

**PLAN AT CELLARS**

the existing track and spotlights at the North Cellar are defective and obsolete; removal is proposed

the existing light switch and cable at the North Cellar are visually conspicuous and inappropriately fixed directly to stones; removal is proposed

**NORTH CELLAR ELECTRICAL EQUIPMENT SCHEDULE**

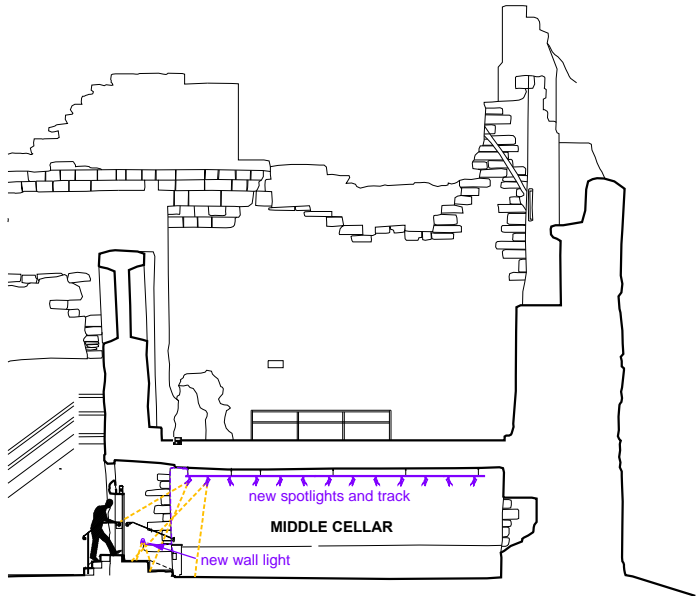
Item reference	Location	Quantity	Product manufacturer, type and description	Product reference	Colour	Dimensions
01 long track	crown of vault soffit	3	Illuma Lighting, <b>1-Circuit 230v</b> , 8ft track	T8-BL	black	2335 long
02 short track	crown of vault soffit	1	Illuma Lighting, <b>1-Circuit 230v</b> , 4ft track	T4-BL	black	1115 long
03 track accessory	crown of vault soffit	8	Illuma Lighting, <b>1-Circuit 230v</b> , adjustable track suspension wire	T35(3000)	n/a	3000 long
04 spotlight	crown of vault soffit	13	Illuma Lighting, <b>Electrospot</b> , 8 watt, LED spotlight	TLED36507WW036-BL/S	black	150 long x 65 dia.
05 spotlight accessory	crown of vault soffit	13	Illuma Lighting, <b>Electrospot</b> , barn door, anti-glare accessory	TH75-BL	black	n/a
06 wall light	wall adj. to N door jamb	1	Designplan Lighting, <b>Callisto</b> , vandal resistant LED wall light	CAL/3X2/MNW/CO4	black	152 x 111 x 125
07 light switch	wall adj. to S door jamb	1	MK, <b>Masterseal Plus</b> , IP56 enclosure and 10A switch module	K56414GRY and 56881BLK	grey	95 x 95 x 80

