

— Extent of landowners property
 — Extent of development site
 — Extent of wayleave

URBAN PLACE MAP (Scale 1:1000)

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Description:
 Digital Cartographic Model (DCM)

Publisher / Source:
 Ordnance Survey Ireland (OSI)

Data Source / Reference:
 PRIME2

File Format:
 Autodesk AutoCAD (DWG_R2013)

File Name:
 v_50161238_1.dwg

Clip Extent / Area of Interest (AOI):
 LLX,LLY= 671425.6981,676626.8061
 LRX,LRY= 671855.6981,677626.8061
 ULX,ULY= 671425.6981,677209.8061
 URX,URY= 671855.6981,677209.8061

Projection / Spatial Reference:
 Projection= IRENET95_Irish_Transverse_Mercator

Centre Point Coordinates:
 X,Y= 671640.6981,676918.3061

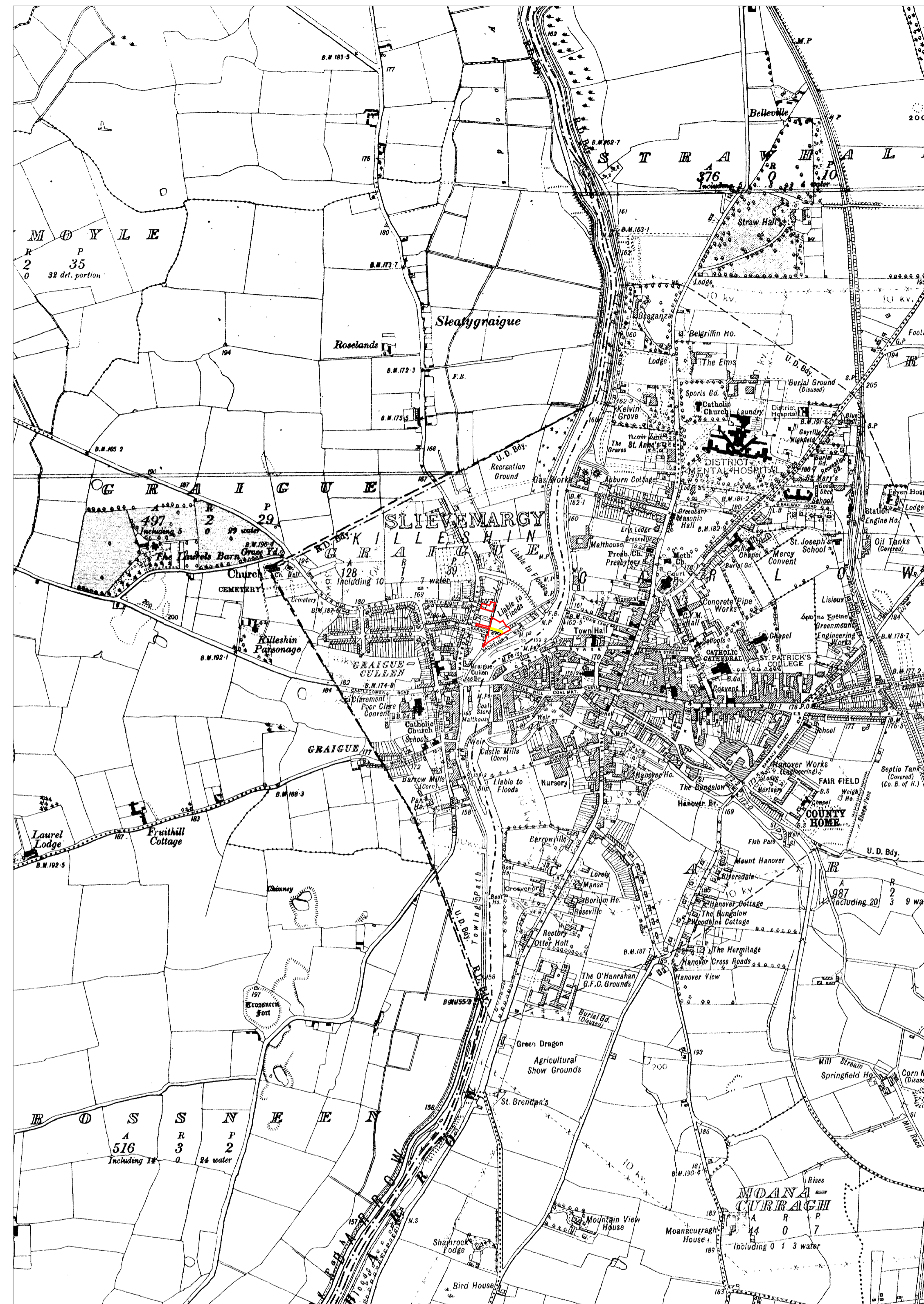
Reference Index:
 Map Series | Map Sheets
 1:1,000 | 4356-15
 1:1,000 | 4356-10

Data Extraction Date:
 Date= 11-Dec-2020

Source Data Release:
 DCLMS Release V1.135.111

Product Version:
 Version= 1.3

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— Extent of landowners property
 — Extent of development site
 — Extent of wayleave

RECORD PLACE MAP (Scale 1:10560)

Description:
 Historic 6" Latest Edition

Publisher / Source:
 Ordnance Survey Ireland (OSI)

Data Source / Reference:
 LS032
 Revision Date =
 Survey Date =
 Levelled Date = 31-Dec-1908

LS037
 Revision Date =
 Survey Date =
 Levelled Date = 31-Dec-1908

KE039
 Revision Date =
 Survey Date =
 Levelled Date = 31-Dec-1909

CW002
 Revision Date =
 Survey Date =
 Levelled Date = 31-Dec-1908

CW007
 Revision Date =
 Survey Date = 31-Dec-1940
 Levelled Date = 31-Dec-1942

File Format:
 Tagged Image File Format (TIFF)

File Name:
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 ULX,ULY= 669823.6981,679379.3061
 URX,URY= 673457.6981,679379.3061

Projection / Spatial Reference:
 IRENET95_Irish_Transverse_Mercator

Centre Point Coordinates:
 X,Y = 671640.6981,676918.3061

Data Extraction Date:
 11-Dec-2020

Product Version:
 1.3

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ORDNANCE SURVEY MAPS

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REVISION REGISTER

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KHA
 KENNETH HENNESSY ARCHITECTS

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 fax: 052 6180990
 email: info@architects.ie
 Anglessea House, Anglessea Street
 Clonmel, Co. Tipperary

SCALE: 1:10560/1:1000@ A1
 STATUS: PLANNING

CLIENT: CARLOW COUNTY COUNCIL
 PROJECT: RIVER BARROW ACTIVITY CENTRE AT CARLOW TOWN PARK, CARLOW COUNTY CARLOW
 DRAWING TITLE: RECORD & URBAN PLACE MAPS

1964 KHA ZZ00 DR A P 0002 S0 P01

Maryborough St / Sleaty St
Carlow Town Park entrance

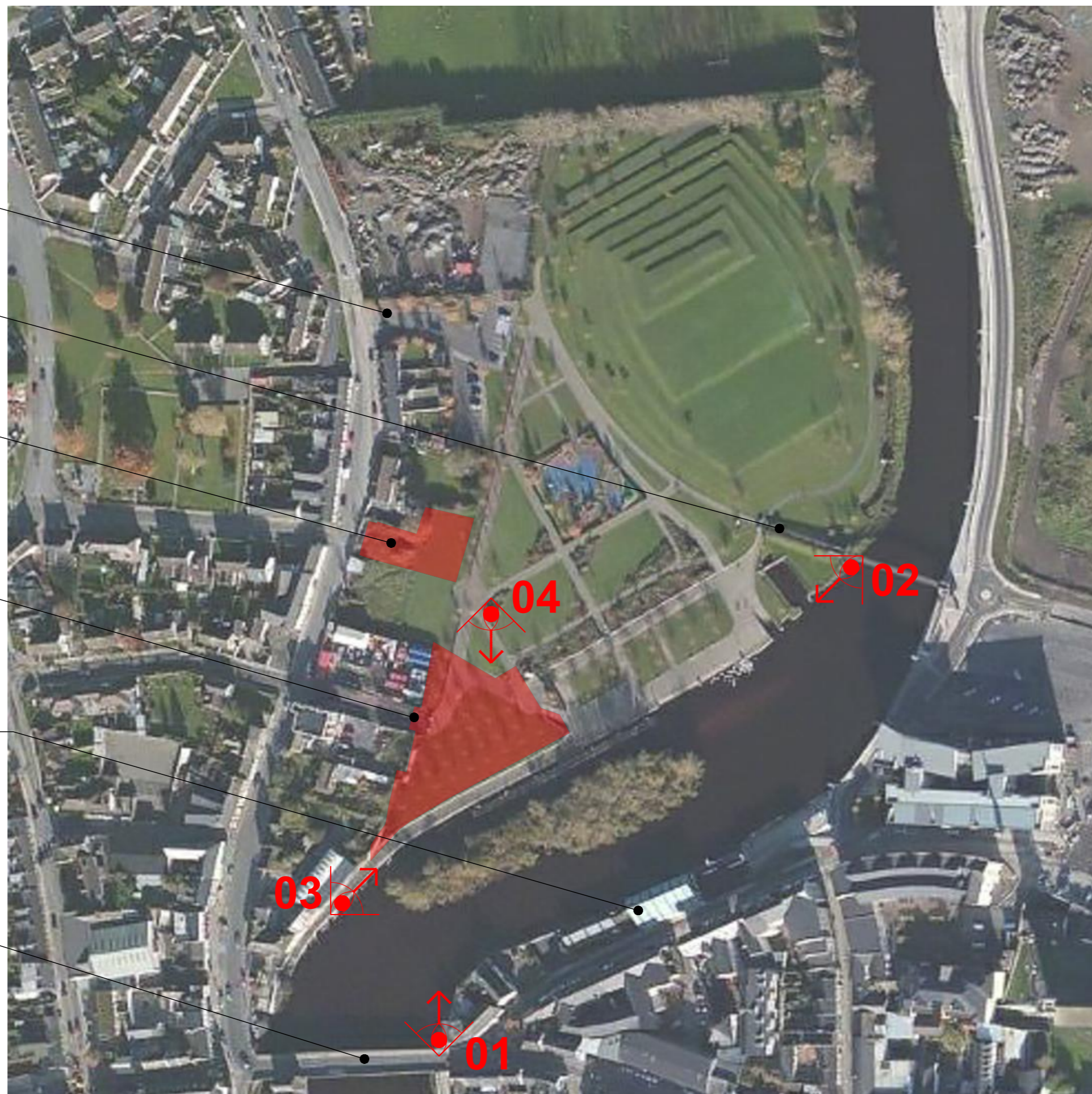
Park Entrance via pedestrian
bridge from Barrow Track
south of the river

Proposed secondary parking site

Barrow Street access to park

Existing Carlow Rowing Club
building south of the river

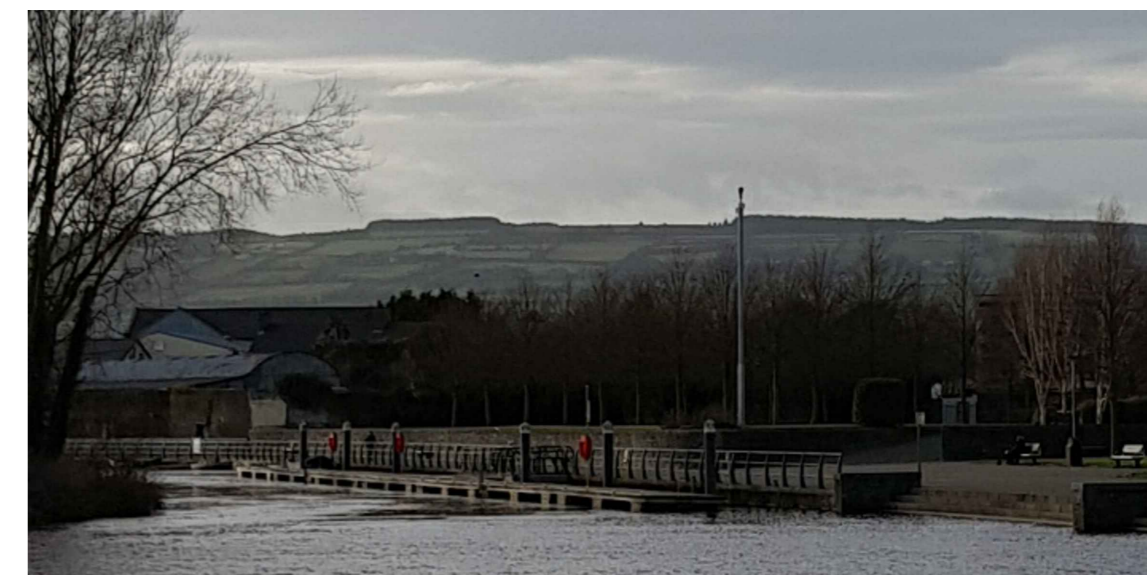
Bridge Street bridge crossing River
Barrow to the south of the site



