

From: Greig, Nathan
Sent: Mon, 6 May 2019 00:07:45 +0000
To: Doyle, Chris
Cc: Burden, Ross; Roberts, Mick
Subject: RE: Boomanulla Oval Hire [SEC=UNCLASSIFIED]

Chris,

Apologies if you've already received a response to the below. The lights are currently not working and we are trying to source funding to undertake the works. They will not be recommissioned before the end of the winter season.

Regards,

Nathan Greig | Senior Manager

Phone: 02 6205 5192 | [REDACTED] | Email: nathan.greig@act.gov.au

Transport Canberra and City Services | ACT Government

Level 7, 490 Northbourne Avenue, Dickson 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Doyle, Chris
Sent: Tuesday, 30 April 2019 2:38 PM
To: Greig, Nathan
Cc: Burden, Ross
Subject: FW: Boomanulla Oval Hire [SEC=UNCLASSIFIED]

Hi Nathan,

Can you please let me know about the lights. Out of Scope [REDACTED]

~C

From: Tompkins, William (Health)
Sent: Tuesday, 30 April 2019 2:05 PM
To: Doyle, Chris <Chris.Doyle@act.gov.au>
Cc: [REDACTED]
Subject: Boomanulla Oval Hire

Hi Chris

Out of Scope

Also regarding the Boomanulla Oval Lights, we would like to know, are they in working order?

Cheers
BillyT ☺

Kind Regards

William T Tompkins



Administration Service Officer
Ngunnawal Bush Healing Farm |
Policy & Stakeholder Relations |
ACT Health, Bowes St Woden
425 Tidbinbilla Road, Tharwa

Mobile : [REDACTED]

Phone : 02 6237 6700

E-mail: william.tompkins@act.gov.au

Care p Excellence p Collaboration p Integrity

ACT Health acknowledges the traditional custodians of the ACT, the Ngunnawal people. ACT Health acknowledges and respects their continuing culture and the contribution they make to the life of this city and this region.



From: [REDACTED]
Sent: Wed, 17 Jul 2019 08:05:30 +1000
To: Roberts, Mick
Subject: ACT Sportsground Lighting Tender Documents
Attachments: Phillip 2 Electrical Tender Docs.zip, Boomanulla Oval Electrical Tender Docs.zip, Bonner Oval Lighting Tender Docs.zip, Nicholls 3 200 lux Lighting Calculation AGI32.pdf

Hello Mick,

Hope you had a good warm break and now enjoying the Canberra mid-winter weather.

We attach the Tender documentation new and upgraded sports lighting for:

- Phillip 2 Oval – 100 lux
- Boomanulla Oval – 50 lux
- Bonner Oval 100 lux

Out of Scope

[REDACTED]

[REDACTED]

Best regards,

[REDACTED]
Managing Director

Mobile [REDACTED]

AEC Design &
Engineers Consulting

Office: 02 6101 4770

Email: aecengineers@tpg.com.au

P.O. Box 503

Mawson ACT 2607

Deferred Access

Deferred Access

Deferred Access

Deferred Access

From: Toomey, Richard <Richard.Toomey@act.gov.au>
Sent: Wednesday, 28 August 2019 9:39 AM
To: Roberts, Mick <Mick.Roberts@act.gov.au>
Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits [SEC=UNCLASSIFIED]

Just on that.....do you want the Kits priced for installed on all the new lights at:

1. out of scope
2. Boomanulla Oval; and
3. out of scope

From: Roberts, Mick
Sent: Tuesday, 27 August 2019 3:50 PM
To: Toomey, Richard <Richard.Toomey@act.gov.au>
Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits [SEC=UNCLASSIFIED]

Ok agreed sounds good.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Toomey, Richard <Richard.Toomey@act.gov.au>
Sent: Tuesday, 27 August 2019 3:17 PM
To: Roberts, Mick <Mick.Roberts@act.gov.au>
Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits [SEC=UNCLASSIFIED]

It's a scope change so if you're happy we can get the costs included in the cost plan to ensure we are still covered.

From: Roberts, Mick
Sent: Tuesday, 27 August 2019 2:12 PM
To: Toomey, Richard <Richard.Toomey@act.gov.au>
Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits [SEC=UNCLASSIFIED]

Possibly, haven't talked to [REDACTED] yet, but [REDACTED] was included in the original email.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Toomey, Richard <Richard.Toomey@act.gov.au>
Sent: Tuesday, 27 August 2019 2:11 PM
To: Roberts, Mick <Mick.Roberts@act.gov.au>
Subject: Re: AAA-Lux LED Floodlight Bird Proofing Kits [SEC=UNCLASSIFIED]

Agree. [REDACTED] has been in discussion with Projex on this hasn't [REDACTED]

Get [Outlook for iOS](#)

From: Roberts, Mick <Mick.Roberts@act.gov.au>
Sent: Tuesday, August 27, 2019 1:47:59 PM
To: Toomey, Richard <Richard.Toomey@act.gov.au>
Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits [SEC=UNCLASSIFIED]

Hi Richard

Variation seems minor in time/costs. I feel its worth a discussion with Projex.

Your thoughts?

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: [REDACTED]
Sent: Tuesday, 27 August 2019 8:26 AM
To: Roberts, Mick <Mick.Roberts@act.gov.au>
Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits [SEC=UNCLASSIFIED]

Well that would be annoying. Let me know if you get this?

Regards,

[REDACTED]
Managing Director
Mobile [REDACTED]

AEC Design &
Consulting
Engineers

Office: 02 6101 4770
Email: aecengineers@tpg.com.au

P.O. Box 503
Mawson ACT 2607

From: Roberts, Mick [<mailto:Mick.Roberts@act.gov.au>]
Sent: Tuesday, 27 August 2019 8:03 AM
To: Burden, Ross <Ross.Burden@act.gov.au>
Cc: [REDACTED] Toomey, Richard <Richard.Toomey@act.gov.au>; [REDACTED] <[\[REDACTED\]@projexbuilding.com.au](mailto:[REDACTED]@projexbuilding.com.au)>
Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits [SEC=UNCLASSIFIED]

Hi all

For some reason I didn't receive this mail direct (maybe [REDACTED] is now in my Spam world).

Ross - yes I agree, the risk of attack if any is minimal at this location, however this is a SRF risk and SRF staff should note any extra presences of cockies at this site.

I will discuss the

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Burden, Ross <Ross.Burden@act.gov.au>
Sent: Monday, 26 August 2019 3:43 PM
To: Roberts, Mick <Mick.Roberts@act.gov.au>
Subject: FW: AAA-Lux LED Floodlight Bird Proofing Kits [SEC=UNCLASSIFIED]

Mick

What are your thoughts it makes sense to wait?

Ross

Ross Burden | Director
Phone 02 6207 2307 | Email: ross.burden@act.gov.au
Sport and Recreation Facilities | City Presentation | Transport Canberra and City Services Directorate | ACT Government
496 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: [REDACTED]
Sent: Monday, 26 August 2019 2:40 PM
To: Burden, Ross <Ross.Burden@act.gov.au>; Roberts, Mick <Mick.Roberts@act.gov.au>
Cc: Toomey, Richard <Richard.Toomey@act.gov.au>; [REDACTED] <[\[REDACTED\]@projexbuilding.com.au](mailto:[REDACTED]@projexbuilding.com.au)>
Subject: FW: AAA-Lux LED Floodlight Bird Proofing Kits

Afternoon Ross & Mick,

Out of Scope

Although we have been running this risk for a couple of months and recommend the cost saving measure this is TCCS discussion.

We await your instruction.

Regards,

Managing Director

Mobile

AEC Design &
Consulting
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Email: aecengineers@tpg.com.au

P.O. Box 503

Mawson ACT 2607

From:

Sent: Tuesday, 20 August 2019 7:14 AM

To: 'toddyselectrical@gmail.com' <toddyselectrical@gmail.com>

Cc: 'Roberts, Mick' <Mick.Roberts@act.gov.au>; 'Mann, Dave' <Dave.Mann@act.gov.au>; 'Burden, Ross' <Ross.Burden@act.gov.au>; 'Elliott, Todd' <Todd.Elliott@act.gov.au>

Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits

Not a problem, let me know.

Out of Scope

Regards,

Managing Director

Mobile

AEC Design &
Consulting

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Email: aecengineers@tpg.com.au

P.O. Box 503

Mawson ACT 2607

From: toddyselectrical@gmail.com [<mailto:toddyselectrical@gmail.com>]

Sent: Tuesday, 20 August 2019 7:06 AM

To: [REDACTED]

Cc: 'Roberts, Mick' <Mick.Roberts@act.gov.au>; 'Mann, Dave' <Dave.Mann@act.gov.au>; 'Burden, Ross' <Ross.Burden@act.gov.au>; 'Elliott, Todd' <Todd.Elliott@act.gov.au>

Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits

[REDACTED]

I wanting for approval (the go ahead) to proceed

Out of Scope

Regards

Darren Todd

[REDACTED]
toddyselectrical@gmail.com



From: [REDACTED]

Sent: Tuesday, 20 August 2019 6:59 AM

To: toddyselectrical@gmail.com

Cc: 'Roberts, Mick' <Mick.Roberts@act.gov.au>; 'Mann, Dave' <Dave.Mann@act.gov.au>; 'Burden, Ross' <Ross.Burden@act.gov.au>; 'Elliott, Todd' <Todd.Elliott@act.gov.au>

Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits

Hello Darren,

Just checking if you are in a position to address these maintenance issues as would like to get the kits to you and installed?

Let me know and we can arrange a time to meet at the first site.

Regards,

[Redacted]
Managing Director

Mobile [Redacted]

AEC Design &
Consulting
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Email: aecengineers@tpg.com.au

P.O. Box 503

Mawson ACT 2607

From: [Redacted]
Sent: Friday, 21 June 2019 5:28 PM
To: 'toddyselectrical@gmail.com' <toddyselectrical@gmail.com>
Cc: 'Roberts, Mick' <Mick.Roberts@act.gov.au>; 'Mann, Dave' <Dave.Mann@act.gov.au>; 'Burden, Ross' <Ross.Burden@act.gov.au>; 'Elliott, Todd' <Todd.Elliott@act.gov.au>
Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits

Thanks Darren,

The drivers need to be included Out of Scope [Redacted]

I leave in your capable hands, let me know on timing.

Regards,

[Redacted]
Managing Director

Mobile [Redacted]

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Consulting
Engineers

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Email: aecengineers@tpg.com.au

P.O. Box 503

Mawson ACT 2607

From: toddyselectrical@gmail.com [<mailto:toddyselectrical@gmail.com>]
Sent: Friday, 21 June 2019 5:17 PM
To: [Redacted]

Cc: 'Roberts, Mick' <Mick.Roberts@act.gov.au>; 'Mann, Dave' <Dave.Mann@act.gov.au>; 'Burden, Ross' <Ross.Burden@act.gov.au>; 'Elliott, Todd' <Todd.Elliott@act.gov.au>
Subject: RE: AAA-Lux LED Floodlight Bird Proofing Kits

Hello Andrew,

I have to talk Todd, Dave & Ross to see when they want me to install the bird proofing
And give you an update, once I know
Being close to the financial year they may want to delay this as I'm estimating around [REDACTED] for repairs
for all sites

- Labour
- Cherry Picker
- Materials

Out of Scope

Regards

Darren Todd

[REDACTED]
toddyselectrical@gmail.com



From: [REDACTED]
Sent: Friday, 21 June 2019 4:00 PM
To: toddyselectrical@gmail.com
Cc: 'Roberts, Mick' <Mick.Roberts@act.gov.au>; 'Mann, Dave' <Dave.Mann@act.gov.au>; 'Burden, Ross' <Ross.Burden@act.gov.au>
Subject: AAA-Lux LED Floodlight Bird Proofing Kits

Hello Darren,

The approved bird kits will be here on Monday so as previously discussed can you be aware that each will take 10 to 15min to install as includes slotted guard for base of mast which requires the four mounting bracket bolts to be loosened as well as the three pop rivet end caps.

out of scope

out of scope

Regards,

Managing Director

Mobile

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From: [REDACTED]
Sent: Wed, 4 Sep 2019 15:57:53 +1000
To: [REDACTED]
Cc: Roberts, Mick; Toomey, Richard
Subject: Boomanulla Lighting Revised Tender Doc's
Attachments: 1583BM-E1 Site Plan & Details Rev 1 (A1).pdf, 1583BM-E2 Diagrams & Details Rev 1 (A1).pdf, 1583BM-E3 Aiming Details Rev 1 (A1).pdf, 1583BM-ES1 Rev 1 Boomanulla Oval LED Illumination installation spec.pdf

Hello [REDACTED]

As discussed we have revised the Boomanulla documents to include some of the new fitting options and cross arms which required updating the drawings and specification attached. We removed the early procurement items and included under items to be provided by the Superintendent so does not have to be included in your RFT.

If you have any queries let us know.

Regards,

[REDACTED]
Managing Director

Mobile [REDACTED]

AEC Design &
Consulting
Engineers

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Mawson ACT 2607

Technical Information

NOMINAL HEIGHT (m)	CATALOGUE No.	POLE DIAMETER		DOOR SIZE L x W (mm)x(mm)	BOLTS	MAX. TOP WEIGHT (kg)	MAXIMUM ALLOWABLE SAIL AREA (M ²) REGION - TERRAIN CATEGORY (AS1170.2)								ULT. BASE MOMENT (kNm)	ULT. BASE SHEAR (kN)	WORK. BASE MOMENT (kNm)	WORK. BASE SHEAR (kN)	SCREW PILE	POLE WEIGHT (kg)
		TOP (mm)	BOT. (mm)				A-2	A-3	B-2	B-3	C-2	C-3	D-2	D-3						
Park (Tapered Round)																				
3	FPM3FR	100	138	250 x 65	4M20@350	350	3.39	4.35	2.36	3.04	1.53	1.95	1.03	1.32	13.3	4.7	8.9	3.1	2B	37
4.5	FPM45FR	100	156	300 x 100	4M20@350	250	2.43	3.48	1.65	2.39	1.05	1.49	0.69	1.00	16.7	4.3	11.1	2.9	2B	54
6	FPM6FR	100	175	300 x 100	4M20@350	250	2.00	2.74	1.34	2.01	0.90	1.25	0.59	0.86	20.7	4.1	13.8	2.7	2B*	76
7	FPM7FR	100	181	600 x 115	4M24@350	200	1.70	2.09	1.05	1.63	0.64	1.00	0.38	0.61	22.0	4.2	14.7	2.8	3A	94
8.5	FPM85FR	100	199	600 x 115	4M24@350	120	1.20	1.83	1.00	1.30	0.60	0.90	0.37	0.55	26.2	4.1	17.5	2.7	3B	117
10	FPM10FR	100	218	600 x 115	4M24@350	100	1.00	1.64	0.80	1.05	0.50	0.71	0.28	0.45	30.8	4.4	20.5	2.9	3B	147
12	FPM12FR	100	236	600 x 150	4M24@350	80	0.77	1.30	0.50	0.80	0.33	0.50	0.13	0.30	35.4	4.6	23.6	3.1	3B*	181
13	FPM13FR	100	249	600 x 150	4M30@350	80	0.72	1.22	0.43	0.74	0.27	0.43	0.20	0.28	38.8	4.9	25.9	3.3	4A	208
15	FPM15FR	100	268	600 x 150	4M30@350	80	0.56	0.98	0.27	0.57	0.13	0.25	-	0.16	44.0	5.3	29.3	3.5	4A*	256
18	FPM18FR	100	295	600 x 150	4M30@500	50	0.35	0.70	0.07	0.35	-	0.05	-	-	51.6	4.4	34.4	2.9	4B	353
18	FPH18FR	100	292	600 x 150	4M30@500	100	1.02	1.44	0.54	0.98	0.12	0.41	0.12	0.15	78.9	5.9	52.6	3.9	n/a	411
20	FPM20FR	100	320	600 x 150	4M30@500	50	0.42	0.73	0.12	0.40	-	0.04	-	-	66.5	5.2	44.3	3.5	4B*	398
20	FPH20FR	100	317	600 x 150	4M30@500	100	0.93	1.36	0.45	0.90	-	0.30	-	0.05	92.7	6.4	61.8	4.3	n/a	472

The maximum allowable sail areas include 100kg for every 1 m² or part thereof. A complete range of luminaire mounting hardware and accessories is available to suit these columns. These columns can be supplied with climbing rungs and a safety climb system, usually starting at 6 metres to restrict unauthorised access. There is no allowance in the above maximum sail areas for the additional sail area from climbing rungs and safety climb system.
 * Check with INGAL EPS (in some loading scenarios these Screw Piles may not be suitable).

Park (Tapered Octagonal)																				
8	FPL8F	65	250	600 x 150	4M20@350	200	1.70	2.28	1.20	1.90	0.75	1.10	0.35	0.60	32.1	6.0	21.4	4.0	n/a	108
9	FPM9F	94	266	610 x 190	4M24@350	250	2.11	2.79	1.55	2.28	0.98	1.42	0.49	0.81	37.8	7.3	25.2	4.9	n/a	149
10	FPL10F	86	252	600 x 150	4M24@350	150	1.30	2.00	1.05	1.50	0.60	0.90	0.25	0.45	37.8	7.1	25.2	4.7	n/a	156
10	FPM10F	75	266	610 x 190	4M24@350	180	1.42	2.26	1.22	1.66	0.77	1.09	0.35	0.61	37.8	7.1	25.2	4.7	n/a	156
10	FPH10F	75	268	610 x 190	4M30@350	220	2.29	3.63	1.87	2.72	1.38	1.87	0.77	1.13	55.0	8.9	36.7	5.9	n/a	196
12	FPL12F	65	259	600 x 150	4M24@350	100	0.80	1.40	0.65	0.95	0.30	0.55	-	0.18	37.8	6.3	25.2	4.2	n/a	180
12	FPM12F	75	266	610 x 190	4M24@350	180	0.91	1.58	0.74	1.09	0.35	0.63	0.04	0.24	37.8	6.3	25.2	4.2	n/a	193
12	FPH12F	75	268	610 x 190	4M30@350	180	1.51	2.28	1.08	1.73	0.83	0.98	0.37	0.65	55.0	8.2	36.7	5.5	n/a	223
15	FPL15F	86	267	600 x 150	4M30@350	50	0.25	0.65	0.10	0.35	-	-	-	-	40.0	6.0	26.7	4.0	4A	230
15	FPM15F	75	266	610 x 190	4M30@350	140	0.49	0.97	0.27	0.58	0.02	0.23	-	-	45.0	6.1	30.0	4.1	n/a	237
15	FPH15F	75	268	610 x 190	4M30@350	140	0.82	1.44	0.49	0.98	0.27	0.39	-	0.15	55.0	7.3	36.7	4.9	n/a	270
18	FPLL18F#	75	314	610 x 190	4M30@500	130	0.22	0.66	-	0.33	-	-	-	-	51.0	5.7	34.0	3.8	4B	332
18	FPL18F	125	368	610 x 190	4M36@500	250	1.01	1.74	0.58	1.18	0.27	0.51	-	0.09	102.0	12.0	68.0	8.0	n/a	450
18	FPM18F	125	370	610 x 190	8M30@500	250	1.83	2.66	1.32	1.99	0.72	1.02	0.44	0.72	161.0	17.8	107.3	11.9	n/a	560
20	FPLL20F#	75	342	610 x 190	4M30@500	130	0.15	0.61	-	0.27	-	-	-	-	62.0	6.6	41.3	4.4	n/a	385
20	FPL20F	96	368	610 x 190	4M36@500	190	0.63	1.21	0.28	0.76	0.01	0.19	-	-	102.0	11.0	68.0	7.3	n/a	468
20	FPM20F	96	370	610 x 190	8M30@500	190	1.19	1.79	0.81	1.29	0.33	0.57	0.18	0.33	161.0	17.0	107.3	11.3	n/a	577

NOMINAL HEIGHT (m)	CATALOGUE No.	POLE DIAMETER		DOOR SIZE L x W (mm)x(mm)	BOLTS	MAX. TOP WEIGHT (kg)	MAXIMUM ALLOWABLE SAIL AREA (M ²) REGION - TERRAIN CATEGORY (AS1170.2)								ULT. BASE MOMENT (kNm)	ULT. BASE SHEAR (kN)	WORK. BASE MOMENT (kNm)	WORK. BASE SHEAR (kN)	SCREW PILE	POLE WEIGHT (kg)
		TOP (mm)	BOT. (mm)				A-2	A-3	B-2	B-3	C-2	C-3	D-2	D-3						
Park (Tapered Octagonal) - Continued																				
20	FPH20F	98	370	610 x 190	8M30@500	270	1.96	2.64	1.34	2.09	0.33	0.96	0.17	0.31	161.0	18.0	107.3	12.0	n/a	622
22	FPL22F	106	370	610 x 190	8M30@500	120	1.00	1.55	0.55	1.10	-	0.30	-	-	143.0	11.5	95.3	7.7	n/a	693
25	FPLL25F#	96	433	610 x 190	12M30@640	160	0.86	1.53	0.31	1.03	-	0.02	-	-	167.0	13.8	111.3	9.2	n/a	774
25	FPL25F	152	480	610 x 190	12M30@640	300	1.96	3.06	1.18	2.09	0.15	0.58	-	-	278.0	22.3	185.3	14.9	n/a	1,077
25	FPM25F	182	511	610 x 190	16M30@680	500	3.06	4.75	1.83	3.29	0.38	0.99	-	0.17	331.0	26.0	220.7	17.3	n/a	1,318
27	FPLL27F#	96	462	610 x 190	12M30@640	160	0.71	1.44	0.12	0.85	-	-	-	-	185.0	13.5	123.3	9.0	n/a	871
27	FPL27F	152	509	610 x 190	12M30@640	300	1.86	2.88	0.98	1.95	-	0.33	-	-	296.0	19.8	197.3	13.2	n/a	1,210
27	FPM27F	182	527	610 x 190	16M30@680	500	2.92	4.47	1.79	3.06	0.09	0.87	-	0.03	392.0	29.1	261.3	19.4	n/a	1,557
30	FPLL30F#	96	496	610 x 190	12M30@640	160	0.57	1.31	0.01	0.69	-	-	-	-	232.0	16.2	154.7	10.8	n/a	1,171
30	FPL30F	152	542	610 x 190	16M30@680	300	1.72	2.64	0.83	1.75	-	0.09	-	-	368.0	23.2	245.3	15.5	n/a	1,536
30	FPM30F	182	571	610 x 190	16M30@710	500	2.57	4.13	1.26	2.75	-	0.32	-	-	430.0	26.0	286.7	17.3	n/a	1,826

The maximum allowable sail areas include 100kg for every 1 m² or part thereof. A complete range of luminaire mounting hardware and accessories is available to suit these columns. These columns can be supplied with climbing rungs and a safety climb system, usually starting at 6 metres to restrict unauthorised access. (Except for those shown with #) There is no allowance in the above maximum sail areas for the additional sail area from climbing rungs and safety climb system.

