



COMHAIRLE CONTAE AN CHLÁIR  
CLARE COUNTY COUNCIL



OPW Oifig na  
nOibreacha Poiblí  
Office of Public Works



# SHANNON TOWN & ENVIRONS FLOOD RELIEF SCHEME

Public Consultation Event

Emerging Options

25/10/2023

[rpsgroup.com](http://rpsgroup.com)



# Shannon Town & Environs Flood Relief Scheme

Public Consultation Event

Emerging Options

October 25<sup>th</sup>, 2023

Treacys Oakwood Hotel, Shannon



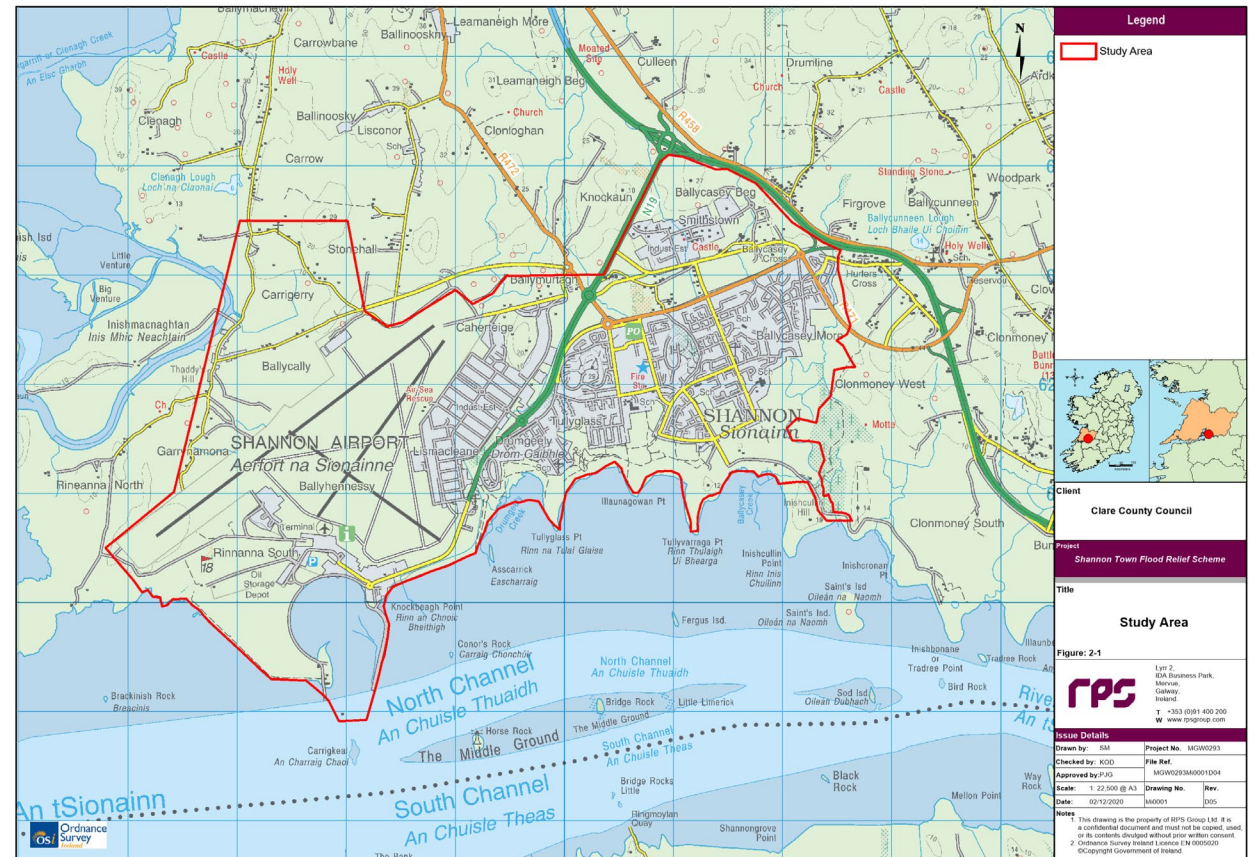


# Shannon Town & Environs Flood Relief Scheme

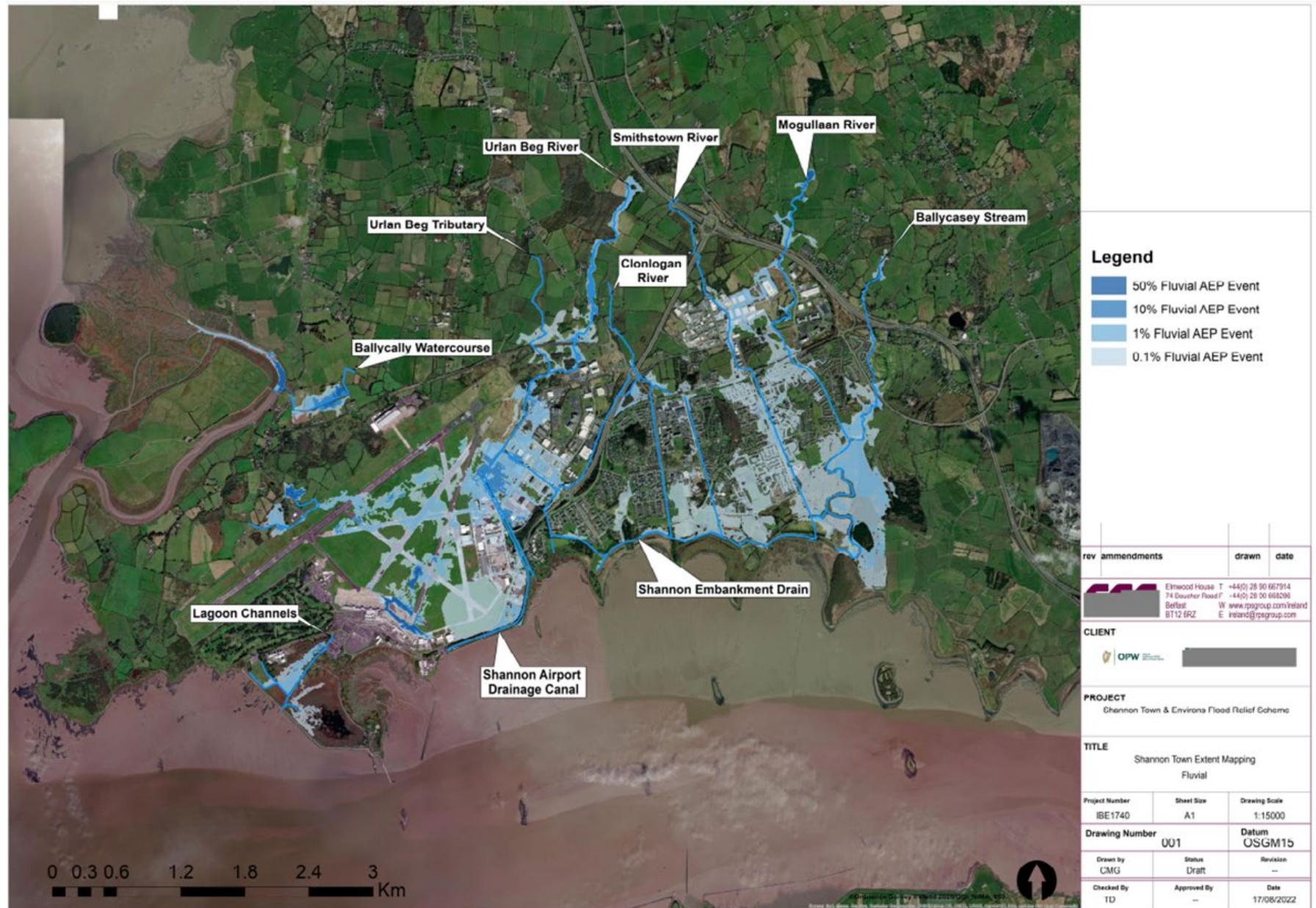
## Introduction

### Project Background

- Shannon Town & Airport
  - Historic Flood Risk
  - Flood Risk from Coastal and Fluvial Sources
  - Reliance on older embankments
  - Concern with their ability to provide an appropriate standard of protection



