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.

Circuit Chart Board - DB PL/7

Client Name	South Tyneside Council	**Installation Name**	South Shields Museum	**Board Phase(s)**	Three Phase
Location of board	First Floor Riser Facing	**Supplied from**	5/TP MSP	**Nominal Voltage**	400 V
Overcurrent Device	60947-2 MCCB	**Rating**	160 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 (mm²)	CSA cpc (mm²)	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 BS7 (Ω)
1	L1	Lighting 2nd Fl Pic.store	D	B	7	1.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.
1	L2	Lighting Pic.Gall.(recessed)	D	B	7	1.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.
1	L3	Lighting Recep.(recessed)	D	B	7	1.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.
2	L1	Lighting Plant rm/stairs	D	B	5	2x1.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.
2	L2	Lighting Pic.Gall.(track)	D	B	3	1.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.
2	L3	Lighting Recep.(recessed)	D	B	7	1.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.
3	L1	Lighting Stairs	D	B	6	1.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.
3	L2	Lighting Corridor	D	B	2	2x1.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A	2.
3	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	
4	L1	Ring Main Pic.store	D	B	4	2x2.5	2x2.5	0.4	61009 RCD/RCBO	NO	C	32	10	30	0.
4	L2	Ring Main Gallery	D	B	8	2x2.5	2x2.5	0.4	61009 RCD/RCBO	NO	C	32	10	30	0.
4	L3	Ring Main Reception	D	B	6	2x2.5	2x2.5	0.4	61009 RCD/RCBO	NO	C	32	10	30	0.
5	L1	Ring Main Stairs	D	B	2	2x2.5	2x2.5	0.4	61009 RCD/RCBO	NO	C	32	10	30	0.
5	L2	Door Entry	D	B	1	2.5	2.5	0.4	60898 MCB	NO	C	16	10	N/A	1.
5	L3	Ring Main Reception Desk	D	B	7	2x2.5	2x2.5	0.4	61009 RCD/RCBO	NO	C	32	10	30	0.
6	L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	
6	L2	Ring Main Roller.Shutters	D	B	3	2x2.5	2x2.5	0.4	60898 MCB	NO	C	32	10	N/A	0.
6	L3	Ring Main CCTV	D	B	4	2x2.5	2x2.5	0.4	60898 MCB	NO	C	32	10	N/A	0.
7	L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	
7	L2	CCTV	D	B	1	2.5	2.5	0.4	60898 MCB	NO	C	16	10	N/A	1.
7	L3	Chair Lift Supply	D	B	1	4	4	0.4	60898 MCB	NO	C	16	10	N/A	1.
8	L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	
8	L2	Alarm spur by DB	B	B	1	2.5	1.5	0.4	60898 MCB	NO	B	10	10	N/A	4.

Circuit Chart Board - DB PL/4

Client Name	South Tyneside Council	**Installation Name**	South Shields Museum	**Board Phase(s)**	Three Ph
Location of board	First Floor Riser	**Supplied from**	12/TP MSP	**Nominal Voltage**	400 V
Overcurrent Device	60947-2 MCCB	**Rating**	160 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 (mm²)	CSA cpc (mm²)	Maximum Disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device BS(EN)	AFDD	Type No	Rating (A)	Short Circuit Capacity (kA)	R
1	L1	Ring Main Gallery Floor	A	B	5	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	
1	L2	Ring Main Education Rm	A	B	4	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	
1	L3	Ring Main WC Hand Dryers	A	B	4	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	B	32	10	
2	L1	Ring Main Gallery Floor	A	B	1	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	B	32	10	
2	L2	Ring Main Education Rm	A	B	3	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	B	32	10	
2	L3	Spur Male WC	A	B	1	2.5	1.5	0.4	60898 MCB	NO	B	20	10	
3	L1	Ring Main Gallery Floor	A	B	5	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	
3	L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	
3	L3	Sockets .Corridor	A	B	5	2x2.5	2x1.5	0.4	60898 MCB	NO	B	20	10	
4	L1	Ring Main Gallery	A	B	10	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	
4	L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	
4	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	
5	L1	Sockets .Gallery	A	B	7	2.5	1.5	0.4	61009 RCD/RCBO	NO	C	16	10	
5	L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	
5	L3	Door Mags	A	B	1	2.5	1.5	0.4	60898 MCB	NO	B	20	10	
6	L1	Lighting Exhib.track	A	B	1	1.5	1.0	0.4	60898 MCB	NO	C	10	10	
6	L2	Lighting Education Rm	A	B	5	1.5	1.0	0.4	60898 MCB	NO	C	10	10	
6	L3	Lighting & Vent WCs	A	B	12	1.5	1.0	0.4	60898 MCB	NO	C	10	10	
7	L1	Lighting Exhib.track	A	B	1	1.5	1.0	0.4	60898 MCB	NO	C	10	10	
7	L2	Lighting Education Rm	A	B	5	1.5	1.0	0.4	60898 MCB	NO	C	10	10	
7	L3	Lighting WCs/Lobby	A	B	14	1.5	1.0	0.4	60898 MCB	NO	C	10	10	
8	L1	Lighting Exhib.track	A	B	1	1.5	1.0	0.4	60898 MCB	NO	C	10	10	
8	L2	Lighting Education Rm	A	B	5	1.5	1.0	0.4	60898 MCB	NO	C	10	10	