Track																				
6	FTM6F	134	239	610 x 165	4M24@350	280	3.39	5.01	2.56	3.82	1.68	2.39	1.04	1.54	32.0	7.0	21.3	4.7	3B	108
8	FTM8F	134	268	610 x 190	4M30@350	280	3.67	4.72	2.79	4.15	1.91	2.61	1.19	1.68	54.0	9.3	36.0	6.2	n/a	177
10	FTM10F	134	304	610 x 190	4M30@500	280	3.01	4.31	2.54	3.29	1.79	2.34	1.11	1.49	75.0	11.1	50.0	7.4	n/a	250
12	FTM12F	134	340	610 x 190	4M36@500	280	2.65	3.96	2.22	3.03	1.67	2.18	1.02	1.39	101.0	13.2	67.3	8.8	n/a	319
15	FTL15F	88	340	610 x 190	4M36@500	170	1.34	2.03	0.96	1.51	0.69	0.79	0.39	0.59	93.0	11.9	62.0	7.9	n/a	343
15	FTM15F	134	382	610 x 190	8M30@500	280	2.45	3.53	1.83	2.69	1.46	1.55	0.88	1.25	142.0	16.3	94.7	10.9	n/a	455
20	FTL20F	134	456	610 x 190	12M30@640	350	2.94	4.28	1.99	3.18	0.69	1.45	0.49	0.69	225.0	22.0	150.0	14.7	n/a	795
20	FTM20F	149	520	610 x 190	12M30@640	450	4.31	6.01	3.22	4.58	1.44	2.43	1.11	1.44	296.0	27.0	197.3	18.0	n/a	960
20	FTH20F	200	573	610 x 190	16M30@680	750	6.59	9.56	4.68	7.09	2.35	3.48	1.55	2.31	390.0	34.0	260.0	22.7	n/a	1,180
25	FTM25F	149	614	610 x 190	16M30@710	450	4.03	5.44	2.99	4.13	0.97	2.04	0.58	0.77	429.0	34.0	286.0	22.7	n/a	1,400
25	FTH25F	200	663	610 x 190	16M30@800	750	5.77	8.58	3.81	6.12	1.24	2.39	0.55	1.22	492.0	39.0	328.0	26.0	n/a	1,755
27	FTM27F	149	643	610 x 190	16M30@800	450	3.93	5.24	2.83	3.97	0.59	1.65	0.14	0.49	458.0	37.0	305.3	24.7	n/a	1,690
27	FTH27F	200	704	610 x 190	16M36@860	750	5.91	8.25	4.09	6.04	1.32	2.49	0.91	0.97	652.0	46.0	434.7	30.7	n/a	1,970
30	FTM30F	149	704	610 x 190	16M30@800	450	3.65	4.97	2.14	3.75	0.19	0.98	-	-	492.0	36.0	328.0	24.0	n/a	2,000
30	FTH30F	200	750	610 x 190	16M36@860	750	5.68	7.79	3.87	5.68	1.05	2.14	0.44	0.67	758.0	52.0	505.3	34.7	n/a	2,405

The maximum allowable sail areas include 100kg for every 1 m² or part thereof. A complete range of luminaire mounting hardware and accessories is available to suit these columns. These columns can be supplied with climbing rungs and a safety climb system, usually starting at 6 metres to restrict unauthorised access. There is no allowance in the above maximum sail areas for the additional sail area from climbing rungs and safety climb system.

GENERAL NOTES

GENERAL

G1 ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE BUILDER BEFORE CONSTRUCTION IS COMMENCED. THE ENGINEERS DRAWINGS SHALL NOT BE SCALED.

G2 DURING CONSTRUCTION THE BUILDER SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART IS OVERSTRESSED DURING CONSTRUCTION ACTIVITIES.

G3 WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT S.A.A. CODES AND THE LOCAL STATUTORY AUTHORITIES REGULATIONS INCLUDING ALL AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

G4 THE CONSULTING ENGINEER HAS NOT DESIGNED AND IS NOT RESPONSIBLE FOR STRUCTURAL ELEMENTS OTHER THAN SHOWN ON THE ENGINEERING DRAWINGS.

FOUNDATIONS

F1 SITE SHALL BE STRIPPED OF ALL VEGETATION IN BUILDING AREAS. ENSURE THAT NO VEGETATION OR ORGANIC MATTER EXISTS IN THE SOIL STRATA BELOW THE FOOTINGS OR SLAB ON GROUND FOR A DEPTH OF AT LEAST 1000mm.

F2 IF BASE AT FOOTING EXCAVATIONS BECOMES WET PRIOR TO POURING CONCRETE THEN THE WATER AND ANY SOFTENED MATERIAL SHALL BE REMOVED PRIOR TO POURING THE FOOTINGS.

F3 SOIL RUPTURE INTENSITY (Q kPa/m): THE WORST EXPECTED CONDITIONS SHOULD BE USED WHEN ESTIMATING THE STRENGTH OF PILE FOOTINGS FOR SOILS WHICH ARE DEFINED AS FOLLOWS:

1. GOOD BEARING (Q = 600 kPa/m) WELL COMPACTED ROCK SOIL, HARD CLAY AND WELL BONDED SAND AND GRAVEL WITH GOOD SURFACE WATER DRAINAGE AND FOOTING NORMALLY ABOVE WATERTABLE.

2. MEDIUM BEARING (Q = 300 kPa/m) COMPACT MEDIUM CLAY, WELL BONDED SANDY LOAM, BONDED SAND AND GRAVEL WITH REASONABLE SURFACE WATER DRAINAGE.

3. POOR BEARING (Q = 150 kPa/m) SOFT CLAY, POORLY COMPACTED SAND AND SOILS THAT TEND TO ABSORB LARGE AMOUNTS OF WATER PROVIDED THESE DO NOT DEVELOP INTO SLUSH.

NOTE: THESE VALUES FOR Q ARE A GUIDE ONLY FOR ANY FOUNDATION, THE VALUE OF Q SHALL BE ASSESSED BY ENGINEER.

CONCRETE

C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 – CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

C2 ALL CONCRETE SHALL BE PRE-MIXED FROM AN APPROVED SUPPLIER. PORTLAND CEMENT TYPE A TO BE USED. BLENDED CEMENT NOT TO BE USED. TABLE BELOW INDICATES STRENGTH GRADES.

C3 ALL CONCRETE SHALL BE VIBRATED.

C4

LOCATION	STRENGTH GRADE	AGGREG SIZE (MAX)	SLUMP NOMINAL (mm)
FOOTING-STANDARD SOILS	32	20	80
FOOTING-AGGRESSIVE SOILS	40	20	80

REFER NOTE C11 FOR DEFINITION OF AGGRESSIVE SOILS.

C5 REINFORCEMENT SYMBOLS:

Y : HOT ROLLED DEFORMED BARS TO AS 1302
F : FABRIC TO AS 1304.
R : STRUCTURAL GRADE PLAIN ROUND BAR TO AS 1302.

THE NUMBER FOLLOWING IS THE BAR DIAMETER IN mm.

C8 THE BUILDER SHALL SUPPLY ALL NECESSARY BAR CHAIRS (PLASTIC TIPPED), SUPPORT AND SPACER BARS, AND CONCRETE BLOCKS FOR FOOTING AND SLAB REINFORCEMENT, TO PLACE STEEL IN ITS CORRECT POSITION DURING CONCRETING.

C7 COVER TO REINFORCEMENT: 75mm ALL ROUND (CONCRETE WELL LINER INCLUDED).

C8 SPLICES IN REINFORCEMENT SHALL ONLY AS APPROVED BY THE ENGINEER.

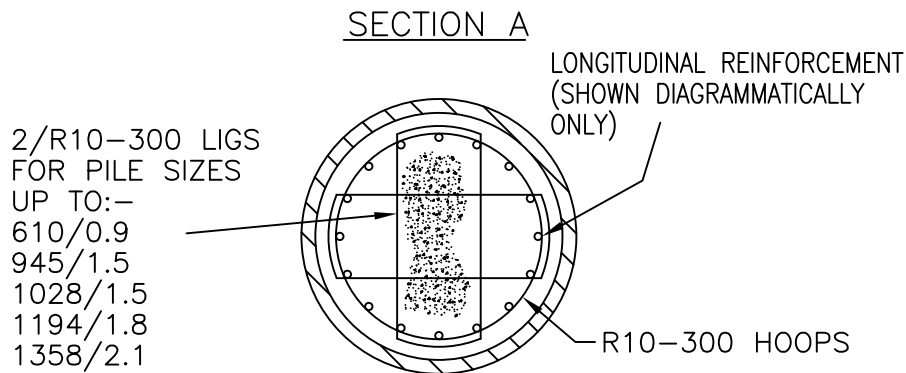
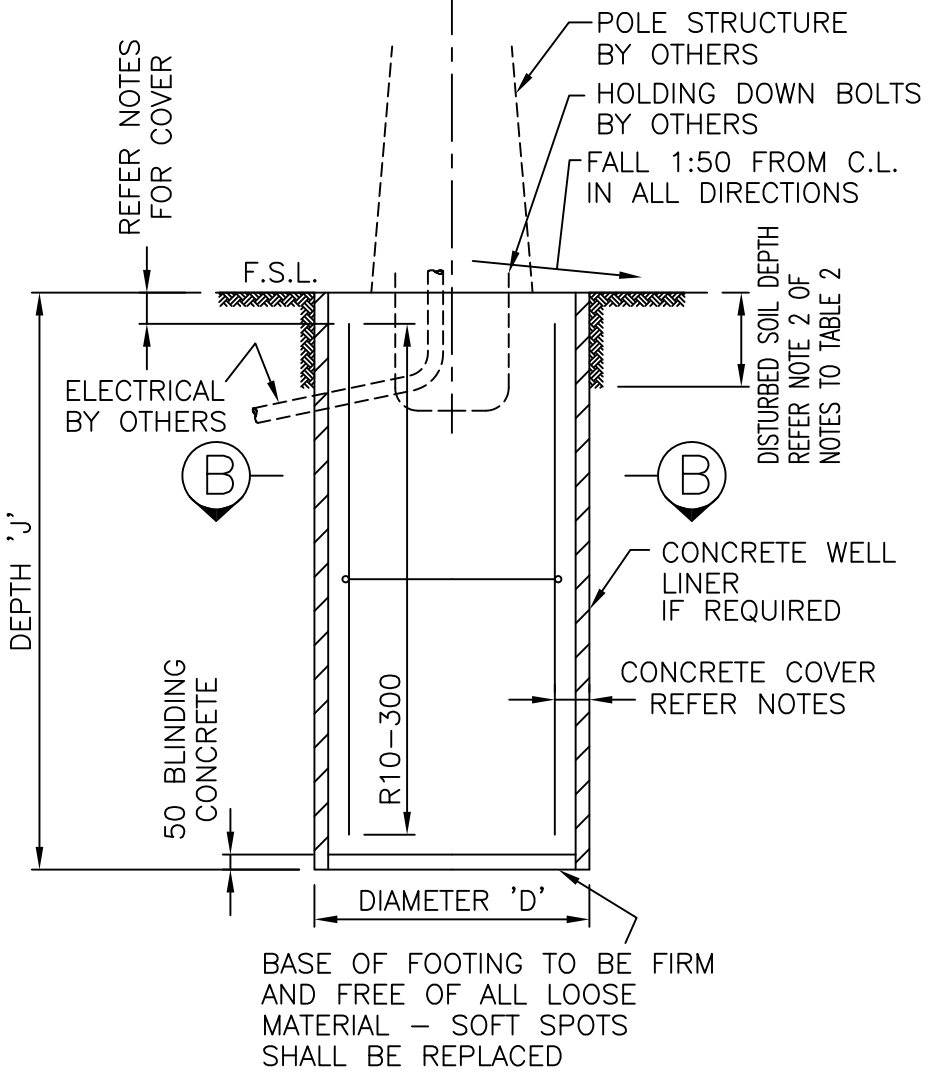
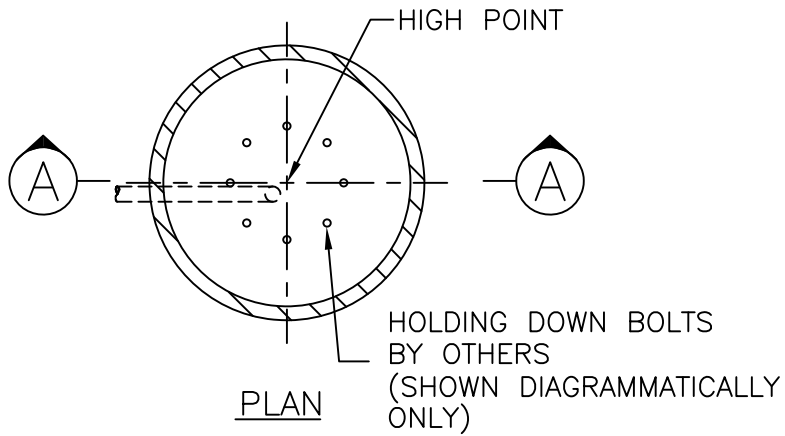
C9 CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS BY ONE OF THE FOLLOWING METHODS:

- (i) AN APPROVED CURING COMPOUND, OR
- (ii) CONTINUOUS WATER SPRAYS FOR PERIODS, OR
- (iii) THE SURFACE SHALL BE THOROUGHLY MOISTENED AND COVERED COMPLETELY WITH PLASTIC SHEET SECURELY HELD IN POSITION.

C10 ENSURE THAT SIDES OF EXCAVATION ARE SUCH THAT SOIL DOES NOT FALL IN DURING PLACEMENT OF CONCRETE.

C11 AGGRESSIVE SOILS (REFER NOTE C4)

SHALL INCLUDE SOILS WHERE pH:<4.0, SOILS WHERE GROUNDWATER CONTAINS HIGH CONCENTRATIONS OF SULPHATE IONS, OR SALT RICH SOILS. THIS MATTER SHOULD BE REFERRED TO THE ENGINEER.



SEE SHEET 2 FOR TABLES 1 & 2

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		DIMENSIONS IN MILLIMETRES		DO NOT SCALE	
6	17/12/98	TRANSCRIBED TO AUTOCAD AS ISSUE OPTION	IW	A3	
REVISION	DATE	DESCRIPTION	BY	CHKD	CHECKED BY: DATE
					PT 12/91
					DATE 10/87
					DRAWN BY: TLH
					SCALE NTS
					DRAWING No. M 148 SHT 1 OF 2

TABLE 1 - FOOTING REINFORCEMENT

FOOTING DIAMETER (mm)	REINF PCD (mm)	REINFORCEMENT TYPE R (BAR SIZE / No OF BARS)			
		1	2	3	4
610	404	Y16/16	Y20/20	Y24/20	Y36/12
945	735	Y20/24	Y36/12	Y36/18	Y36/24
1028	820	Y24/20	Y32/18	Y32/26	Y36/28
1194	972	Y28/18	Y36/20	Y36/28	
1358	1125	Y28/24	Y36/24		

NOTES TO TABLE 2

1. LEGEND

Q = SOIL RUPTURE INTENSITY (kPa/m). REFER FOUNDATION NOTES.

M = MAXIMUM WORKING MOMENT RATED AT TOP OF PILE FOOTINGS (kNm). REFER RIVERTON ENGINEERING FOR VALUE.

V = MAXIMUM WORKING SHEAR RATED FOR AT TOP OF PILE FOOTING (kN). REFER RIVERTON ENGINEERING FOR VALUE.

D = FOOTING DIAMETER (mm).

J = FOOTING DEPTH (m).

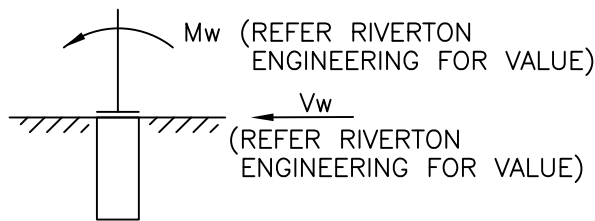
R = REINFORCEMENT TYPE (REFER TABLE 1)

2. DISTURBED SOIL DEPTH

TABLE 2 HAS BEEN PREPARED FOR A DISTURBED SOIL DEPTH OF UP TO 300mm. THE ANALYSIS IGNORES THIS LAYER OF SOIL IN ASSESSING THE SOIL STRENGTH. FOR DISTURBED SOILS DEPTHS GREATER THAN 300mm, REFER TO THE ENGINEER.

3. USING TABLE 2 TO SELECT A FOOTING:

STEP 1 - ASSESS THE MAXIMUM WORKING MOMENT Mw AND MAXIMUM WORKING SHEAR Vw EXERTED BY THE POLE STRUCTURE ON THE FOOTING AT THE TOP OF THE PILE FOOTING.



STEP 2 - ASSESS THE SOIL RUPTURE INTENSITY Q AT THE SITE.

STEP 3 - FROM Mw AND Vw GIVEN BY RIVERTON ENGINEERING DETERMINE THE MAXIMUM DESIGN MOMENT Md AND MAXIMUM DESIGN SHEAR Vd IN THE FOLLOWING WAY:

3.1 IF A SITE SOIL INVESTIGATION IS CARRIED OUT AND IS DETERMINED ACCURATELY THEN

$$M_d = M_w$$

$$V_d = V_w$$

3.2 IF A SITE SOIL INVESTIGATION IS NOT CARRIED OUT AND Q IS ESTIMATED THEN

$$M_d = 1.3 M_w$$

$$V_d = 1.3 V_w$$

STEP 4 - USING 1, Md AND Vd ENTER TABLE 2 AND SELECT AN M/V COMBINATION THAT EXCEEDS OR EQUALS Md/Vd IE. M > Md AND V > Vd. READ OFF THE CORRESPONDING FOOTING DIAMETER, FOOTING DEPTH AND REINFORCEMENT TYPE.

