

TQUK Level 3 Diploma in Design, Engineer, Construct: The Digital Built Environment (RQF)

Resource Document

Scenario and brief

Scenario

The National Picture Theatre is on Beverley Road in Hull, an area in East Yorkshire. It was designed by the architects Runton and Barry for the De-Luxe Theatre Company. It opened in December 1914. The cinema had a long, narrow theatre with 1,050 seats in the stalls and the balcony.

During the Second World War, Hull was one of the worst-affected cities. The city experienced destructive air raids for longer than any other place in Britain. The National Picture Theatre still has evidence of an air raid in 1941. The red brick and Portland stone façade is the only part of the original building still left. The building was given Grade II listed status in 2007 because of its historical significance to the city.

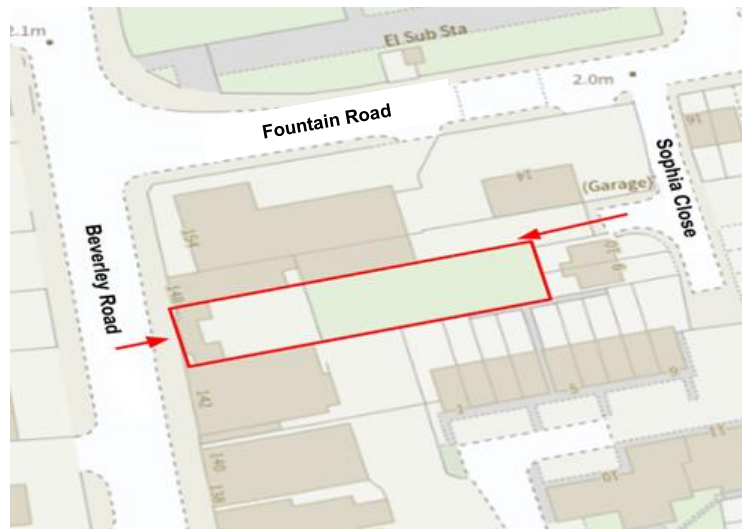
The Brief

The Heritage Lottery Fund have awarded Hull City Council a £2.9 million grant to restore the building. The development team plan to create an entertainment centre designed to provide an intimate space to showcase independent films and local live artists. The space will also be used for education and community events to help educate local people and visitors about the city's experience in the Second World War.

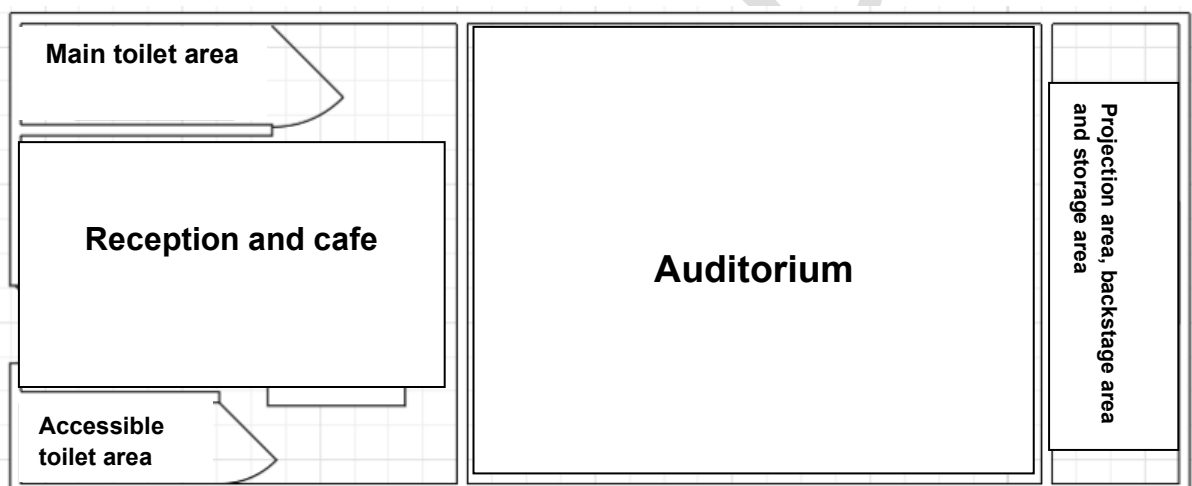
The council wants a contemporary design that is in harmony with the existing façade, using modern, eco-friendly design features to contrast and further highlight what remains of the historical original building. The new building must support Hull City Council's goal to become Carbon Neutral by 2030. The building should have a low environmental impact and should be resilient to extreme weather and climate change.

The total budget for the project has been set at £3.4 million.

Map:



Floor plan (not to scale):



Building Data

The site measures 14 metres (m) in width and 60 metres in length.

There is also a **planned** extension that will be 7 metres wide and 3 metres deep. This extension would remove an existing door of 2 metres squared (m²). A window of 1.5m² would no longer be exposed.

- auditorium 468 m²
- reception / cafe 178 m²
- projection / backstage / storage 52 m²
- main toilet area 24.75 m²
- accessible toilet area 21.25 m².

The estimated cost of the building work is £3,630 per m². This does not include finishing, furniture or decoration.

Table 1

	Brightness required in lumens	220+	400+	700+	900+	1300+
Type of bulb	Standard	25	40	60	75	100
	Halogen	28	28	42	53	70
	CFL	6	9	12	15	20
	LED	4	6	10	13	18

Table 2

Most common light levels for a cinema auditorium		
Level	Description	Lux
Full	Required when people enter and or leave the building, no screening.	150
Half	Required when people enter / leave the building during pre-show or end credits.	50
Maximum	Required for cleaning and / or conferences, where attention to detail is needed.	350

End of Resource Document