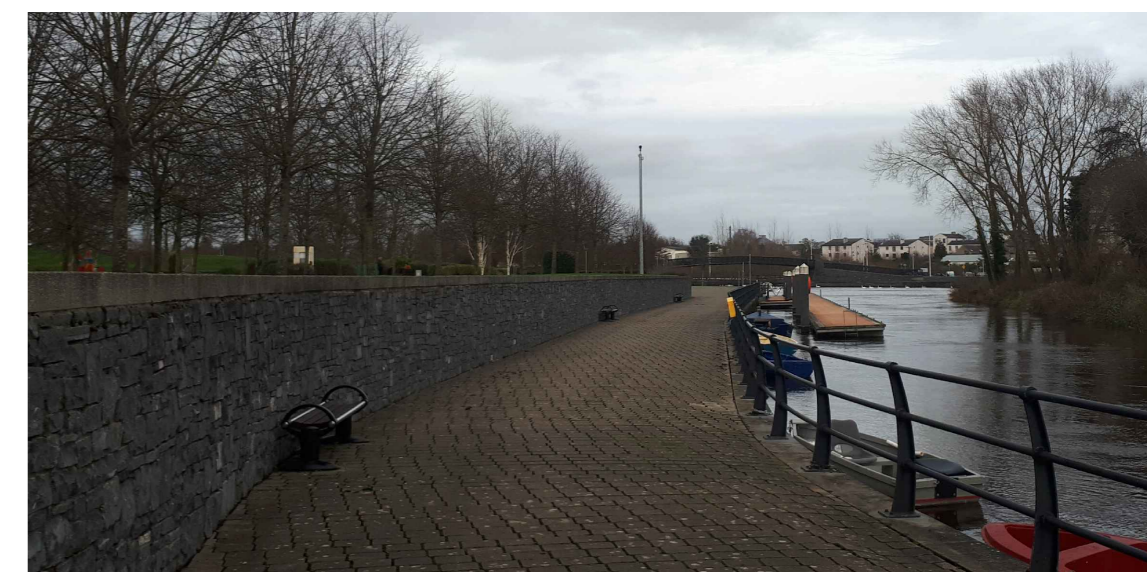
Aerial Photo @ 1:2000 (<https://www.google.com/maps/place/Carlow+Town+Park+Playground>)



01 PROPOSED SITE FROM BRIDGE ST



02 PROPOSED SITE FROM PEDESTRIAN BRIDGE

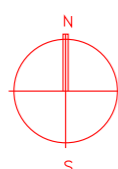


03 PROPOSED SITE FROM BACHELORS WALK



04 PROPOSED SITE FROM TOWN PARK LOOKING TO BRIDGE ST

EXISTING SITE IMAGES



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KHA
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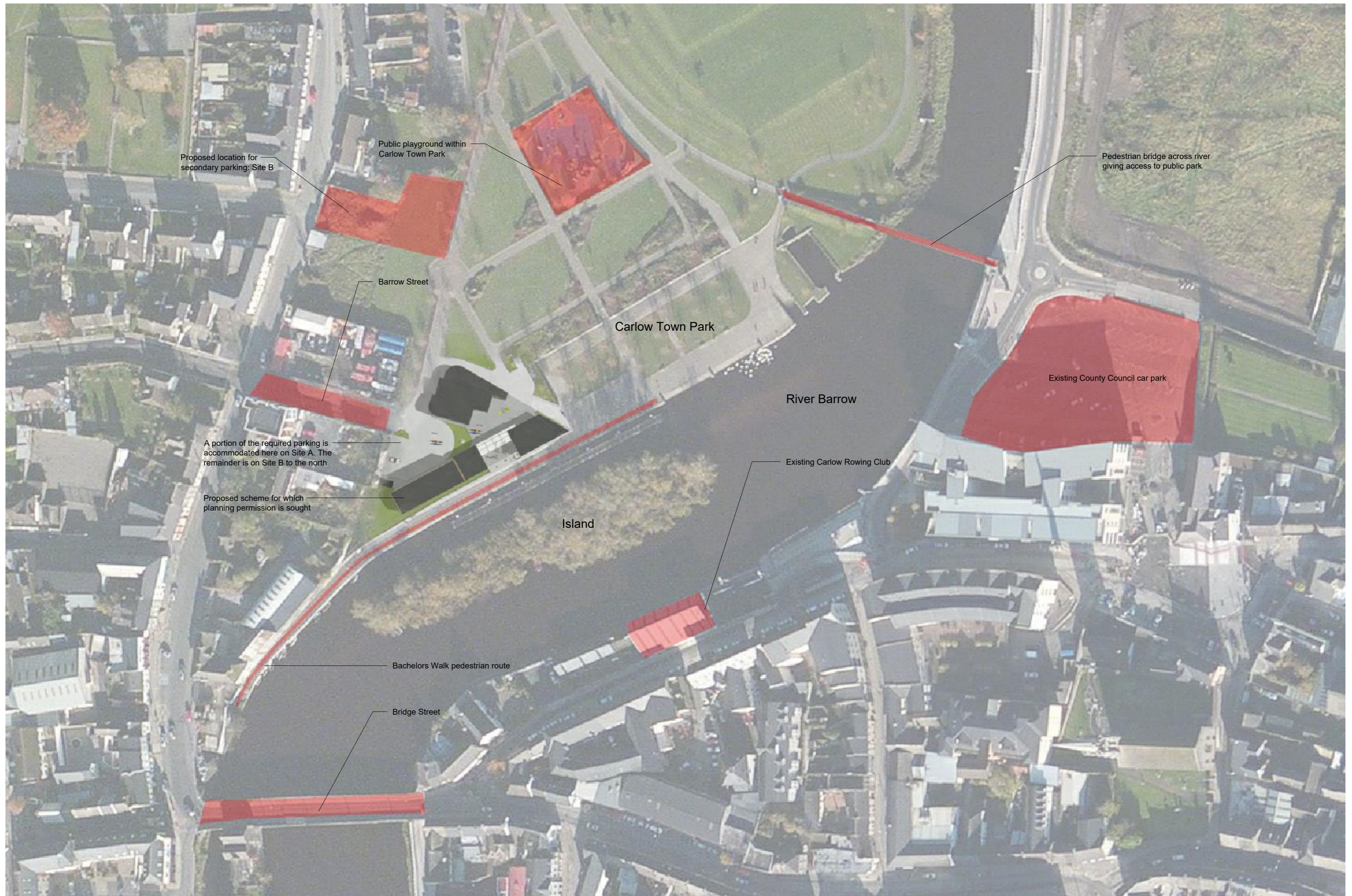
tel: 052 6128966
fax: 052 6180960
email: info@khaarchitects.ie

Anglessea House, Anglessea Street
Clonmel, Co. Tipperary

SCALE: 1/2000

STATUS: PLANNING

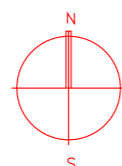
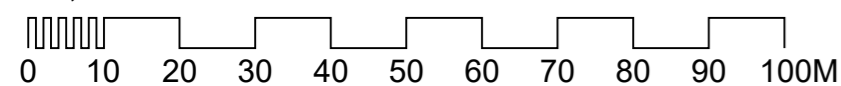
CLIENT:	CARLOW COUNTY COUNCIL
PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW
DRAWING TITLE:	EXISTING SITE IMAGES
PROJECT NUMBER:	1964
DRAWING NUMBER:	KHA ZZ00 DR A P
REVISION NUMBER:	0001
DATE:	S1 P01



Aerial Photo @ 1:1,000 (<https://www.google.com/maps/place/Carlow+Town+Park+Playground>)

PROPOSED SITE LOCATION PLAN

1:1,000



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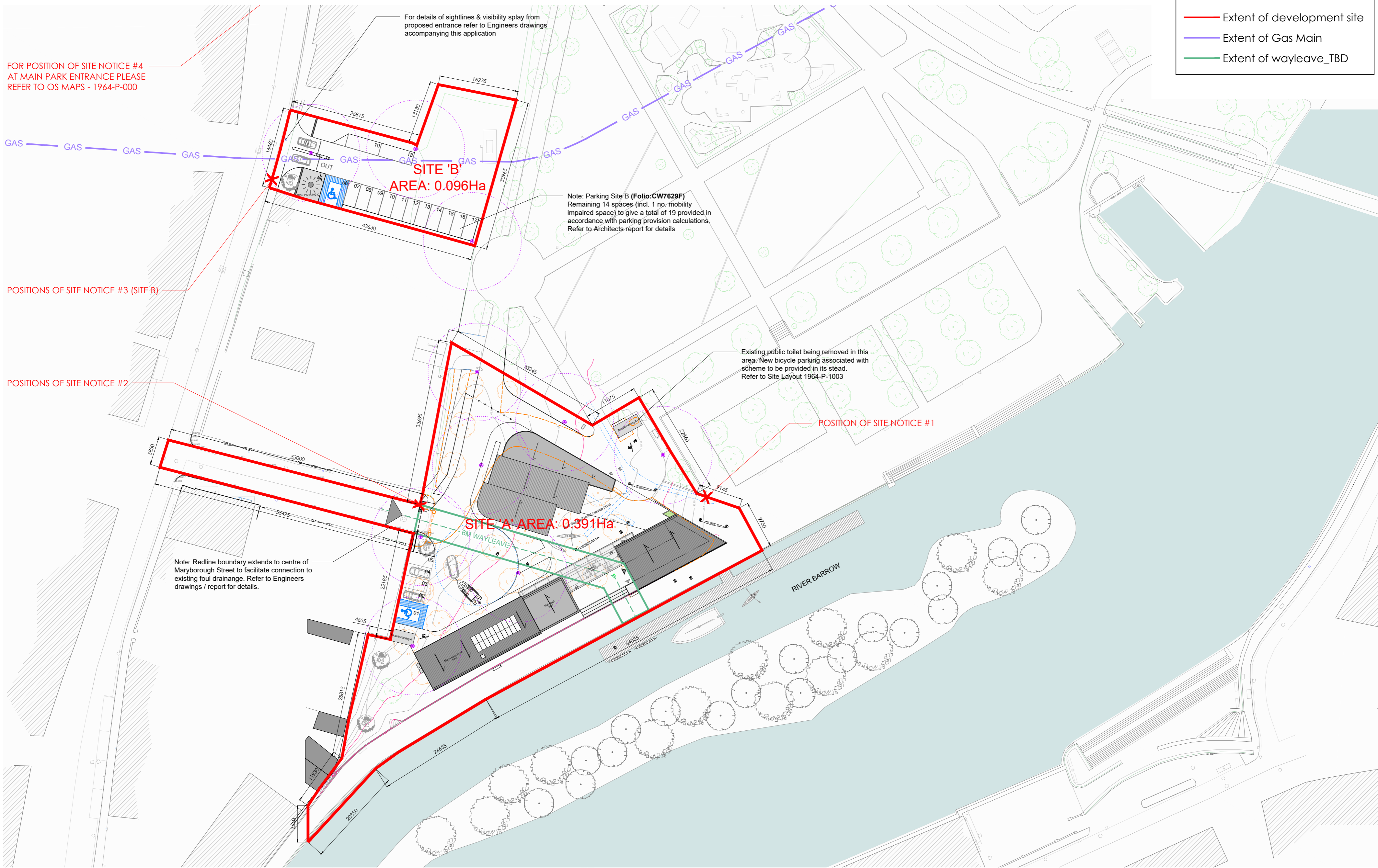


SCALE: 1/1000

STATUS: PLANNING

CLIENT:	CARLOW COUNTY COUNCIL
PROJECT:	WATER ACTIVITY & COMMUNITY CENTRE THE PARK, CARLOW CO. CARLOW
DRAWING TITLE:	PROPOSED SITE LOCATION
PROJECT NUMBER:	1964
CLIENT CODE:	KHA
PROJECT CODE:	ZZ00
DRAWING TYPE:	DR A P
REVISION:	0002
STATUS:	S1
DATE:	P01

— Extent of development site
 — Extent of Gas Main
 — Extent of wayleave_TBD



FOR POSITION OF SITE NOTICE #4 AT MAIN PARK ENTRANCE PLEASE REFER TO OS MAPS - 1964-P-000

POSITIONS OF SITE NOTICE #3 (SITE B)

POSITIONS OF SITE NOTICE #2

POSITION OF SITE NOTICE #1

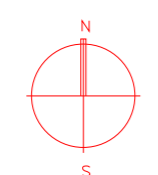
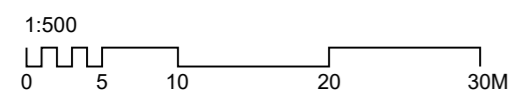
For details of sightlines & visibility splay from proposed entrance refer to Engineers drawings accompanying this application

Note: Parking Site B (Folio: CW7629F) Remaining 14 spaces (incl. 1 no. mobility impaired space) to give a total of 19 provided in accordance with parking provision calculations. Refer to Architects report for details

Existing public toilet being removed in this area: New bicycle parking associated with scheme to be provided in its stead. Refer to Site Layout 1964-P-1003

Note: Redline boundary extends to centre of Maryborough Street to facilitate connection to existing foul drainage. Refer to Engineers drawings / report for details.