TABLE 2 - STANDARD PILE FOOTING RATINGS

Poor Soil (Q = 150)			Average Soil (Q = 300)			Good Soil (Q = 600)		
M/V	D/J	R	M/V	D/J	R	M/V	D/J	R
0.7/6.7	610/0.9	1	1.49/0.9	610/0.9	1	3.1/1.3	610/0.9	1
2.6/1.2	610/1.2	1	5.4/1.8	610/1.2	1	10.9/3.2	610/1.2	1
4.1/1.5	945/1.2	1	13.0/3.6	610/1.5	1	17.1/4.3	945/1.2	1
6.4/2.1	610/1.5	1	20.3/4.9	945/1.5	1	26.3/6.1	610/1.5	1
10.0/3.0	945/1.5	1	25.7/6.0	610/1.8	1	44.5/9.5	1028/1.5	1
10.9/3.2	1028/1.5	1	39.9/8.7	945/1.8	1	40.9/8.8	945/1.5	1
12.7/3.5	610/1.8	1	43.5/9.3	1028/1.8	1	51.6/10.9	610/1.8	1
22.1/5.3	610/2.1	1	44.6/9.5	610/2.1	1	80.2/16.2	945/1.8	1
25.1/5.9	1194/1.8	1	50.5/10.7	1194/1.8	1	89.5/18.0	610/2.1	1
28.6/6.5	1358/1.8	1	69.2/14.2	945/2.1	1	101.4/20.1	1194/1.8	1
37.5/8.2	1028/2.1	1	75.3/15.3	1028/2.1	1	139.8/24.0	945/2.1	1
35.3/7.8	610/2.4	1	87.6/17.7	1194/2.1	1	143.4/24.3	610/2.4	2
43.6/9.4	1194/2.1	1	99.6/19.9	1358/2.1	1	152.3/25.2	1028/2.1	1
69.5/14.2	1194/2.5	1	106.3/20.6	610/2.7	2	177.4/27.7	1194/2.1	1
52.9/11.1	610/2.7	1	110.4/21.0	945/2.4	1	202.2/30.1	1358/2.1	1
54.9/11.5	945/2.5	1	120.3/22.0	1028/2.4	1	215.6/30.7	610/2.7	3
59.8/12.4	1028/2.4	1	140.2/24.0	1194/2.4	1	224.0/31.2	945/2.4	1
69.5/14.2	1194/2.4	1	152.5/25.3	610/3.0	2	244.2/32.2	1028/2.4	1
75.5/15.4	610/3.0	1	159.9/26.0	1358/2.4	1	284.6/34.2	1194/2.4	1
79.0/16.0	1353/2.4	1	166.2/26.6	945/2.7	1	324.5/36.2	1378/2.4	1
82.1/16.6	945/2.7	1	181.0/28.1	1028/2.7	1	337.3/36.9	945/2.7	2
89.3/18.0	1028/2.7	1	210.9/30.6	1194/2.7	1	367.5/38.4	1028/2.7	2
103.7/20.4	610/3.3	1	238.4/31.9	945/3.0	2	427.7/41.4	1194/2.7	1
103.9/20.4	1194/2.7	1	240.7/32.0	1358/2.7	1	482.8/44.1	945/3.0	3
117.5/21.8	945/3.0	1	260.0/33.0	1028/3.0	1	525.7/46.3	1028/3.0	1
128.0/22.9	1028/3.0	1	302.8/35.1	1194/3.0	1	611.5/50.5	1194/3.0	1
149.2/24.9	1194/3.0	1	329.3/36.5	945/3.3	2	664.4/53.2	945/3.3	3
162.2/26.2	945/3.3	1	345.2/37.3	1358/3.0	1	696.3/54.8	1358/3.0	2
170.0/27.0	1358/3.0	1	358.7/37.9	1028/3.3	2	723.3/56.2	1028/3.8	3
176.7/27.7	1028/3.3	1	440.2/42.0	945/3.6	2	841.3/61.4	1194/3.3	2
217.2/30.9	945/3.6	1	557.8/47.9	1194/3.6	1	886.7/62.9	945/3.6	4
205.8/30.3	1194/3.3	1	475.7/43.8	1358/3.3	1	958.2/65.3	1358/3.3	2
217.2/30.9	945/3.6	1	479.4/44.0	1028/3.6	2	965.5/65.5	1028/3.6	3
236.7/31.8	1028/3.6	1	573.3/43.7	945/3.9	3	1123.0/70.8	1194/3.6	2
275.9/33.8	1194/3.6	1	624.1/51.2	1028/3.9	3	1256.0/75.2	1028/3.9	4
282.7/34.2	945/3.9	2	635.2/51.8	1358/3.6	1	1278.0/76.0	1358/3.6	2
309.1/35.5	1028/3.9	2	730.5/56.5	945/4.2	3	1460/82.0	1194/3.9	3
314.6/35.7	1358/3.6	1	795.1/59.8	1028/4.2	3	1663.0/89.0	1358/3.9	4
360.0/38.0	1194/3.9	2	826.5/60.9	1358/3.9	2	1860.0/95.3	1194/4.2	4
362.3/38.1	945/4.2	2	925.1/64.2	1194/4.2	2			
394.6/39.7	1028/4.2	2	1053.5/68.5	1358/4.2	2			
410.2/40.5	1358/3.9	2						
459.3/43.0	1194/4.2	2						
523.2/46.2	1358/4.2	2						

NOTE

THE CALCULATIONS AND THIS DRAWING WERE PREPARED BY CONSULTING ENGINEERS GUTTERIDGE HASKINS & DAVEY PTY LTD (GHD) ON BEHALF OF RIVERTON ENGINEERING AS A RECOMMENDATION ONLY, FOR RIVERTON ENGINEERING LIGHTING COLUMNS. RIVERTON ENGINEERING WILL SUPPLY THE WORKING BASE MOMENT AND SHEAR FOR THE PARTICULAR LIGHTING COLUMN TO BE SUPPLIED.

THE ONUS FOR THE SELECTION OF SITE SOIL CONDITIONS, THE PARTICULAR FOUNDATION AND ANY FURTHER ENGINEERING DESIGN, CALCULATIONS AND VERIFICATION FOR THE FOUNDATION IS UPON THE PURCHASER / CONTRACTOR.

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				DIMENSIONS IN MILLIMETRES		PILE FOOTINGS STANDARD DETAILS	
				DO NOT SCALE			
7	6/1/99	TABLE 2 LINE 36 (POOR SOIL) WAS 382.7/34.2	IW	20			
6	17/12/98	TRANSCRIBED TO AUTOCAD AS ISSUE OPTION	IW	20			
REVISION	DATE	DESCRIPTION	BY	CHKD	CHECKED BY:	DATE	DRAWN BY:
					PT	12/91	TLH
						DATE	SCALE
						10/87	NTS
							DRAWING No. M 148 SHT 2 OF 2

From: [REDACTED]
Sent: Wed, 25 Sep 2019 10:25:30 +1000
To: [REDACTED]
Cc: [REDACTED]; Roberts, Mick; Toomey, Richard
Subject: Boomanulla Oval Sports Lighting
Attachments: 1583BM-ES1 Addendum No. 1. Boomanulla Oval LED Illumination installation.pdf, 1583BM-ES1 Rev 2 Boomanulla Oval LED Illumination installation - tech spec.pdf, 1583BM-E2 Rev 2 (A1).pdf

Morning [REDACTED]

As previously discussed during site meetings with tendering contractors, we have revised a clause in the Scope Of Work to identify exactly which equipment is provided by the lighting supplier and the associated installation tasks.

Addendum No. 1. Attached specifies modification to the scope and is reflected on revised Drawing 1583BM-E2 also attached. We have also clarified the size and type of underground field cabling to be used in the existing conduits.

Please send the amended documents to the tendering contractors for inclusion in their tender submissions.

Although the drawing revision and Addendum No. 1. covers the modifications we include a full copy of the Specification for your records.

Regards,

[REDACTED]
Managing Director
Mobile [REDACTED]

AEC

**Design &
Consulting**

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ADDENDUM No.1

SPORTSGROUND ILLUMINATION BOOMANULLA OVAL L.E.D. SPORTS LIGHTING

ELECTRICAL INSTALLATION

TECHNICAL SPECIFICATION No: 1583BM-ES1

EFFECT OF ADDENDUM

This addendum forms part of and shall be read in conjunction with Specification 1583BM-ES1.

Specification 1583BM-ES1 shall be altered to the extent only that is required to comply with this addendum and the specification shall otherwise remain unaltered. Where this addendum conflicts with the specification, this addendum shall prevail and the specification shall be altered to comply with the addendum.

TENDERER REQUIRED ACTIONS

Tenderers shall allow in their tendered price for all work, materials, equipment and other costs necessary to comply with and to meet all requirements of complying with this addendum.

Tenderers shall acknowledge in their written tender the receipt of and compliance with this addendum.

EXTENT OF ADDENDUM

Modify item **h)** from Clause **SCOPE OF WORK 1.02.** as follows:

- h) Install new mobile network and sports lighting controller and associated equipment as indicated on the drawings. Make all required terminations. On completion of the switchboard and controls installation notify and provide access to the certified Genetec and Synergis equipment installers engaged by this Contractor. Contact Hills Fyshwich (supplier) for local installer list.

Drawing 1583BM-ES2 has been raised to Revision 2 to reflect this Addendum.

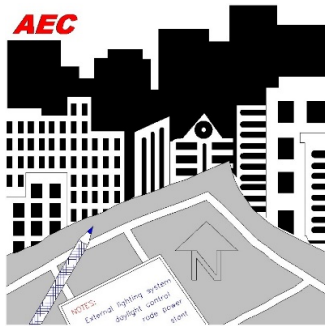
CLARIFICATIONS

Queries raised during pre-tender site inspections are clarified as detailed:

1. Drawings 1583BM-E1 and 1583BM-E2 indicate U.G. circuit cabling from M.S.B. to Pylon 1 via Pylon 2 is 10mm² and 16mm². Tenderers are to allow for field cabling to be 4x16mm² Cu PVC each circuit.

SPORTSGROUND ILLUMINATION BOOMANULLA OVAL L.E.D. SPORTS LIGHTING

ELECTRICAL INSTALLATION TECHNICAL SPECIFICATION



Prepared By:

Consulting Engineers

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A.C.T. 2607

Telephone: 61014770
Email: aecengineers@tpg.com.au

On behalf of: ACT Sports and Recreation Facilities

SPECIFICATION No. 1583BM-ES1

Rev'n	Date	Details	Auth
A	13/06/19	Updated Copy of Specification 1563-ES1 Revision 0	
0	27/06/19	Tender Issue	
1	02/09/19	Revised Tender Issue	
2	20/09/19	Addendum No. 1. Issue	



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SUPPLEMENTARY INSTRUCTIONS TO TENDERERS

1. FORM OF TENDER AND SCHEDULES

Tenders submitted for the specified works shall be made as a lump sum on the itemised Tender Schedules and Forms contained at the rear of this Specification and in accordance with the Superintendent's Request For Tender requirements. **Offers submitted in any other form shall be deemed invalid tenders.**

Such tender which shall be for the complete works, to be carried out entirely as specified herein, shall override all other written correspondence and offers and shall exclude any standard conditions of sale appended thereto.

The information contained in the completed Schedules will be used in assessing the merit of the tender and the information contained thereon shall be regarded as defining only the manufacturers and the minimum capacities and shall not override any of the specified requirements.

2. TENDER DOCUMENTS

- a) The tender documents are this specification, design drawings listed herein and associated forms and schedules attached hereto.
- b) Tenderers wishing to view related documents in connection with this work may do so by contacting the Engineer and making arrangements to inspect the documents during normal office hours.
- c) Tenderers finding discrepancies in, or omissions from the specification or other documents, or having any doubt as to the meaning or intent of any part thereof, shall at once notify the Superintendent not later than five (5) working days before the closing of tenders.
- d) Revision or corrections issued during tender period will be made only by Notice to Tenderers or Addenda duly issued, a copy of which will be issued to each Tenderer. Except for such revision or corrections no one is authorised to amend any contract document during the tender period.
- e) Revisions or corrections issued during the time of tender are to be covered in the Tender and shall become a part of the Contract documents.

3. SUB-CONTRACTED WORK

If the tenderer proposes to employ Sub-contractors for any part of parts of the work he shall submit, with his tender, their names and full details of their experience. He shall clearly define the exact scope of work he proposes to sub-contract. He shall set out in detail how he proposes to maintain control of quality and of timing of the work.

4. INDUSTRIAL RELATIONS & EMPLOYMENT OBLIGATIONS (IRE)

Before contractors (including head contractors, sub-contractors and trade contractors) will be permitted to tender for building work or be engaged to perform building work on any ACT Government site, they will be required to hold a current Industrial Relations and Employment Certificate (IRE Certificate). Contractors must maintain a current IRE Certificate while they are engaged on an ACT Government site.

Contractors must provide a copy of their current IRE Certificate with tender submissions.



5. DEFINITIONS

Where referenced in this document, the following terms shall have the meanings indicated below:

Principal shall mean an authorized officer of the A.C.T. Government, Transport Canberra and City Services Directorate, Sport and Recreation Facilities.

Engineer shall mean an authorized representative of AEC Engineers.

Superintendent shall mean an authorized representative of Projex Building.

Contractor shall mean the person, company or firm contracted by the Superintendent to supply, execute or carry out the works specified herein.

Sub-contractor shall mean a person, company or firm contracted by the Contractor to execute any part of the Contractor's obligations under the contract for the works specified herein.

Works shall mean the supply or execution of goods, services or materials specified herein.

6. THE CONTRACT

The contract will be an AS2545 – 1993 as amended, a copy of the standard is available for inspection at the Superintendants office.

SPECIAL CONDITIONS OF CONTRACT

The following special conditions of contract shall become a part of the contract for electrical services installation. They shall override any other conditions to the extent of any conflict.

EXTENSION OF TIME

1. If, after the acceptance of the tender, the Contractor shall be delayed or impeded in the delivery of the specified goods and services by any of the happenings or events listed in paragraph (2) he shall be entitled to a reasonable extension of the time fixed for completing the works, whether the delay or impediment occur before or after the time or extended time fixed for completion, provided that he shall have given to the Superintendent the earliest possible notice in writing of his claim for an extension of time.
2. The following are the happenings or events referred to in paragraph (1):
 - a) Extra work, alterations to or deviation from the specified works directed in writing by the Superintendent.
 - b) The suspension of the works in whole or in part pursuant of a direction of the Superintendent.
 - c) The failure of the Superintendent / Engineer to approve drawings within the time stipulated in the contract or where no such time is stipulated within a reasonable time after the Contractor has requested such approval.
 - d) Any other default on the part of the Superintendent in the performance of their obligation under the Contract.
 - e) War, insurrection, riot or civil commotion.
 - f) Orders or directions of governments or government instrumentalities or public authorities.



- g) Industrial dispute.
 - h) Act of God
 - i) Accident during transport or installation goods of the work, fire, flood or explosion (not in any case caused by an act or omission of the Contractor or his Sub-contractors).
 - j) Any other happening or event which causes delay should be accepted as a reasonable ground for an application by the Contractor for an extension of time, provided the causes of the delay were not foreseen by the Contractor and that all reasonable action has been taken by the Contractor to prevent such delay extending the time for the completion of the Contract.
3. The Superintendent shall within a reasonable time after receipt of such notice grant to the Contractor from time to time in writing such extension of time for completing the works either prospectively or retrospectively as may be reasonable in the circumstances of the case; any such extensions of time shall exonerate the Contractor from any claim or demand on the part of the Project Manager in respect of such delay.
4. The Superintendent may at any time require the Contractor to have any statement of facts upon which the Contractor relies for an extension of time verified by Statutory Declaration of some responsible person which Statutory Declaration must be forthwith supplied by the Contractor and failing the supply of same the request for an extension of time may be absolutely refused.

WARRANTY

The contractor shall warrant correct and satisfactory operation of the installation and materials for a period of twelve calendar months from the date of practical completion of the installation contract as certified by the Engineer and issued by the Superintendent. During this period the installation contractor shall co-operate with the Engineer to determine the cause of any fault or failure to perform. This contractor shall rectify or replace in a timely manner, all materials or installation which may be directed by the engineer as faulty or defective.

INSURANCES

- 1. The contractor shall hold and maintain during the contract currency, a public liability insurance cover of twenty million (\$20,000,000) dollars.
- 2. The contractor shall hold and maintain during the currency of the contract a worker's compensation insurance policy meeting the requirements of ACT law.

Provision to the Superintendent of valid certificates verifying the above insurances shall be a condition of contract and shall be fulfilled before the contractor may commence.

SAFETY

The contractor by the fact of tendering, agrees to abide by the Superintendent's Safety Policies and any reasonable instructions issued by the Superintendent. The contractor shall submit to the Superintendent before commencing work, a contractors' safety plan relevant to the works together with the contractors' "Safe Work Method Statement" (SWMS).

PAYMENT

- 1. The Contractor shall on acceptance by the Superintendent of delivery of the works, submit a tax invoice detailing the type and quantities delivered and the agreed



tendered price payable. Invoices are to be received by the Superintendent before the last day of calendar month for goods delivered and work completed during that month.

The Superintendent shall within 35 days of receipt of the invoice make payment to the Contractor of the invoiced amount less any adjustment arising from (2) below. A retention amount of 10% of the invoiced amount shall be withheld by the Superintendent until Practical Completion of the works is certified. Retention shall be reduced to 5% of the contract value thereafter until final completion is certified. Unconditional banker's guarantees are acceptable in lieu of retention.

2. Where the Project Manager considers that the works delivered do not meet the entire contracted requirements, he shall within 7 days of acceptance of the delivery, notify the Contractor in writing detailing the nature of the discrepancy and the amount of the tender price to be retained pending rectification of the discrepancy by the Contractor.

PARTIES TO THE CONTRACT

This contract shall form the agreement between Projex Building Pty Ltd (Superintendent) and the selected tenderer for the works (Contractor).



PREAMBLE TO SPECIFICATION

CONTRACTOR TO INFORM THEMSELF

The tenderer shall be deemed to have carefully examined the Contract Documents, and the Specification and Drawings.

The tenderer shall be deemed to have carefully considered local conditions, visited the site of the proposed work, and made any field survey necessary for proper planning and execution of the work. Failure to do so shall in no way relieve the contractor of responsibility for changes or unanticipated costs due to field conditions.

After a tender has been accepted the responsibility for any misunderstanding or error shall rest with the Contractor.

OBVIOUS WORK

If neither the Specification nor the drawings contain any particulars of minor work or equipment, which are nevertheless clearly to be inferred, or are necessary for the completion of a correctly working system, all such shall be supplied and executed by the Contractor without extra charge.

QUALITY OF WORK AND MATERIALS

All materials, fittings, accessories and apparatus shall be new and of first grade design and manufacture unless the reuse of existing materials is specified herein.

The Contractor shall submit samples of all accessories, fittings and apparatus proposed for use in the works of this contract to the Engineer for approval. Only such items which are approved may be installed. Failure to comply with this provision may result in the unconditional rejection of such items when inspected on site.

Workmanship shall be a high standard throughout and only first class trades personnel shall be employed on the work in their respective trades.

If the Contractor executes any defective work or supplies any plant inferior in quality or deficient in quantity to that specified, notwithstanding that approval may have previously been obtained for such work or materials or that progress payment may have been made in respect thereof, the Superintendent may give notice of defect and the Contractor shall rectify the defective work or plant immediately at their own expense.

For the purpose of inspection, no part of the work shall be assembled or installed until previous work has been inspected in accordance with the Schedule of Inspection and tests. Where the Contractor fails to obtain approval of inspections or tests scheduled, the Superintendent may require dismantling of installed work to allow inspection. In this event, the Contractor shall dismantle and re-assemble such work at his own expense.

CODES AND STANDARDS

Work not covered by the requirements of Statutory Authorities or this Specification shall comply with the appropriate publication of the Standards Association of Australia.

Wherever a Standard Specification or Code of Practice is referred to in this Specification, it shall mean the latest date of issue and / or revisions.

Where no relevant code or standard is published by the Standards Association of Australia the relevant publication issued by the British Standards Institution shall apply.



REGULATIONS

Work performed and equipment provided shall comply in every respect with the regulations, by-laws and requirements of Relevant Statutory Authorities.

The Contractor shall comply with and give all notices required by any Authority which has jurisdiction affecting the Works. He shall pay and indemnify the Superintendent against any fees or charges legally demandable by any such Authority in respect of the Works. On completion of the Works hereunder or upon the termination of the employment of the Contractor for any reason the Contractor shall surrender to the Superintendent any documents in his possession issued by or evidencing the approval of Authorities in connection with the Works.

PROPRIETARY BRAND NAME REFERENCES

Any reference in this Specification as "EQUAL TO" proprietary brand names or to a particular manufactured product should not be interpreted to mean that the particular article or product is the only one to be supplied or used.

The reference is given as an indication of the quality class, type and finish of the items to be used.

Articles or products of equal type and quality produced by other manufacturers may be nominated with the Tender and will be considered for approval by the Engineer.

PROTECTION

The Contractor shall be responsible for the protection from damage of all materials, plant or equipment placed by him on the site or other location. He shall ensure they remain clean and free of dust or debris.

RESPONSIBILITY FOR DIMENSIONAL CONTROL

The Contractor shall assume full responsibility for dimensional control of the work. He shall check all dimensions before setting out and draw any anomalies to the attention of the Superintendent immediately so that appropriate rectification may be made.

DESIGN DRAWINGS

The drawings shall be read in conjunction with the specification and are intended to be mutually explanatory and complete but all work called for by one and not the other shall be fully executed.

The drawings shall not be departed from in any way whatsoever except by the written consent of the Superintendent. During the execution of the work one set of prints of the Contract drawings shall be available for reference where the work is to be carried out.



TESTS

When the Contract requires tests to be made, the Contractor shall give notice as specified in writing to the Superintendent of the date on which such test will be made. Unless otherwise notified, the tests shall be commenced on that date and shall be carried out in the presence of the Engineer.

A copy of the test results shall be provided to the Engineer within 7 days of the test date.

