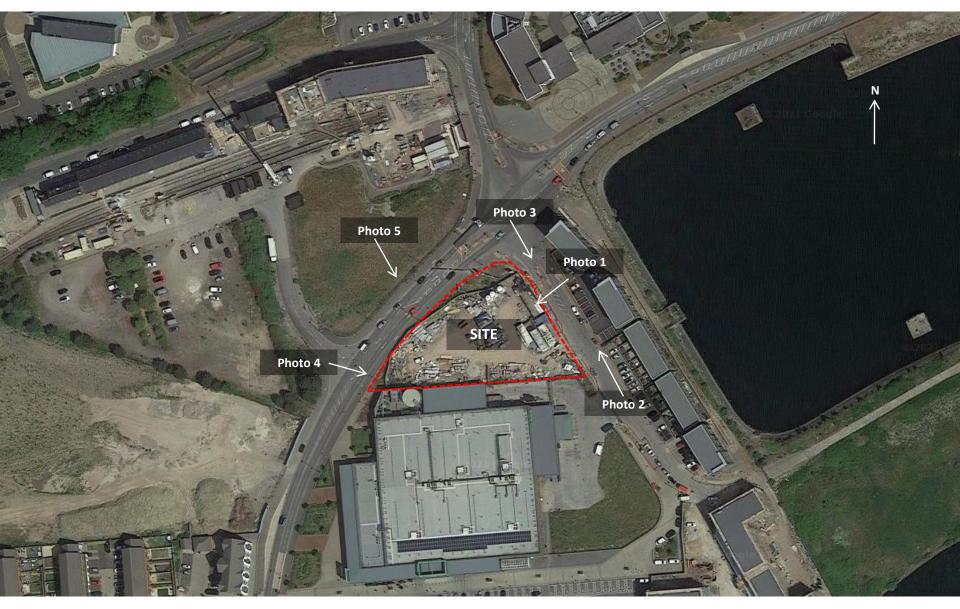




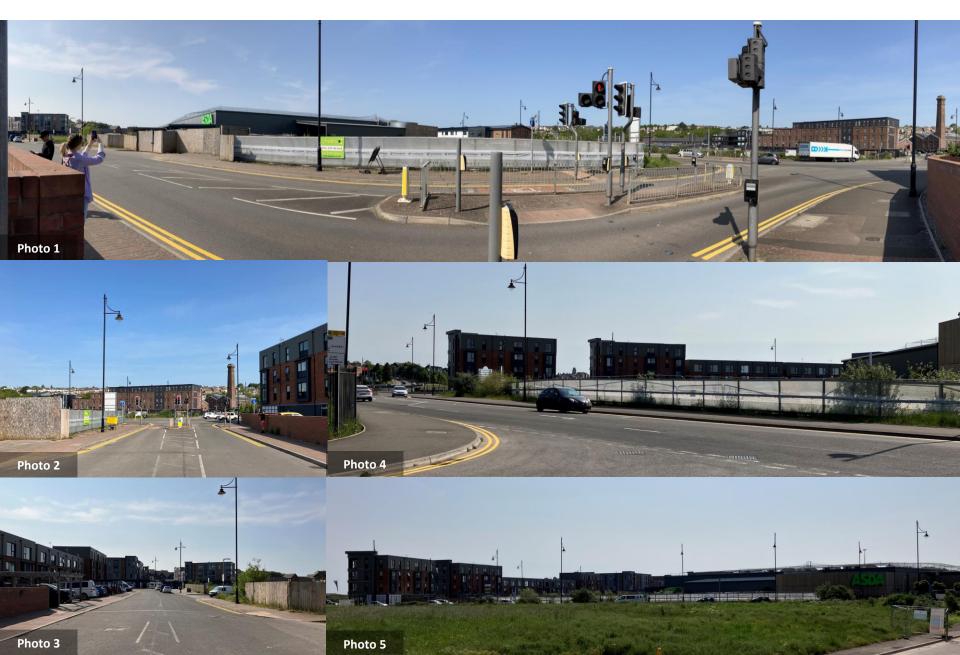
Site Analysis





# **Site Photos**



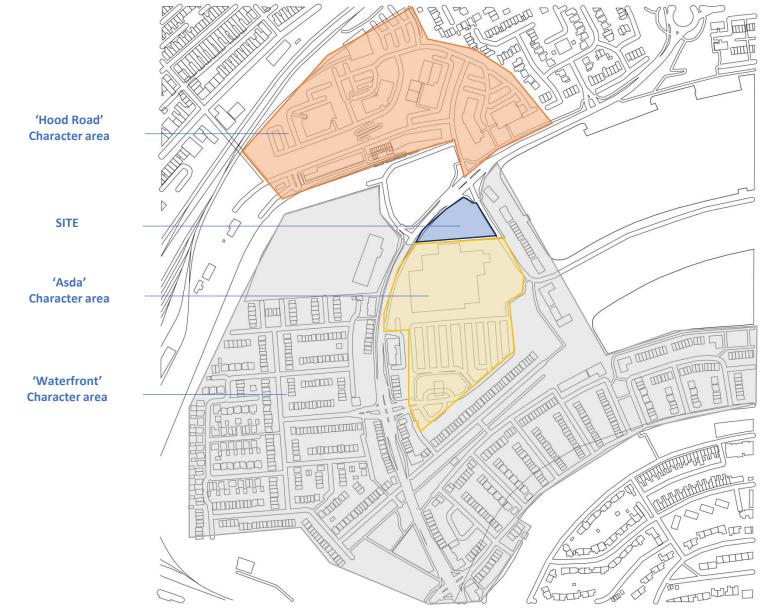


# **Site Aerial View**



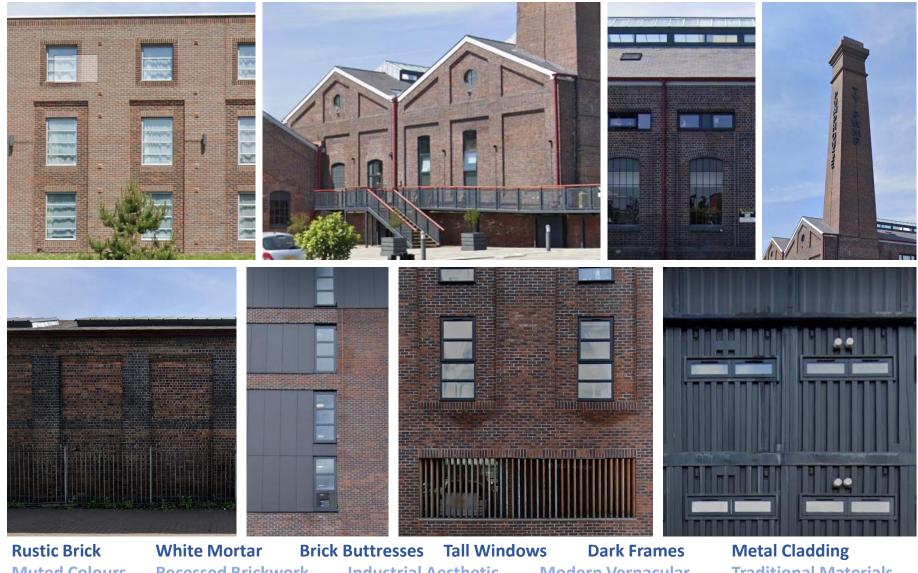
# **Local Vernacular**







# **Local Vernacular** Hood Road



**Muted Colours** 

**Recessed Brickwork** 

**Industrial Aesthetic** 

**Modern Vernacular** 

**Traditional Materials** 

# Local Vernacular Waterfront Development



Standard Brick Muted Colours Natural Mortar Oriel Windows Minimal Brickwork Details Tall WindowsDark FramesNeo-vernacular AestheticTr

Mixed Cladding Traditional Materials



# Local Vernacular Asda Development



Metal Louvers Muted Colours Natural Mortar Minimal Details Limited glazing Tall Windows Commercial Aesthetic Dark Frames Ti Utilitarian Materials