PROPOSED SITE PLAN
SCALE 1:500



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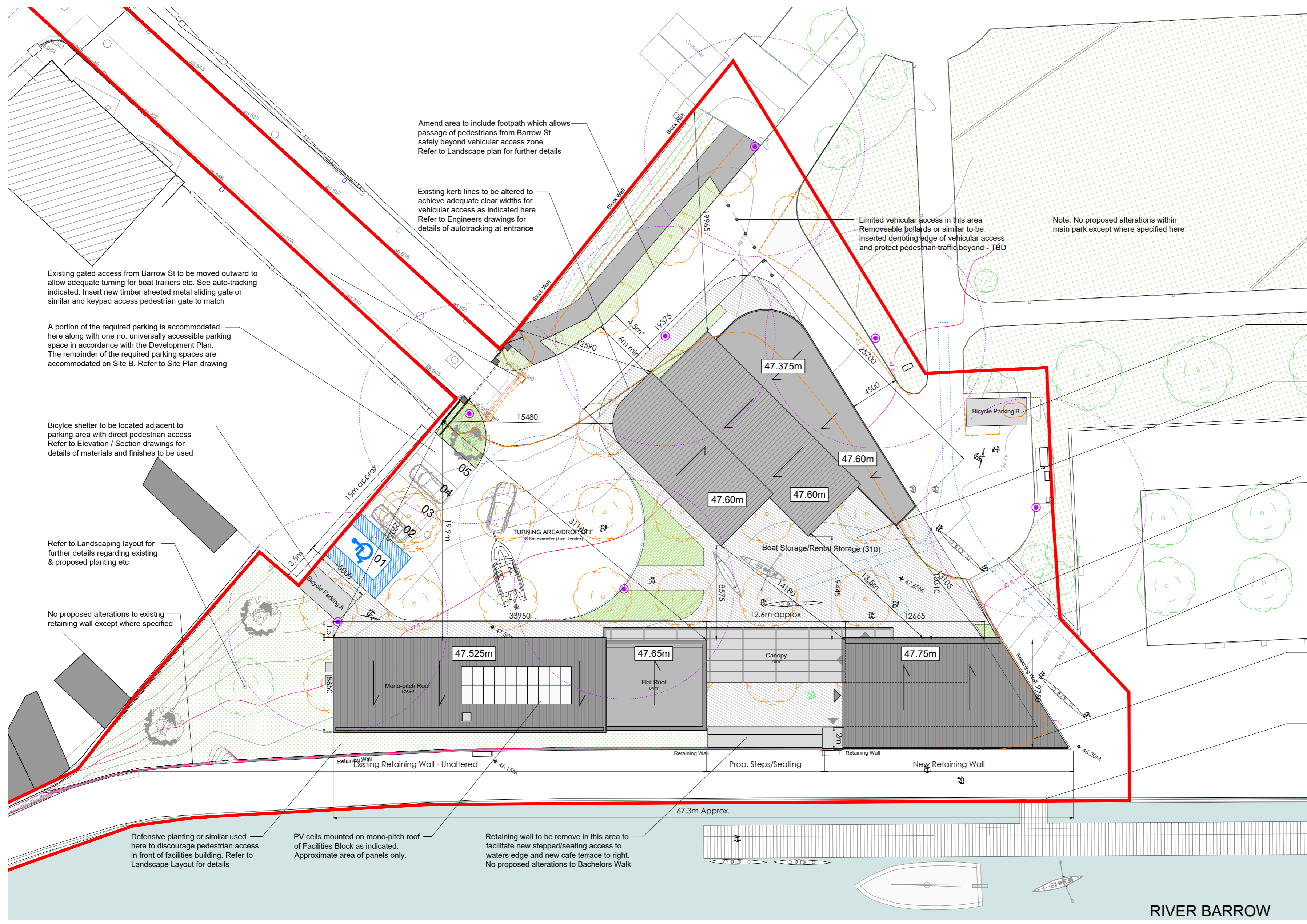


SCALE: 1/500

STATUS: **PLANNING**

CLIENT: **CARLOW COUNTY COUNCIL**
 PROJECT: **RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW**
 DRAWING TITLE: **PROPOSED SITE PLAN**
 1964 KHA ZZ00 DR A P 0003 S1 P01

AREA SCHEDULE	
Cafe & Ancillary:	109m ²
Boat / Rental Storage:	310m ²
Ground Floor (Facilities Bldg):	229m ²
First Floor (Facilities Bldg):	157m ²
Total Floor Area:	805m²



- To be demolished
- FFL#### Finished Floor Level
- Proposed Floor Area
- Proposed Construction
- Proposed Wayleave

Existing gated access from Barrow St to be moved outward to allow adequate turning for boat trailers etc. See auto-tracking indicated. Insert new timber sheeted metal sliding gate or similar and keypad access pedestrian gate to match

A portion of the required parking is accommodated here along with one no. universally accessible parking space in accordance with the Development Plan. The remainder of the required parking spaces are accommodated on Site B. Refer to Site Plan drawing

Bicycle shelter to be located adjacent to parking area with direct pedestrian access Refer to Elevation / Section drawings for details of materials and finishes to be used

Refer to Landscaping layout for further details regarding existing & proposed planting etc

No proposed alterations to existing retaining wall except where specified

Defensive planting or similar used here to discourage pedestrian access in front of facilities building. Refer to Landscape Layout for details

PV cells mounted on mono-pitch roof of Facilities Block as indicated. Approximate area of panels only.

Retaining wall to be remove in this area to facilitate new stepped/seating access to waters edge and new cafe terrace to right. No proposed alterations to Bachelors Walk

Limited vehicular access in this area Removeable bollards or similar to be inserted denoting edge of vehicular access and protect pedestrian traffic beyond - TBD

Note: No proposed alterations within main park except where specified here

Minor re-alignment of kerbing in this area to accommodate adequate width alongside proposed boat storage building

Existing public toilet within park to be removed (by other)

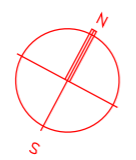
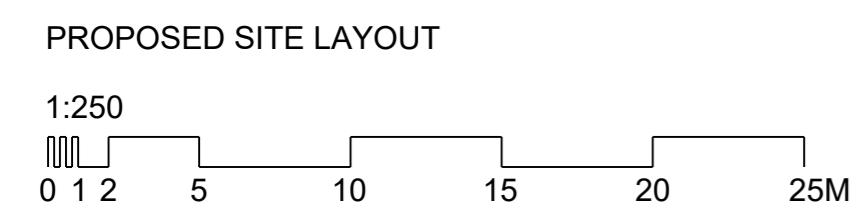
Washdown area for boats etc provided within central space. Water collected locally and treated. Refer to Engineers drawings/report for further details

Indicative loading/unloading paths shown for rowing quad as per dimensions provided

Maintain ramped access to waters edge in this location to facilitate pedestrian traffic / loading & unloading of boats from water

Portion of existing retaining wall removed in this area and reinstated to form raised terrace from cafe. Refer to Floorplan drawing for details

No proposed alterations to pontoon or guarding along Bachelors Walk



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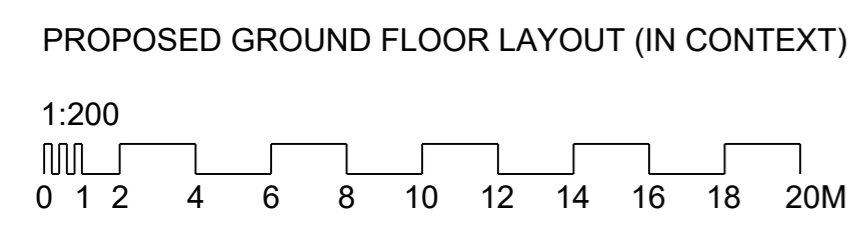
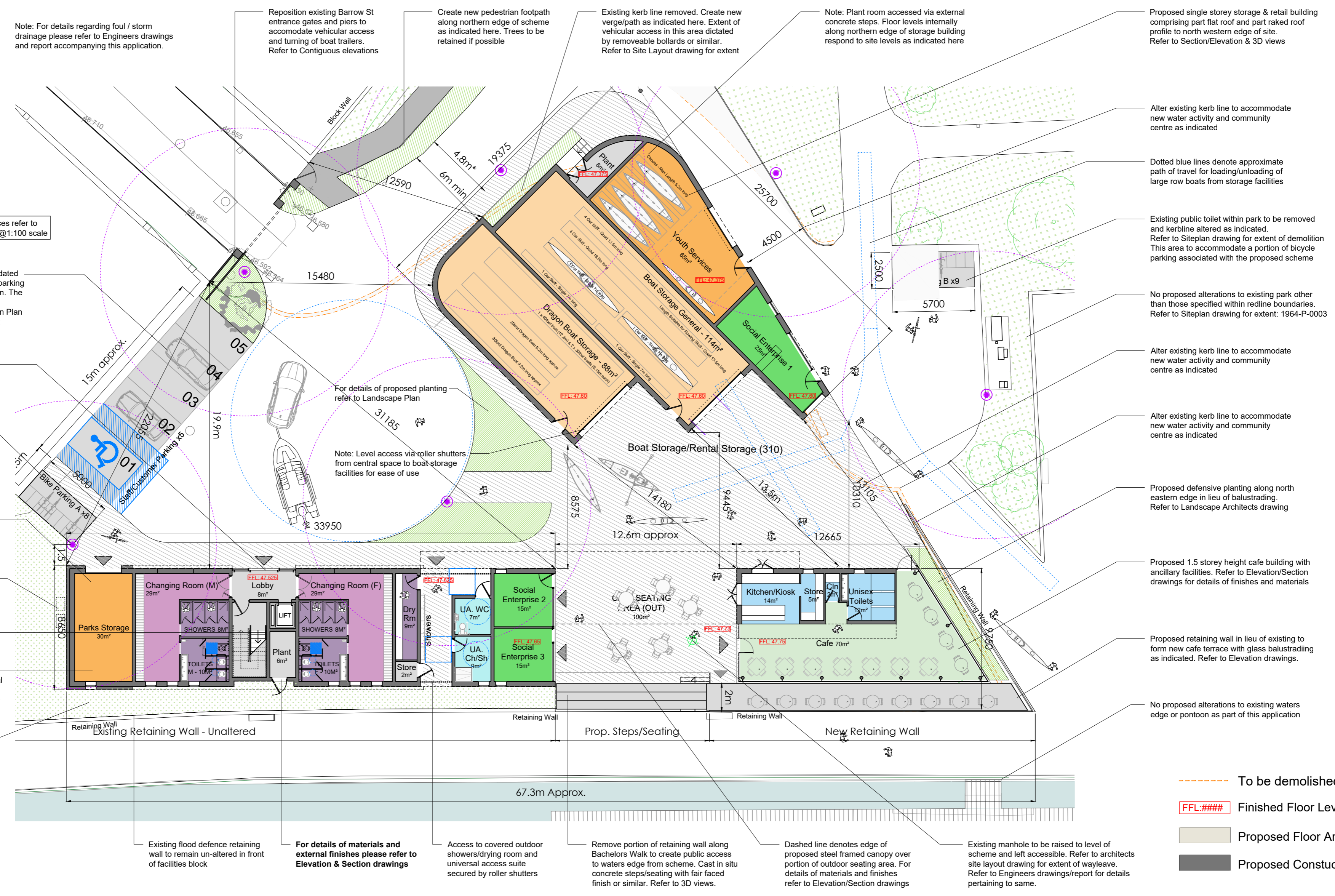
SCALE: 1/250

STATUS: **PLANNING**

CLIENT:	CARLOW COUNTY COUNCIL
PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW
DRAWING TITLE:	PROPOSED SITE LAYOUT
PROJECT NO:	1964
DATE:	KHA
SCALE:	ZZ00
TYPE:	DR
STATUS:	AP
NO:	0004
REV:	S1
DATE:	P01

- Circulation Areas (Internal)
- Services / Plant / Store
- Cafe - Public Seating
- Cafe Ancillary Spaces
- Universally Accessible Facilities
- Indoor Training / Community Spaces
- Training / Community - Ancillary Storage
- Facilities - Changing/Lockers
- Facilities - Ancillary (WC/Showers/Drying)
- Storage (Long Term)
- Storage (Short Term)
- Multi-Use Spaces (To Let)

AREA SCHEDULE	
Cafe & Ancillary:	109m ²
Boat / Rental Storage:	310m ²
Ground Floor (Facilities Bldg):	229m ²
First Floor (Facilities Bldg):	157m ²
Total Floor Area:	805m²



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KENNETH HENNESSY ARCHITECTS

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052 6180960
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Anglesea House, Anglesea Street
Clonmel, Co. Tipperary