Where the Contract provides for tests, the Contractor shall provide free of charge such labour, materials, electricity, fuel water, stores, apparatus and instruments as may reasonably be demanded to carry out such tests in accordance with the Contract, and he shall give facilities to the Superintendent / Engineer to carry out such tests.

The Contractor shall carry out tests as specified for the Contract works. These tests shall include:

- i) Tests during construction and at Manufacturers' workshops as specified.
- ii) Tests for compliance with Statutory Authorities.
- iii) Tests for operation and performance as specified to establish that equipment and systems operate within the specified limits, for the purposes of practical completion.
- iv) Test of performance if specified.



SECTION 1 - GENERAL

GENERAL DESCRIPTION 1.01

The works associated with this specification comprise the provision of all labour, materials, plant and equipment to form complete electrical installations for L.E.D. floodlighting to the Boomanulla Oval. The site of the works is Block 22, Section 34, Narabundah, A.C.T

- a) All work shall be carried out in accordance with the relevant Australian codes and standards and the requirements of statutory authorities. Refer clause 2.06 and Section 3 for particular standards relevant to the works.
- b) Except where otherwise specified, all materials and workmanship shall comply with current specifications and/or codes of the Standards Association of Australia or, in their absence, the relevant British Standard Specification or Code prior to the date of the tender on which this contract was let.
- c) Sport and Recreation Facilities have automated the booking and payment process for available sports grounds around the ACT. The manual lighting control consists of manual and timed operation pre-programmed and adjusted on site. This method is documented and intended as a backup to a new remote lighting control system with web / mobile communications interface.
- d) Tendering contractors are to submit a proposed installation programme demonstrating their ability to meet the construction schedule. Failure to provide a programme will result in rejection of tender.

SCOPE OF WORK 1.02

Note: It is intended the works are completed and ready for use by T.B.A.

The scope of work shall include, but not necessarily be restricted to, the supply, installation and setting to work of the following:

- a) Install four (4) new 3200mm curved cross arms supplied by others to existing 25 meter tall steel pylons Mount 16 x L.E.D. flood lights supplied by others on cross arms to suit drawing 1583BM-3. Supply and install associated cabling and secure to pylon. Ensure all holding down nuts are spot welded to bolts or pole baseplates. Cross arms to suit pylons 76mmØ O.D. spigots.
- b) Supply and install field cabling to pylons including full size neutral for connection to remote MEN at each pylon. Terminate at insulated links and provide 20A circuit breakers mounted in base to protect minimum 2.5mm² cabling within pylon and associated fittings.
- c) Cabling to luminaires from poles to be protected by flexible conduits equal to "Cocky Proof Flex" available from Project Lighting. Provide sealed steel glands at fittings ensuring a bottom entry to terminal boxes.
- d) Install new sub-mains within existing M.S.B. from existing 100A circuit breaker to adjacent Lighting Control Section.
- e) Liaise with ACTPLA to ensure inspections for compliance with local regulations are undertaken.
- f) Replace pylon hatch access screws with new anti-tamper screws.



- g) Adjust floodlights to suit lighting design aiming schedule and demonstrate complete lighting system to engineer at night. Allow to adjust fittings as directed by the engineer during commissioning in response to verification measurements recorded by the engineer.
- h) Supply and install new mobile network and sports lighting controller and associated equipment as indicated on the drawings. Make all required terminations. On completion of the contractors switchboard and controls installation notify the Superintendent that power is available and provide access to the certified Genetec and Synergis equipment installers engaged by this Contractor. Contact Hills Fyshwich (supplier) for local installer list.
- i) Make good all trenching and damaged grounds compact to 95% of surrounding ground, replace grass cover by reseeding and covering with straw mulch. Remove spoil from excavation unsuitable for backfilling.
- j) Undertake electrical earthing remote (MEN) at each pylon including main earths and equipotential bond.
- k) Provide as installed documentation as specified.
- l) Provide 12-months warranty on all materials and works from date of handover. Provide manufactures warranty of minimum 5 years or as otherwise accepted in tender submission for L.E.D. luminaires.

PROJECT MILESTONES 1.03

The following curial project milestones are to be addressed and form the installation programme:

- Order POE/MSB cubicle, L.E.D. luminaires and cross arms – **1 week from engagement**
- Establish Site 2 days T.B.A.
- Survey Works / Cable Location T.B.A.
- Install Lighting + controls T.B.A.
- Obtain a C of O / Certificate of Electrical Safety T.B.A.
- Testing and Commissioning T.B.A.
- Remove Site Establishment and Make good T.B.A.

ASSOCIATED WORK BY OTHERS 1.04

BY SUPERINTENDENT

1. 1 set of contract and design documents.
2. L.E.D. Luminaires (pick up in ACT).
3. Cross arm assemblies.



SCHEDULE OF DRAWINGS 1.05

The following drawings form part of and shall be read in conjunction with this specification.

DWG No	TITLE
1583BM-E1	Boomanulla Illumination Works Site Plan & Details.
1583BM-E2	Boomanulla Oval Switchboards Diagrams & Details.
1583BM-E3	Boomanulla Oval Aiming Details

SITE DIMENSIONS 1.06

Check all relevant dimensions on Site before proceeding with the work. Under no circumstances shall dimensions be scaled from drawings.

CODES AND STANDARDS 1.07

The works delivered under this contract shall comply with all relevant codes and standards and with regulations applying at the sites of work. In particular, they shall comply with codes and standards referenced in this specification. Refer Section 2.

APPROVALS AND FEES 1.08

Arrange all inspections to the work required by statutory authorities.

Obtain all approvals required by statutory authorities and pay all fees and charges required in connection with obtaining these inspections and approvals. Before practical completion, submit to the Superintendent certificates of approval and inspection by statutory authorities.

Any changes to the work, required by local and other authorities prior to their granting final approval, shall be carried out without extra charge. Copies of all required approvals and certificates shall be forwarded to the Principal.

PRECAUTIONS IN CARRYING OUT WORKS 1.09

Where any current Australian Standard published by the Standards Association of Australia is appropriate to storage, transport and use of materials, plant, equipment, to work processes or to safety precautions the provision of such Standard shall be observed except if they conflict with any statutory or special requirements of proper authority in which case the latter shall apply.

In the absence of any such statutory or special requirements or relevant Australian Standard, the Contractor and all Sub-contractors shall ensure that suitable procedures are observed and all proper care is taken.

CRANES, SCAFFOLDING & LIFTING EQUIPMENT 1.10

Provide all necessary temporary lifting equipment, crane, knuckle boom, scaffolding, framing or other supports to enable installation and access to the work.

INSURANCE 1.11

The contractor shall effect and shall maintain during the currency of the contract, the following insurance policies as a minimum:

- a) Workers Compensation: Cover to be unlimited and in compliance with statutory requirements applying at the location of all works under this contract.
- b) Public Liability: Minimum cover ten million dollars for any event.



- c) Contractors insurance covering accidental loss, storm damage, theft or malicious damage to the works. Minimum cover to the entire value of the contract works.

AS CONSTRUCTED DOCUMENTS 1.12

On completion of construction and commissioning and before certification of practical completion, provide:

1. A complete set of drawings detailing the whole of the work as actually constructed. These shall as a minimum comprise the contract drawings amended to reflect as constructed detail.
2. Schedules of equipment installed giving make, model, capacities and the name, address and phone number of the manufacturer.
3. Manufacturer's technical publications relevant to the installed equipment, giving spare parts lists and specific maintenance and service instructions.

SUBMISSION

Initially submit and obtain the superintendents' approval to issue:

- One copy of the As Constructed drawings and equipment details.

Where required by the Superintendent, re submit these with amendments requested.

On receipt of the Superintendent's approval to issue, provide:

- Three sets of prints of as constructed drawings.
- Three copies of the schedules of equipment and manufacturer publications.
- One computer disc containing the as constructed documentation in PDF and DWG (AutoCAD) formats.

DEFECTS LIABILITY PERIOD 1.13

The contractor shall warrant the whole of the work of the contract against defective workmanship and materials (fair wear and tear excepted) for the defects liability period. This period shall be for twelve months from the date of the Certificate of Practical Completion or such alternative period as may be certified in writing by the Superintendent. This warranty shall exclude equipment and materials supplied by the Superintendent.

The contractor shall renew any materials, equipment or complete system which proves to be defective in workmanship or materials.

HANDOVER & PRACTICAL COMPLETION 1.14

Handover of the illumination works will be accepted and practical completion certified by the Superintendent when the following have been satisfied:

- All scheduled test and commissioning has been witnessed as required by the superintendent and scheduled test and commissioning reports submitted to and signed for by the Superintendent.
- Defects which affect system performance have been rectified to the Engineers' satisfaction.
- All systems have been certified as complying with statutory codes.
- As constructed documentation has been submitted to and accepted by the Superintendent.
- All systems are put into operation to the Engineer's satisfaction.



FINAL COMPLETION 1.15

Final completion of the works will occur when the following have been satisfied:

- All defects notified before or during the defects liability period have been rectified to the superintendents' satisfaction.
- Evidence (signed maintenance sheets) of completion of all required maintenance visits and work is submitted.
- A satisfactory final inspection of the works by the Contractor and the Superintendent has been done and any defects noted have been rectified.
- Any user complaints arising from inadequate performance of the works have been satisfactorily attended to.

TESTS, NOTICES AND FEES 1.16

Provide all the necessary instruments and plant for carrying out insulation and continuity tests and other tests that may be required during the progress of the work, and on completion of the works.

Make all arrangements with the local supply authorities for connection of supply and attend to the serving of all notices required by the authorities.

Upon completion each section of the installation shall be inspected and passed as satisfactory by the Superintendent. Pay all fees and lodge all applications/notification forms associated.

COMPLETION AND CLEANING 1.17

Clean up after the completion of work. The whole of the site of the works shall be cleared of all debris, rubbish, off-cuts, waste and scrap materials etc. and the whole of the service and other areas wherein the work has been carried out, shall be left in a clean and tidy condition, entirely ready for use.

ENGINEERS' ATTENDANCE 1.18

Should any test, either a balancing test, aiming or illumination test or loading test, being witnessed fail to satisfy the Engineer the test shall be repeated in the presence of the Engineer after the contractor has taken corrective action. Should the test fail the second time, the attendance of the Engineer at all subsequent tests shall be paid for at the rate of \$150.00 per hour and such charges shall be deducted from payment due to the Contractor.



SECTION 2 – REFERENCED CODES AND STANDARDS

All work, materials, equipment or plant supplied under this specification shall comply with the requirements of the relevant codes, regulations and standards referenced in this section. Where relevant codes are not specifically referenced below, compliance shall be deemed a condition and requirement of this specification and such compliance shall be the responsibility of the Contractor and Suppliers. It is required that the Contractor or Supplier has the necessary skills and knowledge in the field to determine which non-referenced codes and standards may apply to the works and materials to be provided and to make due allowance for such compliance.

Reference to a particular publication shall mean the latest edition or revision of that publication at the time of tender.

GENERALLY 2.01

Building Code of Australia and relevant appendices
Local building, development and zoning regulations.
Statutory conditions of any development or building approval affecting the works.
Regulations and requirements of the fire authority having jurisdiction.
Regulations and requirements of the electrical supply authority having jurisdiction.
AS/NZS 3000 Wiring Rules.
AS/NZS 2053 Conduits and Fittings Electrical Installations
AS 2756 Low Voltage Switchgear
AS/NZS 3947 Low Voltage Control Gear
AS/NZS 3008 Selection of Cables
AS/NZS 5000 Electric Cables – Polymeric insulated.
Australian standards referenced in Building code of Australia or in mandatory Australian standards to the extent that these may be mandatory in respect of the specified works.
AUSTRALIAN STANDARDS RELEVANT TO THE PARTICULAR WORKS

UNDERGROUND INSTALLATION 2.02

AS/NZS 4026 Cabling for Underground Distribution
HB 252 Communications Manual

CABLE TESTING 2.03

AS/NZS 1660.3 Test Methods for Electrical Cables

SWITCHBOARDS & ENCLOSURES 2.04

AS/NZS 1939 Degrees of Protection Electrical Enclosures
AS/NZS 3439 Switch Gear Assemblies & Construction
AS 1136 Switchboard Panels Form Of Construction
AS 1939 Degree Of Protection
AS 1595 Cold Rolled, Unalloyed Steel Sheet and Strip.

PROTECTION & CONTROL DEVICES 2.05

AS/NZS 3111 Circuit Breakers Not Exceeding 100A.
AS/NZS 2184 Moulded Case Circuit Breakers
AS/NZS 61008 Residual Current Operation Circuit Breakers
AS/NZS 61009 Integral Residual Current Circuit Breakers
AS/NZS 60269 Low Voltage Fuses
AS 3135 Semi Enclosed Fuses
AS/NZS 3134 High Rupturing Capacity Fuses



EXTERNAL /SPORTS AND AREA LIGHTING 2.06

AS 2560 Sports Lighting series
 AS 4282 Control of Obtrusive Effects of Light
 AS 3827 Lighting System Performance
 CIE 112 Glare Evaluation

In accordance with AS2560.1 and AS2560.2.3 Table 1, the following minimum requirements are to be met in the sports lighting design:

Floodlighting Illumination Performance

Item	Uniformity min/average	Uniformity min/maximum	Glare Rating	Maintained Average	Compliance Level
Standard requirement	0.3 min	N.A.	50 max	50 Lux	Semi-professional Training

Note: The following definition applies to the average illuminance:

Maintained - Average illuminance at 50,000 hours of use based on LM-80 test report indicating the luminaires L70 rating.

Provide copies of test reports and statements of conformity.



SECTION 3 POWER AND WIRING

POWER SUPPLY 3.01

The Power supply will be 415 volt, three phase and neutral, 50Hz with a prospective fault level of at least 18kA.

Final sub circuits with cabling under 10mm² 9KA
Final sub circuits with cabling 10mm² and over 15 kA.

METERING 3.02

Existing metering arrangement to remain.

MAIN EARTH 3.03

The installations shall be effectively earthed on the MEN principle.

The method of connection shall be such that removal of one of the field earth conductors will not leave any other portion of the installation unearthed.

The earth conductors shall be insulated with green and yellow PVC insulation.

SWITCHBOARD / CONTROL PANEL 3.04

WIRING

All wiring shall be arranged in a regular manner with bends set at 90° and securely held in position with approved saddles, insulating bushes being used where necessary.

All secondary wiring and meter wiring of the switchboards shall be carried out in P.V.C. type V-75 insulated switchboard cable, 2.5 sq.mm minimum shall be used. All such wiring shall be similar colours to those of the respective busbars, etc., to which connections are made.

The terminations shall be made with compression type lugs and terminated on approved terminals.

Wiring shall be carried out in such a way as to make circuits and connections easily traceable. Cable marking ferrules or similar shall be used at each termination. Terminals shall be designed in an approved manner.

All terminals shall be fitted with flat washers and securely fixed with lock nuts or spring washers.

All secondary, control and circuit wiring shall be neatly laced and saddled to cable tray or ducting as appropriate, installed parallel to the main features of the switchboards.

All wiring shall be minimum 1.5mm² cable.

Control and secondary wiring shall be jointed only at terminals or terminal strips.

All wiring terminated on terminal strips shall be fitted with insulated "Hylug" connectors. Cables connected to stud type terminals shall be fitted with "Burndy" or similar approved lugs. Solder lugs shall not be used.

All switchboard equipment shall be designated by name or number on a label to indicate its function. These labels shall be fixed adjacent to the corresponding items of equipment. In addition, each removable cover shall be provided with a label indicating the equipment enclosed.



The labels shall be made from white engraved polished Traffolyte having appropriately worded black block letters ranging from 6mm to 25mm high as appropriate.

LIGHTING CONTROL CONTACTORS

Contactors for light circuit control shall be mounted behind the escutcheon panels. The contactors shall be rated at per pole as required, and shall be controlled as shown on the drawings and by accepted remote control solution.

UNDERGROUND INSTALLATION

All underground mains and sub mains shall be enclosed in high pressure fibre cement pipe or rigid P.V.C Category A Underground Conduit. They shall not be direct buried

All underground pipes and fittings shall be supplied and installed by the Contractor. The Contractor shall supervise all excavation and back-filling.

Obtain all service provider information regarding existing cabling, pipework, conduits etc (Dial Before U Dig).

Engage a competent cable locator to provide a certificate indicating all measures have been taken to locate cables not shown on any as installed documents. Take all precautions to avoid cutting services. Inform Superintendent seven (7) days prior to trenching or coring.

Make good any damage caused to existing services and facilities. Ensure an irrigation plumber is available during trenching to repair pipework immediately.

PHASE BALANCING 3.05

It shall be the contractors' responsibility to ensure that the whole of each electrical installation is balanced over the three phases of supply to the satisfaction of the supply authority.

Over the total installation the loads shall be connected to the phases to maintain a main load balance to within 5%.

CONTROLS 3.06

The Genetec Synergis remote control of the L.E.D. flood lighting will provide the following outputs / inputs to operate switchboard relays & contactors:

- On 100% (online booking made 50 lux lighting with signal sent according to authorized remote user adjustable start time).
- Status (online indication via input from lighting contactor relay).

The control solution utilizes the mobile communications networks with local wireless communication to eliminate the need for additional communications infrastructure.



SECTION 4 INSTALLATION METHODS

GENERAL 4.01

Where wiring is specified to equipment, all necessary terminations and connections for all power and control wiring shall be made in an approved manner and the equipment left ready for use.

The installation shall be complete in every respect; all conductors, conduits and accessories necessary for compliance with the current SAA Wiring Rules, the requirements of the local Supply Authority, and the proper functioning of the installation, shall be supplied and installed to the satisfaction of the Superintendent whether individually specified herein or not.

Protect from damage by other trades all electrical equipment and materials that have been installed, and thoroughly clean all equipment before it is handed over.

CONDUITS & FITTINGS 4.02

GENERAL

Generally rigid P.V.C underground conduit shall be used throughout. The size of the conduits shall be as indicated in the S.A.A. Wiring Rules or on the drawings.

Conduits 40mm in diameter or larger shall be sealed with a readily removable inert material to prevent the passage of vermin.

FLEXIBLE CONDUIT

Flexible PVC conduit shall be used to connect all adjustable connected fittings. This shall be **Heavy duty reinforced PVC** equal to "Cock Proof Flex".

CONDUITS IN CONCRETE

Where P.V.C conduit is embedded in concrete which is screeded or vibrated after pouring, or where conduits may be subjected to heavy traffic prior to placing of concrete, the Contractor shall in both cases, provide constant supervision by a responsible person to ensure that conduit runs are not damaged.

Where conduit is damaged or bumped during installation, the affected section shall be cut and a new piece installed.

The Contractor shall be responsible for such damage and shall make good at his own cost. Curves in conduits shall not have a radius less than standard long sweep bends.

All conduits shall be installed in such a manner as to allow easy draw in of cables.



SECTION 5 DESCRIPTION OF FITTING AND MATERIALS

CIRCUIT BREAKERS 5.01

Circuit breakers shall be of the thermal-magnetic type.
Circuit breakers shall comply with the following Australian Standards:-

- AS/NZS 3111 - for ratings not exceeding 100A have a symmetrical interrupting capacity of up to and including 10,000 amps.
- AS 2184 - for ratings having a symmetrical interrupting capacity over 10,000 amps.

HIGH RUPTURING (HRC) FUSES 5.02

High rupturing capacity fuses and bases shall comply with referenced standards.

TIME SWITCHES 5.03

Time switches shall be fully programmable, digital, seven (7) day with battery backup and manual override function. "Merlin Gerin IHP1C-CCT15720" by Schneider Electric Co. models are required by the Principals' maintenance arrangements.

METAL CABLE TROUGHING 5.04

Metal cable troughing shall be constructed from electro-zinc galvanised sheet steel in the manner depicted on the power drawing.

Joining of troughing shall be bolted fishplate and all nuts and bolts shall be electro-zinc galvanised.

The troughing shall be so constructed that there are no protruding screws or sharp edges within the trough which could cause damage to cables.

The troughing shall be supplied complete with all necessary angle, tee and four-way junction pieces and blanking-off plates, all made complete for their specific purpose by the same manufacturer of the troughing.

PLASTIC CABLE TROUGHING 5.05

Rigid plastic troughing shall be robustly constructed to avoid sagging between supports, and to avoid warping. The troughing shall be smooth inside and out, and shall be complete with clip-on lid.

Coupling pieces, bends and "T" off pieces shall be approved purpose-made moulded units, specially designed and manufactured to facilitate fixing to the specified standard sizes of troughing.

CABLE TRAY 5.06

Perforated cable tray shall be electro-zinc galvanised, slotted, similar to Admiralty Pattern, and shall have minimum folded edges. The "Standard" tray shall be formed with the perforations punched from outside of the folded edge to avoid any sharp edges or burrs existing on the outside face. The "reverse" tray shall be perforated from the inside and shall be used in positions where cables are laid horizontally in the tray. Trays shall be minimum thickness 1.6mm up to 300mm wide and 2.0mm for trays 300mm wide and greater.