Timer Cladding erials Green Spaces





Design Response 40 residential apartments WDQR Compliant Housing

#### **Concept Diagram**

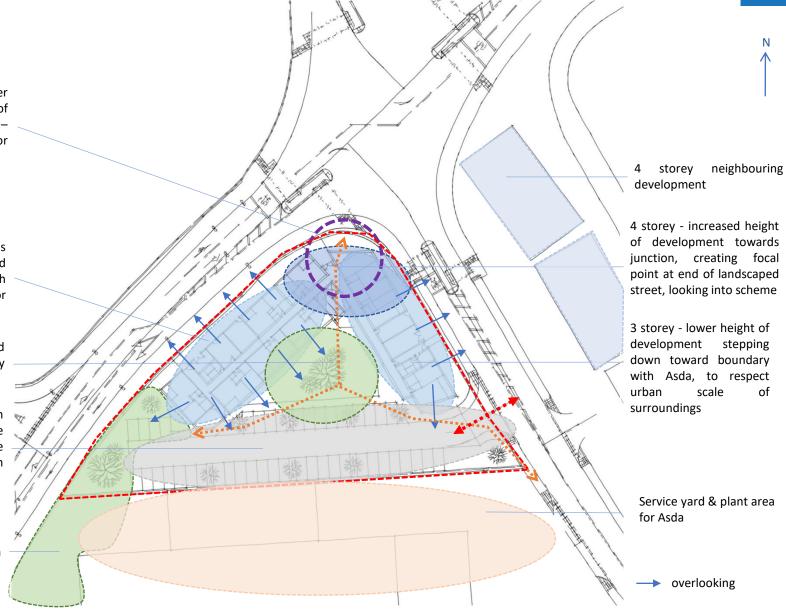
Focal points - Corner landmark & end of internal street – opportunities for signature buildings

Activefrontagesmaximisedalongroadboundaries,withlandscapedstripfordefensible spacestrip

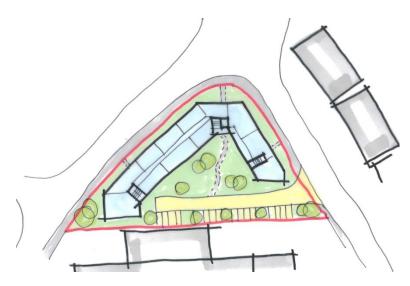
Amenity space enclosed & sheltered from busy road by building form

Car park along southern boundary to create buffer to Asda service yard and remove from public realm

Continuation of green frontage around from Asda



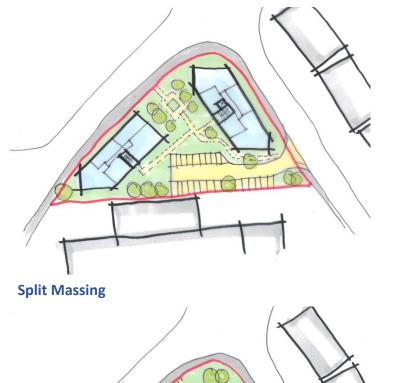
## Desing Development Sketches



**Perimeter Massing** 



**Fragmented Massing** 





1

Setback Massing

## **Ground Floor**





## First & Second Floors





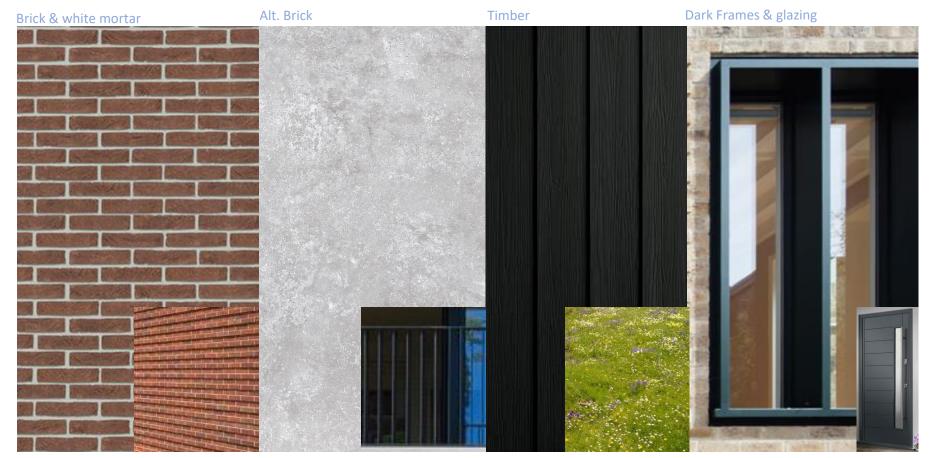
## **Third Floor**





## **Concept Design** Material Palette





Snapped header derail

Dark Railings

Green roof



**3D Massing** 





**3D Massing** 



### People & Community:

The design aims to foster the growth of a new community by providing desirable affordable accommodation to meet the needs of the local area, as well as respecting and integrating with the existing communities through the scale of the development and connections to existing communities.

## Public Realm:

Both the Ffordd y Mileniwn & Neptune Road frontages are redefined and considerably enhanced from its existing state, with active frontages and sensitive massing. Green infrastructure and SUDs features are also integrated to the surrounding landscape design.

