - 58	48m		
57 - 59	46m		
58 - 62	49m		
57 - 64	50m		
59 - 63	51m		

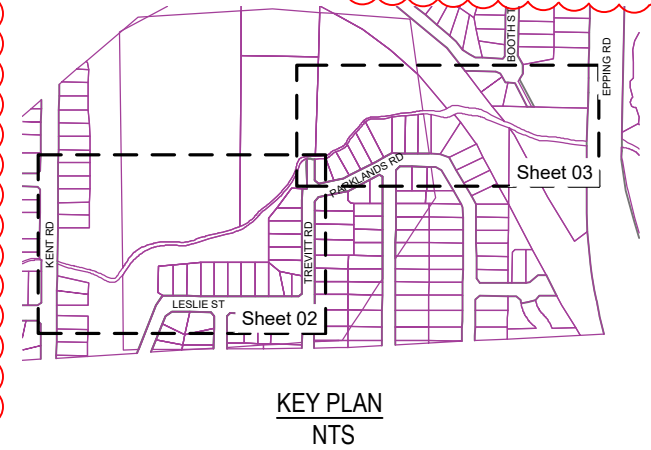
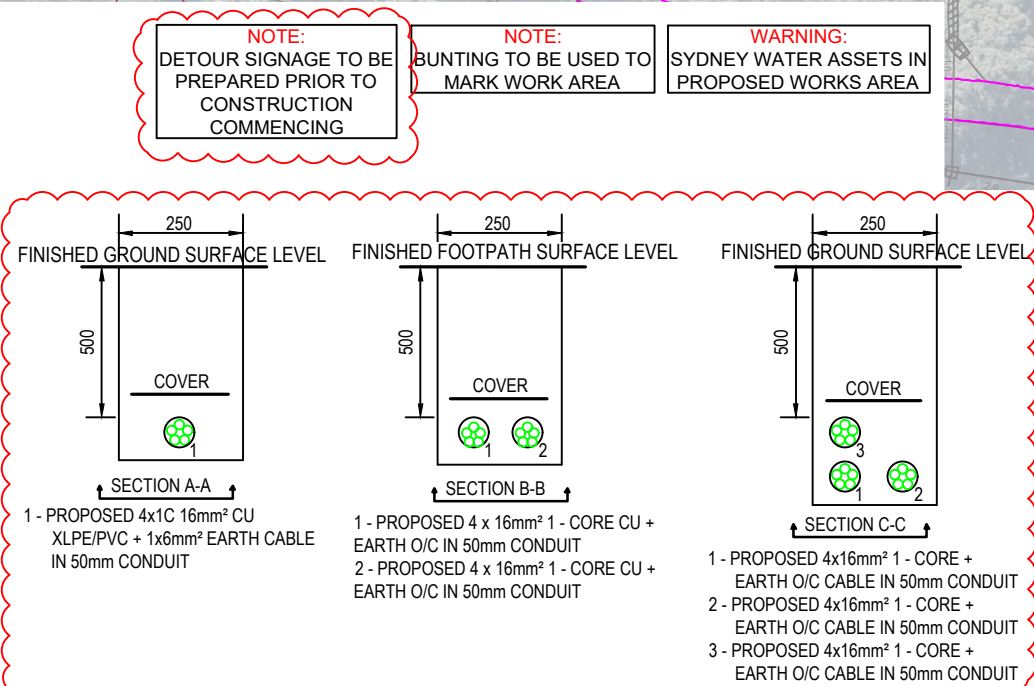
WORKS SCHEDULE			
REF. IDENTIFIER	ROUTE DISTANCE (m)	CONDUCTOR OR ASSET DETAIL	CONSTRUCTION DETAIL
C - 45	43m	4x1C 16mm² CU XLPE/PVC + 1x6mm² EARTH CABLE	LAY NEW CABLE IN CONDUIT
C - 46	60m		
45 - 47	46m		
46 - 48	61m		
47 - 49	67m		
48 - 50	62m		
49 - 51	55m		
50 - 52	54m		
51 - 53	52m		
52 - 54	53m		
53 - 55	50m		
54 - 56	54m		
55 - 57	57m		
56 - 58	48m		
57 - 59	46m		
58 - 62	49m		
57 - 64	50m		
59 - 63	51m		

-
- Diagram of a square foundation section labeled "SECTION D-D". The foundation is 250 units wide and 500 units deep. It is located below the "FINISHED GROUND SURFACE LEVEL". Inside the foundation, there are four circular piles labeled 1, 2, 3, and 4, arranged in a 2x2 grid. A horizontal line above the piles is labeled "COVER".

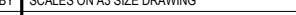
- 1 - PROPOSED 4x16mm² 1 - CORE + EARTH O/C CABLE IN 50mm CONDUIT
- 2 - PROPOSED 4x16mm² 1 - CORE + EARTH O/C CABLE IN 50mm CONDUIT
- 3 - PROPOSED 4x16mm² 1 - CORE + EARTH O/C CABLE IN 50mm CONDUIT
- 4 - PROPOSED 4x16mm² 1 - CORE + EARTH O/C CABLE IN 50mm CONDUIT

-
- 250
- FINISHED FOOTPATH SURFACE LEVEL
- 500
- COVER
- 1 2
- SECTION E-E

- 1 - PROPOSED 4x1C 16mm² CU XLPE/PVC
CABLE IN 50mm CONDUIT
2 - SPARE 50mm CONDUIT



REV	DATE	AMENDMENT / REVISION DESCRIPTION
01	17-11-20	ISSUED FOR APPROVAL
02	15-01-21	DESIGN UPDATE FOR BRIDGE CROSSING DUCTS
03	22-01-21	UPDATED ISOLUX PLOTS FOR DESIGN UPDATE AND BACKLIGHT SHIELDS
04	19-05-21	UPDATED SIGN OUT TABLE AND WORKS SCHEDULE
05	16-07-21	ADDED: DBVD INFORMATION, EXISTING TREES ALONG PATH. COLUMN AND TRENCH LOCATIONS UPDATED FROM SITE MEETING
06	13-08-21	ISSUE FOR TENDER
07	19-10-21	UPDATED LIGHTING DESIGN
08	08-11-21	UPDATED SCOPE OF WORKS

ISSUED BY	SCALES ON A3 SIZE DRAWING	
M.C.		
M.C.	SCALE BAR 1:1000	
M.C.	CO-ORDINATE SYSTEM	HEIGHT DATUM
M.C.	MGA ZONE 56	AHD
M.C.		
M.C.		

DRAWINGS / DESIGN PREPARED BY

ArconaTech 

ACN 162 670 957 **ABN** 13 162 670 957


E info@arconatech.com.au

W www.arconatech.com.au

M PO Box 890 PO Box 78

P Liverpool NSW 2170 Wollongong NSW 2520

0449.84.164

CLIENT	 City of Ryde
PREPARED FOR	CITY OF RYDE COUNCIL

CITY OF RYDE COUNCIL		A3
PRIVATE LIGHTING BETWEEN KENT RD AND EPPING ROAD SHRIMPTONS CREEK, NORTH RYDE SITE PLAN		
DOCUMENT No. 21012C		
ISSUE STATUS ISSUE FOR CONSTRUCTION	SHEET No. 03	ISSUE No. 08