CONDUCTORS 5.08

THERMOPLASTIC INSULATED CABLES (TPI)

Thermoplastic insulated cables shall be of minimum 250 volt grade, have stranded copper cores, of minimum section 2.5 mm^2 , unless otherwise specified, and shall be manufactured in accordance with AS 5000.1, and shall be type V75.

THERMOPLASTIC INSULATED AND SHEATHED CABLES (TPS)

Thermoplastic insulated and sheathed cables shall be of minimum 250 volt grade, have stranded copper cores, of minimum section 2.5 mm^2 unless otherwise specified, and shall be manufactured in accordance with referenced standards, and shall be type V75.

ISOLATING SWITCHES 5.09

Isolating switches shall be capable of passing safely, making and interrupting their rated current. Motor isolating switches shall also be capable of withstanding, without damage, the effects of motor locked rotor currents. The mechanism shall have a positive, quick break action.

Switches shall be of totally enclosed pattern, metal-clad or insulated as specified and having the number of poles and the current rating specified. Cable entries shall be suitable for the type of cable being installed.

Switches mounted upon distribution switchboards shall be of the flush mounting pattern exposing only the switch toggle or knob.

Metal-clad switches used for isolation of appliances, motors, etc., shall be stove enameled.

Where the conduit installation is galvanized the switch shall be galvanized.

Isolating switches shall have a polycarbonate body where specified.



SECTION 6 INSPECTION, TESTING AND COMMISSIONING

GENERAL 6.01

Notify the Superintendent and arrange all inspections to the works or to equipment and materials as scheduled. Obtain all associated approvals from the Superintendent and the Engineer as required.

Carry out tests to the works as scheduled. Arrange witnessing and approval of test results. If the results are unsatisfactory, take necessary remedial action as instructed or approved by the engineer and re-test until results are satisfactory. Record and document all test results and submit documentation to the Superintendent.

Commission plant equipment and complete systems, document final performance measurements and set the entire works to operate as specified. Notify the Superintendent and Engineer seven (7) days prior to test or inspection dates to confirm availability.

SCHEDULE OF INSPECTIONS 6.02

The following inspections will be carried out by the superintendent or engineer. **Give notice as specified** and arrange inspections at the appropriate point in the construction programme. Provide access as necessary to enable inspection.

ITEM TO BE INSPECTED	TIME OF INSPECTION
Materials and equipment technical data	Submit and obtain approval to use proposed fittings, outlets, switches, conduits. All items to be approved prior to purchase.
Samples of fittings, panels, switches and equipment	After technical data has been submitted provide physical samples of items nominated by the Superintendent / Engineer.
Wiring and control circuit diagrams	Obtain examination and approval to use prior to installation.
Practical completion	When commissioning and testing is complete and before handover.

SCHEDULE OF TESTS 6.03

Carry out the following scheduled tests and any other test deemed necessary by the engineer. Tests shall finally be witnessed as required by the engineer and measured results recorded and submitted for approval. Commissioning and performance tests shall form part of the commissioning programme, be documented in the operating manuals and approved results shall be obtained before certification of practical completion.

TEST REQUIRED	DETAILS
Floodlighting control operation.	Test each specified function of operation and demonstrate to Engineer. Engineer Witness.
Floodlight aiming.	Contractor to carry out preliminary aiming to points as indicated in design documents. Arrange attendance of Engineer at night time, test lighting distribution in conjunction with Engineer and re-adjust as directed by Engineer. Engineer Witness



SPORTSGROUND FACILITIES UPGRADE

TECHNICAL SPECIFICATION No. 1583BM-ES1

SCHEDULES OF TENDERED PRICES

Page 1 of 1

Name of Tenderer.....

Contact Name Telephone No

The above named tenderer hereby tenders to perform the works as described in the specification and associated drawings entirely without qualification in consideration of the amounts listed below. All amounts are inclusive of GST.

Boomanulla Oval Sports Lighting

ITEMS	PRICE
Controls	
Base Control Equipment & Switchboard Works	
Cross arm & luminaire Installation	
Cabling/termination & Fault Protection	
Aiming, Commissioning & Documentation	
Other	
Tendered Price (Total)	

Signed by Tenderer.....

WitnessDate



SPORTSGROUND FACILITIES UPGRADE

TECHNICAL SPECIFICATION No. 1583BM-ES1

SCHEDULES OF RATES

Sheet 1 of 1

These schedules must be completed and returned as a part of any valid tender offer for the specified works. No tender shall be considered for acceptance unless it includes the completed schedules. These schedules will be used as the basis for any variations up or down in the contract amount. All amounts inclusive of GST.

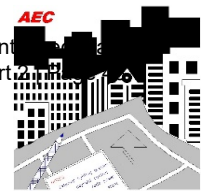
Name of Tenderer: _____

Contact Name: _____ Telephone No _____

- | | | |
|----|---|---------------|
| 1. | Provide trade personnel for additional approved work | \$...../ hour |
| 2. | Provide additional L.E.D. floodlight equal to proposed | \$..... |
| 3. | Provide 300x600mm deep trenching with 50mmø U.G Conduit backfilled, compacted and re-seeded | \$...../ M |
| 4. | Provide hydroexcavation work | \$...../ hour |

SIGNATURE OF TENDERER DATE.....

SIGNATURE OF WITNESS DATE.....



ADDENDUM No.1

SPORTSGROUND ILLUMINATION BOOMANULLA OVAL L.E.D. SPORTS LIGHTING

ELECTRICAL INSTALLATION

TECHNICAL SPECIFICATION No: 1583BM-ES1

EFFECT OF ADDENDUM

This addendum forms part of and shall be read in conjunction with Specification 1583BM-ES1.

Specification 1583BM-ES1 shall be altered to the extent only that is required to comply with this addendum and the specification shall otherwise remain unaltered. Where this addendum conflicts with the specification, this addendum shall prevail and the specification shall be altered to comply with the addendum.

TENDERER REQUIRED ACTIONS

Tenderers shall allow in their tendered price for all work, materials, equipment and other costs necessary to comply with and to meet all requirements of complying with this addendum.

Tenderers shall acknowledge in their written tender the receipt of and compliance with this addendum.

EXTENT OF ADDENDUM

Modify item **h)** from Clause **SCOPE OF WORK 1.02.** as follows:

- h) Install new mobile network and sports lighting controller and associated equipment as indicated on the drawings. Make all required terminations. On completion of the switchboard and controls installation notify and provide access to the certified Genetec and Synergis equipment installers engaged by this Contractor. Contact Hills Fyshwich (supplier) for local installer list.

Drawing 1583BM-ES2 has been raised to Revision 2 to reflect this Addendum.

CLARIFICATIONS

Queries raised during pre-tender site inspections are clarified as detailed:

1. Drawings 1583BM-E1 and 1583BM-E2 indicate U.G. circuit cabling from M.S.B. to Pylon 1 via Pylon 2 is 10mm² and 16mm². Tenderers are to allow for field cabling to be 4x16mm² Cu PVC each circuit.

GENERAL ELECTRICAL SPECIFICATION NOTES:

AEC ENGINEERS WILL INSPECT THE INSTALLATION WORKS UNDERTAKE COMMISSIONING TESTS & VERIFICATION MEASUREMENTS AND CERTIFICATION ON COMPLETION.

PROVIDE 12 MONTHS WARRANTY ON INSTALLATION WORKS AND MATERIALS FROM THE DATE OF PRACTICAL COMPLETION CERTIFIED BY THE ENGINEER.

CONTRACTORS MUST MAINTAIN A CURRENT IRE CERTIFICATE WHILE THEY ARE ENGAGED ON AN ACT GOVERNMENT SITE.

GAIN ENGINEERS' APPROVAL TO ALTER ANY PART OF THE APPROVED DOCUMENTED WORKS OR REJECTION & RECTIFICATION WORK WILL BE DONE AT COST TO THE CONTRACTOR.

ON COMPLETION OF SWITCHBOARD INSTALLATION WORKS SUBMIT REQUIRED ACTEWAGL REQUEST FOR METER CONNECTION FORM AND ENERGISE THE INSTALLATION.

MAKE ALL NECESSARY ARRANGEMENTS FOR SHUTDOWNS ETC. WITH EVO ENERGY/ACTEWAGL AND PAY ANY ASSOCIATED FEES & CHARGES.

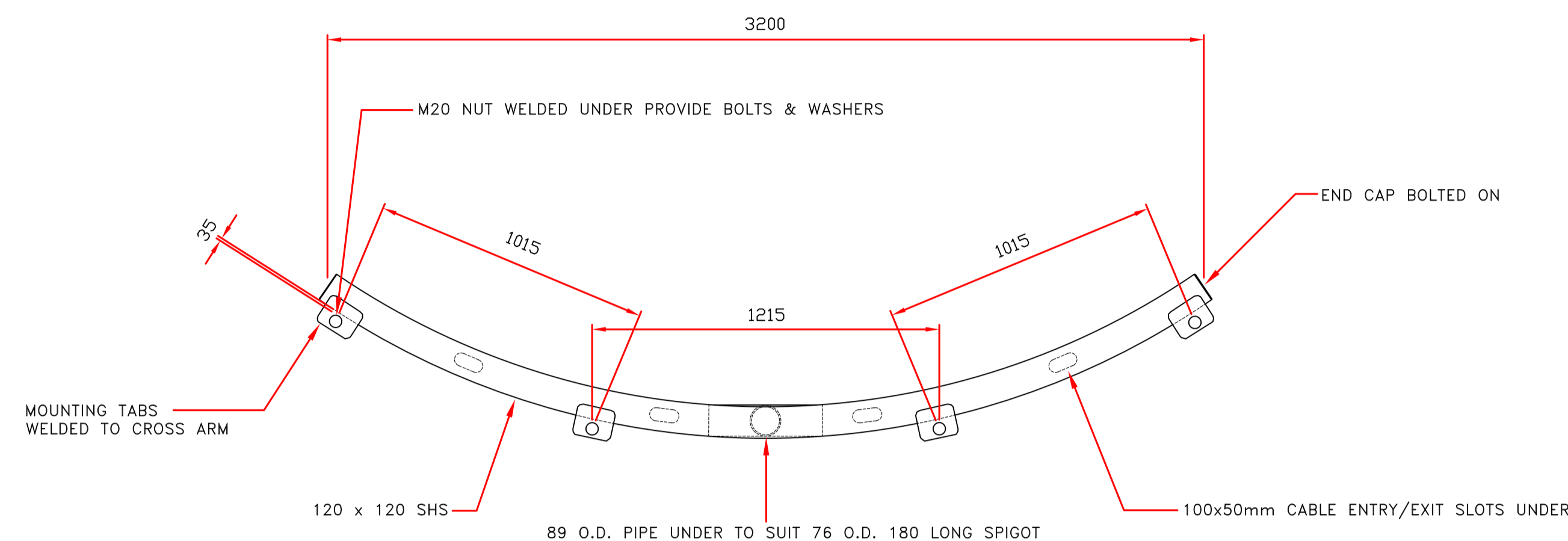
USE BARRIERS AND SIGNAGE TO PROTECT THE PUBLIC FROM INJURY ATTRIBUTED TO THE EXCAVATION OR INCOMPLETE WORKS.

ALL WORK TO COMPLY WITH:

- > BUILDING CODE OF AUSTRALIA
- > AS 3000 (WIRING RULES)
- > AS 3008 (CABLE SELECTION & DE-RATING)
- > AS 2560 SERIES (SPORTS LIGHTING STANDARDS)
- > AS 4282 (OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING)

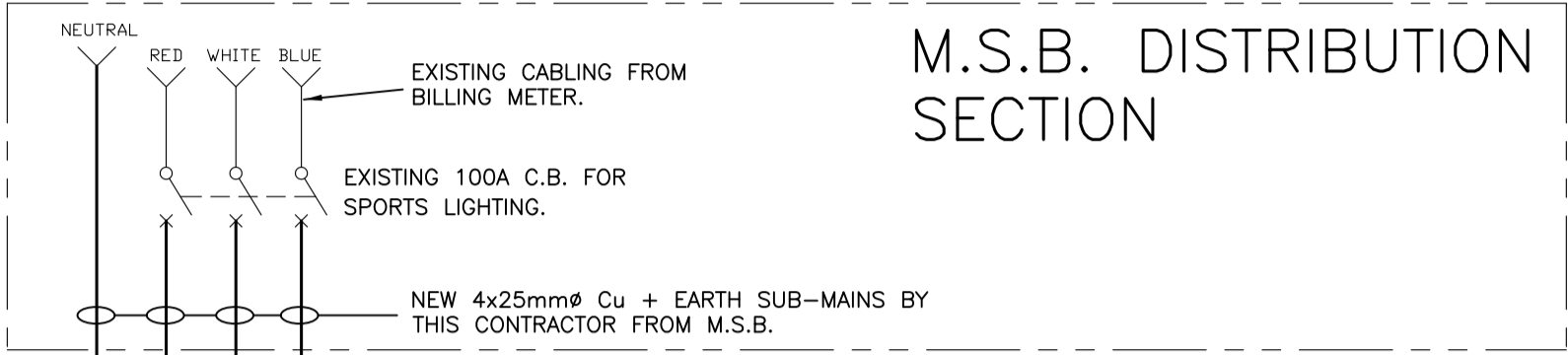
REFER TO DRAWING 1563-E3 FOR AIMING DETAILS.

CROSSARM ASSEMBLIES

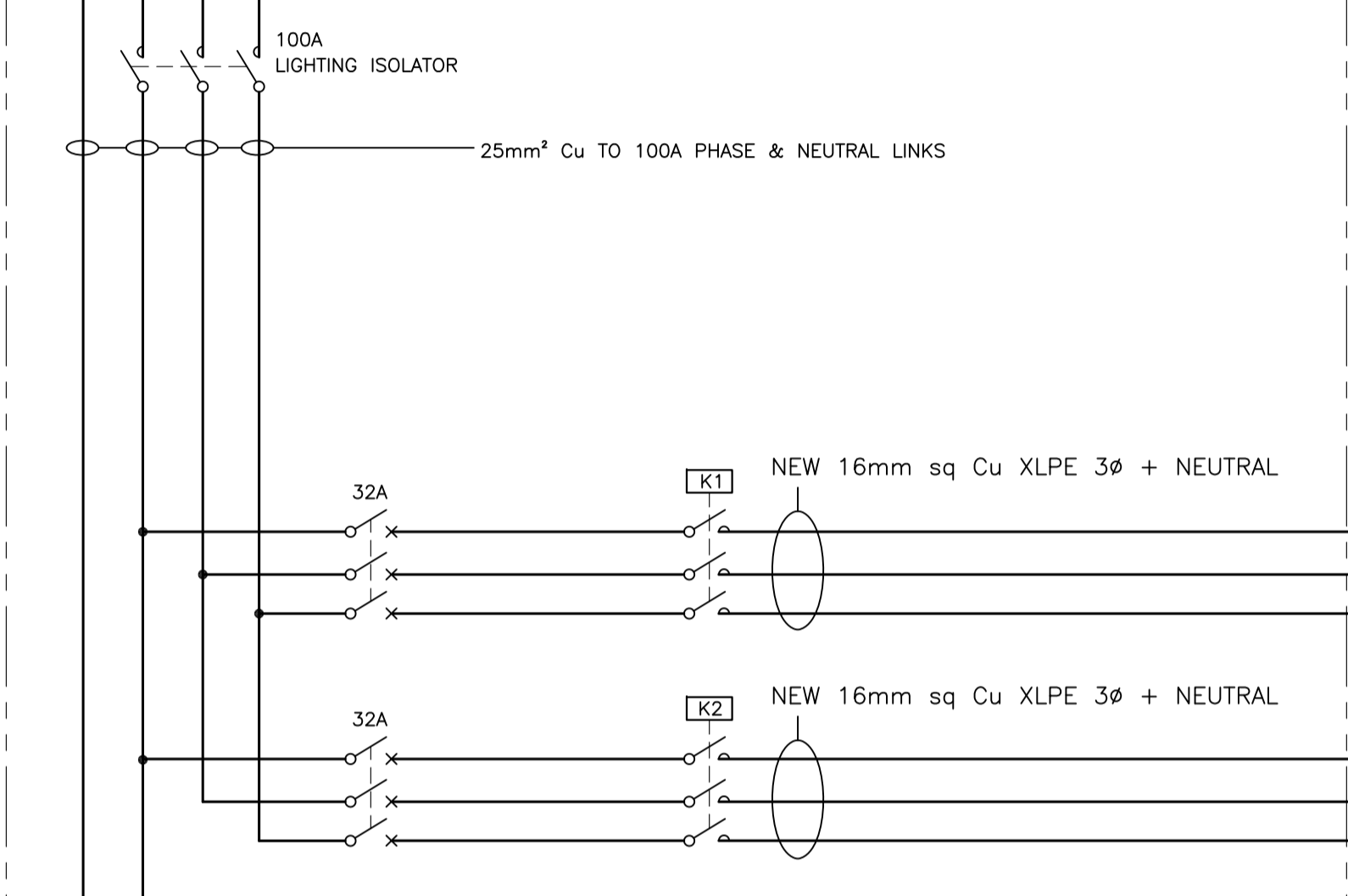


HCJ882-XARM CROSSARMS

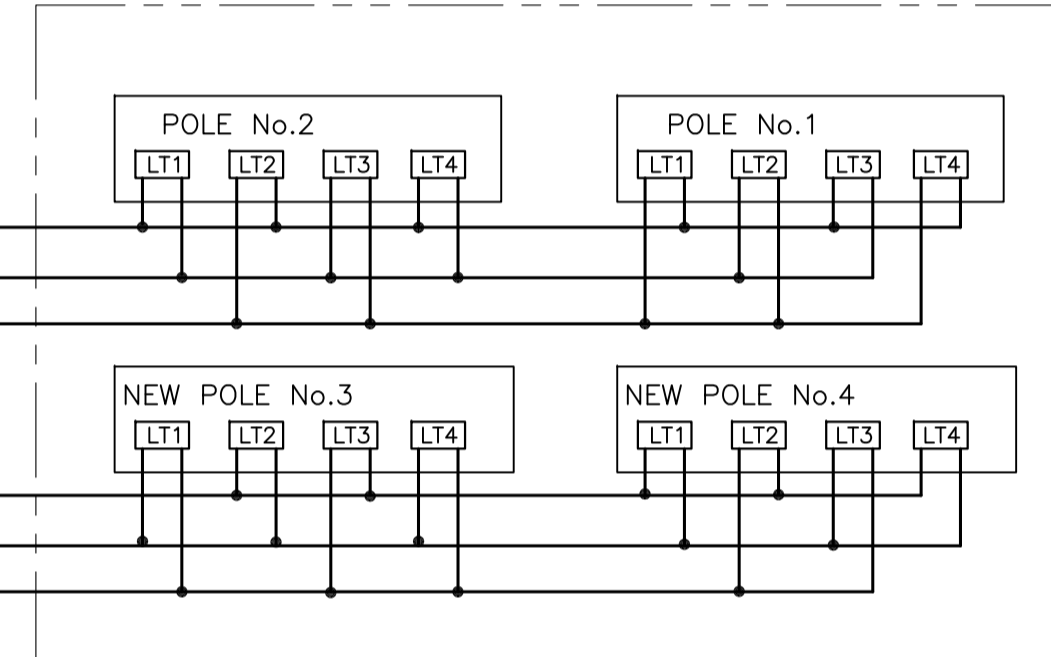
M.S.B. DISTRIBUTION SECTION



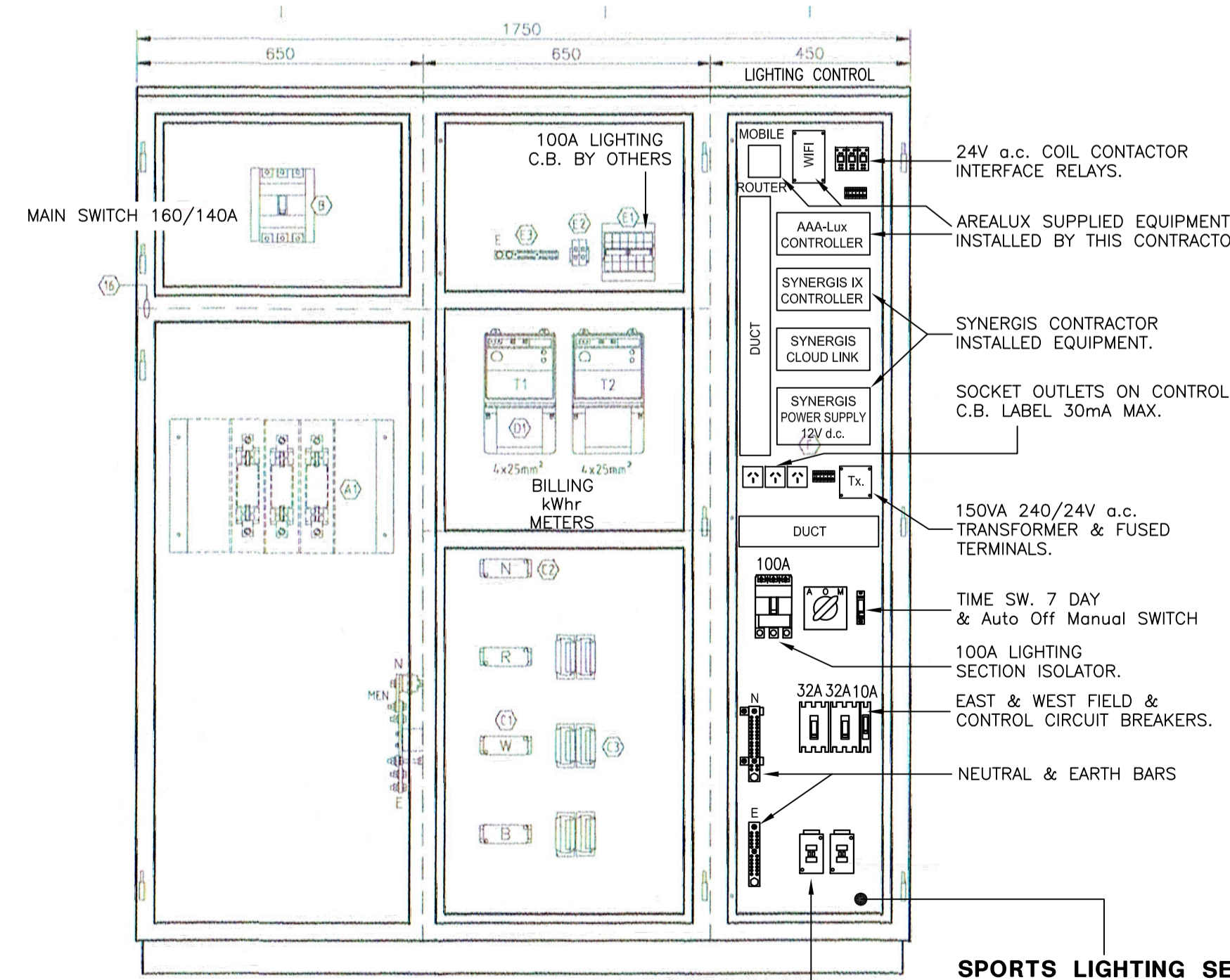
SPORTS LIGHTING SECTION



OVAL INSTALLATION



P.O.E. / METER CUBICLE & MAIN SWITCHBOARD (BY OTHERS)
N.T.S. (35kA)



