



**COOPER
ARCHITECTURAL
DESIGN**

90 WINSOVER ROAD SPALDING LINCS PE11 1HA
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**20 CLEY HALL DRIVE
SPALDING
LINCS
PE11 2EB**

FLOOD RISK ASSESSMENT

The site is situated in zone 3 on the Environment Agency Flood mapping and the High probability zone of the 2017 South Holland Strategic Flood Risk Assessment.

However, the proposed is for the construction of a domestic garage. There will be no living accommodation included and the finished floor level will be approximately 50mm above the level of the existing concrete parking area.

The subject building is a garage for a residential property and there will be no sleeping accommodation at floor level, the proposed extension sits to the front of the property and the floor level will be set at 50mm above the the levels of the existing concrete drive.

The construction of the Garage will use traditional techniques consistent with the architectural style of the original property, the walls will be face brick with a blockwork inner leaf and the roof will be plain clay tiles to match the original.

The proposal will not contribute to any increased flood risk in the area as the roof area will be identical to the area of the existing concrete drive. The new drive will be constructed using Porous Block Paviors.

The following measures would be incorporated into the final design to provide flood resilience.

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Any insulation to the floor slab will be expanded urethane closed cell insulation which will be less affected by water if a flooding event ever occurred.

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Any insulation to the external walls will be expanded urethane closed cell insulation which will be less affected by water if a flooding event ever occurred.

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The external door will be coloured Galvanized Steel.

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Any service entries through the slab or walls are to be properly sealed using spray foam.

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All electrical sockets will be positioned at a level of 1.2m above f.f.l. to remove potential ingress points.