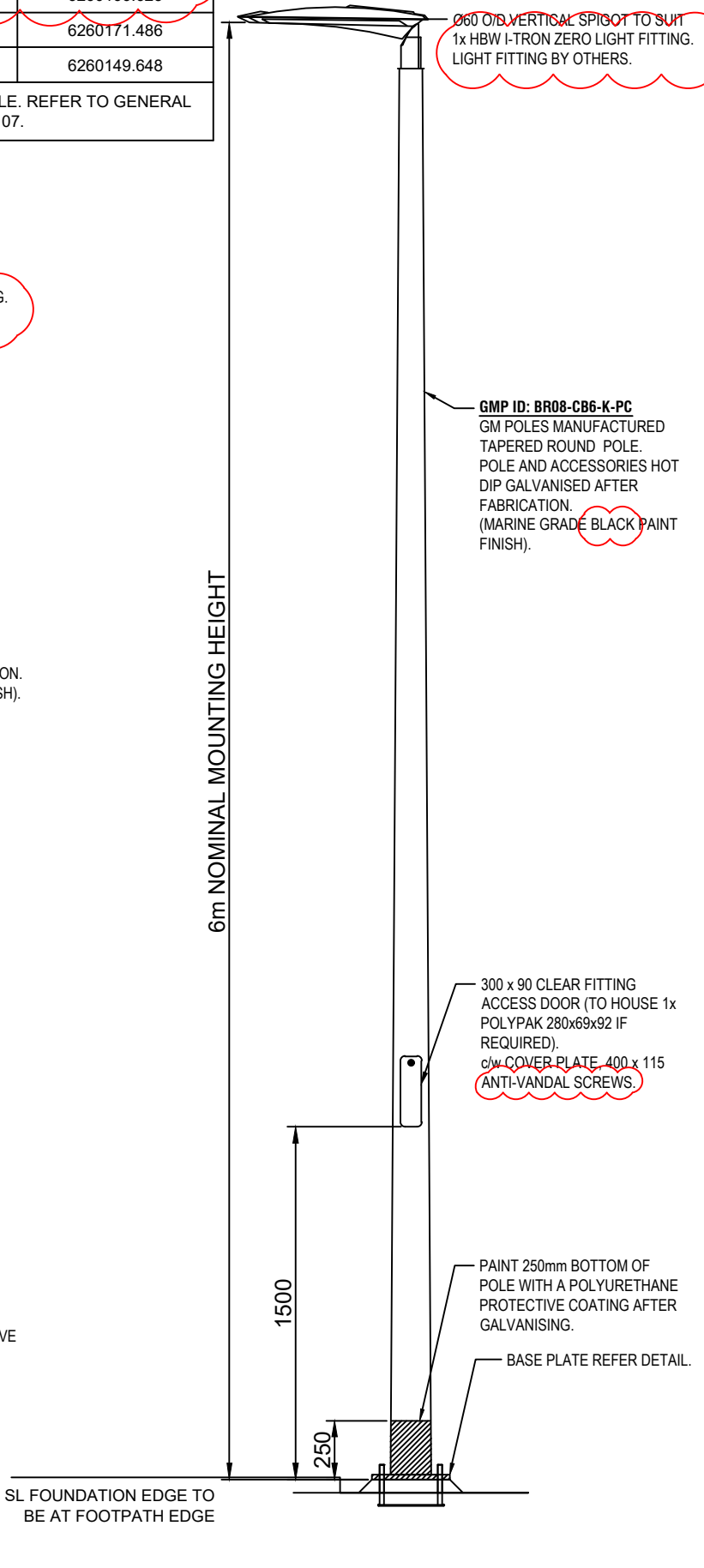
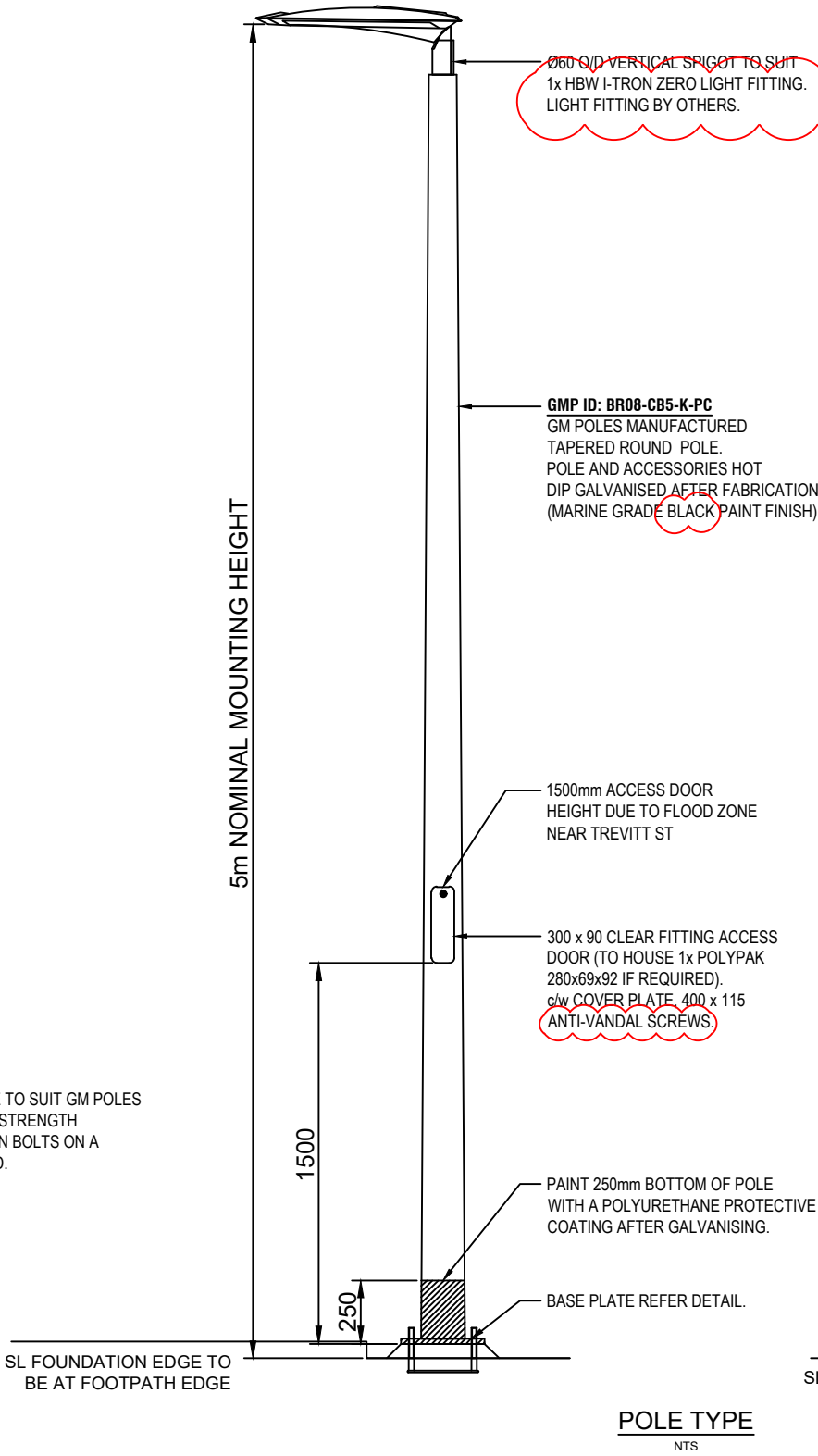
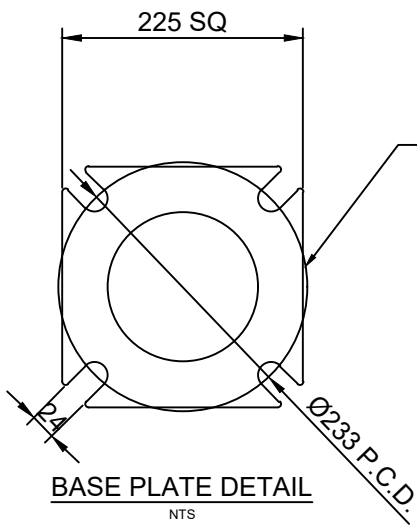
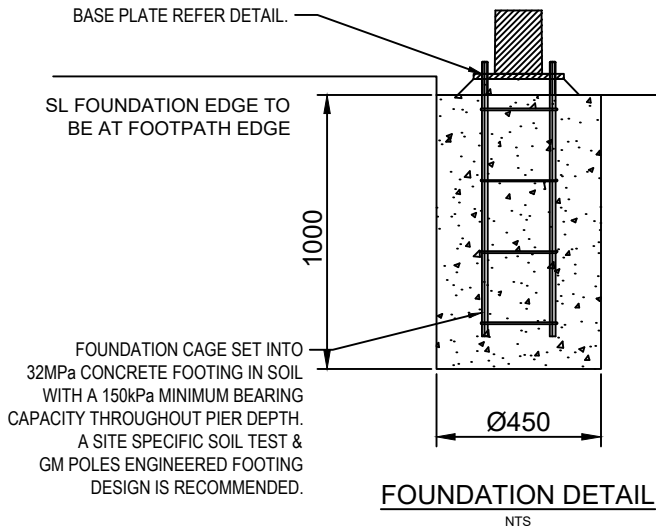
© ArconaTech Pty L

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

50mm ON A3 SIZE ORIGINAL

STREETLIGHT WORKS SCHEDULE					
REF. ID	CIRCUIT PHASE	CONDUCTOR OR ASSET DETAIL	CONSTRUCTION DETAIL	SET OUT TABLE FOR POLE LOCATION (CO-ORDINATES ARE AT CENTER OF THE POLE)	
				EASTING	NORTHING
29	C1/Bφ	1 x 5m GM Pole	INSTALL GM POLE ACCORDING TO SITE PLAN AND COORDINATE TABLE	325354.297	6259612.809
30	C2/Bφ			325370.466	6259622.168
31	C1/Aφ			325392.076	6259631.752
32	C2/Aφ	1 x 6m GM Pole	INSTALL GM POLE ACCORDING TO SITE PLAN AND COORDINATE TABLE	325408.786	6259643.902
33	C1/Cφ			325430.047	6259666.712
34	C2/Cφ			325418.579	6259683.100
35	C1/Bφ	1 x 5m GM Pole	INSTALL GM POLE ACCORDING TO SITE PLAN AND COORDINATE TABLE	325406.623	6259696.679
36	C2/Bφ			325412.144	6259717.986
37	C1/Aφ			325425.993	6259738.700
38	C2/Aφ			325440.089	6259759.559
39	C1/Cφ			325446.106	6259783.885
40	C2/Cφ			325453.332	6259806.414
41	C1/Bφ			325451.462	6259830.500
42	C2/Bφ			325443.468	6259852.701
43	C1/Aφ			325435.841	6259875.427
44	C1/Aφ			325440.092	6259899.805
45	C3/Aφ			325430.916	6259917.730
46	C4/Aφ			325431.564	6259931.410
47	C3/Bφ			325435.597	6259950.207
48	C4/Bφ			325431.781	6259971.469
49	C3/Cφ			325426.135	6259995.233
50	C4/Cφ			325433.130	6260018.928
51	C3/Aφ			325441.574	6260039.510
52	C4/Aφ			325452.226	6260061.635
53	C3/Bφ			325467.591	6260080.808
54	C4/Bφ			325481.156	6260100.448
55	C3/Cφ			325500.576	6260104.122
56	C4/Cφ			325523.574	6260109.950
57	C3/Aφ			325540.044	6260127.871
58	C4/Aφ			325553.181	6260143.513