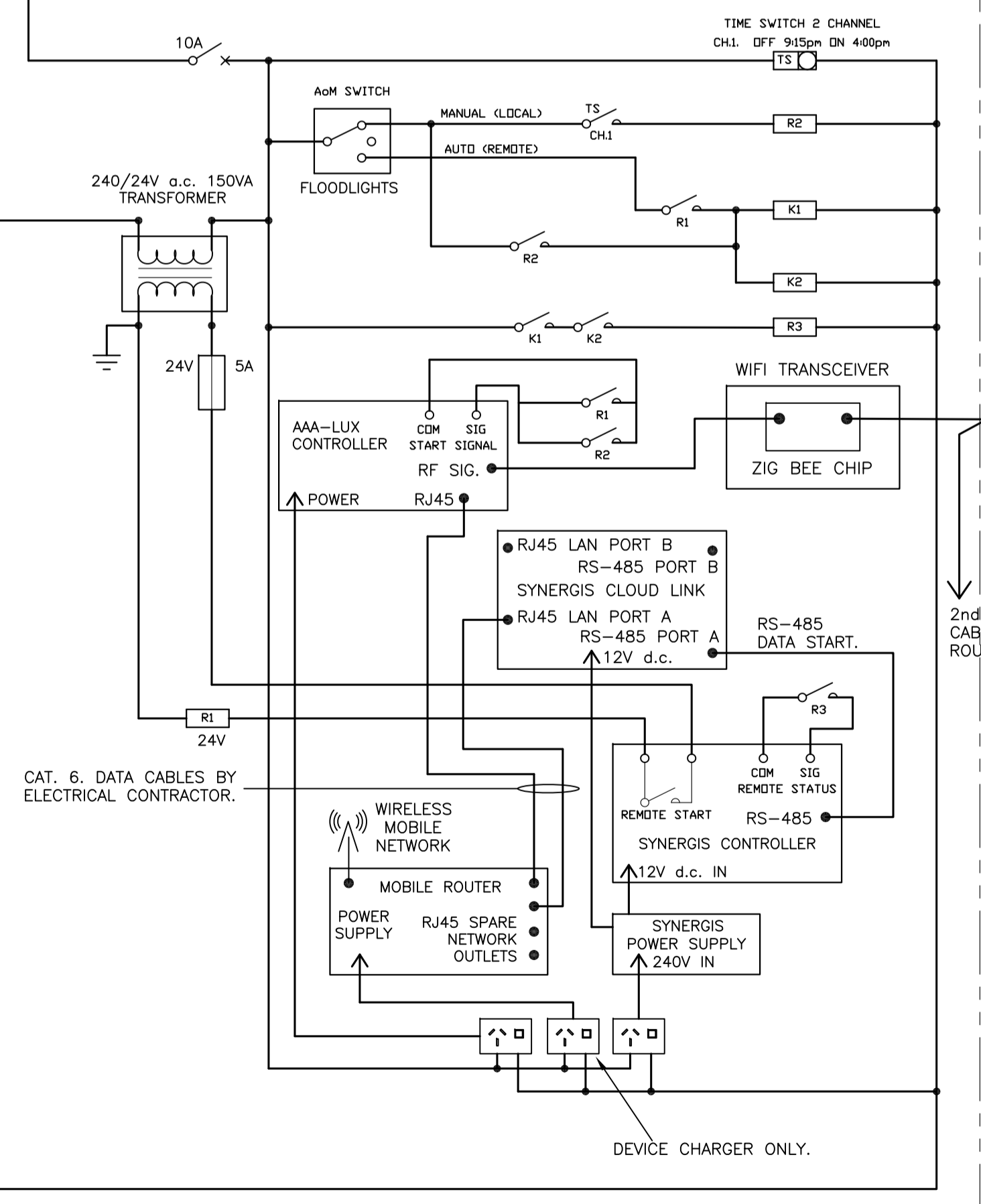
SPORTS LIGHTING SECTION
MOBILE ROUTER, ANTENNA, LIGHTING CONTROLLER & WIFI TRANSCEIVER SUPPLIED BY AREALUX WITH FITTINGS. THIS CONTRACTOR & SYNERGIS IX SUB-CONTRACTOR TO SUPPLY ALL OTHER EQUIPMENT & CABLING WITHIN THE SECTION INCLUDING 25mm² SUB-MAIN FROM M.S.B. C.B. BY OTHERS.

EQUIPMENT LIST

- (A) **EVOENERGY SERVICE EQUIPMENT**
 - (A1) PROVISION FOR FEEDER CONNECTION EQUIPMENT EVOENERGY TO ADVISE AT TIME OF SWITCHBOARD APPROVAL ON TYPE OF EQUIPMENT TO BE INSTALLED (DEFAULT EQUIPMENT TO BE 3 HOLE FUSE LINKS)
 - (A2) 1 - 40 x 6.3mm Cu BUSBAR SERVICE NEUTRAL LINK
 - (A3) 1 - 25 x 6.3mm Cu BUSBAR MAIN EARTH LINK
 - (A4) 1 - 25 x 6.3mm Cu BUSBAR CUBICLE EARTH TERMINATED ON M10 STD FULLY WELDED TO SWITCHBOARD WALL
- (B) **MAIN SWITCH**
 - (B1) 1 - TERASAKI S160N3160 160A 3P 36kA MCCB
- (C) **TENANTS EVOENERGY SERVICE EQUIPMENT**
 - (C1) 3 - NETEC AN165-7-R SEALABLE ACTIVE LINKS
 - (C2) 1 - NETEC AN165-7-B SEALABLE NEUTRAL LINK
 - (C3) 6 - 100A SERVICE FUSES
- (D) **TENANTS ELECTRICITY RETAIL METERING EQUIPMENT**
 - (D1) 2 - THREE PHASE DIRECT WIRE kWh METERS
- (E) **TENANT SUBMAINS**
 - (E1) 2 - ABB S203C100 100A 3P 6kA MCB'S
 - (E2) 2 - ABB 7535 35mm² NEUTRAL TERMINALS
 - (E3) 1 - NETEC NE32FD12X 12 WAY EARTH LINK
- (F) **FUTURE SPORTS LIGHTING SPACE FOR OTHERS**

SWITCHBOARD COMPONENTS

- (1) CHROME PLATED SWING HANDLE C/W 3 POINT LOCKING BARS & 92268 KEYPED BARREL
- (2) CHROME PLATED SWING HANDLE C/W 92268 KEYPED BARREL
- (3) LOCKWOOD 213CP DEADBOLT C/W 34659 KEYPED BARREL
- (4) CHROME PLATED PIN HINGE
- (5) WEATHERPROOF OVERHANG
- (6) 75mm x 40mm C CHANNEL IRON PLINTH
- (7) EPDM SEALING RUBBER
- (8) LOCKWOOD 100CP NIGHTLATCH C/W 34659 KEYPED BARREL
- (9) CUTOUT FOR kWh METERS C/W PERSPEX VIEWING WINDOWS
- (10) DOOR KNOB
- (11) CHROME PLATED D-HANDLE
- (12) 5mm CAPTIVE PANHEAD SCREW
- (13) 75mm BUTT HINGE
- (14) CUTOUT FOR MCB TOGGLES
- (15) CUTOUT FOR MAIN SWITCH TOGGLE
- (16) METAL DIVIDER



2	20/09/19	Addendum No. 1.	
1	2/09/19	Revised Tender Issue	
0	27/06/19	Tender Issue	
A	13/06/19	Updated Copy Drawing 1563-E2 Rev C	
No.	Date	Description	Init.

AMENDMENTS

Client
ACT GOVERNMENT SPORT AND RECREATION FACILITIES

AEC consulting group
P.O. Box 503 Mawson ACT 2607
Telephone: (02) 6101 4770
email: aecengineers@tpg.com.au

CONSULTING ENGINEERS

Project
BOOMANULLA OVAL L.E.D. SPORTS LIGHTING GOYDER STREET NARRABUNDAH

BLOCK 22, SECTION 34 NARRABUNDAH, ACT

Title
BOOMANULLA OVAL SPORTS LIGHTING DIAGRAMS & DETAILS

Scale: As Shown Date: 13th June 2019
Drawn: [] Checked: [] Approved: []
CAD File: A1 Sheet 2 of 3
Job No.: [] Drawing Number [] Amdt. []
1583 1583BM-E2 2

Out of Scope

From: Beattie, Margaret <Margaret.Beattie@act.gov.au> On Behalf Of ATSIEB

Sent: Tuesday, 17 September 2019 2:28 PM

To: Chivers, Joanne <Joanne.Chivers@act.gov.au>; Fanning, Katrina <Katrina.Fanning@act.gov.au>; Monaghan, Fred <Fred.Monaghan@act.gov.au>; [REDACTED] CHIVERS,Joanne <Joanne.Chivers@education.gov.au>; [REDACTED] Keed, Jacob <Jacob.Keed@act.gov.au>; McGrady, Paula <Paula.McGrady@act.gov.au>; Walker, Maurice <Maurice.Walker@act.gov.au>

Cc: ATSIEB <atsieb@act.gov.au>

Subject: FW: Boomanulla Oval - Schedule Works

UNCLASSIFIED

Dear members,

Please note email from TCCS about current works happening at Boomanulla. Out of Scope

TCCS email

Mick is working hard with our contractor on the next stage of works. Over the next few months we will look to reinstate the sportsground lights and finish off the laying of turf. At this stage, the works are scheduled as follows:

- Sportsground lights – Works will be undertaken from late-November through to Christmas; and

- Out of Scope

Out of Scope

Out of Scope

Regards,

Nathan Greig | Senior Manager

Phone: 02 6205 5192 | Sch 2.2(a)(ii) | Email: nathan.greig@act.gov.au

Transport Canberra and City Services | ACT Government

Level 7, 490 Northbourne Avenue, Dickson 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

Margaret Beattie

ACT Aboriginal and Torres Strait Islander Elected Body Secretariat

Community Services Directorate

Phone: **02 6207 9656**

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Out of Scope

From: Roberts, Mick <Mick.Roberts@act.gov.au>
Sent: Wednesday, 6 November 2019 11:19 AM
To: ATSIEB <atsieb@act.gov.au>
Subject: Boomanulla - Works Schedule

UNCLASSIFIED

Hi Margaret

Confirming proposed works at Boomanulla this week, no requirements from yourself.

Out of Scope

Friday

out of scope

GLO will be onsite at 8am to rectify damaged conduit.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

Brougham-Pratt, Charlotte

From: Beattie, Margaret on behalf of ATSIEB
Sent: Monday, 11 November 2019 9:59 AM
To: Roberts, Mick; ATSIEB
Cc: Greig, Nathan
Subject: RE: Boomanulla - Conduit Rectification

UNCLASSIFIED

Good morning Mick,

It fine to proceed from our perspective.

MB

From: Roberts, Mick
Sent: Monday, 11 November 2019 7:35 AM
To: ATSIEB
Cc: Greig, Nathan
Subject: Boomanulla - Conduit Rectification

UNCLASSIFIED

Hi Margaret

Following project investigation at Boomanulla into reactivation of the sportsground lighting, we have identified where the existing conduit is obstructed.

We would like to proceed with the repair/rectification on **Tuesday 19th November at 8.00am.**

I've attached a markup of where the excavations will be.

Can you please advise if there are any issues regarding this?

If you require any further information, please don't hesitate to contact me

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

Brougham-Pratt, Charlotte

From: Roberts, Mick
Sent: Monday, 11 November 2019 9:26 AM
To: Burden, Ross
Cc: Davies, Phil; Toomey, Richard
Subject: RE: Boomanulla - Conduit Rectification [SEC=UNCLASSIFIED]

UNCLASSIFIED

Hi Ross

Yes Projex are delivering the works as one of the conduits that run the wires to the far side of the oval for the floodlighting has collapsed. Fortunately not in the oval area.

A new line would cost around [REDACTED] to run to the far side as we would need to run a new trench around the entire oval. Path is cheaper to replace, if required, hopefully we don't.

And yes the ATSIEB has been contacted/advised in a separate mail.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Burden, Ross
Sent: Monday, 11 November 2019 9:08 AM
To: Roberts, Mick
Cc: Davies, Phil ; Toomey, Richard
Subject: RE: Boomanulla - Conduit Rectification [SEC=UNCLASSIFIED]

Thanks Mick

Who it is not good that you have to do repairs in Yarralumla to fix Boomanulla good luck with that one☺

Can you avoid ripping the path up might be better to run a new line? Can you please liaise with Margaret and make sure she is also comfortable

Ta

Ross

Ross Burden | Director
Phone 02 6207 2307 | Email: ross.burden@act.gov.au
Sport and Recreation Facilities | City Presentation | Transport Canberra and City Services Directorate | ACT Government
496 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Roberts, Mick
Sent: Monday, 11 November 2019 7:35 AM
To: Burden, Ross <Ross.Burden@act.gov.au>
Cc: Davies, Phil <Phil.Davies@act.gov.au>; Toomey, Richard <Richard.Toomey@act.gov.au>
Subject: Boomanulla - Conduit Rectification

UNCLASSIFIED

Hi Ross

Following project investigation at Boomanulla into reactivation of the sportsground lighting, we have identified where the existing conduit is obstructed.

We would like to proceed with the repair/rectification on **Tuesday 19th November at 8.00am**.

I've attached a markup of where the excavations will be.

Can you please advise if there are any issues regarding this?

If you require any further information, please don't hesitate to contact me

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au



34

10

20

30

40

50

60

From: Sch 2.2(a)(ii)
Sent: Wed, 20 Nov 2019 16:08:13 +1100
To: Sch 2.2(a)(ii)
Cc: Sch 2.2(a)(ii) projexbuilding.com.au; Roberts, Mick; Toomey, Richard
Subject: Boomanulla Conduits

Afternoon Sch 2.2(a)(ii),

Further to the blockage in the almost straight run of 50mmØ conduit under the field which was not discovered with the knotted rope earlier the locator has identified the position which is where the conduit crosses the old electrical supply to the Library which is likely the reason as redirected around the conduit at this point.

As discussed the solution is to dig a small 1m² hole 700mm deep to expose and re-route the cabling and repair the conduit. Sch 2.2(a)(xi), Sch 2.2(a)(xiii)

[Redacted]

[Redacted]

[Redacted]

Let me know if you need any assistance.

Regards,

[Redacted]

Managing Director

Mobile [Redacted]

AEC Design &
Consulting
Engineers

Office: 02 6101 4770

Email: aecengineers@tpg.com.au

P.O. Box 503

Mawson ACT 2607

Brougham-Pratt, Charlotte

From: Burden, Ross
Sent: Tuesday, 3 December 2019 2:01 PM
To: Roberts, Mick
Cc: Greig, Nathan
Subject: RE: Boomanulla over sowing of surrounds proposal

UNCLASSIFIED

Thank Mick

The problem with this is it is then reliant on the AMC to make sure that everything is done properly and properly consolidated for a handover

Di they request to do this work?

Ross

Ross Burden | Senior Director
Phone 02 6207 2307 | Email: ross.burden@act.gov.au
Sport and Recreation Facilities | City Presentation | Transport Canberra and City Services Directorate | ACT Government
496 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Roberts, Mick
Sent: Tuesday, 3 December 2019 1:50 PM
To: Burden, Ross
Cc: Greig, Nathan
Subject: Boomanulla over sowing of surrounds proposal

UNCLASSIFIED

Hi Ross

As you are aware to accommodate the alternative route for the sportsground floodlighting wiring an excavation occurred around the southern end of the field. The excavation has now been back filed.

As an alternative to paying a contractor to re-seed this area would you be open to the engagement of the work crew from the Alexander McConachie Centre for the purposes of spreading/raking in the seed? Dryland seed would also be supplied by SRF?

If so how do we engage the services of the AMC crew?

Happy to engage a contractor to provide the services if this not satisfactory.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Roberts, Mick
Sent: Thu, 9 Jan 2020 00:38:43 +0000
To: Roberts, Mick
Subject: FW: Boomanulla & Nicholls Shields & Fixings
Categories: Follow up

UNCLASSIFIED

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Sch 2.2(a)(ii)
Sent: Wednesday, 8 January 2020 2:01 PM
To: Roberts, Mick ; Sch 2.2(a)(ii)
Cc: Sch 2.2(a)(ii) ; Toomey, Richard ; Sch 2.2(a)(ii)
Subject: RE: Boomanulla & Nicholls Shields & Fixings

Hello all,

Although paperwork indicates the shields should be here it is a mystery. AAA-Lux have organised the replacement shields to be air freighted to Arealux which they will receive on Friday or Saturday. [REDACTED] will forward on and we will have on site Monday or Tuesday morning.

At this stage we propose the night commissioning tests take place on Tuesday 14th January with a possibility of Monday night if they arrive in time.

AAA-Lux have also thrown in a couple of extra shields [REDACTED]
[REDACTED] installing additional shield on the night when I leave the oval to take residential measurements to further reduce spill and glare [REDACTED] although not required for compliance. The slight reduction in field illuminance is easily absorbed in the design.

As for the smoke issue we can proceed in moderate smoke like lunchtime today with minimal impact on the results however, if the smoke returns to the thick fog like atmosphere we have had recently this would greatly impact the results and the tests would have to be postponed. Yet another watch and act.

Please advise if any issues with the proposed timing.

Regards,

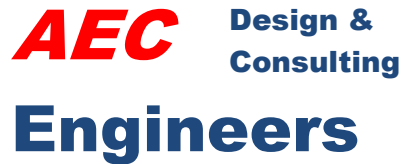
[REDACTED]
Managing Director

Mobile [REDACTED]

Regards,

Managing Director

Mobile



Office: 02 6101 4770

Email: aecengineers@tpg.com.au

P.O. Box 503

Mawson ACT 2607

From: Roberts, Mick [<mailto:Mick.Roberts@act.gov.au>]

Sent: Wednesday, 8 January 2020 7:39 AM

To: [redacted] [@projexbuilding.com.au](mailto:[redacted]@projexbuilding.com.au); [redacted] <[\[redacted\]@projexbuilding.com.au](mailto:[redacted]@projexbuilding.com.au)>; [redacted]

Cc: [redacted] [@projexbuilding.com.au](mailto:[redacted]@projexbuilding.com.au); Toomey, Richard <Richard.Toomey@act.gov.au>; [redacted]

Subject: RE: Boomanulla & Nicholls Shields & Fixings

UNCLASSIFIED

Hi All

Knowing the sensitivities around this site a temporary redesign would not be considered viable option.