SCALE: 1/200

STATUS: **PLANNING**

CLIENT: **CARLOW COUNTY COUNCIL**

PROJECT: **WATER ACTIVITY & COMMUNITY CENTRE THE PARK, CARLOW CO. CARLOW**

DRAWING TITLE: **PROPOSED GROUND FLOOR LAYOUT - IN CONTEXT**

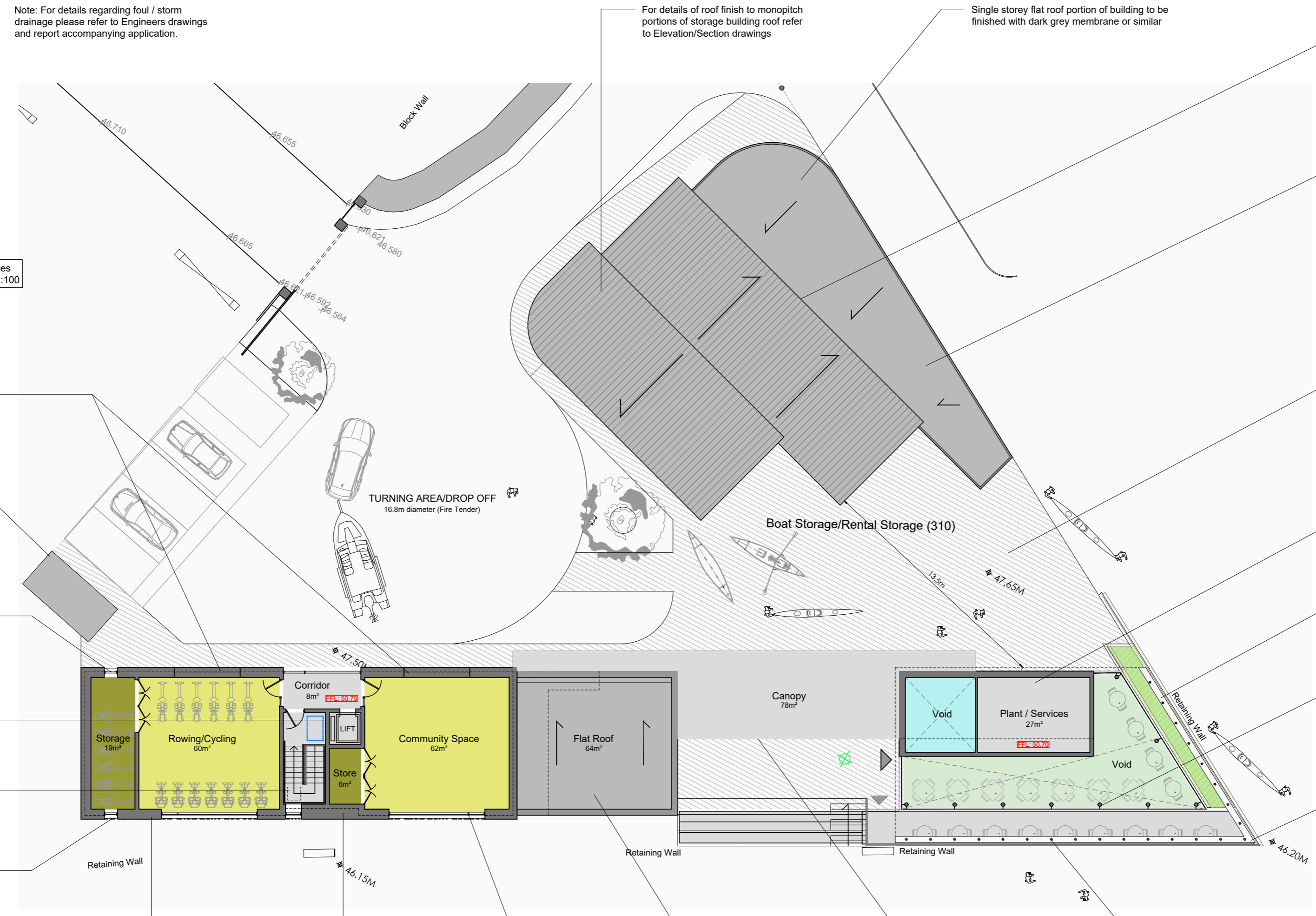
1964 KHA ZZ00 DR A P 0005 S1 P01

- Circulation Areas (Internal)
- Services / Plant / Store
- Cafe - Public Seating
- Cafe Ancillary Spaces
- Universally Accessible Facilities
- Indoor Training / Community Spaces
- Training / Community - Ancillary Storage
- Facilities - Changing/Lockers
- Facilities - Ancillary (WC/Showers/Drying)
- Storage (Long Term)
- Storage (Short Term)
- Multi-Use Spaces (To Let)

AREA SCHEDULE	
Cafe & Ancillary:	109m ²
Boat / Rental Storage:	310m ²
Ground Floor (Facilities Bldg):	229m ²
First Floor (Facilities Bldg):	157m ²
Total Floor Area:	805m²

Note: For details regarding foul / storm drainage please refer to Engineers drawings and report accompanying application.

Note: For internal dimensions of individual spaces refer to Floorplan drawings 1 & 2 at a scale of 1:100



For details of materials and external finishes please refer to Elevation & Section drawings

Flat roof to fall towards centre of building where drainage is collected and discharges internally

For details of finish to outdoor pedestrian zone please refer to Landscape Plan

Half height storey over cafe ancillary spaces to be used for plant/services

Proposed metal/timber brise soleil louvres suspended from overhanging roof. Refer to Elevation/Section drawings

Proposed 1.5 storey height cafe building with ancillary facilities. Refer to Elevation/Section drawings for details of finishes and materials

For details of materials and external finishes please refer to Elevation & Section drawings

High level windows within north western elevation for additional light/ventilation

Bicycle shelter to be clad in material and finish to match buildings. Refer to Elevation/Section drawings for details

For material and finish of windows/doors please refer to elevation/section drawings

Proposed TGD M compliant stairs and lift providing universal access to first floor facilities

Approx location and size of AOV over main stairwell being used for fire escape purposes

Timber cladding spaced in front of south facing glass to create brise soleil effect

NOTE: FOR INTERNAL DRAINAGE LAYOUTS PLEASE REFER TO 1:100 FLOORPLAN DRAWINGS

For details of materials and external finishes please refer to Elevation & Section drawings

Storm water from monopitch roof over facilities building collected within hidden gutter and discharging behind cladding in this location approximately

Small openable module within larger glazed area for ventilation purposes. Cladding in front of glass to create solar shading for the space

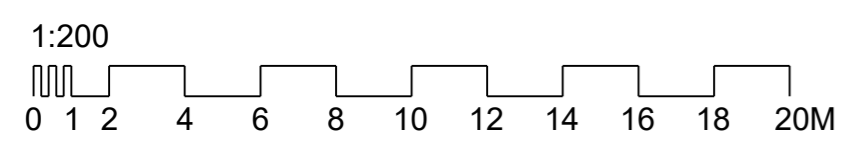
Storm water drainage from flat roof over retail units, universal access suite, drying room and outdoor showers to be collected and brought down internally

Steel framed translucent canopy over portion of outdoor seating area. For details of materials and finishes refer to Elevation/Section drawings

Brise soleil louvre in timber/metal suspended from roof structure over. Refer to Elevation/Section drawings for details of colour etc

- To be demolished
- FFL:#### Finished Floor Level
- Proposed Floor Area
- Proposed Construction

PROPOSED FIRST FLOOR LAYOUT (IN CONTEXT)



STANDARD INSTRUCTIONS

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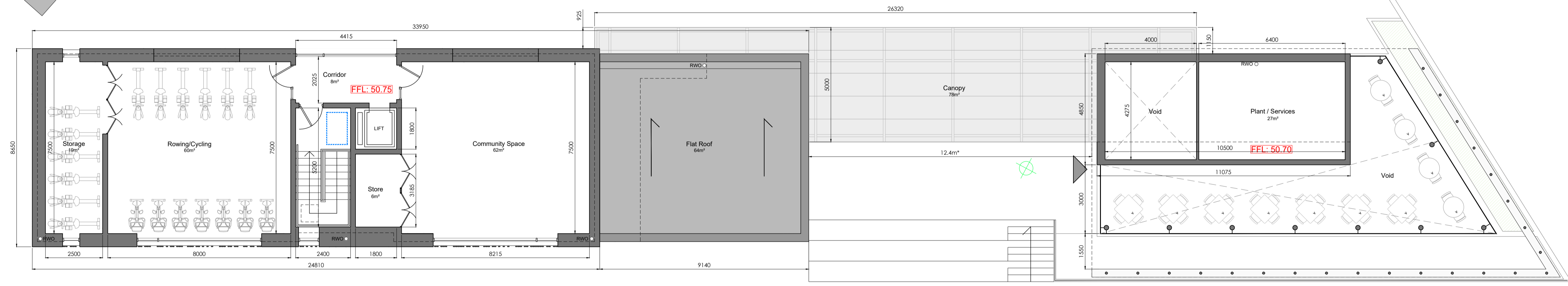
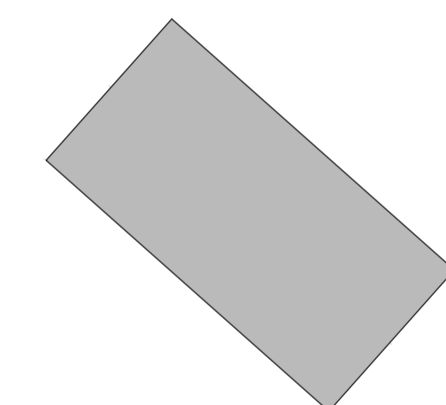
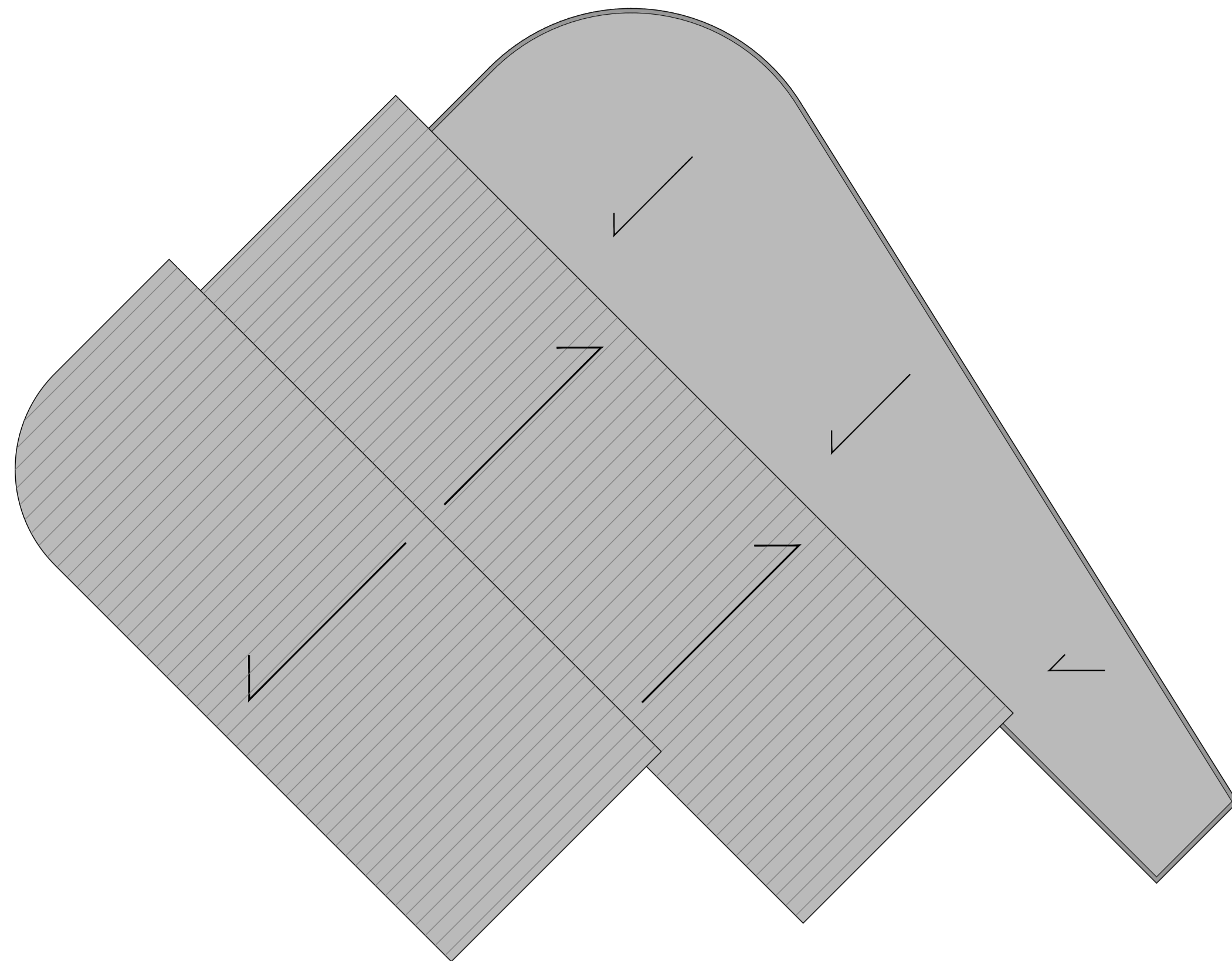
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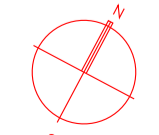
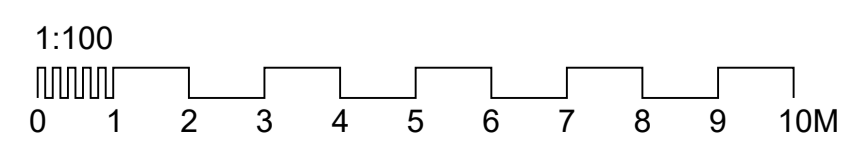
tel: 052 6128966
 fax: 052 6180960
 email: info@khaarchitects.ie
 Anglessea House, Anglessea Street
 Clonmel, Co. Tipperary

CLIENT:	CARLOW COUNTY COUNCIL
PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW
DRAWING TITLE:	PROPOSED FIRST FLOOR LAYOUT - IN CONTEXT
SCALE:	1/200
STATUS:	PLANNING
PROJECT NO:	1964
DATE:	KHA ZZ00
TYPE:	DR A P
NO:	0006
SCALE:	S1
VERSION:	P01

-  Foul Drainage
-  Storm Drainage
-  To be demolished
-  FFL#### Finished Floor Level
-  Proposed Floor Area
-  Proposed Construction