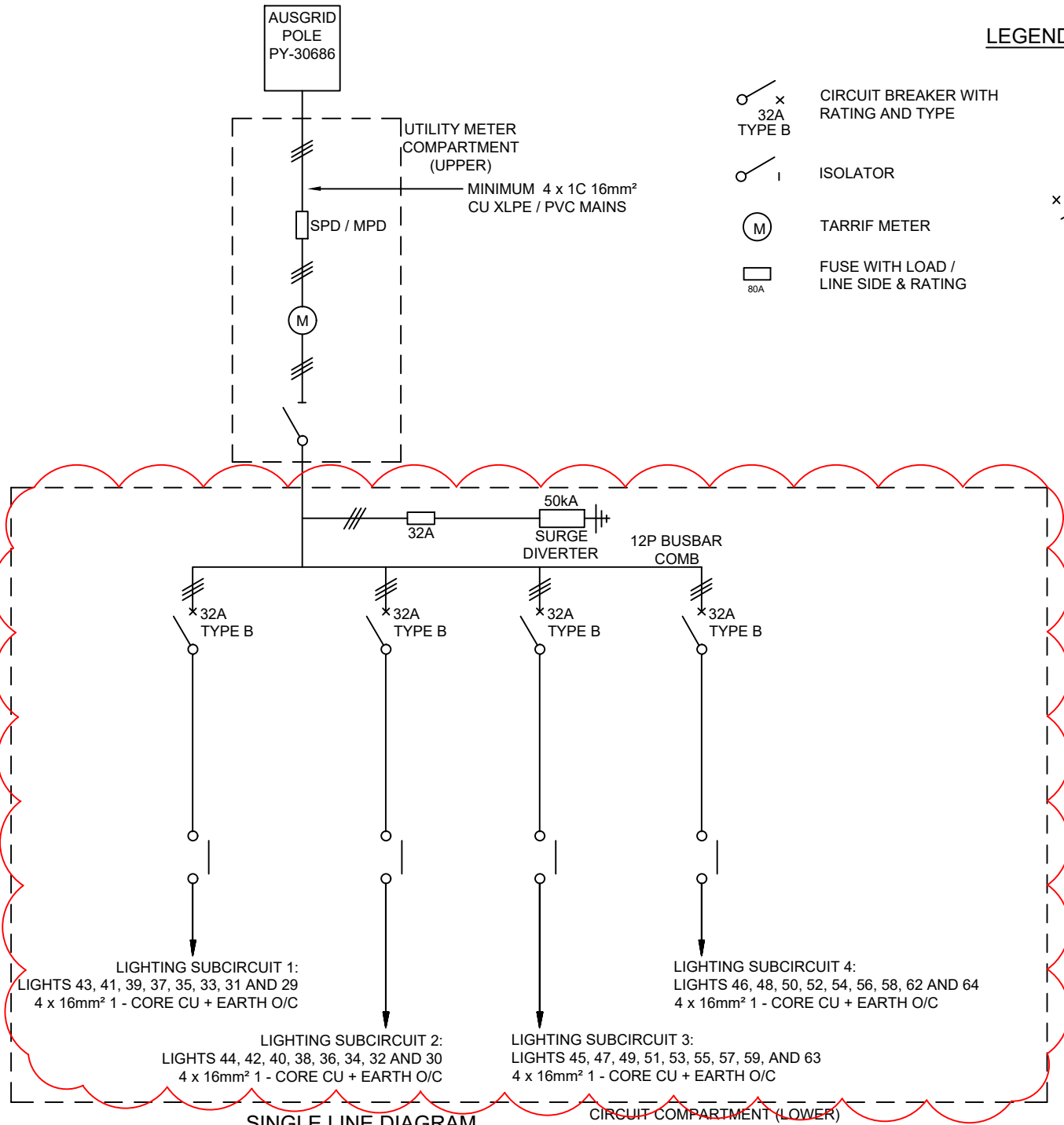
59	C3/Bφ	1 x 5m GM Pole	INSTALL GM POLE ACCORDING TO SITE PLAN AND COORDINATE TABLE	325568.851	6260156.144
62	C4/Bφ			325589.747	6260166.623
63	C3/Cφ			325613.357	6260171.486
64	C3/Bφ			325529.817	6260149.648
POLE LOCATIONS TO BE SET OUT IN ACCORDANCE WITH THE COORDINATES IN THIS SET OUT TABLE. REFER TO GENERAL NOTE 16 ON SHEET 06. REFER TO LIGHT AND FOUNDATION NOTE 2 ON SHEET 07.					



TEMPLATE VERSION YYYYMM/DD:						PLOT DATE / TIME 19/05/2021 4:19:56 PM			PLOT BY janre		CLIENT CITY OF RYDE COUNCIL		CITY OF RYDE COUNCIL		A3										
REV	DATE	AMENDMENT / REVISION DESCRIPTION	ISSUED BY	SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY			TITLE	NAME	DATE			PRIVATE LIGHTING BETWEEN KENT RD AND EPPING ROAD SHRIMPTONS CREEK, NORTH RYDE COLUMN & FOUNDATION DETAILS		DOCUMENT No. 21012C		CITY OF RYDE COUNCIL		ISSUE STATUS ISSUE FOR CONSTRUCTION		SHEET No. 04		ISSUE No. 08	
01	17-11-20	ISSUED FOR APPROVAL	M.C.	NOT TO SCALE		 ACN 162 670 957 ABN 13 162 670 957 E info@arconatech.com.au W www.arconatech.com.au M PO Box 890 PO Box 78 P Liverpool NSW 2170 Wollongong NSW 2520 0448 814 154			DRAWN	J. DOMINGUEZ	19.05.2021														
02	15-01-21	DESIGN UPDATE FOR BRIDGE CROSSING DUCTS	M.C.						DESIGN	S. TIEU	19.05.2021														
03	22-01-21	UPDATED ISOLUX PLOTS FOR DESIGN UPDATE AND BACKLIGHT SHIELDS	M.C.						CHECKED	M. CHEN	19.05.2021														
04	19-05-21	UPDATED SET OUT TABLE AND WORKS SCHEDULE	M.C.																						
05	16-07-21	ADDED: DBYD INFORMATION, EXISTING TREES ALONG PATH. COLUMN AND TRENCH LOCATIONS UPDATED FROM SITE MEETING	M.C.	CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD																			
06	13-08-21	ISSUE FOR TENDER	M.C.																						
07	19-10-21	UPDATED LIGHTING DESIGN	M.C.																						
08	08-11-21	UPDATED SCOPE OF WORKS	M.C.																						

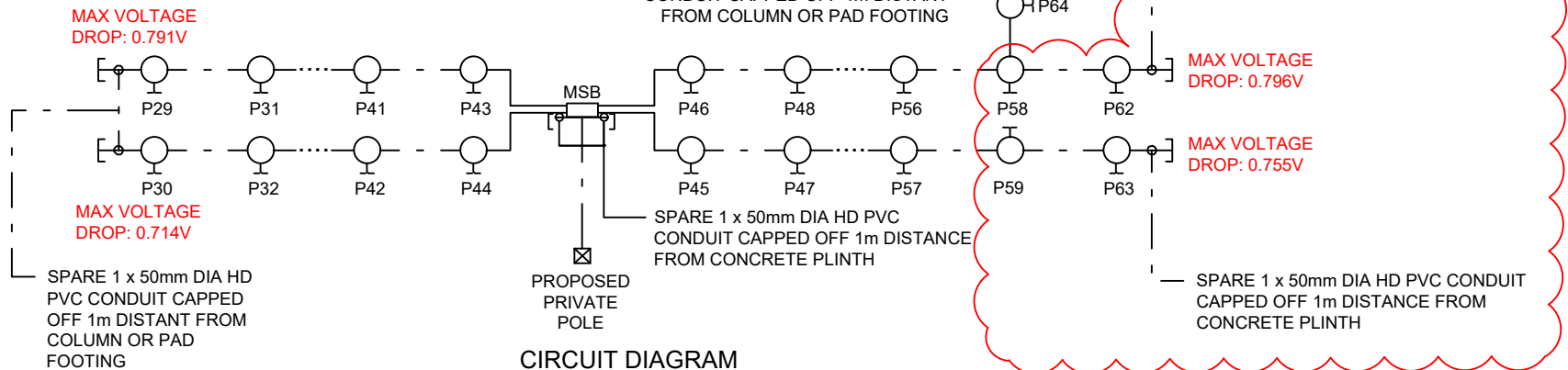
THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

50mm ON A3 SIZE ORIGINAL



SINGLE LINE DIAGRAM
NOT TO SCALE

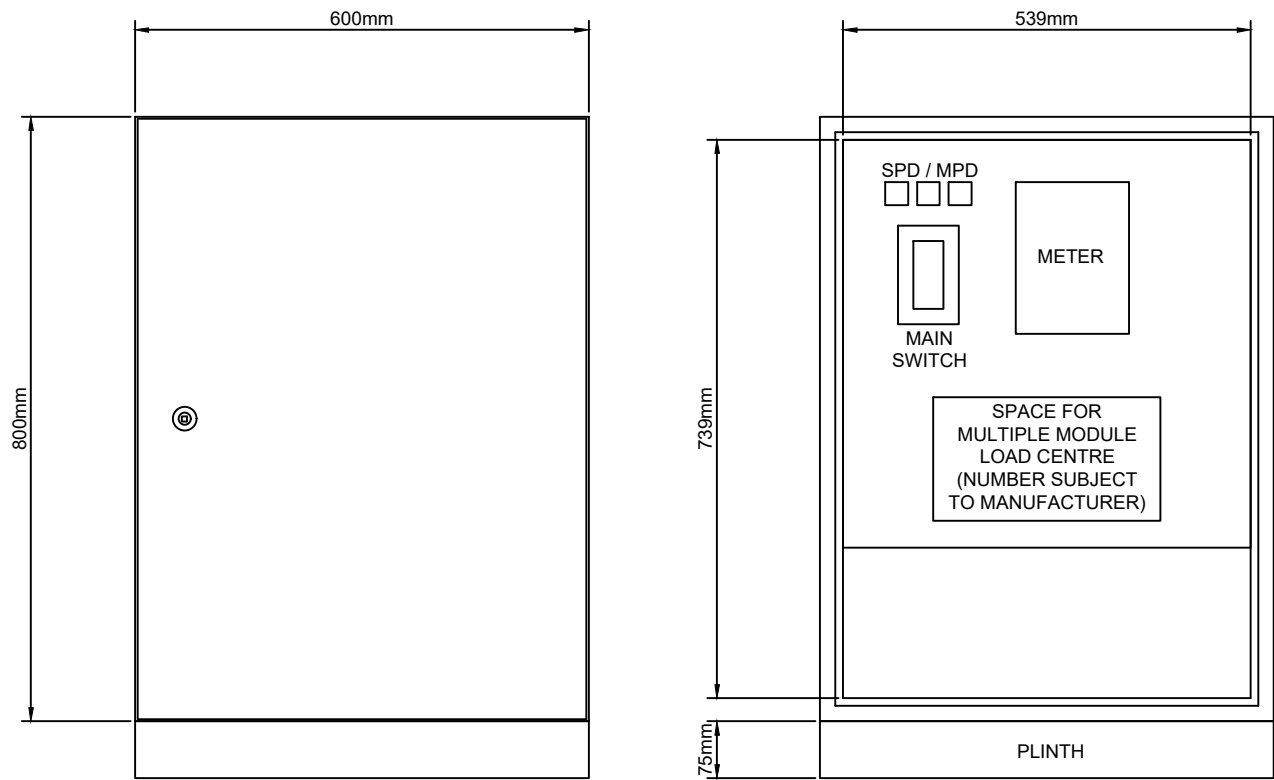
CIRCUIT COMPARTMENT (LOWER)



