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Circuit Chart
Board -DB PL/2

Client Name	South Tyneside Council	**Installation Name**	South Shields Museum	**Board Phase(s)**	Three Phase
Location of board	Ground Floor Cookson	**Supplied from**	9/TP MSP	**Nominal Voltage**	400 V
Overcurrent Device	60947-2 MCCB	**Rating**	100 A		
RCD Device	N/A	**Rating**	N/A mA	**RCD No Of Poles**	N/A

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA Live (mm^2)	Circuit Conductor CSA cpc (mm^2)	Maximum Disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device BS(EN)	AFDD	Type No	Rating (A)	Short Circuit Capacity (kA)	RCD Operating Current (mA)	Maximum permitted BS767 (Ω)
1	L1	Sub Mains(DB PL/3)	D	B	1	25	10	5	60898 MCB	NO	B	63	10	N/A	0.69
1	L2	Circuit Not Traced	A	B	LIM	2.5	1.5	0.4	60898 MCB	NO	C	6	10	N/A	3.64
1	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
2	L1	Circuit Not Traced	A	B	LIM	2.5	1.5	0.4	60898 MCB	NO	C	6	10	N/A	3.64
2	L2	Circuit Not Traced	A	B	LIM	2.5	1.5	0.4	60898 MCB	NO	C	6	10	N/A	3.64
2	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
3	L1	Ring Main Cookson Gallery	A	B	8	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	30	0.68
3	L2	Circuit Not Traced	A	B	LIM	2.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.19
3	L3	Time clock (sangamo)	A	C	1	2.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.19
4	L1	Circuit Not Traced	A	B	LIM	2.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.19
4	L2	Disabled WC Hand Dryer / Alarm	A	B	1	2x2.5	3x1.5	0.4	60898 MCB	NO	B	32	10	N/A	1.37
4	L3	Circuit Not Traced	A	B	LIM	1.5	1.0	0.4	60898 MCB	NO	C	10	10	N/A	2.19
5	L1	Transformer by DBs	D	B	1	2.5	1.0	0.4	60898 MCB	NO	B	20	10	N/A	2.19
5	L2	Ceiling Fan in Gallery	A	B	1	2.5	1.5	0.4	60898 MCB	NO	B	16	10	N/A	2.73
5	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
6	L1	Lighting Track Stairs LHS	D	B	1	1.5	1.0	0.4	60898 MCB	NO	C	16	10	N/A	1.37
6	L2	Track Lighting Wall	A	B	1	2.5	1.5	0.4	60898 MCB	NO	B	16	10	N/A	2.73
6	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
7	L1	Track Lighting Stairs RHS	A	B	1	2.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.19
7	L2	Track Lighting Wall	A	B	1	2.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.19
7	L3	Ring Main Creatures RHS	A	B	4	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	30	0.68
8	L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-
8	L2	Lighting Creatures	A	B	4	2.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.19

Circuit Chart
Board -DB PL/2

Client Name	South Tyneside Council	**Installation Name**	South Shields Museum	**Board Phase(s)**	Three Phase
Location of board	Ground Floor Cookson	**Supplied from**	9/TP MSP	**Nominal Voltage**	400 V
Overcurrent Device	60947-2 MCCB	**Rating**	100 A		
RCD Device	N/A	**Rating**	N/A mA	**RCD No Of Poles**	N/A

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA Live (mm^2)	Circuit Conductor CSA cpc (mm^2)	Maximum Disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device BS(EN)	AFDD	Type No	Rating (A)	Short Circuit Capacity (kA)	RCD Operating Current (mA)
8	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
9	TP	Sub Mains(DB PL/8)	G	C	1	16	SWA	5	60898 MCB	NO	C	63	10	N/A
10	L1	Lighting Stained Glass	A	B	1	1.5	1.0	0.4	60898 MCB	NO	C	10	10	N/A
10	L2	Circuit Not Traced	A	B	LIM	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	30
10	L3	Circuit Not Traced	H	B	LIM	1.5	MICC	0.4	60898 MCB	NO	C	16	10	N/A
11	L1	Circuit Not Traced	A	B	LIM	1.5	1.0	0.4	60898 MCB	NO	C	6	10	N/A
11	L2	Ring Main Creatures LHS	A	B	2	2x2.5	2x1.5	0.4	60898 MCB	NO	B	32	10	N/A
11	L3	CCTV	A	B	1	2.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A
12	L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12	L2	Ring Main	A	B	2	2x4	2x1.5	0.4	60898 MCB	NO	B	32	10	N/A
12	L3	Ring Main	A	B	3	3x2.5	3x1.5	0.4	60898 MCB	NO	B	32	10	N/A