PROPOSED FIRST FLOOR PLAN



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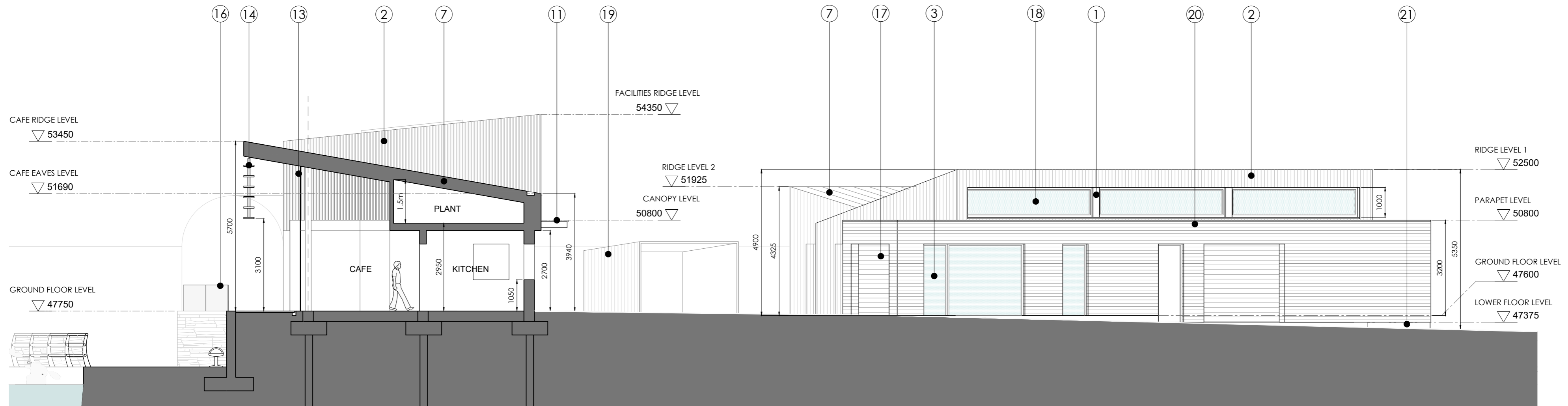
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 email: info@khaarchitects.ie

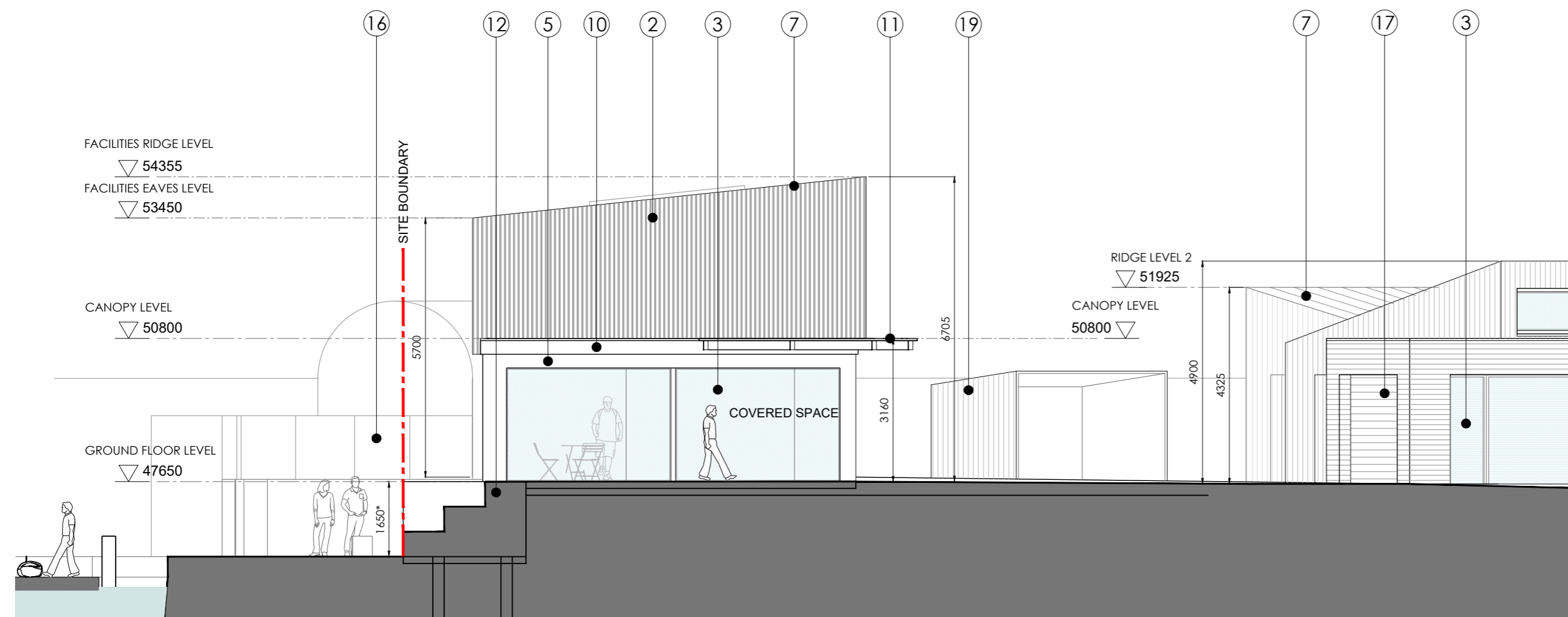
Anglessa House, Anglessa Street
 Clonmel, Co. Tipperary

STATUS: **PLANNING**

CLIENT: CARLOW COUNTY COUNCIL	
PROJECT: RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW	
DRAWING TITLE: PROPOSED FIRST FLOOR PLAN	
PROJECT: 1964	DATE: KHA ZZ00
DESIGN: DR A P	REVISION: 0008 S1 P01



PROPOSED CROSS SECTION AA - CAFE & PUBLIC REALM

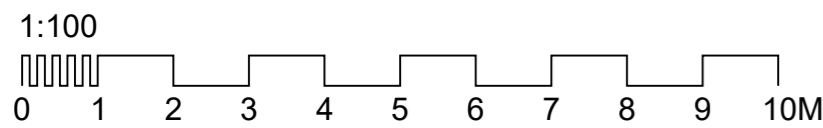


PROPOSED CROSS SECTION BB - FACILITIES BLOCK

OUTLINE SPECIFICATION

- ① Metal spandrel panel to match windows & sit flush with frame in select grey colour
- ② Thermally modified rainscreen timber cladding laid vertically/horizontally - 'Frake' or similar
- ③ Thermally broken aluminium windows double/triple glazed in select grey colour
- ④ Photovoltaic cells or similar installed on south facing roof as indicated
- ⑤ Smooth light/dark rendered wall finish in select colour to match elevation
- ⑥ Discreet aluminium door/s with finish to match surrounding material
- ⑦ Insulated profiled metal roofing finish in select grey colour with hidden gutter/pipes
- ⑧ Timber cladding spaced to create solar shading / diffuse light on south elevation
- ⑨ Metal shutters in colour to match roof finish open during hours of operation
- ⑩ Standing seam metal / membrane finish to insulated flat roof in select grey colour
- ⑪ Steel framed canopy with translucent 'opal' polycarbonate sheeting or similar
- ⑫ Cast in-situ concrete steps & seating area in lieu of retaining wall in this area
- ⑬ Structural framework for cafe in steel/ timber behind full height planar glazing
- ⑭ Brise soleil to comprise fixed metal louvred fins in select grey colour supported from roof
- ⑮ Proposed section of retaining wall in lieu of existing in fair faced concrete
- ⑯ Balustrading to comprise laminated safety glass panels or similar with stainless fixings
- ⑰ Aluminium roller shutter door in select colour and finish to match elevations
- ⑱ Aluminium clerestory windows double/triple glazed in select grey colour with low-e glass
- ⑲ Bike store comprising steel frame painted select colour, clad in timber/metal to match buildings
- ⑳ Insulated flat roof with select grey membrane & parapet to single storey storage/retail volume
- ㉑ Cast in-situ concrete retaining wall or building plinth with fair faced finish

PROPOSED SECTIONS - SHEET 1 of 2
SCALE: 1:100



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Anglessea House, Anglessea Street
Clonmel, Co. Tipperary