CIRCUIT DIAGRAM
NOT TO SCALE

LEGEND

- x 32A TYPE B CIRCUIT BREAKER WITH RATING AND TYPE
- ISOLATOR
- TARRIF METER
- FUSE WITH LOAD / LINE SIDE & RATING
- THREE PHASE
- SINGLE PHASE
- RCD



SWITCHBOARD DETAIL
NOT TO SCALE

B & R ENCLOSURE SPECIFICATIONS	
Enclosure	IP29214/S
Gal Plinth	IPPC214
Double Hinged Panel	IPHP2421 (Partial Height)
Tamper Proof Screws	IPTP0616/S
SS Swing Handle	IP060S

TEMPLATE VERSION YYYY/MM/DD:							PLOT DATE / TIME 19/05/2021 4:19:56 PM			PLOT BY janre		CLIENT CITY OF RYDE COUNCIL		CITY OF RYDE COUNCIL			A3
REV	DATE	AMENDMENT / REVISION DESCRIPTION	ISSUED BY	SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY		TITLE	NAME	DATE			PRIVATE LIGHTING BETWEEN KENT RD AND EPPING ROAD SHRIMPTONS CREEK, NORTH RYDE SINGLE LINE DIAGRAM				
01	17-11-20	ISSUED FOR APPROVAL	M.C.	NOT TO SCALE		 ACN 162 670 957 ABN 13 162 670 957 info@arconatech.com.au www.arconatech.com.au PO Box 890 PO Box 78 Liverpool NSW 2170 Wollongong NSW 2520 0448 814 154		DRAWN	J. DOMINGUEZ	19.05.2021							
02	15-01-21	DESIGN UPDATE FOR BRIDGE CROSSING DUCTS	M.C.					DESIGN	S. TIEU	19.05.2021							
03	22-01-21	UPDATED ISOLUX PLOTS FOR DESIGN UPDATE AND BACKLIGHT SHIELDS	M.C.					CHECKED	M. CHEN	19.05.2021							
04	19-05-21	UPDATED SET OUT TABLE AND WORKS SCHEDULE	M.C.					CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD							PREPARED FOR CITY OF RYDE COUNCIL
05	16-07-21	ADDED: DBYD INFORMATION, EXISTING TREES ALONG PATH. COLUMN AND TRENCH LOCATIONS UPDATED FROM SITE MEETING	M.C.														
06	13-08-21	ISSUE FOR TENDER	M.C.														
07	19-10-21	UPDATED LIGHTING DESIGN	M.C.									DOCUMENT No 21012C					
08	08-11-21	UPDATED SCOPE OF WORKS	M.C.									ISSUE STATUS ISSUE FOR CONSTRUCTION		SHEET No. 05		ISSUE 08	

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

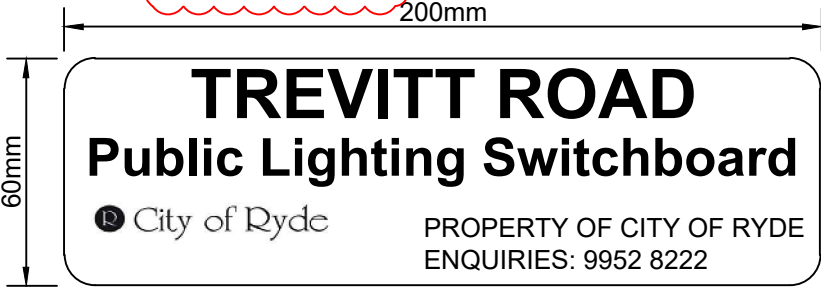
0 5 10 15 20 25 30 35 40 45 50mm ON A3 SIZE ORIGINAL

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR IS TO VISIT SITE PRIOR TO PRICING TO SATISFY THEMSELVES OF THE SCOPE OF WORKS.
2. PLANS HAVE BEEN PREPARED BASED ON SITE INVESTIGATION. DETAILED SURVEY HAS NOT BEEN UNDERTAKEN.
3. UPON COMPLETION OF THE WORKS, THE CONTRACTOR IS TO SUPPLY COUNCIL WITH A COPY OF THE WORKS AS EXECUTED (WAE) DRAWINGS. IN PROGRESS WAE DRAWINGS MAY ALSO BE REQUESTED FROM TIME TO TIME BY RYDE COUNCIL FOR CO-ORDINATION PURPOSES.
4. ALL REMOVED & REDUNDANT MATERIALS TO BE APPROPRIATELY DISPOSED OF BY THE CONTRACTOR.
5. WHILE NO RECORDS EXIST TO THE CONTRARY, THE CONTRACTOR SHALL ENSURE APPROPRIATE WORKPLACE SAFETY MEASURES ARE UTILISED IN REGARDS TO WORKING WITH ASBESTOS AND/OR ASBESTOS CONTAINING MATERIALS.
6. ALL WORK IS TO BE COMPLETED IN A PROFESSIONAL AND TRADESMAN LIKE QUALITY.
7. ELECTRICAL AUTHORITY IS AUSGRID.
8. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT REVISIONS OF THE BCA/NCC, AS/NZS 3000, AS/ACIF S009, NSW SERVICE AND INSTALLATION RULES, AUSTRALIAN STANDARDS.
9. THE CONTRACTOR SHALL UNDERTAKE A "DIAL BEFORE YOU DIG" SEARCH FOR EXISTING IN-GROUND SERVICES NO MORE THAN 20 BUSINESS DAYS PRIOR TO EXCAVATION ON SITE. ANY DAMAGE TO EXISTING IN-GROUND SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
10. THE EXISTING SERVICES SHOWN IN THE DRAWING PACKAGE HAVE BEEN DOCUMENTED FROM THE SUPPLIED DATA BY THE COUNCIL. ARCONATECH DOES NOT GUARANTEE OR TAKE RESPONSIBILITY OF THE ACCURACY OF THIS INFORMATION.
11. DESIGNER IS TO BE CONTACTED REGARDING ISSUES RAISED WITH THIS DESIGN.
12. THE DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
13. THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, INCLUDING AUSGRID'S NETWORK, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCED BY CONTACTING DIAL-BEFORE-YOU-DIG BY TELEPHONE ON 1100 OR www.1100.com.au
14. FOR DETAILS PLEASE REFER TO CITY OF RYDE DESIGN GUIDE, COUNCIL-OWNED STREET LIGHTING.
15. THE CONTRACTOR TO DISCUSS WITH COUNCIL'S MAINTENANCE CONTRACTOR BEFORE INSTALLATION.
16. ALL CO-ORDINATES PROVIDED ON THIS DESIGN ARE BASED ON AUSGRID'S GIS WHICH IS BASED ON DATA FROM THE LPI. EXACT CO-ORDINATES TO BE CONFIRMED WITH THE CIVIL DRAWINGS AND SITE SURVEY. CADASTRAL SURVEYS MAY BE REQUIRED TO CONFIRM EXACT ASSET LOCATIONS.
17. INCLUDED SERVICE PLANS ARE QL-D. INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION BASED ON EXISTING DIAL-BEFORE-YOU DIG PLANS.

TRENCHING & CABLING

1. ELECTRICAL CONTRACTOR SHALL SAW CUT & EXCAVATE THE EXISTING SURFACE TO INSTALL NEW POLE LUMINAIRES. REINSTATE TRENCH WITH APPROPRIATE BACK FILL & COMPACTION, INCLUDING FINISHING OF TRENCH WITH COLD MIX ASPHALT OR TO MATCH WITH EXISTING FINISH. ALLOW FOR SLIGHT OVER FILL TO AVOID SAGGING. ALLOW FOR THESE WORKS TO BE UNDERTAKEN TO AVOID DISRUPTION DURING NORMAL WORKING DAYS/HOURS.
2. STREET LIGHT MAINS TO HAVE 500mm COVER IN FOOTWAY, 750mm IN ROADWAY.
3. CONTRACTOR TO LIAISE WITH COUNCIL AND AUTHORITIES ON THE UNDERGROUNDING PLACEMENT OF ELECTRICAL CONDUIT.
4. ALL CONDUITS MUST COMPLY WITH RELEVANT SECTIONS OF AS/NZS 2053 AND COUNCIL REQUIREMENT.
5. ALL THE CABLE LAYING TO BE RECORDED IN COMPLIANCE WITH AS/NZS 3000.
6. RADIUS OF BEND OF CABLE TO COMPLY WITH CABLE MANUFACTURE AND COUNCIL REQUIREMENTS.
7. IF ANY EXCAVATION OR U/G WORKS ARE TO BE DONE ALL SURFACES MUST RESTORED TO ORIGINAL STATE UPON COMPLETION OF THE PROJECT.
8. LOCATION OF CONDUITS ON FOOTPATH IS AS PER COUNCIL REQUIREMENT.
9. CONTRACTOR TO LOCATE COMMS CONDUITS AS PER AUSTRALIAN STANDARD AND CITY OF RYDE COUNCIL'S REQUIREMENT.
10. ANY TRENCHING WITHIN 3m OF TREES WILL NEED SITE LIAISON WITH COUNCIL'S TREE MANAGEMENT OFFICERS BEFORE ANY WORKS COMMENCES.
11. TRENCHING ROUTE AND COLUMN LOCATIONS HAS BEEN DETERMINED WITH MULTIPLE SITE WALKS WITH COUNCIL, ARBORIST, AND IN CONJUNCTION OF COMMUNITY CONSULTATIONS.
12. CONTRACTOR TO CONTACT RYDE COUNCIL REGARDING ATTACHMENT METHODOLOGY TO EXISTING STRUCTURAL WALKWAYS.
13. WHERE EXISTING FOOTPATH TRENCHING IS REQUIRED, FOOTPATH TO BE RE-MADE TO RYDE COUNCIL STANDARD CONCRETE FOOTPATH (CIV.5.1)



STREET NAME (13mm)

ASSET LABEL (13mm)

COUNCIL LOGO (10mm)
AND CONTACT &
NUMBER (5mm)