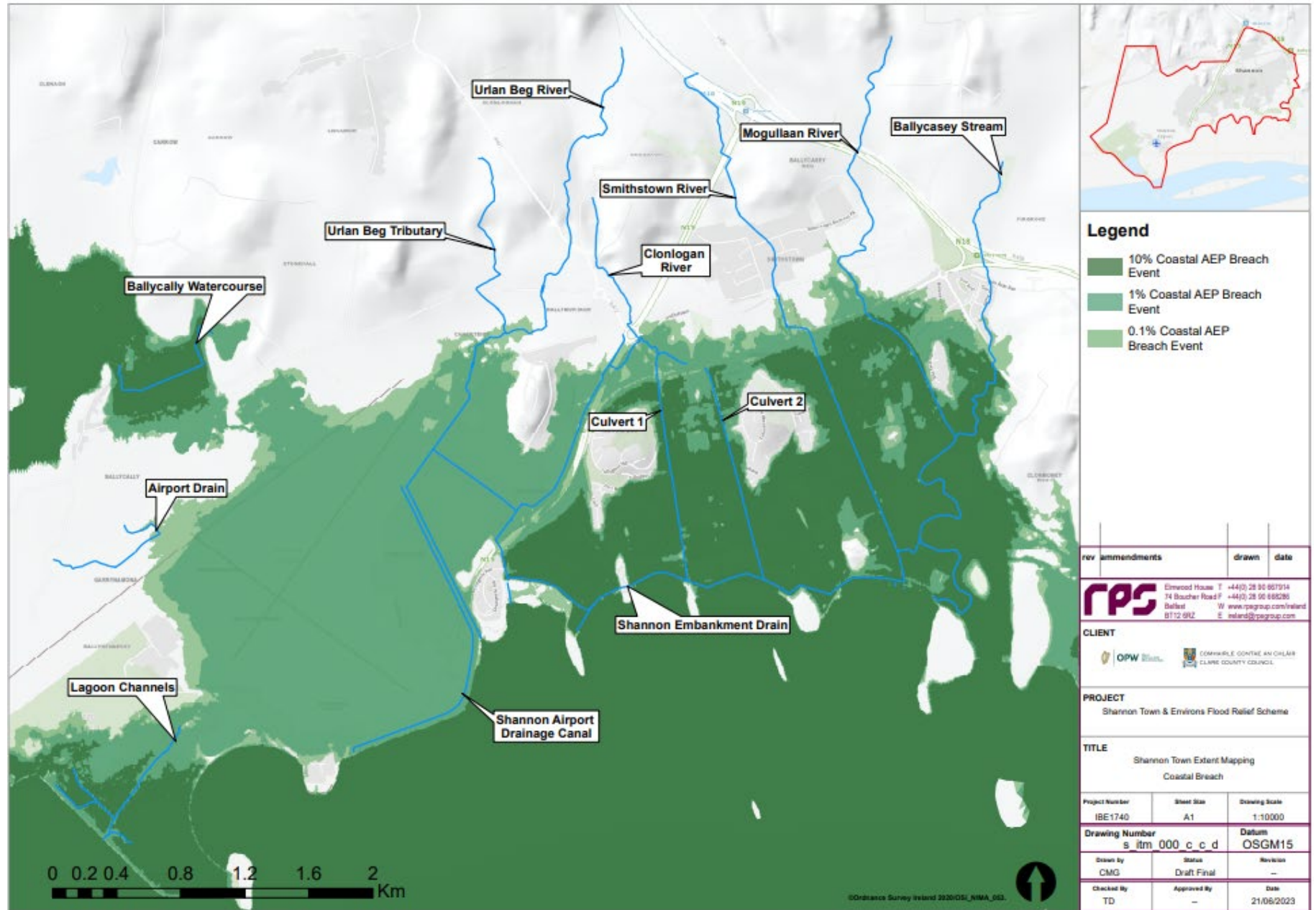
# Fluvial Flood Map





# Coastal Flood Map

Extents Assumes Breaches in Embankments



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# Shannon Town & Environs Flood Relief Scheme

## Options Considered for Coastal Flood Risk

- Tidal Barrage (screened out)
- Upgrade of existing defences
- Realignment of Defences
- Abandonment of Breakwater (would result in significantly higher walls along N19 and WWTP access road)



# Shannon Town & Environs Flood Relief Scheme

Options Considered for Fluvial (River) Flood Risk

## Option 1 - Summary

Option	Location	Option elements
Option 1	Urlan Beg	<ul style="list-style-type: none"><li>• Flood walls and embankments</li><li>• Manhole Sealing</li></ul>
	Clonloghan	<ul style="list-style-type: none"><li>• Flood walls and embankments</li></ul>
	Culvert 1	<ul style="list-style-type: none"><li>• Diversion Culvert to Culvert 2</li></ul>
	Culvert 2	<ul style="list-style-type: none"><li>• Storage Tank</li><li>• Culvert upgrade</li></ul>
	Culleen	<ul style="list-style-type: none"><li>• Flood walls</li><li>• Culvert Upgrade</li></ul>
	Mogullaan	<ul style="list-style-type: none"><li>• Flood embankments</li></ul>





# Shannon Town & Environs Flood Relief Scheme

## Options Considered for Fluvial Flood Risk

### Option 2 - Summary

Option	Location	Option elements
Option 2	Urlan Beg	<ul style="list-style-type: none"> <li>Flood walls</li> <li>Diversion Culvert to the Airport Drainage Canal</li> <li>Culvert Maintenance</li> </ul>