Circuit Chart Board - DB PL/4

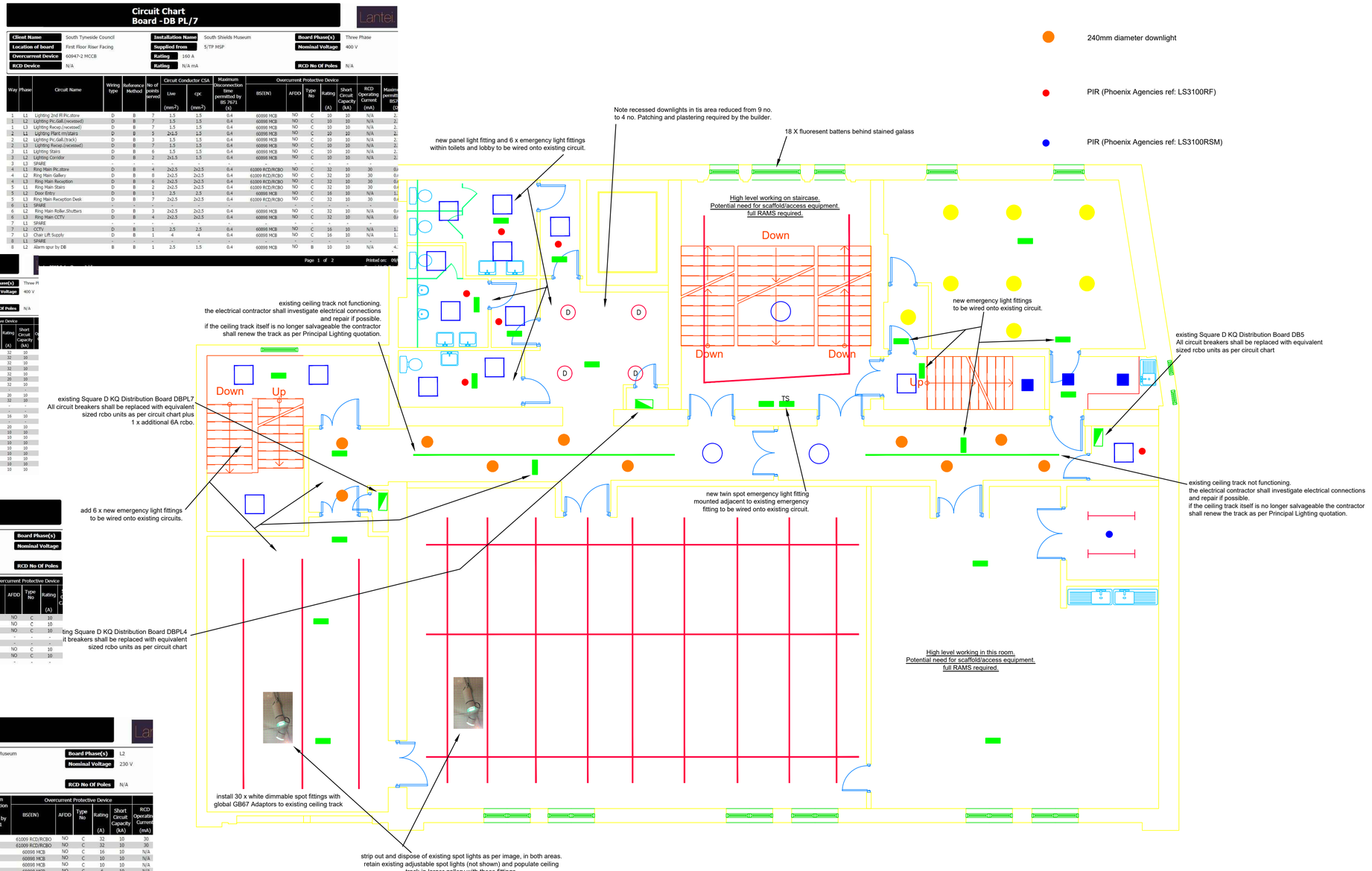
Client Name	South Tyneside Council	**Installation Name**	South Shields Museum	**Board Phase(s)**	
Location of board	First Floor Riser	**Supplied from**	12/TP MSP	**Nominal Voltage**	
Overcurrent Device	60947-2 MCCB	**Rating**	100 A		
RCD Device	N/A	**Rating**	N/A mA	**RCD No Of Poles**	