ASSET HANDOVER

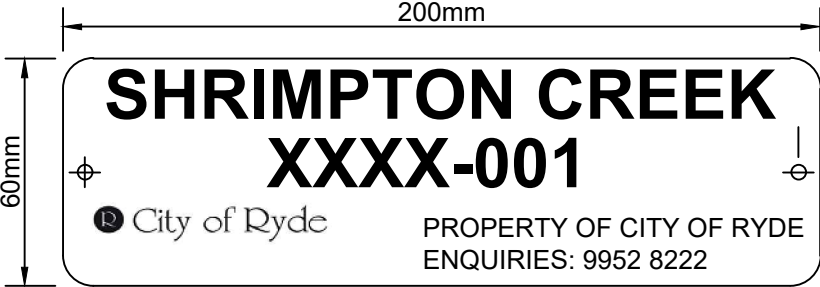
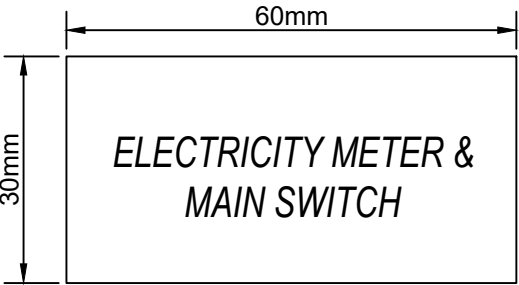
THE FOLLOWING SHALL BE PROVIDED TO COUNCIL PRIOR TO THE HANDOVER OF THE STREET LIGHTING INSTALLATION AND TRANSFER OF ENERGY ACCOUNT FROM THE DEVELOPER TO COUNCIL:

1. CERTIFICATION FROM A CHARTERED STRUCTURAL ENGINEER (REGISTERED ON THE NER OF ENGINEERS, AUSTRALIA) CONFIRMING THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH COUNCIL-APPROVED DRAWINGS AND CITY OF RYDE'S STANDARDS AND SPECIFICATIONS. THE CERTIFICATE SHALL CONTAIN PHOTOGRAPHS OF THE WORKS IN PROGRESS AND A COMMENTARY OF THE INSPECTED WORKS, INCLUDING ANY DEFICIENCIES AND RECTIFICATIONS THAT WERE UNDERTAKEN;
2. WORKS AS EXECUTED DRAWINGS;
3. A SET OF ACCESS KEYS;
4. MANUFACTURER'S WARRANTIES AND CERTIFICATES;
5. ASSET TAGS ON POLES AND METER BOX AS PER COUNCIL REQUIREMENTS;
6. METER INFORMATION (NMI FROM AUSGRID) AND RELEVANT DETAILS FOR THE TRANSFER OF THE ENERGY ACCOUNT TO COUNCIL NEEDS TO BE COMPLETED ON CCEW.

NOTE: A FINAL INSPECTION FOR THE PURPOSE OF THE HANDOVER TO COUNCIL SHALL BE CONDUCTED IN CONJUNCTION WITH COUNCIL'S ENGINEER, FOLLOWING THE COMPLETION OF THE WORKS. ADDITIONAL INSPECTIONS, IF REQUIRED, ARE SUBJECT TO ADDITIONAL FEES PAYABLE IN ACCORDANCE WITH COUNCIL'S CURRENT SCHEDULE OF FEES AND CHARGES.

PUBLIC LIGHTING SWITCHBOARD TAG SPECIFICATION

1. THE SIZE OF THE PLATE SHALL BE 200mm (LENGTH) X 60mm (HEIGHT).
2. THE TEXT SIZE FOR THE STREET NAME AND FOR "PUBLIC LIGHTING SWITCHBOARD" IS TO BE 13mm TALL AND THE TEXT SIZE FOR "PROPERTY OF CITY OF RYDE, ENQUIRIES: 9952 822" IS TO BE 5mm. THE "CITY OF RYDE LOGO" IS TO BE 10mm TALL.
3. THE PLATE IS TO HAVE A SILVER (STAINLESS STEEL) BACKGROUND WITH BLACK TEXT AND LOGO PRINT.
4. THE LOGO AND TEXT ARE NOT TO BE STICKER LETTERING.
5. THE MATERIAL OF THE PLATE AND THE ADHESIVE BACKING SHALL COMPLY WITH THE REQUIREMENTS OF THE DISTRIBUTION BOARD (GENERALLY STAINLESS STEEL).
6. THE STREET NAME SHALL BE PRINTED WITHOUT ANY ABBREVIATIONS. IF THE STREET NAME IS TOO LONG IT CAN BE PRINTED IN TWO LINES.
7. "PUBLIC LIGHTING SWITCHBOARD" IS TO BE PRINTED IN THE CENTRE OF THE TAG.
8. THE TAG BELOW WITH DIMENSIONS 60mm (LENGTH) X 30mm (HEIGHT) WITH "ELECTRICITY METER & MAIN SWITCH" IS TO BE PLACED ON THE DOOR WITH THE METER WITHIN (THERE MAY BE TWO SEPARATE DOORS - ONE FOR THE METER AND THE OTHER FOR THE DISTRIBUTION BOARD).



STREET NAME (13mm)

ASSET LABEL (13mm)

COUNCIL LOGO (10mm)
AND CONTACT
NUMBER (5mm)

LIGHTING POLE TAG SPECIFICATION

GENERAL:

1. THE SIZE OF THE PLATE SHALL BE 200mm (LENGTH MEASURED ALONG THE CURVATURE OF THE POLE) x 60mm (HEIGHT).
2. THE PLATE IS TO HAVE A SILVER (ALUMINIUM) BACKGROUND WITH BLACK TEXT AND LOGO PRINT.
3. THE LOGO AND TEXT ARE NOT TO BE STICKER LETTERING.
4. THE PLATE SHALL BE CURVED TO SUITE THE CURVATURE OF THE POLE.
5. THE MATERIAL OF THE PLATE AND RIVETS SHALL COMPLY WITH THE REQUIREMENTS OF THE POLE MANUFACTURER (GENERALLY ANODISED ALUMINIUM).
6. THE STREET NAME SHALL BE PRINTED WITHOUT ANY ABBREVIATIONS. IF THE STREET NAME IS TOO LONG, IT CAN BE PRINTED IN TWO LINES.
7. THE TEXT SIZE FOR THE STREET NAME AND FOR "POLE/ASSET NUMBER" IS TO BE 13mm TALL. THE TEXT SIZE FOR "PROPERTY OF CITY OF RYDE AND ENQUIRIES: 9952 8222" IS TO BE 5mm.
8. THE "CITY OF RYDE LOGO" IS TO BE 10mm TALL.
9. THE ASSET INDEX IS COMPILED VIA THE FOLLOWING RULES:
STREET LIGHTS
ASSET INDEX (STREET INDEX - 000) IS MADE UP BY COMBINING THE FOLLOWING TWO:
1. STREET INDEX - IS A FOUR-DIGIT NUMBER GIVEN TO EACH STREET BY COUNCIL'S ASSET SYSTEMS DEPARTMENT.
2. 000 - A THREE-DIGIT SEQUENTIAL NUMBER PROVIDED BY COUNCIL'S ASSET SYSTEMS DEPARTMENT.

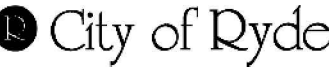
TEMPLATE VERSION YYYY/MM/DD:

REV	DATE	AMENDMENT / REVISION DESCRIPTION
01	17-11-20	ISSUED FOR APPROVAL
02	15-01-21	DESIGN UPDATE FOR BRIDGE CROSSING DUCTS
03	22-01-21	UPDATED ISOLUX PLOTS FOR DESIGN UPDATE AND BACKLIGHT SHIELDS
04	19-05-21	UPDATED SET OUT TABLE AND WORKS SCHEDULE
05	16-07-21	ADDED: DBYD INFORMATION, EXISTING TREES ALONG PATH. COLUMN AND TRENCH LOCATIONS UPDATED FROM SITE MEETING
06	13-08-21	ISSUE FOR TENDER
07	19-10-21	UPDATED LIGHTING DESIGN
08	08-11-21	UPDATED SCOPE OF WORKS

ISSUED BY	SCALES ON A3 SIZE DRAWING
M.C. M.C. M.C. M.C. M.C. M.C. M.C. M.C.	NOT TO SCALE
CO-ORDINATE SYSTEM	HEIGHT DATUM
MGA ZONE 56	AHD

DRAWINGS / DESIGN PREPARED BY
ArconaTech
ACN 162 670 957 ABN 13 162 670 957
E info@arconatech.com.au
W www.arconatech.com.au
M PO Box 890 PO Box 78
P Liverpool NSW 2170 Wollongong NSW 2520
0448.814.154

TITLE	NAME	DATE
DRAWN	J. DOMINGUEZ	19.05.2021
DESIGN	S. TIEU	19.05.2021
CHECKED	M. CHEN	19.05.2021

CLIENT

PREPARED FOR
CITY OF RYDE COUNCIL

PRIVATE LIGHTING BETWEEN KENT RD AND EPPING ROAD SHRIMPTONS CREEK, NORTH RYDE GENERAL NOTES		
DOCUMENT No. 21012C		
ISSUE STATUS	SHEET No.	ISSUE
ISSUE FOR CONSTRUCTION	06	08

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

0 5 10 15 20 25 30 35 40 45 50mm ON A3 SIZE ORIGINAL

LIGHTING DESIGN

1. ALL LUMINAIRES TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS AND SPECIFICATIONS.
2. LIGHTING EQUIPMENT, LOCATION AND TYPES MAY NOT BE SUBSTITUTED WITHOUT PRIOR CONSENT AND APPROVAL OF THE DESIGNER. REFER IMAGE OF PROPOSED LUMINAIRE BELOW
3. COLOUR/FINISH OF ALL LIGHT FITTINGS, TRIMS, LENSES AND ACCESSORIES TO BE APPROVED BY THE COUNCIL. CONTRACTOR SHALL PROVIDE SAMPLES OF LIGHT FITTINGS PRIOR TO PROCUREMENT.
4. NEW POLE LUMINAIRES ARE TO BE LOCATED TO AVOID CLASHES WITH EXISTING TREES. CONFIRM LOCATION WITH LIGHTING DESIGNER PRIOR TO INSTALLATION. WHERE TREE BRANCHES ARE REQUIRED TO BE TRIMMED, THE AUTHORIZED PERSON IS TO BE ADVISED PRIOR TO ANY WORKS.