NOTE

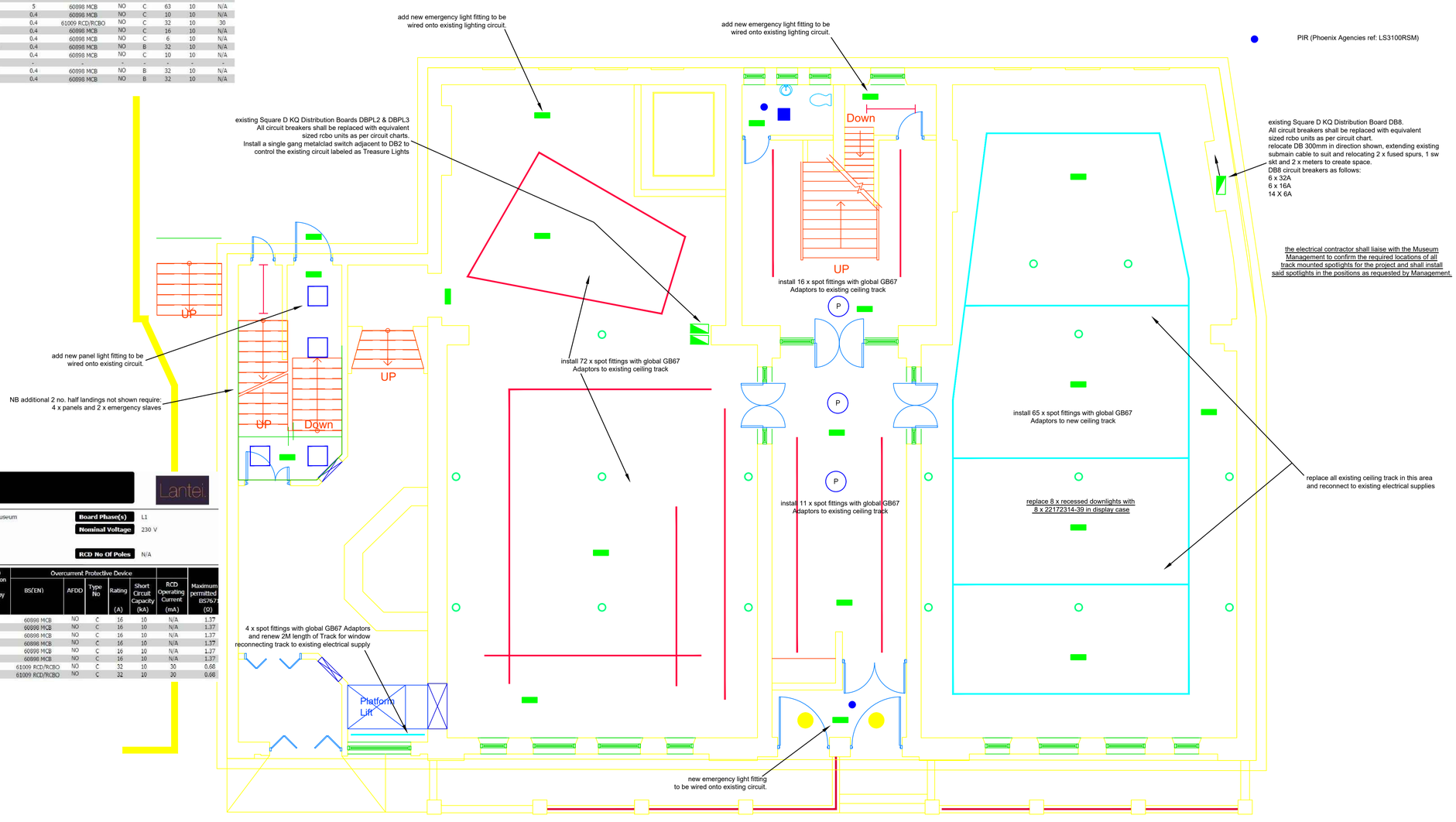
The electrical contractor is responsible for verification of dimensions on the site.
All work shall be carried out in accordance with STC Standard Specification and BS7671 18th edition.
The electrical contractor shall access the Asbestos Plan before any work is carried out.
The existing light fittings shall be replaced, point for point, with LED equivalent light fittings as indicated on the drawing.
Existing light fittings shall be disconnected and removed from site.
All final connections to equipment shall be carried out by the electrical contractor using suitably rated flex and klik ceiling roses.
Any necessary alterations to existing wiring shall be allowed for.
New additional light fittings shall be installed in locations as indicated on the drawings. These shall be wired onto the nearest existing lighting circuit using 1.5mm lsf tw&e cables run behind ceilings.
Automatic lighting control shall be installed in locations as indicated on the drawings; switch wiring for these shall be picked up and altered to facilitate the new controls.
The final positions of all ceiling track mounted spotlights shall be agreed on site with the Museum Management to suit the display layouts and the electrical contractor shall install these fittings in the positions requested.
Light Fittings shall be as per Principal Lighting quotation ref: CR/050423/SG/OFF.
Lighting control equipment shall be as per Phoenix Agencies quotation ref: 1084SG.
The electrical contractor shall ensure that all quotation quantities match the requirements of the drawings.
All quotations shall be most recent versions.
The electrical contractor shall order light fittings at the earliest opportunity after the contract is awarded to ensure delivery times to site.
All equipment shall be installed as per manufactures instructions.