SCALE: 1/100

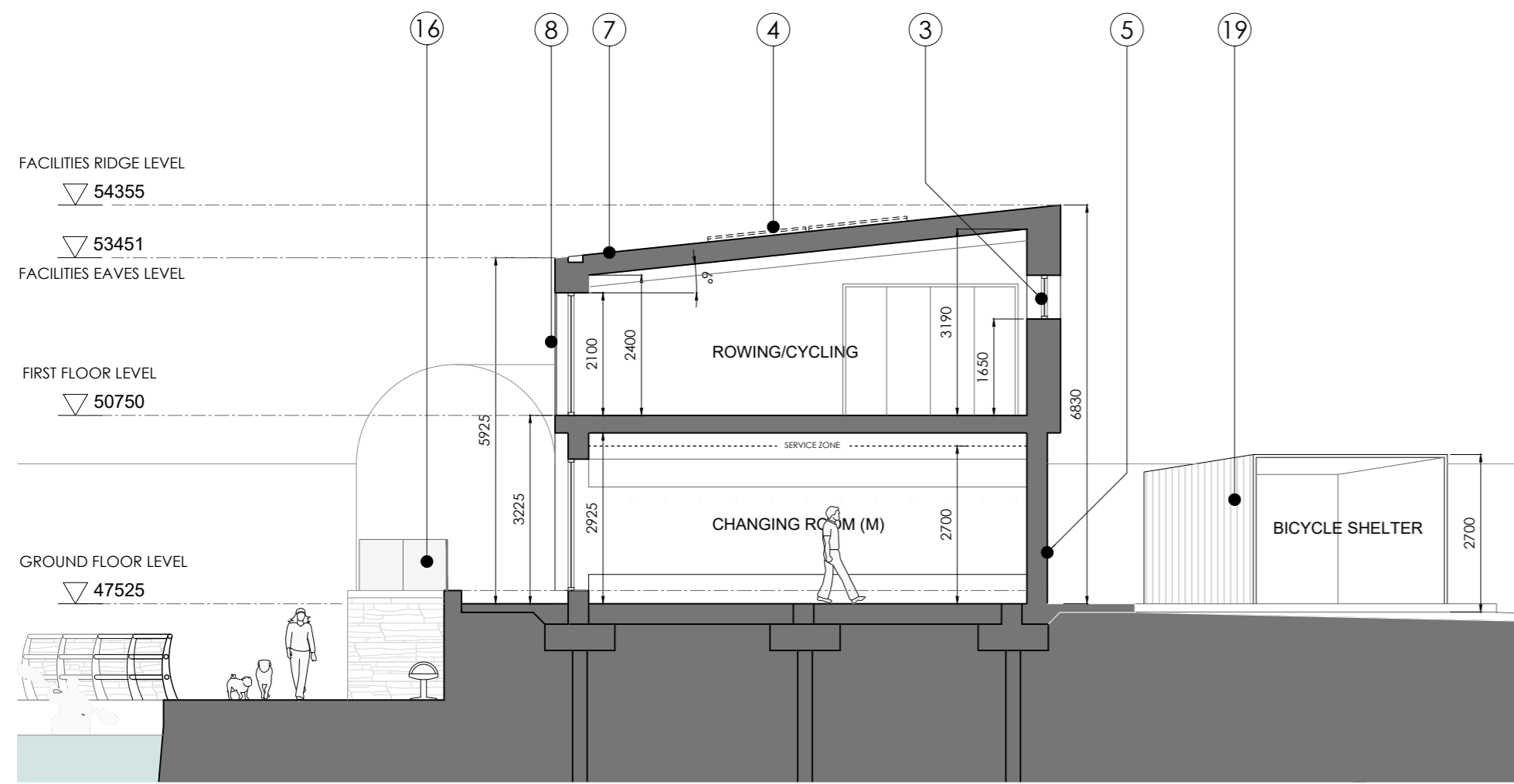
STATUS: **PLANNING**

CLIENT: **CARLOW COUNTY COUNCIL**

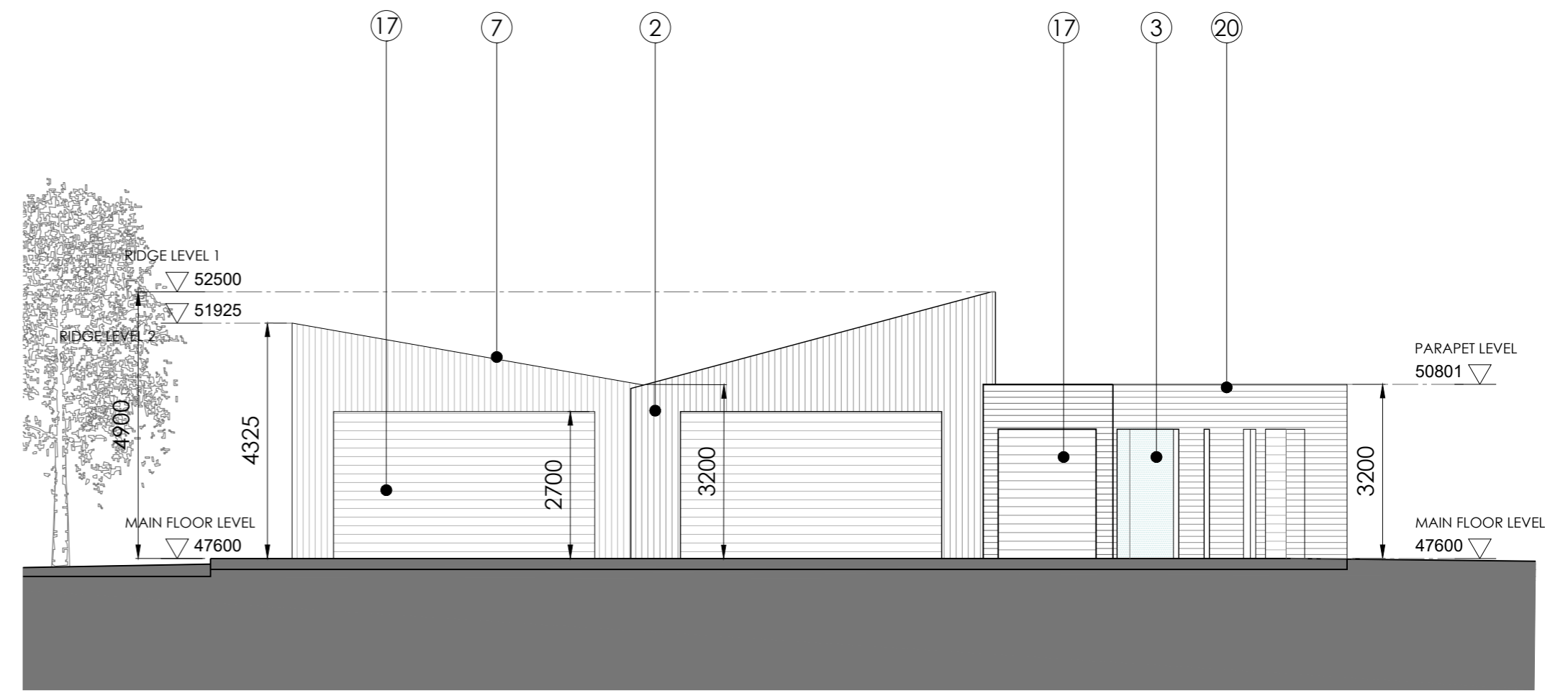
PROJECT: **RIVER BARROW ACTIVITY CENTRE
CARLOW TOWN PARK, CARLOW
COUNTY CARLOW**

DRAWING TITLE: **PROPOSED CROSS SECTIONS
SHEET 1 OF 2**

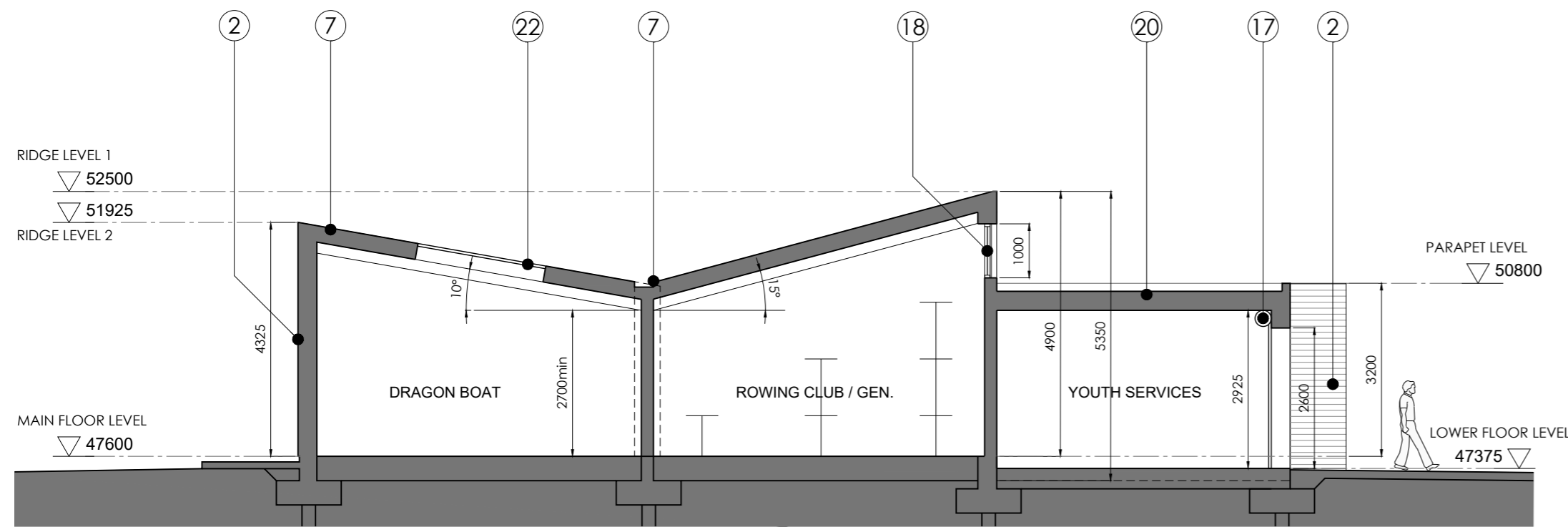
1964 KHA ZZ00 DR A P 0009 S1 P01



PROPOSED CROSS SECTION CC - FACILITIES BUILDING



PROPOSED CROSS SECTION EE - PUBLIC REALM

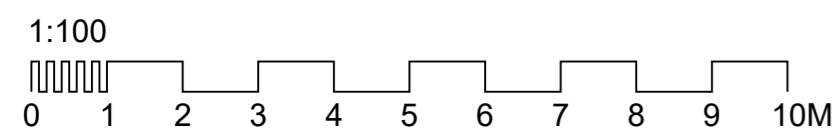


PROPOSED CROSS SECTION DD - BOAT STORAGE BUILDING

OUTLINE SPECIFICATION

- ① Metal spandrel panel to match windows & sit flush with frame in select grey colour
- ② Thermally modified rainscreen timber cladding laid vertically/horizontally - 'Frake' or similar
- ③ Thermally broken aluminium windows double/triple glazed in select grey colour
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- ⑲ Bike store comprising steel frame painted select colour, clad in timber/metal to match buildings
- ⑳ Insulated flat roof with select grey membrane & parapet to single storey storage/retail volume
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PROPOSED SECTIONS - SHEET 2 OF 2
SCALE: 1:100



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SCALE: 1/100
STATUS: **PLANNING**

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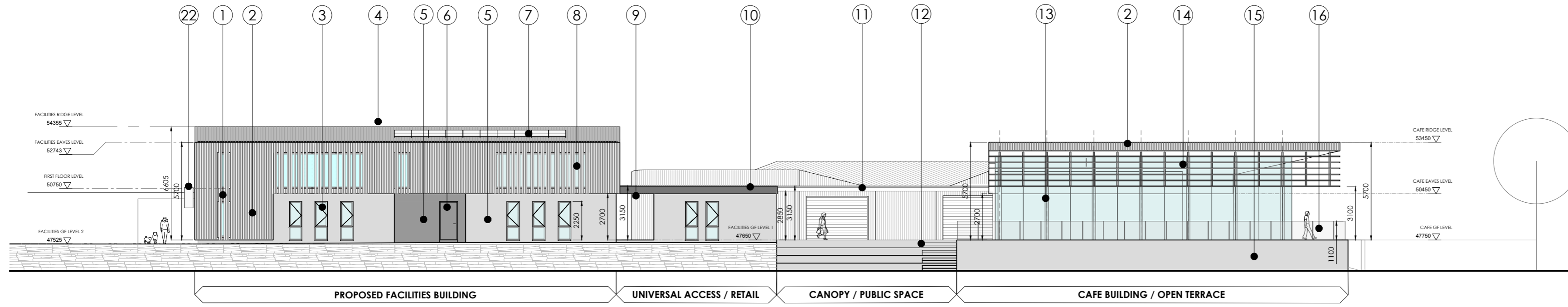
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COUNTY CARLOW**

DRAWING TITLE: **PROPOSED CROSS SECTIONS
SHEET 2 OF 2**

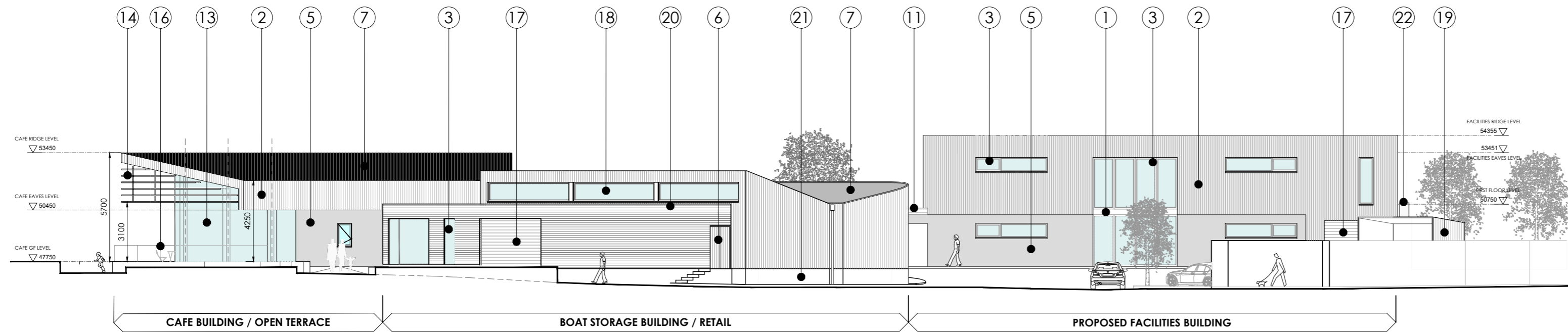
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OUTLINE SPECIFICATION

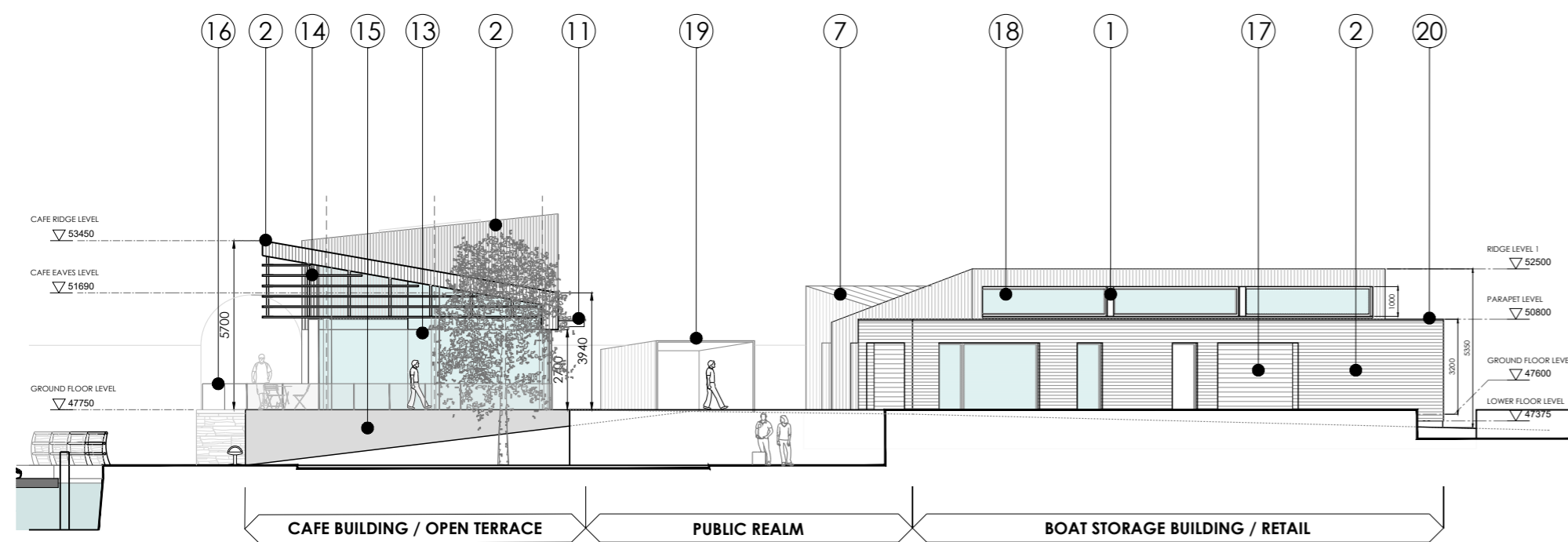
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- ㉒ Air to water heat pump units or similar wall mounted at high level as indicated