PROPOSED LUMINAIRE
I-TRON ZERO OC6, STA1 3.54-2M VEX 3000K
W/ BACK SHIELD, NEMA ON TOP, ZHAGA ON BOTTOM

LOCKING

1. ALL STREET LIGHT SWITCHBOARDS SHALL BE LOCKED WITH A UNIQUE ABLOY KEY PADLOCK, AS DETAILED BELOW:

Integrity ABLOY Key for all Street Lighting Switchboards

Master Key number associated with Registration Card 26060520 AUVG

INTEGRITY LOCKSMITHS AND SECURITY
Utilities Security Key System

Phone:
1300 664 582
1300 366 488

Fax:
1300 664 682

SWITCHBOARD

- CUBICLE:
1. 2.0mm FOLDED AND WELDED STAINLESS STEEL SHEET CONSTRUCTION, SWITCHBOARD CABINET IS TO BE BASE MOUNTED VIA HOT DIPPED GALVANISED CHANNEL IRON PLINTH.
2. ESCUTCHEON SECURED TO CABINET WITH DOME NUTS.
3. DOORS ARE SWUNG ON CHROME PLATED PINTLE HINGES AND FIXED WITH SWING HANDLES.
4. 3mm ALUMINUM GLAND PLATES FITTED TO BASE OF SWITCHBOARD.
- FINISH:
1. SHEETMETAL TO BE DEGREASED WITH SOLVENT, PHOSPHORIC ACID WASHED, AND CLEANED WITH 180 GRIT PAPER. ELECTROSTATIC POLYESTER POWDER TO BE APPLIED AS FOLLOWS;
CABINET EXTERIOR - ORBITAL FINISH
CABINET INTERIOR - GLOSS WHITE
ESCUTCHEONS - GLOSS WHITE
PLINTH - 75mm HOT DIPPED GALVANISED
- LABELS:
1. LABELS ARE TO BE MACHINE ENGRAVED FROM 'GRAVOPLY' LAMINATE AND FIXED TO THE SWITCHBOARD METALWORK USING M3 SCREWS.
- BUSBARS:
1. NEUTRAL AND EARTH BARS TO BE LOCATED IN A POSITION WHERE THEY WILL NOT BE OBSTRUCTED BY SUBMAIN CABLES.
2. NEUTRAL BAR TO BE FULL RATING OF ACTIVES.
3. NEUTRAL AND EARTH TERMINATIONS TO BE NUMBERED TO CORRESPOND WITH RESPECTIVE SUBCIRCUIT NUMBERS THAT APPEAR ON LABELS.
- SPECIFICATIONS:
1. SWITCHBOARD MANUFACTURED TO AS 61439.2
2. FORM 2B SEPARATION TO AS 61439.2.
3. IP66 CONSTRUCTION TO AS 60529.
4. FAULT LEVEL - 10ka FOR 1 SEC COMMERCIAL & INDUSTRIAL AREAS REQUIRE 25ka AS PER NSW SIR.
5. 415 VOLT, 50Hz M.E.N. LINK SYSTEM.
6. MAINS CABLES - BOTTOM ENTRY VIA 3mm ALUMINUM GLAND PLATE.
7. SUBMAINS CABLES - BOTTOM EXIT VIA 3mm ALUMINUM GLAND PLATE.

SUBCIRCUITS

1. 3-PHASE CB OR LINKED 1-PHASE CBS MUST BE UTILISED. THE USE OF UNLINKED 1-PH CBS IS NOT PERMITTED BY AS 3000.

FOUNDATION & COLUMN

1. STRAIGHT PILE IS STANDARD. CANTILEVERED IF SITE CONSTRAINTS REQUIRE IT - SUBMIT PROOF THIS FOOTING IS REQUIRED. THIS FOOTING MUST BE PREPARED BY A QUALIFIED STRUCTURAL ENGINEER REFERRED ON THE NER OF AUSTRALIA AND PROVIDED TO COUNCIL FOR REVIEW AND APPROVAL PRIOR TO THE INSTALLATION.
2. CENTER OF ALL LIGHTS TO SIT 225mm BEHIND THE FOOTPATH UNLESS OTHERWISE STATED.
3. ALL POLES TO BE BLACK WITH MARINE GRADE PAINT FINISH.

TEMPLATE VERSION YYYY/MM/DD:

REV	DATE	AMENDMENT / REVISION DESCRIPTION
01	17-11-20	ISSUED FOR APPROVAL
02	15-01-21	DESIGN UPDATE FOR BRIDGE CROSSING DUCTS
03	22-01-21	UPDATED ISOLUX PLOTS FOR DESIGN UPDATE AND BACKLIGHT SHIELDS
04	19-05-21	UPDATED SET OUT TABLE AND WORKS SCHEDULE
05	16-07-21	ADDED: DBYD INFORMATION, EXISTING TREES ALONG PATH. COLUMN AND TRENCH LOCATIONS UPDATED FROM SITE MEETING
06	13-08-21	ISSUE FOR TENDER
07	19-10-21	UPDATED LIGHTING DESIGN
08	08-11-21	UPDATED SCOPE OF WORKS

ISSUED BY
M.C.
M.C.
M.C.
M.C.
M.C.
M.C.
M.C.

SCALES ON A3 SIZE DRAWING
NOT TO SCALE
CO-ORDINATE SYSTEM MGA ZONE 56
HEIGHT DATUM AHD

DRAWINGS / DESIGN PREPARED BY

ArconaTech

ACN 162 670 957
E info@arconatech.com.au
W www.arconatech.com.au
M PO Box 890
P Liverpool NSW 2170 0448 814 154

ABN 13 162 670 957
PO Box 78
Wollongong NSW 2520

PLOT DATE / TIME		PLOT BY
19/05/2021 4:19:56 PM		janre
TITLE	NAME	DATE
DRAWN	J. DOMINGUEZ	19.05.2021
DESIGN	S. TIEU	19.05.2021
CHECKED	M. CHEN	19.05.2021

CLIENT

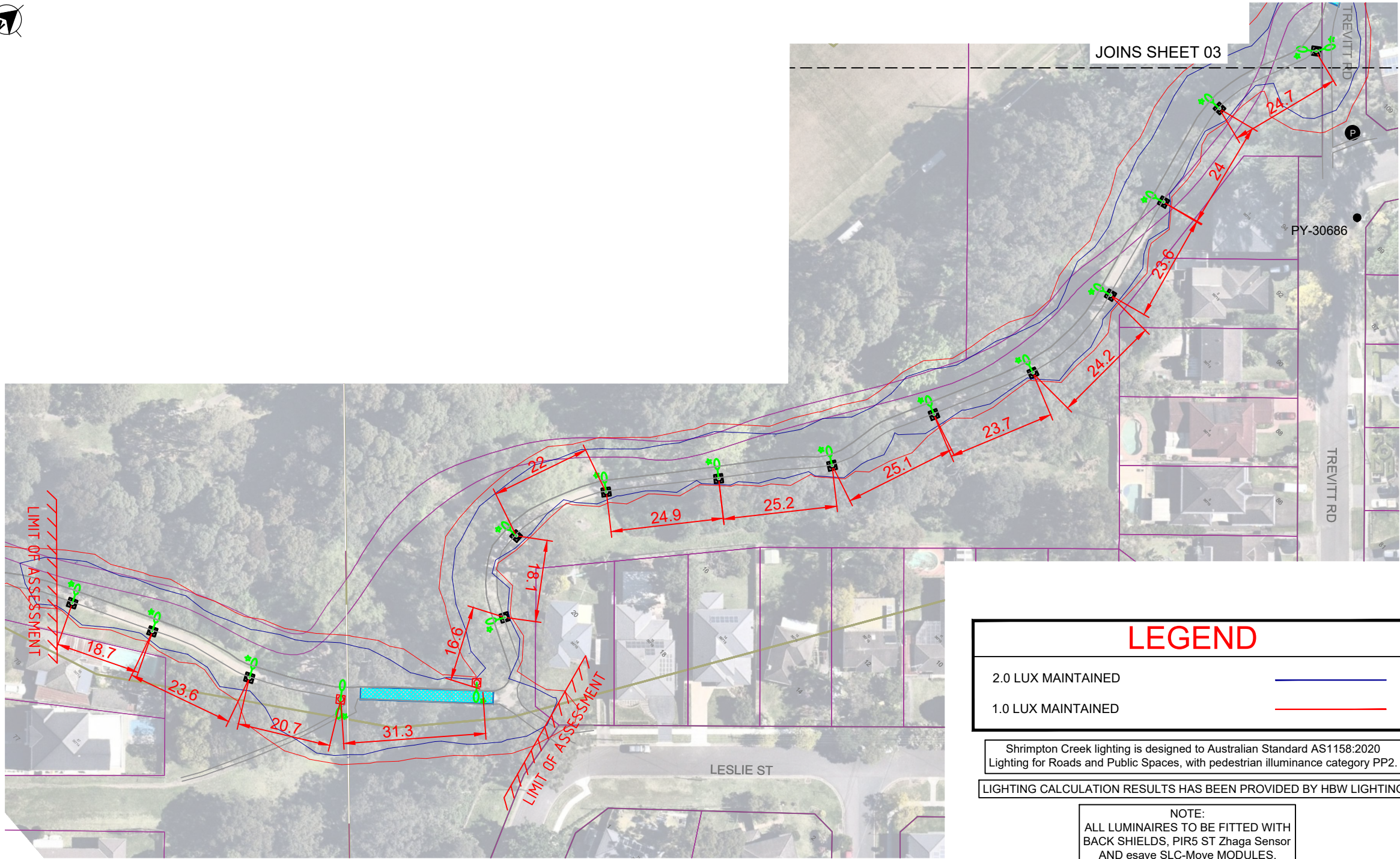
City of Ryde

PREPARED FOR

CITY OF RYDE COUNCIL

PRIVATE LIGHTING BETWEEN KENT RD AND EPPING ROAD SHRIMPTONS CREEK, NORTH RYDE GENERAL NOTES		
DOCUMENT No. 21012C		
ISSUE STATUS ISSUE FOR CONSTRUCTION	SHEET No. 07	ISSUE 08

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED



SITE PLAN
SCALE 1:1000

LEGEND

2.0 LUX MAINTAINED

1.0 LUX MAINTAINED

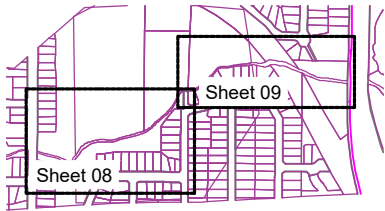
Shrimpton Creek lighting is designed to Australian Standard AS1158:2020 Lighting for Roads and Public Spaces, with pedestrian illuminance category PP2.