The best option is to offer the full glare protection on identified luminaries to minimize the impact on nearby residents.

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: [redacted]

Sent: Tuesday, 7 January 2020 1:55 PM

To: [redacted] [@projexbuilding.com.au](mailto:[redacted]@projexbuilding.com.au); [redacted] <[\[redacted\]@projexbuilding.com.au](mailto:[redacted]@projexbuilding.com.au)>; [redacted]

Cc: Roberts, Mick <Mick.Roberts@act.gov.au>; [redacted] [@projexbuilding.com.au](mailto:[redacted]@projexbuilding.com.au); Toomey, Richard <Richard.Toomey@act.gov.au>; [redacted]

Subject: Boomanulla & Nicholls Shields & Fixings

Afternoon all,

As you may be aware from recent calls we seem to have lost a smaller box in the luminaires delivery containing the shields for Boomanulla and the nuts, bolts and washers for both.

Arealux confirmed the items were sent and the delivery packing slip has yet to be found. Arealux have emailed the courier to enquire if the box was left in Sydney or on the truck and waiting for an answer. With any luck we can locate and organise for overnight shipping as we are advised there are no more available in Australia and would need resending from AAA-Lux.

█ has option to purchase the fixings from █ which will allow work to continue however, without the shields the system will produce too much spill and testing would not be possible.

█ can you advise when info available as we may have to look at options such as temporary redesign without shields to allow operation if lead times are significant.

Regards,

█

Managing Director

Mobile █

AEC **Design &
Consulting**
Engineers

Office: 02 6101 4770

Email: aecengineers@tpg.com.au

P.O. Box 503

Mawson ACT 2607

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From: Greig, Nathan
Sent: Thu, 9 Jan 2020 05:55:29 +0000
To: Wadwell, Emily; Roberts, Mick
Cc: Garner, Jeff; Virtue, Geoff
Subject: RE: Boomanulla Neighbourhood Oval Floodlighting - Residents Letter

UNOFFICIAL

Emily,

We will need to be specific in terms of the day (and time the release of the letter box drop) as we are likely to be testing outside normal operating hours. We might need to add a little more information in the letter to cover off on this point.

Regarding smoke – not sure what is expected during the course of next week. I will discuss this with Mick tomorrow morning.

Regards,
Nathan

From: Wadwell, Emily
Sent: Thursday, 9 January 2020 4:22 PM
To: Greig, Nathan ; Roberts, Mick
Cc: Garner, Jeff ; Virtue, Geoff
Subject: RE: Boomanulla Neighbourhood Oval Floodlighting - Residents Letter

UNOFFICIAL

Thanks team – are you concerned at all that the testing will be affected by the weather/smoke? I know we need to be particularly mindful of the community but I'd be hesitant to provide an exact date and time in the event that we can't carry out the testing for whatever reason.

We could say something like:

The system will be tested on one night this week to ensure it complies with relevant Australian Standards and that light levels are controlled and appropriate for the intended use. Testing will take place between the hours of X pm and X pm.

Is this expected to take place Tuesday?

Thank you.
Emily

From: Greig, Nathan <Nathan.Greig@act.gov.au>
Sent: Thursday, 9 January 2020 4:06 PM

To: Roberts, Mick <Mick.Roberts@act.gov.au>
Cc: Wadwell, Emily <Emily.Wadwell@act.gov.au>
Subject: Boomanulla Neighbourhood Oval Floodlighting - Residents Letter

UNOFFICIAL

Mick,
A couple of amendments but, otherwise ok.

Regards,
Nathan

From: [REDACTED]
Sent: Mon, 20 Jan 2020 12:09:03 +1100
To: Roberts, Mick; [REDACTED]
Cc: Toomey, Richard; Mann, Dave; 'AEC Engineers'; Burden, Ross; [REDACTED]
Subject: RE: Field markers
Attachments: Lights & Crossarms.jpg

Hello all,

As a matter of interest the new curved cross arms work a treat keeping fittings close to perpendicular to the arms eliminating shielding by the arm clashes with antenna positions. Think they look good too.

Regards,

[REDACTED]
Managing Director
Mobile [REDACTED]

AEC Design &
Consulting
Engineers

Office: 02 6101 4770
Email: aecengineers@tpg.com.au
P.O. Box 503
Mawson ACT 2607

From: Roberts, Mick [mailto:Mick.Roberts@act.gov.au]
Sent: Monday, 20 January 2020 11:34 AM
To: [REDACTED]
Cc: Toomey, Richard ; Mann, Dave ; 'AEC Engineers' ; Burden, Ross
Subject: Field markers

UNCLASSIFIED

Hi [REDACTED]

Can you please have the survey markers on the playing surface at Boomanulla removed before the end of this month to accommodate an event on the playing surface at the of January.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

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any attachments immediately. You should not copy or use it for any purpose, nor disclose its contents to any other person.



From: Roberts, Mick
Sent: Thu, 30 Jan 2020 01:06:08 +0000
To: ATSIEB
Cc: Burden, Ross; Greig, Nathan; Toomey, Richard
Subject: Boomanulla Floodlighting update

UNCLASSIFIED

Hi All

Update on the project works on Boomanulla floodlighting system.

As you are aware the electrical wiring system is now in place at Boomanulla. Both the new curved cross arms and the luminaries are installed. The lighting system will then be certified in the near future. With the lighting system available for use via Sport and Recreation Facilities team

Noting the playing surface itself is still under an agreed maintenance period.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

Out of Scope

From: Greig, Nathan
Sent: Wednesday, 5 February 2020 9:34 AM
To: Jeffrey, David
Cc: Roberts, Mick
Subject: Boomanulla Oval - Residual Funds

UNOFFICIAL

DJ,

As discussed, the lighting costs are finalised and have come in at \$190k (excl). **Out of Scope**

[Redacted]

Regards,

Nathan Greig | Senior Manager

Phone 02 6205 5192 | Fax 02 6207 6212 | [Redacted]

City Services | Transport Canberra and City Services | ACT Government

Level 2, 490 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

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Brougham-Pratt, Charlotte

From: Roberts, Mick
Sent: Monday, 10 February 2020 3:11 PM
To: Greig, Nathan
Cc: Burden, Ross
Subject: RE: Floodlight proposed commissioning dates

UNCLASSIFIED

Ok noted. Will keep you posted.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Greig, Nathan
Sent: Monday, 10 February 2020 9:22 AM
To: Roberts, Mick
Cc: Burden, Ross
Subject: RE: Floodlight proposed commissioning dates

UNCLASSIFIED

Mick,
Can we please push the commissioning of Boomanulla to later in March.

Ta,
Nathan

From: Roberts, Mick <Mick.Roberts@act.gov.au>
Sent: Friday, 7 February 2020 2:45 PM
To: Greig, Nathan <Nathan.Greig@act.gov.au>
Subject: Floodlight proposed commissioning dates
Importance: High

UNCLASSIFIED

Hi Nathan

Projex have proposed the following commissioning dates:

Out of Scope

Boomanulla

- Commissioning 18th and 19th February before 9:30 (I will need to progress the coms letter ASAP)

I will discuss this proposed date further with you.

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

Brougham-Pratt, Charlotte

From: Roberts, Mick
Sent: Wednesday, 19 February 2020 1:35 PM
To: Burden, Ross; Mann, Dave
Cc: Greig, Nathan; Toomey, Richard
Subject: SRF Floodlighting commissioning dates

UNCLASSIFIED

Hi Ross

I just wanted to update you of the anticipated commissioning dates for the new SRF floodlighting systems.

Out of Scope
Boomanulla - Tuesday 24th March

Lifting devices may be used to realign light fittings as required so could you please have irrigation programmes adjusted to accommodate any use of machinery.

Once commissioned these floodlighting system will be available for your use. Noting Boomanulla will still be in a turfgrass consolidation period.

I will keep you updated and pass on certification once completed.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
490 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

Brougham-Pratt, Charlotte

From: Wadwell, Emily
Sent: Tuesday, 17 March 2020 10:35 AM
To: Greig, Nathan; Roberts, Mick
Subject: RE: Boomanulla Neighbourhood Oval Floodlighting - Residents Letter

UNOFFICIAL

Hi Team,

An update on this one – Alison Playford has just approved it so I've sent it over to CMTEDD.

Will let you know when it is good to go.

Thanks.
Emily

From: Greig, Nathan
Sent: Thursday, 12 March 2020 1:30 PM
To: Burden, Ross ; Alegria, Stephen
Cc: Roberts, Mick ; Wadwell, Emily ; Smith, Jeremy
Subject: RE: Boomanulla Neighbourhood Oval Floodlighting - Residents Letter

UNOFFICIAL

Emily,
Happy to the letter to be sent up from approval.

Regards,
Nathan

From: Burden, Ross <Ross.Burden@act.gov.au>
Sent: Thursday, 12 March 2020 1:01 PM
To: Greig, Nathan <Nathan.Greig@act.gov.au>; Alegria, Stephen <Stephen.Alegria@act.gov.au>
Cc: Roberts, Mick <Mick.Roberts@act.gov.au>; Wadwell, Emily <Emily.Wadwell@act.gov.au>; Smith, Jeremy <Jeremy.Smith@act.gov.au>
Subject: RE: Boomanulla Neighbourhood Oval Floodlighting - Residents Letter

UNOFFICIAL

Hi Team

No I do not think that we need to worry, the residents already know who to contact when there are issues

Ross

Ross Burden | Senior Director
Phone 02 6207 2307 | Email: ross.burden@act.gov.au
Sport and Recreation Facilities | City Presentation | Transport Canberra and City Services Directorate | ACT Government
490 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Greig, Nathan <Nathan.Greig@act.gov.au>
Sent: Thursday, 12 March 2020 12:55 PM

To: Alegria, Stephen <Stephen.Alegria@act.gov.au>; Burden, Ross <Ross.Burden@act.gov.au>
Cc: Roberts, Mick <Mick.Roberts@act.gov.au>; Wadwell, Emily <Emily.Wadwell@act.gov.au>; Smith, Jeremy <Jeremy.Smith@act.gov.au>
Subject: FW: Boomanulla Neighbourhood Oval Floodlighting - Residents Letter


UNOFFICIAL

Stephen, Ross,

Would you like the following included on the letter? We're happy either way.

Post commissioning of the floodlighting system, general sportsground enquiries can be directed to sportsgrounds@act.gov.au or Access Canberra on 13 22 81.

Regards,

Nathan Greig | Senior Manager
Phone 02 6205 5192 | Fax 02 6207 6212 | 
City Services | Transport Canberra and City Services | ACT Government
Level 2, 490 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

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From: Wadwell, Emily <Emily.Wadwell@act.gov.au>
Sent: Thursday, 12 March 2020 12:47 PM
To: Greig, Nathan <Nathan.Greig@act.gov.au>; Roberts, Mick <Mick.Roberts@act.gov.au>
Cc: Alegria, Stephen <Stephen.Alegria@act.gov.au>; Smith, Jeremy <Jeremy.Smith@act.gov.au>; Burden, Ross <Ross.Burden@act.gov.au>
Subject: RE: Boomanulla Neighbourhood Oval Floodlighting - Residents Letter

UNOFFICIAL

Hi Team,

Please find attached.


Thanks,
Emily

From: Greig, Nathan <Nathan.Greig@act.gov.au>
Sent: Thursday, 12 March 2020 12:15 PM
To: Roberts, Mick <Mick.Roberts@act.gov.au>; Wadwell, Emily <Emily.Wadwell@act.gov.au>
Cc: Alegria, Stephen <Stephen.Alegria@act.gov.au>; Smith, Jeremy <Jeremy.Smith@act.gov.au>; Burden, Ross <Ross.Burden@act.gov.au>
Subject: Boomanulla Neighbourhood Oval Floodlighting - Residents Letter

UNOFFICIAL

Mick, Emily,
The letter to residence informing them of the lighting test at Boomanulla Oval is attached.

Regards,

Nathan Greig | Senior Manager
Phone 02 6205 5192 | Fax 02 6207 6212 | 
City Services | Transport Canberra and City Services | ACT Government

Level 2, 490 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

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Deferred Access



25th March 2020
Ref: 1588B-C1

Sport and Recreation Facilities
GPO Box 147
Civic Square ACT 2608

**BOOMANULLA SPORTSGROUND
BLOCK 22, SECTION 34 NARRABUNDAH A.C.T.
SEMI-PROFESSIONAL TRAINING LEVEL SPORTS LIGHTING
COMPLIANCE CERTIFICATE**

AEC ENGINEERS Certifies that verification measurements of illuminance values taken on the 24th March 2020, provides Semi-professional Ball and physical training level lighting in accordance with Australian Standard AS 2560.2.3.

All measurements and assessment calculations have been undertaken in compliance with:

- Australian Standard AS 2560.1
- Australian Standard AS 2560.2.3
- Australian Standard AS 3827.2
- Australian Standard AS 4282

The recorded illuminance values provide the following average horizontal illuminance and uniformity ratios at the level of play as defined in AS/NZS 2560.1.

Rugby Field:

Eh = Average illuminance value = 87 lux.

Em = Maintained Average value = 74 lux.

U1= $\frac{\text{Minimum illuminance value}}{\text{Average illuminance value}}$ = 0.65

U2= $\frac{\text{Minimum illuminance value}}{\text{Maximum illuminance value}}$ = N.A. (0.35)

In accordance with the manufactures test reports the 50,000 hour depreciation maintenance factor applied to the maintained average illuminance values is 0.855.

All values exceed the minimum requirements of AS 2560.2.3.

Obtrusive light being excessive vertical illuminance (spill) and beam intensity (glare) on residential blocks in accordance with ASNZS 4282:2019 was measured at accessible boundaries adjacent field with vertical illuminance generally between 0.5 and 6 lux. The highest values were recorded at four residences opposite the entrance driveway from Goyder Street where no shielding by the trees from 8.2 lux peaking at 9.2 lux. In accordance with AS/NZS 4282:2019 the Pre-curfew maximum vertical illuminance 10 lux measurement / calculation point is a further 10M setback as the dwelling is greater than this distance from the boundary.

Certification applies to the Rugby League Field marked within the grounds.

Signed:

[Redacted Signature]

– Managing Director.

From: Mann, Dave
Sent: Wed, 15 Jul 2020 04:45:41 +0000
To: Greig, Nathan
Cc: Roberts, Mick; Burden, Ross
Subject: Lights Boomanualla
Attachments: IMG_0712.PNG

UNCLASSIFIED

Nathan


One of the Rangers was at Boomanualla and he found these light items at the bottom of the pole.

The pole is the closest to the Pavilion.

Thanks

Dave

Dave Mann
A/G Ground Manager Canberra
Sport and Recreation

Sport and Recreation Facilities | Transport Canberra and City Services Directorate | ACT Government |
480 Northbourne Ave, Dickson ACT 2602 | GPO Box 352 Civic Square ACT 2608 |
6207 5143 or 



Copy



Save



More...



Brougham-Pratt, Charlotte

From: Roberts, Mick
Sent: Tuesday, 18 August 2020 9:37 AM
To: Burden, Ross; Mann, Dave; Davies, Phil
Cc: Greig, Nathan
Subject: Boomanulla rectifications - PROGRESS UPDATE

OFFICIAL

Hi all

Due to recent unfavourable weather conditions compromising the safety for service delivery, the floodlighting rectification has not yet been completed. The contractors have advised that it looks like we have some suitable weather conditions for next week and have programmed the light shield replacement for next Friday 28th AUG.

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

Brougham-Pratt, Charlotte

From: Burden, Ross
Sent: Friday, 28 August 2020 12:25 PM
To: Roberts, Mick
Cc: Murphy, Bernard
Subject: FW: Boomanulla Oval light tower not working

OFFICIAL

Hi Mick

Who is maintaining the poles and lighting system? If it is us then the panel probably is ok for someone to gain access and not sure why they would spot weld the screws.

Ross

Ross Burden | Senior Director
Phone 02 6207 2307 | Email: ross.burden@act.gov.au
Sport and Recreation Facilities | City Presentation | Transport Canberra and City Services Directorate | ACT Government
480 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Murphy, Bernard
Sent: Friday, 28 August 2020 11:55 AM
To: Burden, Ross
Cc: Mann, Dave
Subject: RE: Boomanulla Oval light tower not working

OFFICIAL

Hi Ross

This seems a little unusual for the following reasons-

- The tamperproof screws (usually 'Torx' screws) on the pole are generally not welded on, as it is the access hatch for electricians for maintenance on gear trays, RCD's ,etc
- If screws were welded on then they would have to be 'broken' to access for maintenance (if it needs security on this hatch, a padbolt and padlock would keep secure and also allow access for maintenance- not aware of this at any other floodlight pole maintained by SRF)
- There is no RCD at the switchboard which means it would be at the base of the pole (and may have been switched off when installing contractors were looking at repairs to fallen light shields ?)
- Mark Graham sent through photos to us all on 22/7/20 to show that there has been light shields falling off this tower, (and other towers at Boomanulla, hence the temporary fencing around poles- and installing contractors may have been on site)

However, if security footage is to be reviewed, Greg Paciorek has helped us in the past to download any footage.

In terms of timing regarding outage of this pole, Dave and I received an email from Phil on 19/8/20 that hirers had contacted him about a whole tower not working.

Regards

Bernie Murphy
Facilities Management Officer
Phone (02) 6207 5142 | Mob [REDACTED] | Email bernard.murphy@act.gov.au
Sport and Recreation Facilities | Transport Canberra and City Services Directorate | ACT Government
490 Northbourne Av Dickson ACT 2602 | PO Box 352 Civic Square ACT 2608

From: Burden, Ross <Ross.Burden@act.gov.au>
Sent: Friday, 28 August 2020 10:52 AM
To: Murphy, Bernard <Bernard.Murphy@act.gov.au>
Subject: FW: Boomanulla Oval light tower not working
Importance: High

OFFICIAL

Hi Bernie

When you get a chance can we discuss

Ross

Ross Burden | Senior Director
Phone 02 6207 2307 | Email: ross.burden@act.gov.au
Sport and Recreation Facilities | City Presentation | Transport Canberra and City Services Directorate | ACT Government
480 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Roberts, Mick <Mick.Roberts@act.gov.au>
Sent: Friday, 28 August 2020 10:14 AM
To: Murphy, Bernard <Bernard.Murphy@act.gov.au>; Burden, Ross <Ross.Burden@act.gov.au>
Cc: Mann, Dave <Dave.Mann@act.gov.au>; Davies, Phil <Phil.Davies@act.gov.au>; Greig, Nathan <Nathan.Greig@act.gov.au>
Subject: RE: Boomanulla Oval light tower not working
Importance: High

OFFICIAL

Hi Ross

After the project team has investigated this identified issue below we have found it that may be caused by someone tampering with the lighting control box and RCD.

Investigation have provided that the lighting control box tamperproof screws that were also welded have been undone and left loose and the RCD turned off.

Can you please have the CCTV footage reviewed at this site to see if there was any unauthorised entry that may have caused the damage. Bernie should be able to assist with an accurate time/date as the issue was reported to him via a ranger.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Murphy, Bernard <Bernard.Murphy@act.gov.au>
Sent: Friday, 21 August 2020 4:32 PM
To: Roberts, Mick <Mick.Roberts@act.gov.au>
Cc: Mann, Dave <Dave.Mann@act.gov.au>; Davies, Phil <Phil.Davies@act.gov.au>
Subject: RE: Boomanulla Oval light tower not working

OFFICIAL

Hi Mick

Ranger [REDACTED] has just confirmed that the tower between the canteen and the grandstand has no lights working.

Regards

Bernie Murphy

Facilities Management Officer

Phone (02) 6207 5142 | Mob [REDACTED] | Email bernard.murphy@act.gov.au

Sport and Recreation Facilities | Transport Canberra and City Services Directorate | ACT Government

490 Northbourne Av Dickson ACT 2602 | PO Box 352 Civic Square ACT 2608

From: Roberts, Mick <Mick.Roberts@act.gov.au>

Sent: Friday, 21 August 2020 2:37 PM

To: Murphy, Bernard <Bernard.Murphy@act.gov.au>

Cc: Mann, Dave <Dave.Mann@act.gov.au>; Davies, Phil <Phil.Davies@act.gov.au>

Subject: RE: Boomanulla Oval light tower not working

OFFICIAL

Hi Bernie

Thanks for this report. Can you please confirm which tower is out to inform the contractors.

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Murphy, Bernard <Bernard.Murphy@act.gov.au>

Sent: Friday, 21 August 2020 2:19 PM

To: Roberts, Mick <Mick.Roberts@act.gov.au>

Cc: Mann, Dave <Dave.Mann@act.gov.au>; Davies, Phil <Phil.Davies@act.gov.au>

Subject: Boomanulla Oval light tower not working

OFFICIAL

Hi Mick

SRF has reports of an entire light tower not working at Boomanulla 1.

Could you please liaise with installers to undertake repairs.