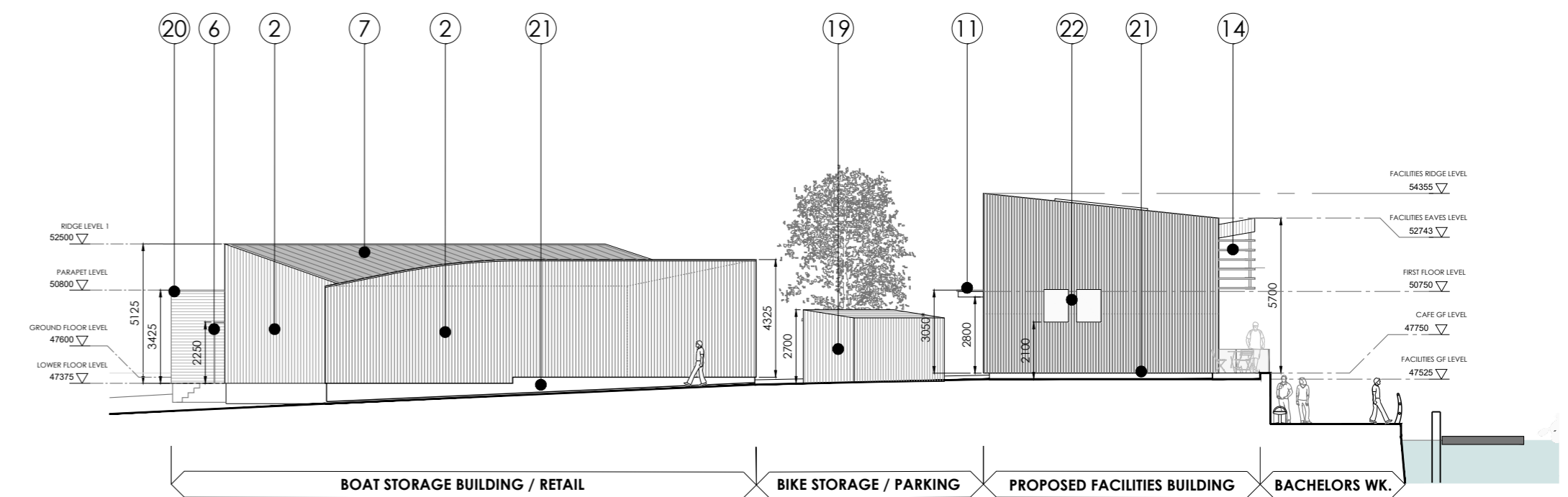
PROPOSED RIVERSIDE ELEVATION SOUTH EAST



PROPOSED REAR ELEVATION NORTH WEST

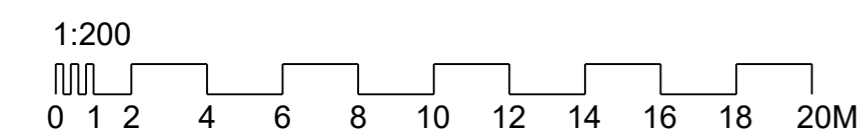


PROPOSED PARK ELEVATION NORTH EAST



PROPOSED ELEVATION CAR PARK - SOUTH WEST

PROPOSED ELEVATIONS
SCALE: 1:200



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SCALE: 1/200
STATUS: PLANNING

CLIENT:	CARLOW COUNTY COUNCIL
PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW
DRAWING TITLE:	PROPOSED ELEVATIONS
DATE:	1964
SCALE:	KHA ZZ00
STATUS:	DR A P
PROJECT:	0011 S1 P01



AERIAL VIEW OF SCHEME FROM ACROSS RIVER (SOUTH EAST)



AERIAL VIEW OF SCHEME FROM ACROSS RIVER (SOUTH EAST)



AERIAL VIEW OF SCHEME FROM PARK (NORTH EAST)



AERIAL VIEW OF SCHEME FROM BARROW ST (NORTH WEST)



ELEVATION VIEW - SOUTH WEST (FROM ACROSS THE RIVER)

PROPOSED 3D'S - 1 OF 2 AERIAL VIEWS

STANDARD INSTRUCTIONS

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CLIENT:	CARLOW COUNTY COUNCIL
PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW
DRAWING TITLE:	PROPOSED 3D'S - 1 OF 2 AERIAL VIEWS
DATE:	1964
DRAWN:	KHA
CHECKED:	ZZ
DATE:	00
PROJECT:	DR
SCALE:	AP
STATUS:	0012
DATE:	S1
PROJECT:	P01

SCALE: NOT TO SCALE

STATUS: PLANNING



PERSPECTIVE VIEW PEDESTRIAN BRIDGE APPROACH (EAST)



PERSPECTIVE VIEW - WATER APPROACH (SOUTH EAST)



PERSPECTIVE VIEW FROM BACHELORS WALK (SOUTH WEST)



PERSPECTIVE VIEW - BARROW ST ENTRANCE (PARKING / UNLOADING ZONE)



AERIAL VIEW OF SCHEME FROM PARK (NORTH EAST)

PROPOSED 3D'S - 2 OF 2 PERSPECTIVE VIEWS

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CLIENT:	CARLOW COUNTY COUNCIL
PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW
DRAWING TITLE:	PROPOSED 3D - 2 OF 2 PERSPECTIVE VIEWS
PROJECT NO:	1964
CLIENT REF:	KHA
DATE:	22.00
DRAWN BY:	DR
CHECKED BY:	AP
APPROVED BY:	0013
SCALE:	S1
STATUS:	P01



EXISTING VIEW FROM BRIDGE ST



PROPOSED CONTEXTUAL VIEW FROM BRIDGE ST (ARCHITECTS IMPRESSION - NOT TO SCALE)

**3D VIEW - PHOTOMONTAGE
EXISTING & PROPOSED**

STANDARD INSTRUCTIONS

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SCALE: NOT TO SCALE
STATUS: PLANNING

CLIENT:	CARLOW COUNTY COUNCIL
PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW
DRAWING TITLE:	3D VIEW - PHOTOMONTAGE EXISTING & PROPOSED
PROJECT NO.	1964
CLIENT REF.	KHA
DATE	22/09
TYPE	DR
DISCIPLINE	AP
PROJECT NO.	0014
DATE	S1
DISCIPLINE	P01

Thermo Modified wood (also known as thermo wood) has been enjoying a boom in specification and use in cladding and decking projects in the UK.

Thanks to its chemical-free process, thermally modified timbers offer an alternative to the standard impregnated timbers.

Thermo modified wood species include:

- Ash
- Spruce
- Pine
- Frax
- Ayous

Oak is not usually thermo treated as it's already naturally durable. However, the thermo modification process can be used to darken it for architectural purposes.

By using a careful combination of heat and vapour, the heat modification process achieves great stability and durability for projects above ground contact.

Ecochoice has pioneered the market of thermo modified timbers, being the first to offer FSC certified hardwoods apart from the standard Spruce and Pine.



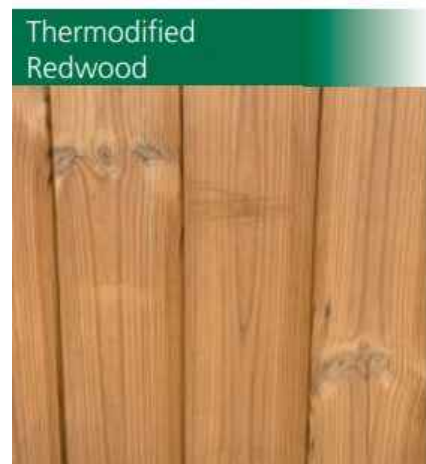
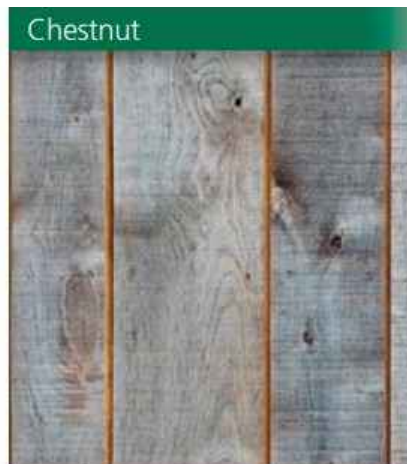
Thermally modified cladding on 'Old Bearhurst'



Colour profiles for the cladding



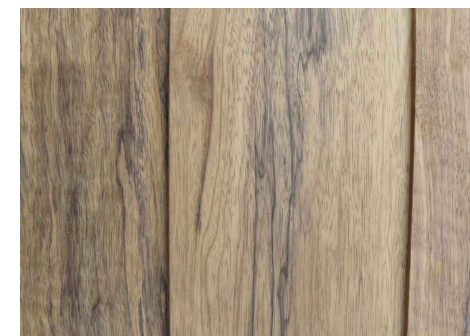
Thermally modified cladding on swimming pool in Beaconsfield London 2



Material properties of Kebony in relation to other timber species



Weathered Frax Thermo-modified on 'Old Bearhurst' - Duggan Morris Architects



Grain of the timber (Frax)



Thermally modified Cladding in situ Beaconsfield - Unweathered

MATERIAL STUDIES - CLADDING OPTION 1 - 'THERMOWOOD'

STANDARD INSTRUCTIONS

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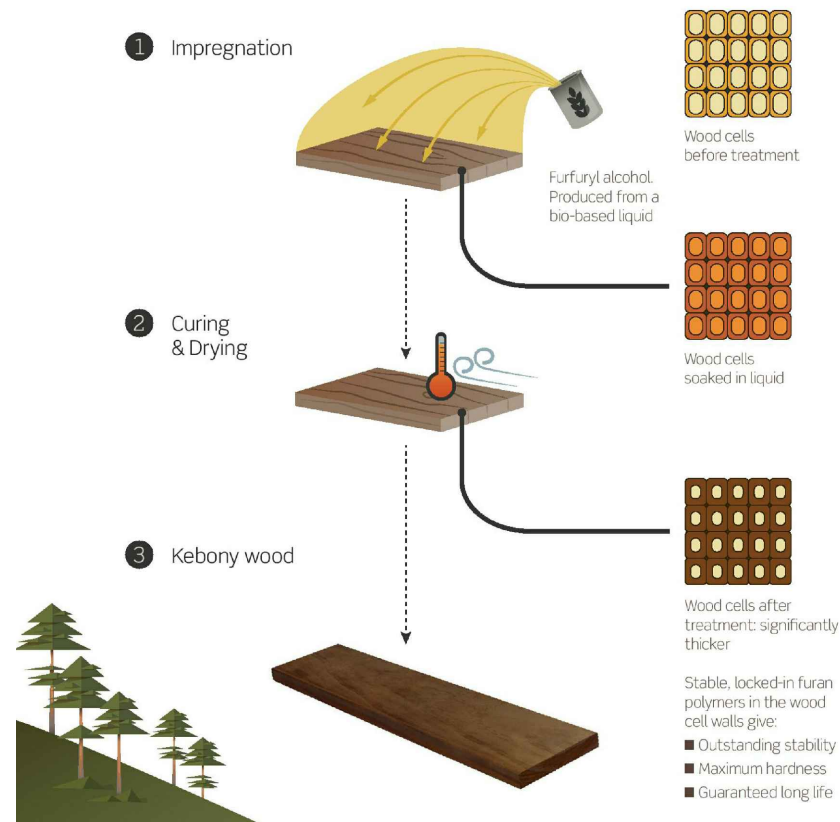
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SCALE: NTS
STATUS: PLANNING

CLIENT:	CARLOW COUNTY COUNCIL
PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW
DRAWING TITLE:	PROPOSED MATERIALS - CLADDING OPTION 1
DATE:	1964
SCALE:	KHA ZZ 00 DR A P 0015 S1 P01



Kebony process of treating softwood timber to give the durability of a hardwood

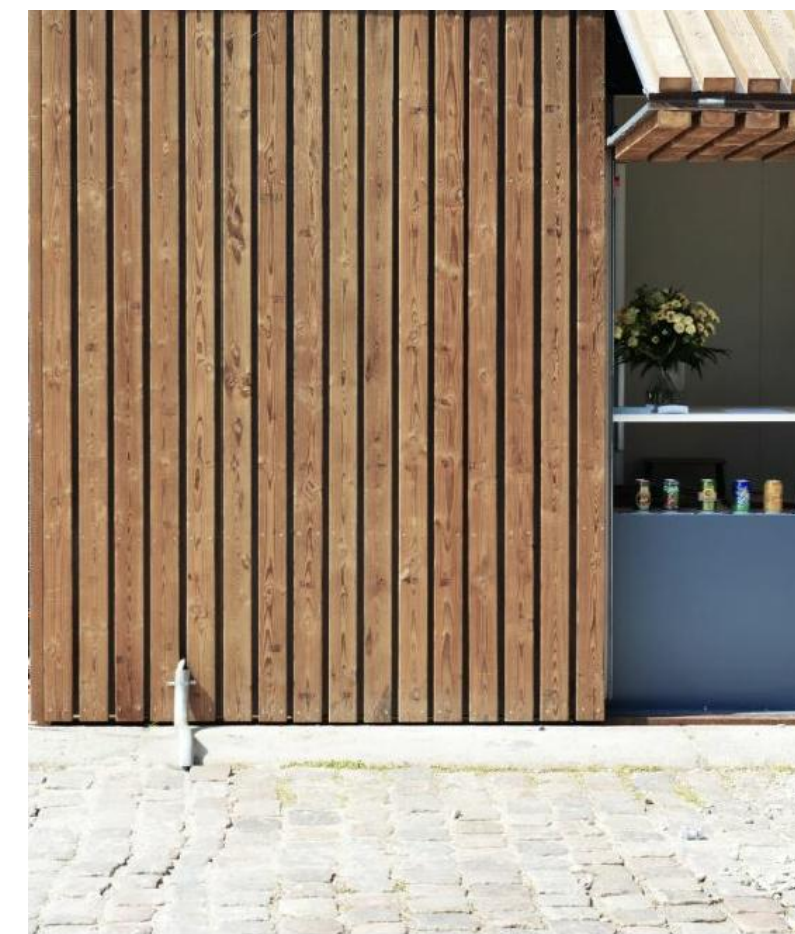
Example of weathering

Even weathering of cladding as indicated

REAL WOOD	REFINED & BEAUTIFUL	MAXIMUM HARDNESS	OUTSTANDING STABILITY	GUARANTEED LONG LIFE	LOW MAINTENANCE	SUSTAINABLE SOURCES	HIGH RESISTANCE	SAFE & TOXIN-FREE	ECO-TECHNOLOGY
with enhanced and strengthened cell structure	develops a natural patina after exposure to sun and rain	hardness level increased to levels of the best hardwoods	swelling and shrinkage reduced by 40-60%	outdoor life time warranty for 30 years	no additional treatment needed beyond normal cleaning	raw material only from sustainably managed forests, all suppliers hold certificates	against fungi, rot and other wood destroying micro-organisms	no toxins or harmful impregnation substances	bio-based liquid used for Kebony technology