LIGHTING CALCULATION RESULTS HAS BEEN PROVIDED BY HBW LIGHTING

NOTE:
ALL LUMINAIRES TO BE FITTED WITH
BACK SHIELDS, PIR5 ST Zhaga Sensor
AND esave SLC-Move MODULES.

STREET LIGHTING DESIGN DETAILS

REF. IDENTIFIER	ASSET NUMBER	SL POLE TYPE	COLUMN SIZE (m)	MOUNTING METHOD	OUTREACH (m)	HEIGHT OF LUMINAIRE (m)	LUMINAIRE TYPE	LUMINAIRE SIZE (W)	LUMENS (LM)	ADDITIONAL DESIGN DETAIL
		5m GM POLE	5	RAGBOLT	0	5	I-TRON ZERO 0C6 STA1 3.54-2M VEX 3000K W/ BACK SHIELD, NEMA ON TOP, ZHAGA ON BOTTOM	21.5	1860	
		5m GM POLE	5	RAGBOLT	0	5	I-TRON ZERO 0C6 STA1 3.54-2M VEX 3000K W/ BACK SHIELD, NEMA ON TOP, ZHAGA ON BOTTOM	21.5	1860	DOUBLE OUTREACH
		6m GM POLE	6	RAGBOLT	0	6	I-TRON ZERO 0C6 STA1 3.54-2M VEX 3000K W/ BACK SHIELD, NEMA ON TOP, ZHAGA ON BOTTOM	21.5	1860	
		6m GM POLE	6	RAGBOLT	0	6	I-TRON ZERO 0C6 STA1 3.54-2M VEX 3000K W/ BACK SHIELD, NEMA ON TOP, ZHAGA ON BOTTOM	21.5	1860	DOUBLE OUTREACH



KEY PLAN
NTS

FOR CONSTRUCTION

TEMPLATE VERSION YYYY/MM/DD:

REV	DATE	AMENDMENT / REVISION DESCRIPTION
01	17-11-20	ISSUED FOR APPROVAL
02	15-01-21	DESIGN UPDATE FOR BRIDGE CROSSING DUCTS
03	22-01-21	UPDATED ISOLUX PLOTS FOR DESIGN UPDATE AND BACKLIGHT SHIELDS
04	19-05-21	UPDATED SET OUT TABLE AND WORKS SCHEDULE
05	16-07-21	ADDED: DBYD INFORMATION, EXISTING TREES ALONG PATH. COLUMN AND TRENCH LOCATIONS UPDATED FROM SITE MEETING
06	13-08-21	ISSUE FOR TENDER
07	19-10-21	UPDATED LIGHTING DESIGN
08	08-11-21	UPDATED SCOPE OF WORKS

ISSUED BY	SCALES ON A3 SIZE DRAWING
M.C. M.C. M.C. M.C. M.C. M.C. M.C.	SCALE BAR 1:1000 0 20 50 100 200 CO-ORDINATE SYSTEM MGA ZONE 56 HEIGHT DATUM AHD

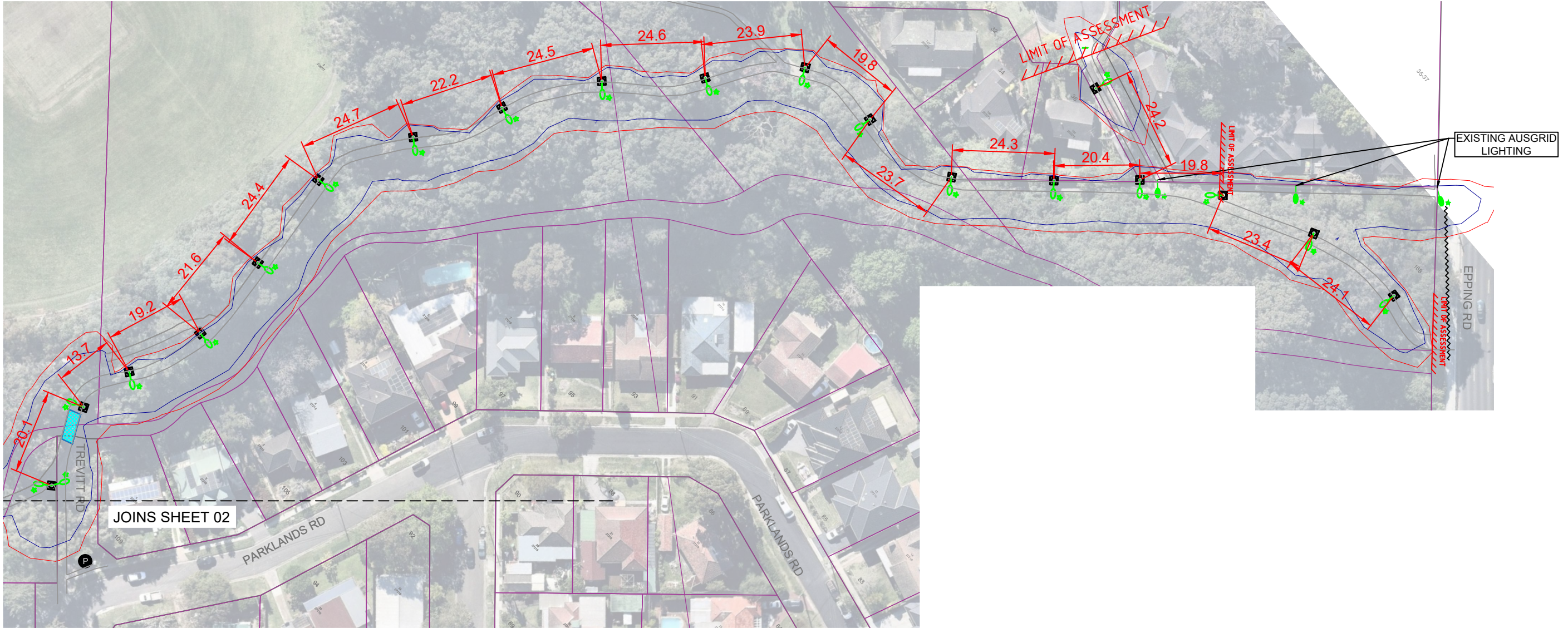
DRAWINGS / DESIGN PREPARED BY
ArconaTech ACN 162 670 957 info@arconatech.com.au www.arconatech.com.au PO Box 890 Liverpool NSW 2170 0448 814 154 ABN 13 162 670 957 PO Box 78 Wollongong NSW 2520

TITLE	NAME	DATE
DRAWN	J. DOMINGUEZ	19.05.2021
DESIGN	S. TIEU	19.05.2021
CHECKED	M. CHEN	19.05.2021

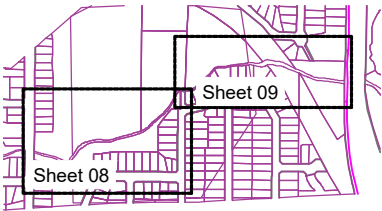
CLIENT
City of Ryde
PREPARED FOR CITY OF RYDE COUNCIL

CITY OF RYDE COUNCIL	DOCUMENT No	ISSUE STATUS	SHEET No	ISSUE
PRIVATE LIGHTING BETWEEN KENT RD AND EPPING ROAD SHRIMPTONS CREEK, NORTH RYDE LIGHTING CERTIFICATION - LUX DIAGRAM 01	21012C	ISSUE FOR CONSTRUCTION	08	08

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED



SITE PLAN
SCALE 1:1000



KEY PLAN
NTS

TEMPLATE VERSION YYYYMM/DD:						PLOT DATE / TIME 19/05/2021 4:19:56 PM			PLOT BY janre		CLIENT <div>City of Ryde</div>		CITY OF RYDE COUNCIL			A3
REV	DATE	AMENDMENT / REVISION DESCRIPTION	ISSUED BY	SCALES ON A3 SIZE DRAWING		DRAWINGS / DESIGN PREPARED BY			TITLE	NAME	DATE	PRIVATE LIGHTING BETWEEN KENT RD AND EPPING ROAD SHRIMPTONS CREEK, NORTH RYDE LIGHTING CERTIFICATION - LUX DIAGRAM 02				
01	17-11-20	ISSUED FOR APPROVAL	M.C.	 SCALE BAR 1:1000		 ACN 162 670 957 ABN 13 162 670 957 info@arconatech.com.au www.arconatech.com.au PO Box 890 PO Box 78 Liverpool NSW 2170 Wollongong NSW 2520 0448 814 154			DRAWN	J. DOMINGUEZ	19.05.2021					
02	15-01-21	DESIGN UPDATE FOR BRIDGE CROSSING DUCTS	M.C.						DESIGN	S. TIEU	19.05.2021					
03	22-01-21	UPDATED ISOLUX PLOTS FOR DESIGN UPDATE AND BACKLIGHT SHIELDS	M.C.						CHECKED	M. CHEN	19.05.2021	DOCUMENT No 21012C ISSUE STATUS ISSUE FOR CONSTRUCTION				
04	19-05-21	UPDATED SET OUT TABLE AND WORKS SCHEDULE	M.C.						PREPARED FOR CITY OF RYDE COUNCIL							
05	16-07-21	ADDED: DBYD INFORMATION, EXISTING TREES ALONG PATH. COLUMN AND TRENCH LOCATIONS UPDATED FROM SITE MEETING	M.C.													
06	13-08-21	ISSUE FOR TENDER	M.C.													
07	19-10-21	UPDATED LIGHTING DESIGN	M.C.												SHEET No. 09	
08	08-11-21	UPDATED SCOPE OF WORKS	M.C.									ISSUE 08				
				CO-ORDINATE SYSTEM MGA ZONE 56		HEIGHT DATUM AHD										

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

50mm ON A3 SIZE ORIGINAL

P Category Lighting - AS/NZS 1158.3.1:2005

HBW Lighting

I-table Filename: C:\Users\steve\Desktop\I-TRON Zero 0C6 STA1 3.54-2
M VEX AEP.cie

Job Name: Shrimptons Creek

Luminaire Description: I-TRON Zero 0C6 STA1 1860 lms

Initial Lamp Flux: 1860 lms

Maintenance Factor: 0.8

Stores Code:

Upcast Angle: 0 degrees

Arrangement: Staggered

Offset Distance: 0 m

Upward Waste Light Ratio: .0 %

Light Source: LED - Light Emitting Diode

Luminaire Classification: Not specified

Lighting Category: User Defined

Illuminance Criteria: Average Illuminance (Eav) >= 7.00 lx
(Maintained values) Minimum Illuminance (Eph) >= 1.00 lx
Illuminance Uniformity (Up) <= 5
Vertical Illuminance (Epv) >= 0.30 lx
(Epv calculated on plane 1.5m above ground
and contribution from luminaire in adjacent
span used in calculations)

Calculation Grid: Dependant on Path width (refer Figure 3.8
of AS/NZS 1158.2)

Mounting Height Maximum Spacing for different
Height Path Widths

2.5

+-----+

5.0 | 26.0 |

+-----+

Value/s in above table are all in metres.