All existing circuit breakers within the Museum`s existing distribution boards shall be upgraded and replaced with equivalent sized rcbo units. Sizes as identified in DB charts on the drawings.
These works shall require the isolation of the distribution boards which are being worked on and these will be carried out one at a time to limit the number of areas requiring isolation at any one time. Times and sequence of isolations shall be agreed on site with the Museum Management.
Full RAMS required.

NOTE
The Electrical Contractor shall ensure all fire barriers that are penetrated to allow the passage of new cabling are resealed to ensure their fire integrity is restored.

all cables shall be supported/fixed by metal supports/clips plastic supports/clips will not be used.

- Existing Ceiling Track (to remain)
- Existing Ceiling Track (to renew)
- Surface 5ft LED Batten
- Surface 4ft LED Batten
- IP54 rated Bulkhead fitting
- Slave Bulkhead Emergency fitting 50V AC/DC (SC=M3)
- TPa Panel
- 1200mm Halo in white
- LSP 31W white
- 240mm diameter downlight
- PIR (Phoenix Agencies ref: LS3100RF)
- PIR (Phoenix Agencies ref: LS3100RSM)



Circuit Chart
Board - DB PL/3

nt Name	South Tyneside Council	**Installation Name**	South Shields Museum	**Board Phase(s)**	L1
ation of board	Ground Floor Cookson	**Supplied from**	1/L1 DB PL/2	**Nominal Voltage**	230 V
rcurrent Device	60898 MCB	**Rating**	63 A		
Device	N/A	**Rating**	N/A mA	**RCD No Of Poles**	N/A

hase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA Live (mm^2)	Circuit Conductor CSA cpc (mm^2)	Maximum Disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device BS(EN)	AFDD	Type No	Rating (A)	Short Circuit Capacity (kA)	RCD Operating Current (mA)	Maximum permitted BS767 (Ω)
L1	Lighting Track	A	B	2	1.5	1.0	0.4	60898 MCB	NO	C	16	10	N/A	1.37
L1	Lighting Track	A	B	1	1.5	1.0	0.4	60898 MCB	NO	C	16	10	N/A	1.37
L1	Lighting Elec.cupd/Displays	A	B	5	1.5	1.0	0.4	60898 MCB	NO	C	16	10	N/A	1.37
L1	Lighting Displays	A	B	1	1.5	1.0	0.4	60898 MCB	NO	C	16	10	N/A	1.37
L1	Lighting Track	A	B	1	1.5	1.0	0.4	60898 MCB	NO	C	16	10	N/A	1.37
L1	Lighting Track	A	B	1	1.5	1.0	0.4	60898 MCB	NO	C	16	10	N/A	1.37
L1	Ring Main Cookson Gall	A	B	6	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	30	0.68
L1	Ring Main Cookson Gall	A	B	6	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	30	0.68

IMPORTANT: This building may contain asbestos. No building work should be carried out without first consulting the Asset Management Team (0191 424 7239) for further information.

TENDER DRAWING

Rev	Date	Description	Chkd

South Tyneside Council
Chief Executive
Irene Lucas - Chief Executive
Town Hall & Civic Offices, Westoe Road, South Shields, Tyne & Wear, NE33 2RL
Telephone: (0191) 427 1717 Fax: (0191) 455 7770

Project
South Shields Museum and Art Gallery MEND

Drawing Title
Ground Floor Plan
Propsed Electrical Installation

Drawn by	MS	Date	May 2023
Checked by	XX	Date	--/--/--
Scale	1:75	Size	A1

Project Code: AD 6878
Drawing Number: L(69)2