**MIDDLE CELLAR ELECTRICAL EQUIPMENT SCHEDULE**

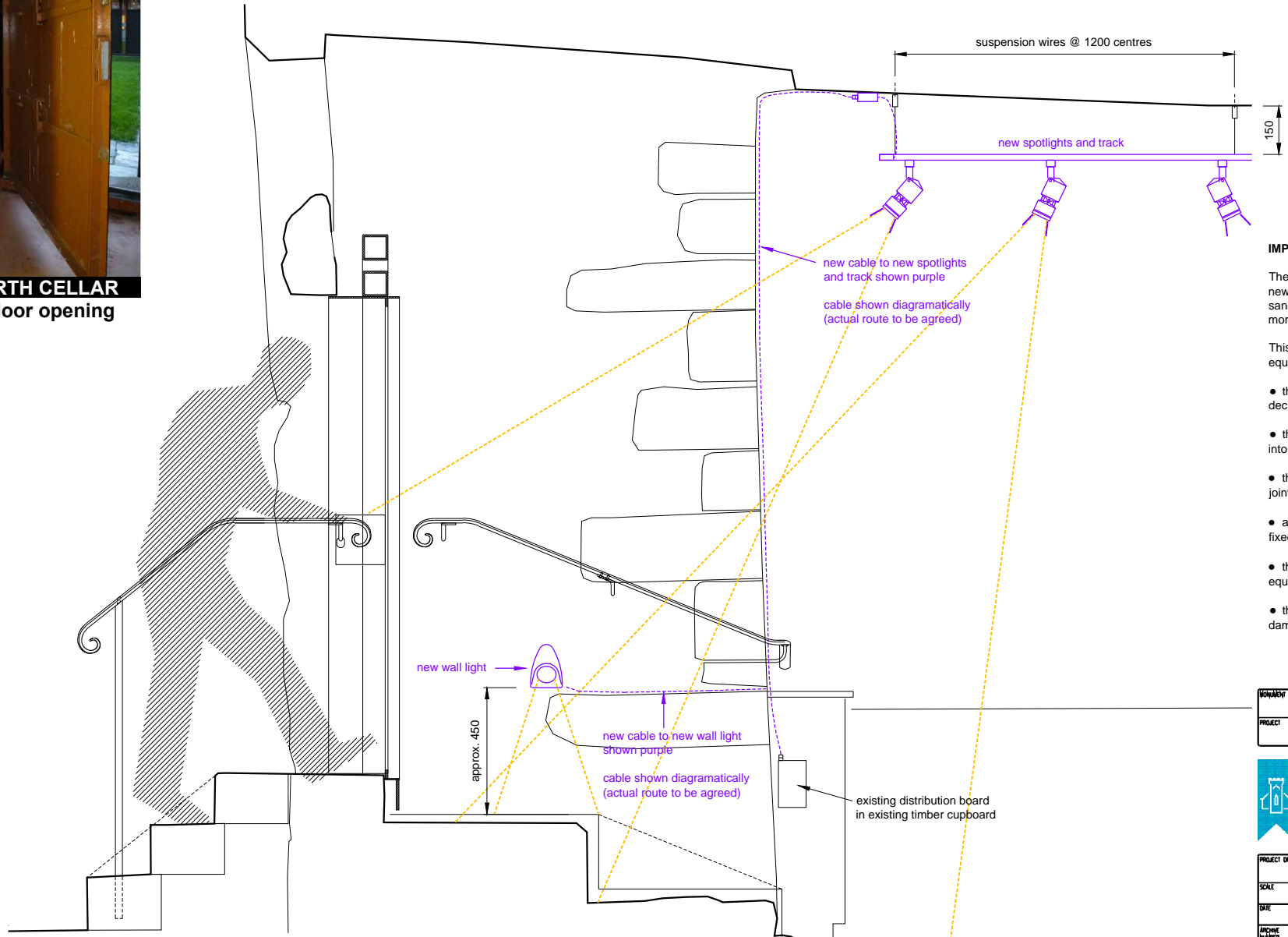
Item reference	Location	Quantity	Product manufacturer, type and description	Product reference	Colour	Dimensions
01 long track	crown of vault soffit	3	Illuma Lighting, <b>1-Circuit 230v</b> , 8ft track	T8-BL	black	2335 long
02 short track	crown of vault soffit	1	Illuma Lighting, <b>1-Circuit 230v</b> , 4ft track	T4-BL	black	1115 long
03 track accessory	crown of vault soffit	8	Illuma Lighting, <b>1-Circuit 230v</b> , adjustable track suspension wire	T35(3000)	n/a	3000 long
04 spotlight	crown of vault soffit	13	Illuma Lighting, <b>Electrospot</b> , 8 watt, LED spotlight	TLED36507WW036-BL/S	black	150 long x 65 dia.
05 spotlight accessory	crown of vault soffit	13	Illuma Lighting, <b>Electrospot</b> , barn door, anti-glare accessory	TH75-BL	black	n/a
06 wall light	wall adj. to N door jamb	1	Designplan Lighting, <b>Callisto</b> , vandal resistant LED wall light	CAL/3X2/MNW/CO4	black	152 x 111 x 125
07 light switch	wall adj. to S door jamb	1	MK, <b>Masterseal Plus</b> , IP56 enclosure and 10A switch module	K56414GRY and 56881BLK	grey	95 x 95 x 80



**LIGHT SWITCH AT NORTH CELLAR**  
diagrammatic view at door opening (Middle Cellar similar)



**SECTION AT MIDDLE CELLAR**



**SECTION AT MIDDLE CELLAR DOOR**

**DESCRIPTION OF WORKS**

- EXISTING ELECTRICAL INSTALLATION**
- Existing 230 volt suspended track and spotlights to be removed at the North Cellar
  - Existing light switch and cable to be removed at the North Cellar
  - Existing temporary, portable 110 volt transformer and floor light at the Middle Cellar to be replaced by new spotlights

- PROPOSED ELECTRICAL INSTALLATION**
- New 230 volt spotlights and suspended track to be installed at the North and Middle Cellar
  - New 230 volt wall light to be installed at the North and Middle Cellar
  - New light switches, to operate new spotlights, to be installed at the North and Middle Cellar

- CABLES**
- Existing cables to be tested and reused where practicable
  - DA to agree all new cable routes on site with HES HMD and electrical contractor
  - New cables to be PVC sheathed MICC set in ragged mortar joints with lead wedges, where the joints are sufficiently wide. Alternatively new cables to be bare copper MICC surface-mounted with bare copper one-hole P-clips

- INSTALLATION**
- Adjustable track suspension wires to be fixed into mortar joints NOT stones
  - Wall lights to be fixed into mortar joints NOT stones
  - Light switches to be fixed into mortar joints NOT stones
  - Surface-mounted cables to be fixed into mortar joints NOT stones

- COMPLETION**
- The installation shall be tested by the electrical contractor on completion
  - The electrical contractor shall provide HES with an inspection certificate on completion

**IMPORTANT NOTES**

- The masonry walls adjacent to the proposed new electrical equipment are exposed sandstone, ashlar and rubble with cement mortar joints
- This drawing indicates approximate equipment positions
- the final equipment positions are to be decided on site by HES DA and HMD
  - the track suspension wires are to be fixed into mortar joints NOT stones
  - the wall lights are to be fixed into mortar joints NOT stones
  - any surface-mounted cables are to be fixed into mortar joints NOT stones
  - the mortar joints are to be drilled for the equipment fixings by HES stonemasons
  - the sandstone masonry is not to be drilled, damaged or defaced in any way

**SMC**

FORWARD	BOTHWELL CASTLE
PROJECT	Electrical Improvements at Cellars



PROJECT DRAWING NUMBER	Proposal
SCALE	NTS
DATE	January 2016
APPROVED BY	P Beaton
DRAWN BY	S Bain
PROJECT NUMBER	188-038-365