The table contains maximum spacings which, for the specified luminaire
and lamp combination, provide compliance with the User Defined
light technical parameters (LTPs) nominated above.

Refer next page for list of LTP's at compliant maximum spacings.

Refer following page/s for illuminance values at grid points.

Light Technical Parameters at Maximum Spacing

Mounting Height (m)	Path Width (m)	Maximum Spacing (m)	Eav (lx)	Eph (lx)	Up (E _{max} /E _{av})	E _{max} (lx)	E _v (lx)
5.0	2.5	26.0	7.59	4.32	3	20.74	0.3

Horizontal Illuminance Values over Calculation Grid

Mounting Height = 5.0m Path Width = 2.5m Spacing = 26.0m

<---- Grid across path ---->

(Luminaire 1)

. .

13.44 13.86

6.95 7.56

5.24 5.07

5.14 4.96

4.42 4.48

4.32 4.38

4.38 4.32

4.48 4.42

4.96 5.14

5.07 5.24

7.56 6.95

13.86 13.44

20.74 16.85

(Luminaire 2)

Vertical Illuminance Values over Calculation Grid

(Luminaire 1)

. .

11.16 12.38

11.49 10.74

14.93 12.93

12.08 12.36

9.94 10.91

7.41 7.83

5.05 5.09

3.29 3.17

2.04 1.89

1.27 1.12

.84 .73

.55 .47

.35 .30

(Luminaire 2)

NOTE: Values in above table are in Lux (rounded to 2 decimal places).
Line of grid points across path, at Luminaire 1, not
included in determining compliance (refer Figure 3.8
AS/NZS 1158.2).

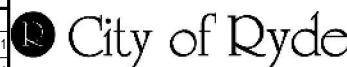
TEMPLATE VERSION YYYY/MM/DD:

REV	DATE	AMENDMENT / REVISION DESCRIPTION
01	17-11-20	ISSUED FOR APPROVAL
02	15-01-21	DESIGN UPDATE FOR BRIDGE CROSSING DUCTS
03	22-01-21	UPDATED ISOLUX PLOTS FOR DESIGN UPDATE AND BACKLIGHT SHIELDS
04	19-05-21	UPDATED SET OUT TABLE AND WORKS SCHEDULE
05	16-07-21	ADDED: DBYD INFORMATION, EXISTING TREES ALONG PATH. COLUMN AND TRENCH LOCATIONS UPDATED FROM SITE MEETING
06	13-08-21	ISSUE FOR TENDER
07	19-10-21	UPDATED LIGHTING DESIGN
08	08-11-21	UPDATED SCOPE OF WORKS

ISSUED BY	SCALES ON A3 SIZE DRAWING
M.C. M.C. M.C. M.C. M.C. M.C. M.C. M.C.	NOT TO SCALE
CO-ORDINATE SYSTEM	HEIGHT DATUM
MGA ZONE 56	AHD

DRAWINGS / DESIGN PREPARED BY
ArconaTech
ACN 162 670 957 ABN 13 162 670 957 info@arconatech.com.au www.arconatech.com.au PO Box 890 PO Box 78 Liverpool NSW 2170 Wollongong NSW 2520 0448 814 154

PLOT DATE / TIME		PLOT BY
19/05/2021 4:19:56 PM		janre
TITLE	NAME	DATE
DRAWN	J. DOMINGUEZ	19.05.2021
DESIGN	S. TIEU	19.05.2021
CHECKED	M. CHEN	19.05.2021

CLIENT
 City of Ryde
PREPARED FOR
CITY OF RYDE COUNCIL

CITY OF RYDE COUNCIL	A3
PRIVATE LIGHTING BETWEEN KENT RD AND EPPING ROAD SHRIMPTONS CREEK, NORTH RYDE LIGHTING CERTIFICATION - SOFTWARE OUT PUT	
DOCUMENT No. 21012C	
ISSUE STATUS ISSUE FOR CONSTRUCTION	SHEET No. 10
	ISSUE 08

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

50mm ON A3 SIZE ORIGINAL

0 5 10 15 20 25 30 35 40 45

P Category Lighting - AS/NZS 1158.3.1:2005

HBW Lighting

I-table Filename: C:\Users\steve\Desktop\I-TRON Zero 0C6 STA1 3.54-2
M VEX AEP.cie

Job Name: Shrimptons Creek

Luminaire Description: I-TRON Zero 0C6 STA1 1860 lms

Initial Lamp Flux: 1860 lms

Maintenance Factor: 0.8

Stores Code:

Upcast Angle: 0 degrees

Arrangement: Single Side

Offset Distance: 0 m

Upward Waste Light Ratio: .0 %

Light Source: LED - Light Emitting Diode

Luminaire Classification: Not specified

Lighting Category: User Defined

Illuminance Criteria: Average Illuminance (Eav) >= 7.00 lx
(Maintained values) Minimum Illuminance (Eph) >= 1.00 lx
Illuminance Uniformity (Up) <= 5
Vertical Illuminance (Epv) >= 0.30 lx
(Epv calculated on plane 1.5m above ground
and contribution from luminaire in adjacent
span used in calculations)

Calculation Grid: Dependant on Path width (refer Figure 3.8
of AS/NZS 1158.2)

Mounting Height Maximum Spacing for different
Path Widths

2.5
+-----+
5.0 | 25.9 |
+-----+

Value/s in above table are all in metres.
The table contains maximum spacings which, for the specified luminaire
and lamp combination, provide compliance with the User Defined
light technical parameters (LTPs) nominated above.
Refer next page for list of LTP's at compliant maximum spacings.
Refer following page/s for illuminance values at grid points.

-----PlePcat

Light Technical Parameters at Maximum Spacing

Mounting Height (m)	Path Width (m)	Maximum Spacing (m)	Eav (lx)	Eph (lx)	Up (E _{max} /E _{av})	E _{max} (lx)	E _v (lx)
5.0	2.5	25.9	7.59	4.21	3	20.73	0.3

Horizontal Illuminance Values over Calculation Grid

Mounting Height = 5.0m Path Width = 2.5m Spacing = 25.9m
-----Grid

<---- Grid across path ---->

(Luminaire 1)

.	.
13.47	13.85
6.99	7.54
5.26	5.05
5.15	4.96
4.38	4.53
4.21	4.50
4.21	4.50
4.38	4.53
5.15	4.96
5.26	5.05
6.99	7.54
13.47	13.85
16.86	20.73

(Luminaire 2)

Vertical Illuminance Values over Calculation Grid

(Luminaire 1)

.	.
11.20	12.34
11.51	10.71
14.96	12.91
12.10	12.34
9.96	10.91
7.43	7.84
5.06	5.10
3.31	3.17
2.05	1.89
1.28	1.12
.85	.73
.55	.47
.35	.30

(Luminaire 2)

NOTE: Values in above table are in Lux (rounded to 2 decimal places).
Line of grid points across path, at Luminaire 1, not
included in determining compliance (refer Figure 3.8
AS/NZS 1158.2).

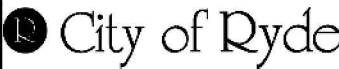
TEMPLATE VERSION YYYY/MM/DD:

REV	DATE	AMENDMENT / REVISION DESCRIPTION
01	17-11-20	ISSUED FOR APPROVAL
02	15-01-21	DESIGN UPDATE FOR BRIDGE CROSSING DUCTS
03	22-01-21	UPDATED ISOLUX PLOTS FOR DESIGN UPDATE AND BACKLIGHT SHIELDS
04	19-05-21	UPDATED SET OUT TABLE AND WORKS SCHEDULE
05	16-07-21	ADDED: DBYD INFORMATION, EXISTING TREES ALONG PATH. COLUMN AND TRENCH LOCATIONS UPDATED FROM SITE MEETING
06	13-08-21	ISSUE FOR TENDER
07	19-10-21	UPDATED LIGHTING DESIGN
08	08-11-21	UPDATED SCOPE OF WORKS

ISSUED BY	SCALES ON A3 SIZE DRAWING
M.C. M.C. M.C. M.C. M.C. M.C. M.C.	NOT TO SCALE
CO-ORDINATE SYSTEM	HEIGHT DATUM
MGA ZONE 56	AHD

DRAWINGS / DESIGN PREPARED BY
ArconaTech
ACN 162 670 957 ABN 13 162 670 957 info@arconatech.com.au www.arconatech.com.au PO Box 890 PO Box 78 Liverpool NSW 2170 Wollongong NSW 2520 0448 814 154

PLOT DATE / TIME		PLOT BY
19/05/2021 4:19:56 PM		janre
TITLE	NAME	DATE
DRAWN	J. DOMINGUEZ	19.05.2021
DESIGN	S. TIEU	19.05.2021
CHECKED	M. CHEN	19.05.2021

CLIENT
 City of Ryde
PREPARED FOR
CITY OF RYDE COUNCIL

CITY OF RYDE COUNCIL	A3
PRIVATE LIGHTING BETWEEN KENT RD AND EPPING ROAD SHRIMPTONS CREEK, NORTH RYDE LIGHTING CERTIFICATION - SOFTWARE OUT PUT	
DOCUMENT No 21012C	
ISSUE STATUS ISSUE FOR CONSTRUCTION	SHEET No. 11 ISSUE 08