Wood species	Durability 1=best EN 350	Hardness Brinell N/mm ² EN 1534	Swelling Dry to wet in tangential direction (%)
Ipe	1	53	6
Kebony Clear	1	41	4
Thermo Ash	1 - 2	30	5
Kebony Character	1 - 2*	20 - 30	6
Bangkirai	2	63	11
Oak	2	33	4 - 6
Thermo Pine	2	16	4
Thermo Spruce	2	16	4
Western Red Cedar	2 - 3	12	5
Siberian Larch	2 - 3	17	7
Douglas Fir	4	20	8
Maple	5	37	9

*) Treated sapwood



Material properties of Kebony in relation to other timber species

Untreated softwood

New kebony

Weathered kebony

'Scots pine' Kebony used in a marine setting

MATERIAL STUDIES - CLADDING OPTION 2 - 'KEBONY'

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SCALE: NTS

STATUS: PLANNING

CLIENT:	CARLOW COUNTY COUNCIL			
PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW			
DRAWING TITLE:	PROPOSED MATERIALS - CLADDING OPTION 2			
NO.	DATE	BY	CHKD	APPD
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Zinc standing seam cladding - Natural / Quartz



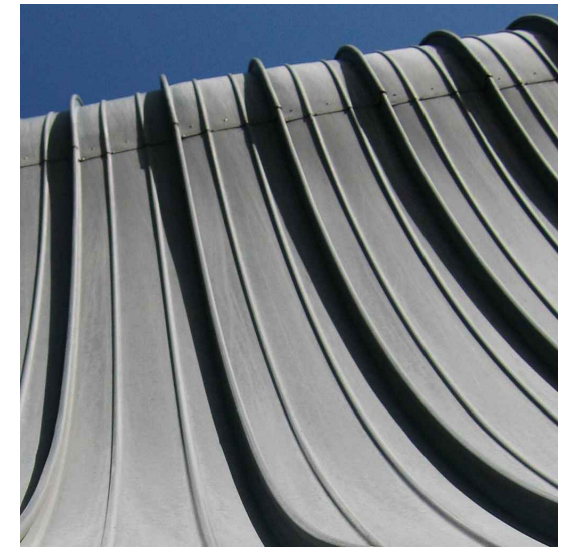
Zinc standing seam cladding - Anthracite / Graphite



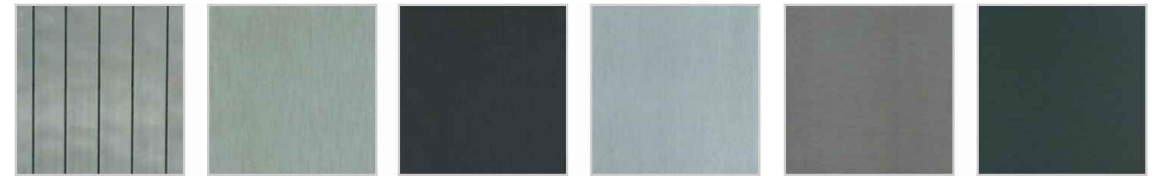
Dark cladding in conjunction with timber rainscreen



Natural / Quartz



Zinc finish to 'Kalzip' roofing



elZinc Natural elZinc Slate® elZinc Graphite® elZinc Crystal® elZinc Lava® elZinc Oliva®

Zinc finishes or coatings for aluminium cladding



Titanium finish to elZinc standing seam cladding



Blue finish to elZinc standing seam cladding in conjunction with timber



Standing seam zinc coated aluminium cladding from 'Kalzip' or similar

How the patina is formed

The light grey patina takes between six months and two years to form, depending on the climate, the exposure of the site and the composition of the atmosphere. The patina is made up of two layers. The first layer protects the zinc completely and slows down its interaction with the oxygen in the air. A second, less uniform layer, made up of zinc oxide or hydroxide, which is less adhesive and more porous, is also formed.

Long lasting

Zinc is naturally resistant to corrosion, it protects itself by developing a patina that gives it an exceptional long lifespan. With an average corrosion rate of 1µm/year, even very thin (0.7 mm) rolled zinc can achieve 70 to 100 years life depending on the environment.

Low maintenance

In addition to its long lifespan, zinc is a low maintenance material. It does not have a coating or varnish that wears out over time needing to be reapplied. In fact, zinc continues to develop a protective layer (patina) throughout its life and will self-repair imperfections or scratches.

Malleability

Zinc provides the freedom to craft architectural masterpieces which are difficult to create with other construction materials. It is very malleable and can therefore meet virtually every architectural demand and provide solutions that less flexible materials cannot. Architects appreciate this versatility which allows them great freedom of expression when designing a building. Zinc resolves a large number of design issues helping to create an almost infinite variety of shapes: straight, curved, convex or concave.

Elegant material

Whether it is used in renovation or new construction, traditional or contemporary designs, zinc is an elegant partner for many building envelopes, blending with wood, glass, stone and other materials in complete harmony.

Green material

Zinc is a non-toxic, durable, recyclable and plentiful material. As an essential trace element, zinc is also vital to biological equilibrium and growth. Zinc used in the building industry is 100% recyclable, putting it far ahead of many other materials which are just taking their first steps in recycling. Less energy is required to produce zinc than the other principal metals. The energy balance is even more favourable in recycled zinc.

MATERIAL STUDIES - ROOF FINISHES / WALL ALTERNATIVES

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STATUS: PLANNING

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PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW
DRAWING TITLE:	PROPOSED MATERIALS - ROOF FINISHES
NO.	1964
DATE	KHA ZZ 00
SCALE	DR A P
PROJECT NO.	0017
REV.	S1
DATE	P01



'Kebony' Scots Pine cladding in marine setting



Brise Soleil



'Kebony' Clear



Timber rainscreen & metal



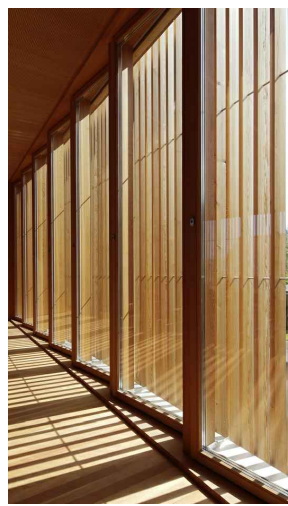
Timber rainscreen in front of window



'Kebony' clear cladding



Torquay House, Australia - rainscreen cladding



Brise Soleil Cladding 1



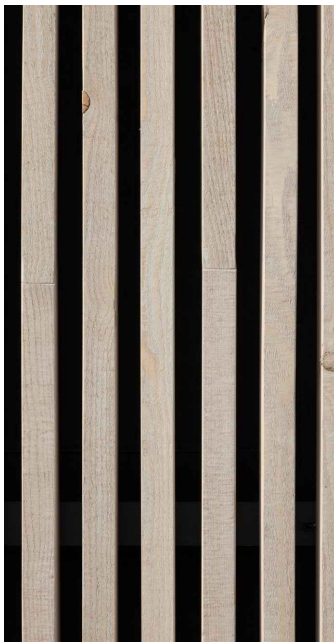
Brise Soleil Cladding 2



Cladding by day



Cladding by night



Rainscreen Timber Battens



Festival Hall, Germany 1



Festival Hall, Germany by night



Festival Hall, Germany timber cladding & metal roof with clerestory lighting

MATERIALS - PRECEDENT STUDIES

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IMMEDIATELY ADVISE THE ARCHITECT / QUANTITY SURVEYOR OF THE EFFECT UPON PROGRAMME AND COST OF ANY ALTERATIONS TO THE PROPOSED WORKS SHOWN ON THIS DRAWING.
2 THIS DRAWING SUPERSEDES ALL PREVIOUS ISSUES OF THE SAME DRAWING NUMBER WITH EARLIER REVISIONS.
3 THIS DRAWING IS COPYRIGHT TO KENNETH HENNESSY ARCHITECTS LTD. AND THE CONTENTS MUST NOT BE DISCLOSED TO ANYONE WITHOUT PRIOR AGREEMENT.

GENERAL NOTES

ALL DIMENSIONS TO BE CHECKED ON SITE.
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS AND DRAWINGS.
IN THE EVENT OF ANY DISCREPANCIES BETWEEN DRAWINGS THE CONTRACTOR IS TO INFORM THE ARCHITECT IMMEDIATELY.
DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
ALL WORK TO COMPLY WITH CURRENT BUILDING REGS & B.S.

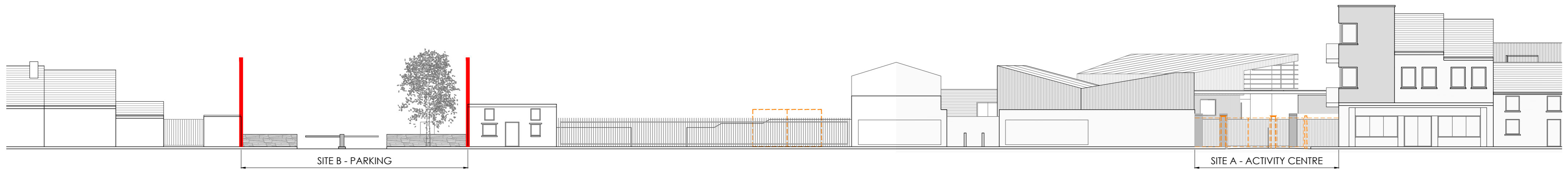
REVISION REGISTER

REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
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-	-	-	-	-	-

tel: 052 6128956
fax: 052 6180590
email: info@kharchitects.ie
Anglesea House, Anglesea Street
Clonmel, Co. Tipperary

SCALE: NTS
STATUS: PLANNING

CLIENT:	CARLOW COUNTY COUNCIL			
PROJECT:	RIVER BARROW ACTIVITY CENTRE CARLOW TOWN PARK, CARLOW COUNTY CARLOW			
DRAWING TITLE:	PROPOSED MATERIALS - PRECEDENT STUDIES			
NO.	DATE	BY	CHKD	APPD
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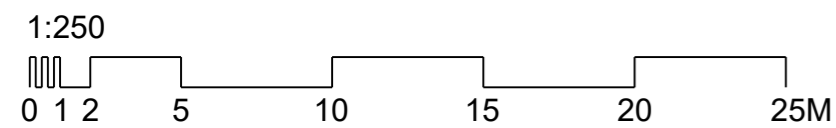
SITE B - PARKING

SITE A - ACTIVITY CENTRE

CONTIGUOUS ELEVATION MARYBOROUGH ST - PROPOSED

PROPOSED CONTIGUOUS ELEVATION

SCALE: 1:250



STANDARD INSTRUCTIONS

1 THE MAIN CONTRACTOR, SUB-CONTRACTOR OR SUPPLIER SHALL VERIFY ALL DIMENSIONS ON SITE AND IMMEDIATELY REPORT TO THE ARCHITECT ANY DISCREPANCIES ON THE DRAWINGS.
 WORK TO FIGURED DIMENSIONS ONLY (EXCEPT WHERE FULL SIZE DETAILS ARE PROVIDED).
 NOT VARY ANY WORK SHOWN ON THE DRAWINGS WITHOUT OBTAINING PRIOR APPROVAL FROM THE ARCHITECT.
 BE RESPONSIBLE FOR REQUESTING FROM THE ARCHITECT ANY ADDITIONAL INFORMATION REQUIRED.
 SUPPLY TO THE ARCHITECT ALL SHOP DRAWINGS, ILLUSTRATIONS, SPECIFICATIONS, ETC. OF ALL SPECIALIST WORK TO BE INCORPORATED IN THE MAIN CONTRACT WORKS.

IMMEDIATELY INFORM THE ARCHITECT IF ANY WORK SHOWN ON THIS DRAWING IS NOT IN ACCORDANCE WITH THE RELEVANT CODES OF PRACTICE, RECOGNISED GOOD PRACTICE THROUGHOUT THE INDUSTRY AND DOES NOT COMPLY WITH THE RELEVANT LOCAL AUTHORITY BYELAWS OR BUILDING REGULATIONS.
 IMMEDIATELY ADVISE THE ARCHITECT / QUANTITY SURVEYOR OF THE EFFECT UPON PROGRAMME AND COST OF ANY ALTERATIONS TO THE PROPOSED WORKS SHOWN ON THIS DRAWING.
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REVISION REGISTER

REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
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 email: info@kharchitects.ie

Anglesea House, Anglesea Street
 Clonmel, Co. Tipperary

SCALE: 1/250

STATUS: **PLANNING**

CLIENT: **CARLOW COUNTY COUNCIL**

PROJECT: **RIVER BARROW ACTIVITY CENTRE
 CARLOW TOWN PARK, CARLOW
 COUNTY CARLOW**

DRAWING TITLE: **PROPOSED CONTIGUOUS
 ELEVATIONS**

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