#### Mix of uses:

The density and mix of tenures will help to support a diverse community, while active frontages and central location will provide a vibrant public realm. Scheme compliments a wider area of mixed use in the waterfront area

#### **Movement:**

Walking, cycling and public transport are prioritised, with provision of convenient, safe bike storage provided within the scheme and pedestrian access directly to both road frontages & nearby retail centres & amenity areas. Nearby by public transport includes a train station, bus stops and a cycle network.

### Location:

The land use is very efficient, delivering high density development in a prominent, brown field site that is in a well-connected location.

#### **Identity:**

The contemporary design approach will form a focal design point that enhances the aesthetic aspect of the street, aiding legibility and providing a sense of identity to residents. An architecturally distinct building that draws on the influences of its surrounds and the dichotomy of styles prevalent in the area



### Sustainable Design Strategy

#### Waste Water Heat Recovery How does this work?

# Finder and the babe subset a near Shower Save ut

Typically, a waste water heat recovery system works by extracting the heat from the water your shower or bath sends down the drain. This heat is used to warm the incoming mains water, reducing the strain on your boiler and the energy required to heat your water up to temperature. A system normally takes the form of a long vertical copper pipe, where the warm water runs alongside the colder mains water to exchange the heat.

#### Mechanically Ventilated Heat Recovery

#### How does this work?



Heat recovery ventilation (HRV), also known as mechanical ventilation heat recovery (MVHR), is an energy recovery ventilation system which works between two sources at different temperatures. By recovering the residual heat in the exhaust gas, the fresh air introduced into the air conditioning system is pre-heated (pre-cooled), and the fresh air enthalpy is increased (reduced) before the fresh air inters the room or the air cooler of the air conditioning unit performs heat and moisture treatment.Building exhaust air is used as either a heat source or heat sink depending on the climate conditions, time of year and requirements of the building.



#### Solar PV



#### How does this work?

A photovoltaic system, also PV system or solar power system, is an electric power system designed to supply usable solar power by means of photovoltaics. It consists of an arrangement of several components, including solar panels to absorb and convert sunlight into electricity.

#### What else? Other key sustainability principles:

- -37% fabric improvement over current requirements -133-145% carbon emissions improvement over current
- requirements -Regulated and un-regulated energy Zero Carbon
- -Air tightness of below 1.0 m<sup>3</sup>/h/m<sup>2</sup> (@ 50pa)
- Triple glazed windows with BFRC certificates
- -Passive house levels of insulation
- -Solar Photovoltaic maximised to approximately 8.6kWp per dwelling

#### Air Source Heat Pumps



#### How does this work?

Aeromax Plus air source heat pump collects and utilises thermal energy from the outside air to heat the home and provide domestic hot water. It does this in the same way that a fridge extracts heat from its inside. It can extract heat from the air even when the outside temperature is as low as –20 degrees C. The heat generated can be used to warm water for radiators, underfloor heating systems or provide domestic hot water in your home. The process is simple, effective and entirely renewable – something which is good for both the environment and future generations as well as our pockets.



#### **Green Roof**



A green roof or living roof is a roof of a building that is partially or completely covered with vegetation and a growing medium, planted over a waterproofing membrane. It may also include additional layers such as a root barrier and drainage and irrigation systems.

How does this work?

# Accommodation schedule

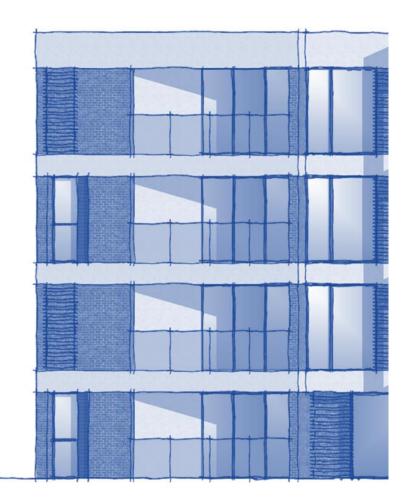
Туре		Area	No. Units
Apartments:			
GF	1B	50 m <sup>2</sup>	8
	2B	58-70 m <sup>2</sup>	1
1F	1B	50 m <sup>2</sup>	8
	2B	58-70 m <sup>2</sup>	3
2F	1B	50 m <sup>2</sup>	8
	2B	58-70 m <sup>2</sup>	3
3F	1B	50 m <sup>2</sup>	7
	2B	58-70 m <sup>2</sup>	2
		Subtotal	40

TOTAL:

Parking

31 x 1B Apartments 9 x 2B Apartments **40 Apartments** 

40 Resident Spaces 4 Visitor Spaces





Design Response Precedent Images

