Regards

Bernie Murphy

Facilities Management Officer

Phone (02) 6207 5142 | Mob [REDACTED] | Email bernard.murphy@act.gov.au

Sport and Recreation Facilities | Transport Canberra and City Services Directorate | ACT Government

490 Northbourne Av Dickson ACT 2602 | PO Box 352 Civic Square ACT 2608

Brougham-Pratt, Charlotte

From: Burden, Ross
Sent: Friday, 28 August 2020 9:59 AM
To: Roberts, Mick; Mann, Dave; Davies, Phil
Cc: Greig, Nathan
Subject: RE: Boomanulla rectifications

OFFICIAL

Thanks Mick supported from my end

Ross Burden | Senior Director
Phone 02 6207 2307 | Email: ross.burden@act.gov.au
Sport and Recreation Facilities | City Presentation | Transport Canberra and City Services Directorate | ACT Government
480 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Roberts, Mick
Sent: Friday, 28 August 2020 7:27 AM
To: Burden, Ross ; Mann, Dave ; Davies, Phil
Cc: Greig, Nathan
Subject: Boomanulla rectifications

OFFICIAL

Hi All

In relation to the refitting of light shields at Boomanulla a site inspection yesterday of the playing surface and surrounds revealed that it is still quite soft underfoot. The contractors have concerns that lifting devices may cause damaging effects to the surface, so a decision has been made to reprogram the rectification works to be undertaken next Wednesday 2nd Sep.

The surface is so wet that the contractors have asked that checks be made to ensure that the irrigation system is not active.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

Brougham-Pratt, Charlotte

From: Beattie, Margaret on behalf of ATSIEB
Sent: Friday, 28 August 2020 7:58 AM
To: Roberts, Mick
Cc: Greig, Nathan; Tafe, Nicki; ATSIEB
Subject: RE: Project work at Boomanulla -* UPDATE*

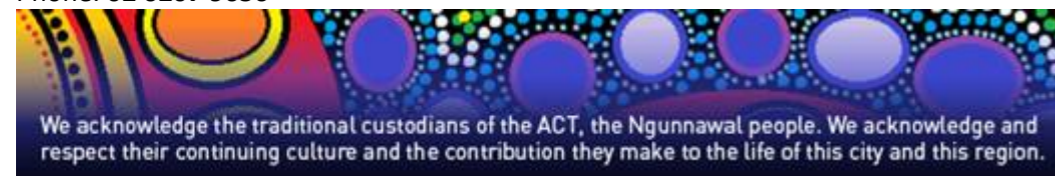
OFFICIAL

Good morning Mick,

Thank you for your email and noted.

Margaret Beattie

ACT Aboriginal and Torres Strait Islander Elected Body Secretariat
Community Services Directorate
Phone: **02 6207 9656**



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From: Roberts, Mick
Sent: Friday, 28 August 2020 7:27 AM
To: Beattie, Margaret
Cc: Greig, Nathan ; Tafe, Nicki ; ATSIEB
Subject: RE: Project work at Boomanulla -* UPDATE*

OFFICIAL

Morning Margaret

All this great rain is doing wonders for the turf but unfortunately our contract team has concerns that lifting devices may cause damaging effects to the surface, so a decision has been made to reprogram the rectification works to be undertaken next Wednesday 2nd Sep.

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Roberts, Mick
Sent: Tuesday, 18 August 2020 9:37 AM
To: Beattie, Margaret <Margaret.Beattie@act.gov.au>

Cc: Greig, Nathan <Nathan.Greig@act.gov.au>; Tafe, Nicki <Nicki.Tafe@act.gov.au>; ATSIEB <atsieb@act.gov.au>
Subject: RE: Project work at Boomanulla -* UPDATE*

OFFICIAL

Hi Margaret

Due to recent unfavourable weather conditions compromising the safety for service delivery, the floodlighting rectification has not yet been completed. The contractors have advised that it looks like we have some suitable weather conditions for next week and have programmed the light shield upgrade for next Friday 28th AUG.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Beattie, Margaret <Margaret.Beattie@act.gov.au>
Sent: Thursday, 6 August 2020 1:14 PM
To: Roberts, Mick <Mick.Roberts@act.gov.au>
Cc: Greig, Nathan <Nathan.Greig@act.gov.au>; Tafe, Nicki <Nicki.Tafe@act.gov.au>; ATSIEB <atsieb@act.gov.au>
Subject: RE: Project work at Boomanulla

OFFICIAL

Thanks Mick, much appreciated.

MB

From: Roberts, Mick <Mick.Roberts@act.gov.au>
Sent: Thursday, 6 August 2020 10:47 AM
To: ATSIEB <atsieb@act.gov.au>; Beattie, Margaret <Margaret.Beattie@act.gov.au>; Tafe, Nicki <Nicki.Tafe@act.gov.au>
Cc: Greig, Nathan <Nathan.Greig@act.gov.au>
Subject: Project work at Boomanulla

OFFICIAL

Morning Margaret

Just a curtesy email to let you know the TCCS Infrastructure Delivery team will have contractors on site at Boomanulla oval, tentatively booked in for Thursday next week 13 August. We are just upgrading some antennas and shields to two of the light towers and require the boom lifters on site.

The date change pending weather conditions but I will keep you updated of any changes.

No action required for the ATSIEB.

Enjoy your day.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: [REDACTED]
Sent: Thu, 24 Sep 2020 11:14:49 +1000
To: [REDACTED] Roberts, Mick; [REDACTED]
Cc: [REDACTED]
Subject: RE: Boomanulla Oval Lighting Fault

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Hello [REDACTED]

Thanks you for the manufactures statement which appears to cover the cause as we agreed, solution and any future occurrences. We will let ACT Government being represented by Mick Roberts on this project make their assessment.

Sch 2.2(a)(xi)

As this work is taking place next week we will should be able to undertake the rectification of the remaining 15 fittings on site and Projex can advise.

Regards,

[REDACTED]
Managing Director
Mobile [REDACTED]

AEC Design & Consulting
Engineers

Office: 02 6101 4770
Email: aecengineers@tpg.com.au

P.O. Box 503
Mawson ACT 2607

From: [REDACTED]]
Sent: Thursday, 24 September 2020 11:02 AM
To: [REDACTED]
Cc: 'Roberts, Mick' ; [REDACTED]
Subject: RE: Boomanulla Oval Lighting Fault

[REDACTED]
Please find attached the report from AAA-LUX regarding the fault at Boomanulla.

Out of Scope

As stated in the report AAA-LUX wish to check and remedy any other luminaires at Boomanulla that have the same issue.
Costs of re-installation and the checking of all other luminaires at Boomanulla will be covered by AAA-LUX.

[REDACTED] will be in touch to discuss this in detail.
As the repaired luminaire is was delivered to Projex on Tuesday, we hope that inspection of the other luminaires can be done at the same time as re-installation.

Should you have any queries or wish to discuss this issue further please do not hesitate to contact us.

Kind regards

[REDACTED]

[REDACTED]
Managing Director

E: [REDACTED]

M: [REDACTED]

P: 1300 AAA LUX (222 589)

W: www.arelux.com.au



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From: [REDACTED]
Sent: Wednesday, 2 September 2020 4:45 PM
To: [REDACTED]
Cc: 'Roberts, Mick' <Mick.Roberts@act.gov.au>; [REDACTED] <[\[REDACTED\]@projexbuilding.com.au](mailto:[REDACTED]@projexbuilding.com.au)>; [REDACTED] <[\[REDACTED\]@projexbuilding.com.au](mailto:[REDACTED]@projexbuilding.com.au)>
Subject: Boomanulla Oval Lighting Fault

Hello [REDACTED] and [REDACTED]

As discussed while inspecting the shield replacement this morning it was found one of the fittings has been damaged by birds despite the preinstalled bird kits. This explains the email two weeks ago about a pole circuit breaker tripped.

Sch 2.2(a)(xi)
[REDACTED]

The attached pictures show the venerable position which the adjacent fitting shows semi exposed cable undamaged. We have checked previous installation pictures as not noticed this before and none show any cabling in this position?

As advised during our conversation we have organised the fitting to be removed and currently at Projex office awaiting shipping for repair which we believe you are organising as a Warranty item. This will obviously be reinstalled and aimed on return too.

Can you please provide us with your assessment and solution as Sport and Recreation Facilities currently have 102 fittings including the damaged one installed and need to ensure they are not at risk.

We look forward to your resolution and assessment.

Regards,

Managing Director

Mobile

AEC
**Design &
Consulting**
Engineers

Office: 02 6101 4770

Email: aecengineers@tpg.com.au

P.O. Box 503

Mawson ACT 2607

From: Doak, Paul
Sent: Wed, 30 Sep 2020 01:12:07 +0000
To: [REDACTED]
Cc: [REDACTED]; Greig, Nathan; Roberts, Mick
Subject: Boomanulla Oval - Sportsground Lighting Works
Attachments: PoS Boomanulla Oval - Lighting Works.pdf

UNOFFICIAL

Hi [REDACTED]

Please find attached a PoS Letter giving you access to the Oval this Friday and Saturday if required. Can you advise if you have access keys or you have organised for the Oval to be opened. I suggest that a courtesy visit to the Oval to touch base with the office persons working in the building have the heads up from Projex.

I will Issue another PoS for the other works when dates can be clarified and understood further.

Regards,

Paul Doak | Senior Project Manager
Civil Project Management | Infrastructure Delivery Partners | **Major Projects Canberra**
T 02 6205 8563 | **M** [REDACTED] | **E** paul.doak@act.gov.au
Callam Offices, Level 3, Pod B, 50 Easty Street, Woden ACT 2606
GPO Box 158, Canberra ACT 2601 | www.act.gov.au



[REDACTED]
Project CoOrdinator
PROJEX Pty Ltd
Unit G09/50 Eastlake Parade
Kingston ACT 2604

Dear [REDACTED]

Project: Boomanulla Oval

Contract No: 2018.29696.110.12

POSSESSION OF SITE – BOOMANULLA OVAL

The Australian Capital Territory and PROJEX Pty Ltd have entered into Project Management Services Work Order (Agreement) whereby you will act as Project Manager for the provision of the Boomanulla Oval (Works). Under this Agreement, the Territory grants PROJEX Pty Ltd possession of the full Block 32 Section 34 Goyder St Narrabundah ACT 2604 sufficient to either commence or fully undertake the Works as from **2nd & 3rd October 2020 Inclusive**.

Under the terms of the Agreement, the Project Manager is responsible for the condition, procedures and structure of the Site at all times. The Project Manager will ensure the Site is maintained as a secured safe working environment for all individuals whether working or visiting and remains free of debris and litter.

While you will grant access to subcontractors engaged by you for the purposes of the Works you will remain responsible for the good order and safety of the Site and its impact on the individuals and people and property within and adjacent to the Site.

This full possession of Site continues until the Works are complete.

Yours sincerely

[REDACTED]
Paul Doak
IDP, Civil
Major Projects Canberra

30/09/2020



SITE PLAN



From: Mann, Dave
Sent: Thu, 29 Apr 2021 23:24:54 +0000
To: Roberts, Mick
Subject: RE: Boomunalla Oval Flood light

UNOFFICIAL

No the people who are fixing the lights.

Dave

From: Roberts, Mick
Sent: Friday, 30 April 2021 9:24 AM
To: Mann, Dave
Subject: FW: Boomunalla Oval Flood light

UNOFFICIAL

The SRF on call contact number?

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Mann, Dave <Dave.Mann@act.gov.au>
Sent: Friday, 30 April 2021 9:08 AM
To: Davies, Phil <Phil.Davies@act.gov.au>
Cc: Doyle, Chris <Chris.Doyle@act.gov.au>; sportsgrounds <sportsgrounds@act.gov.au>; Walker, Maurice <Maurice.Walker@act.gov.au>; Roberts, Mick <Mick.Roberts@act.gov.au>
Subject: RE: Boomunalla Oval Flood light

UNOFFICIAL

Thanks Phil

I have already spoken to Mick about this.

It is cocky damage all the lights will be getting replaced so that they are all cocky proof.

Mick do you have a contact number for the on call officer about this.

Thanks

Dave

From: Davies, Phil <Phil.Davies@act.gov.au>
Sent: Thursday, 29 April 2021 7:02 PM
To: Mann, Dave <Dave.Mann@act.gov.au>
Cc: Doyle, Chris <Chris.Doyle@act.gov.au>; sportsgrounds <sportsgrounds@act.gov.au>
Subject: Boomunalla Oval Flood light

Dave,

The light tower right next to the pavilion, lamps flush to come on and went out when the lights can on tonight. It appears there is still an issue in this light tower.

Regards

,Phil Davies | South Canberra Sportsground Supervisor
Sport and Recreation Facilities | City Presentation | Transport Canberra City Services Directorate | **ACT Government** |
Waramanga Depot | off Badimara Street Waramanga | PO Box 352 Civic Square ACT 2608 |
Ph: (02) 6207 5113 | Fax: (02) 6207 2675 | Md: [REDACTED] | www.sport.act.gov.au

From: Mann, Dave
Sent: Mon, 17 May 2021 23:28:30 +0000
To: Roberts, Mick
Subject: FW: Boomanulla Oval

OFFICIAL

Mick

Light still not coming on.

Dave

From: Walker, Maurice
Sent: Monday, 17 May 2021 1:41 PM
To: Burden, Ross
Cc: Mann, Dave ; Doyle, Chris
Subject: RE: Boomanulla Oval

OFFICIAL

Ross,

Out of Scope

3. Lights furthest from main building did not come on Tuesday and Thursday last week for training.

Maurice

Out of Scope

Ross Burden | Senior Director

Phone 02 6207 2307 | Email: ross.burden@act.gov.au

Sport and Recreation Facilities | City Presentation | Transport Canberra and City Services Directorate | ACT Government

480 Northbourne Ave, Dickson ACT 2602 | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Beattie, Margaret <Margaret.Beattie@act.gov.au>

Sent: Monday, 17 May 2021 8:28 AM

To: Burden, Ross <Ross.Burden@act.gov.au>

Cc: ATSIEB <atsieb@act.gov.au>

Subject: Boomanulla Oval

Out of Scope

Margaret Beattie

ACT Aboriginal and Torres Strait Islander Elected Body Secretariat

Community Services Directorate

Phone: **02 6207 9656**

<https://twitter.com/ElectedBody>

<https://www.linkedin.com/company/atsieb>



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Brougham-Pratt, Charlotte

From: Graham, Mark
Sent: Thursday, 10 March 2022 1:50 PM
To: Mann, Dave
Cc: Roberts, Mick; Davies, Phil; Durrell, Mark; Hare, Steven; Burden, Ross
Subject: light globes for Boomanulla

OFFICIAL

Hi all

Just got 3 pallets (13 boxes) of globes for Boomanulla oval delivered to Waramanga Depot (SRS)

They are in shed number 3

Regards

mark

From: [REDACTED]
Sent: Wed, 18 May 2022 23:05:15 +0000
To: Roberts, Mick
Cc: [REDACTED]
Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

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Hi Mick

He hasn't provided one to us, but I haven't asked either.
Last time I spoke to him there was still 1 luminaire to install and the weather had meant he couldn't do it.

I'll call him today and let you know when it will be completely finalised.

Regards



[REDACTED]
Managing Director

[REDACTED]
1300 AAA LUX (222 589)

[REDACTED]
aaa-lux-lighting.com.au

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From: Roberts, Mick
Sent: Wednesday, 18 May 2022 11:44 AM
To: [REDACTED]

Cc: [REDACTED]
Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

OFFICIAL

Hi [REDACTED]

Did Darren provide a certificate of compliance (certification) once installed at Boomanulla. The client will need this for insurances etc.

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: Roberts, Mick
Sent: Tuesday, 26 April 2022 3:31 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

OFFICIAL

Hi [REDACTED]

Excellent news. Do you know if Darren Todd is certifying the system once fully installed?

Regards

Mick Roberts | Project Manager
Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au
Infrastructure Delivery | Transport Canberra and City Services | ACT Government
480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: [REDACTED]
Sent: Tuesday, 26 April 2022 1:12 PM
To: Roberts, Mick <Mick.Roberts@act.gov.au>
Cc: [REDACTED]
Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

CAUTION: This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Hi Mick

Boomanulla is almost complete with 11 of the 12 new luminaires installed, aimed and working.

We had an issue with 1 fitting during the install and sent a replacement which is in Canberra waiting for the weather to clear.

Darren Todd is ready to schedule this in immediately once it is suitable for the EWP.

Apologies for the delay but nothing seems to go smoothly at this site.

Kind regards



[Redacted]
Managing Director

[Redacted]
1300 AAA LUX (222 589)

[Redacted]
aaa-lux-lighting.com.au

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From: Roberts, Mick <Mick.Roberts@act.gov.au>

Sent: Tuesday, 26 April 2022 7:44 AM

To: [Redacted]

Cc: [Redacted]

Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

OFFICIAL

Hi [Redacted]

Can you please informed whether the lights at Boomanulla have been installed yet?

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: [REDACTED]
Sent: Friday, 8 April 2022 12:16 PM
To: Roberts, Mick <Mick.Roberts@act.gov.au>
Cc: [REDACTED]
Subject: Re: Boomanulla Sportsground Floodlighting Replacement to Gen7

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Mick

In short no.

They were to be installed on Wednesday this week.

It was our understanding the poles were 25m.

When the EWP arrives on site it was discovered that the poles are in fact 27m and it couldn't reach.

It is now booked in for next Tuesday.

Regards

[REDACTED]

Get [Outlook for iOS](#)

From: Roberts, Mick <Mick.Roberts@act.gov.au>
Sent: Friday, April 8, 2022 12:05:00 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

OFFICIAL

Hi Guys

Can you please inform whether the lights at Boomanulla have been installed yet?

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: [REDACTED]
Sent: Thursday, 3 March 2022 11:05 AM
To: Roberts, Mick <Mick.Roberts@act.gov.au>

Cc: [REDACTED]

Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

CAUTION: This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Hi Mick

We are arranging for the replacement lights to be sent this week.
Can you confirm the address and contact details for the person to receive the shipment?

Many thanks

[REDACTED]



[REDACTED]
Managing Director
[REDACTED]
1300 AAA LUX (222 589)
[REDACTED]
aaa-lux-lighting.com.au

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From: Roberts, Mick <Mick.Roberts@act.gov.au>
Sent: Thursday, 24 February 2022 12:51 PM
To: [REDACTED]
Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

OFFICIAL

Hi [REDACTED]

My responses in red below

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: [REDACTED]

Sent: Thursday, 24 February 2022 12:59 PM

To: Roberts, Mick <Mick.Roberts@act.gov.au>; [REDACTED]

Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

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Mick

Apologies, but until we were certain the luminaires would be ready we have not contacted any installers in case the fields were in use.

So we have two questions:

1. When are the fields available for the works to occur? **Anytime ASAP** and
2. We were going to approach Darren Todd (Toddy's Electrical) for this work unless you have another preferred contractor? **That's fine.**

Many thanks



[REDACTED]
Managing Director

[REDACTED]
1300 AAA LUX (222 589)

[REDACTED]
aaa-lux-lighting.com.au

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From: Roberts, Mick <Mick.Roberts@act.gov.au>
Sent: Thursday, 24 February 2022 11:01 AM
To: [REDACTED]
Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

OFFICIAL

Hi [REDACTED]

Apologies for the delay. There are limited opportunities for storage at Boomanulla. I could place them at Waramanga depot for your contractors to pick up. Have you programmed an installation date yet? So I might update sport and recreation.

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

480 Northbourne Avenue, Dickson | GPO Box 158 Canberra ACT 2601 | www.act.gov.au

From: [REDACTED]
Sent: Friday, 11 February 2022 12:34 PM
To: Roberts, Mick <Mick.Roberts@act.gov.au>; [REDACTED]
Subject: RE: Boomanulla Sportsground Floodlighting Replacement to Gen7

CAUTION: This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Hi Mick

The Boomanulla lights are in the assembly schedule for the week after completion of the Hawker Softball order.

So currently that means we are likely to dispatch them the week commencing 28 February. If you could confirm if they can be delivered to site it would be appreciated.

Kind regards
[REDACTED]



[Redacted]
Managing Director

[Redacted]
1300 AAA LUX (222 589)

[Redacted]
aaa-lux-lighting.com.au

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From: Roberts, Mick <Mick.Roberts@act.gov.au>

Sent: Thursday, 10 February 2022 3:15 PM

To: [Redacted]

Subject: Boomanulla Sportsground Floodlighting Replacement to Gen7

OFFICIAL

Hi Guys

I have been informed that Boomanulla oval has been booked for night use under light from Tuesday 15th February. Sport and recreation has asked when the new lights will be installed as the current system does not meet the AS due to the amount of luminaires not working.

So I might advise the client can you please advise when

1. the new lights will arrive in Canberra and:
2. installation and system certification dates please.

Regards

Mick Roberts | Project Manager

Phone: 02 6207 2634 | Email: mick.roberts@act.gov.au

Infrastructure Delivery | Transport Canberra and City Services | ACT Government

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