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA Live (mm²)	CSA cpc (mm²)	Maximum Disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device BS(EN)	AFDD	Type No	Rating (A)	C
8	L3	Lighting Staircase	A	B	4	1.5	1.0	0.4	60898 MCB	NO	C	10	
9	L1	Lighting Exhib.Rm	A	B	5	1.5	1.0	0.4	60898 MCB	NO	C	10	
9	L2	Lighting Void area	A	B	4	1.5	1.0	0.4	60898 MCB	NO	C	10	
9	L3	SPARE	-	-	-	-	-	-	-	-	-	-	
10	L1	SPARE	-	-	-	-	-	-	-	-	-	-	
10	L2	Lighting Void area	A	B	3	1.5	1.0	0.4	60898 MCB	NO	C	10	
10	L3	Lighting Corridor	A	B	5	2x1.5	2x1.0	0.4	60898 MCB	NO	C	10	
11	TP	SPARE	-	-	-	-	-	-	-	-	-	-	

Circuit Chart Board - DB PL/5

Client Name	South Tyneside Council	**Installation Name**	South Shields Museum	**Board Phase(s)**	L2
Location of board	First Floor Tea Room	**Supplied from**	11/L2 MSP	**Nominal Voltage**	230 V
Overcurrent Device	60947-2 MCCB	**Rating**	63 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 (mm²)	CSA cpc (mm²)	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)
1	L2	Ring Main Meeting Room	A	B	8	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	30
2	L2	Ring Main Kitchen	A	B	4	2x2.5	2x1.5	0.4	61009 RCD/RCBO	NO	C	32	10	30
3	L2	Water boiler Kitchen	A	B	1	2.5	1.5	0.4	60898 MCB	NO	C	16	10	N/A
4	L2	Lighting Meeting Room	A	B	8	1.5	1.0	0.4	60898 MCB	NO	C	10	10	N/A
5	L2	Lighting Meeting Room Corridor	A	B	2	1.5	1.0	0.4	60898 MCB	NO	C	10	10	N/A
6	L2	Lighting Kitchen / Store	A	B	3	1.5	1.0	0.4	60898 MCB	NO	C	6	10	N/A
7	L2	Water heater	A	B	1	2.5	1.5	0.4	60898 MCB	NO	C	16	10	N/A
8	L2	Door Entry	A	B	1	2.5	1.5	0.4	60898 MCB	NO	C	10	10	N/A
9	L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10	L2	Lighting Corridor	A	B	6	1.5	1.0	0.4	60898 MCB	NO	C	10	10	N/A
11	L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-



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)

© Copyright all rights reserved South Tyneside Council, Corporate Development.

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: First Floor Plan Proposed Electrical Installation

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

Project Code	Drawing Number
AD6878	L(69)3