	Clonloghan	<ul style="list-style-type: none"> <li>Flood walls and embankments</li> </ul>
	Embankment Back Drain	<ul style="list-style-type: none"> <li>Culvert Maintenance (Outfall)</li> </ul>
	Culvert 1	<ul style="list-style-type: none"> <li>Diversion Culvert to Culvert 2</li> </ul>
	Culvert 2	<ul style="list-style-type: none"> <li>Storage Tank</li> <li>Culvert upgrade</li> </ul>
	Culleen	<ul style="list-style-type: none"> <li>Flood walls</li> <li>Culvert Upgrade</li> </ul>
	Mogullaan	<ul style="list-style-type: none"> <li>Flood embankments</li> </ul>





# Shannon Town & Environs Flood Relief Scheme

## Options Considered for Fluvial Flood Risk

### Option 3 - Summary

Option	Location	Option elements
Option 3	Urlan Beg	<ul style="list-style-type: none"> <li>Flood walls</li> <li>Diversion Culvert to the Airport Drain Canal</li> <li>Culvert Maintenance</li> </ul>
	Clonloghan	<ul style="list-style-type: none"> <li>Flood walls and embankments</li> <li>Pumping Station Upgrade</li> </ul>
	Embankment Back Drain	<ul style="list-style-type: none"> <li>Culvert Maintenance (Outfall)</li> </ul>
	Culvert 1	<ul style="list-style-type: none"> <li>Diversion Culvert to Culvert 2</li> </ul>
	Culvert 2	<ul style="list-style-type: none"> <li>Storage Tank</li> <li>Culvert upgrade</li> </ul>
	Culleen	<ul style="list-style-type: none"> <li>Flood walls</li> <li>Culvert Upgrade</li> </ul>
	Mogullaan	<ul style="list-style-type: none"> <li>Flood embankments</li> </ul>

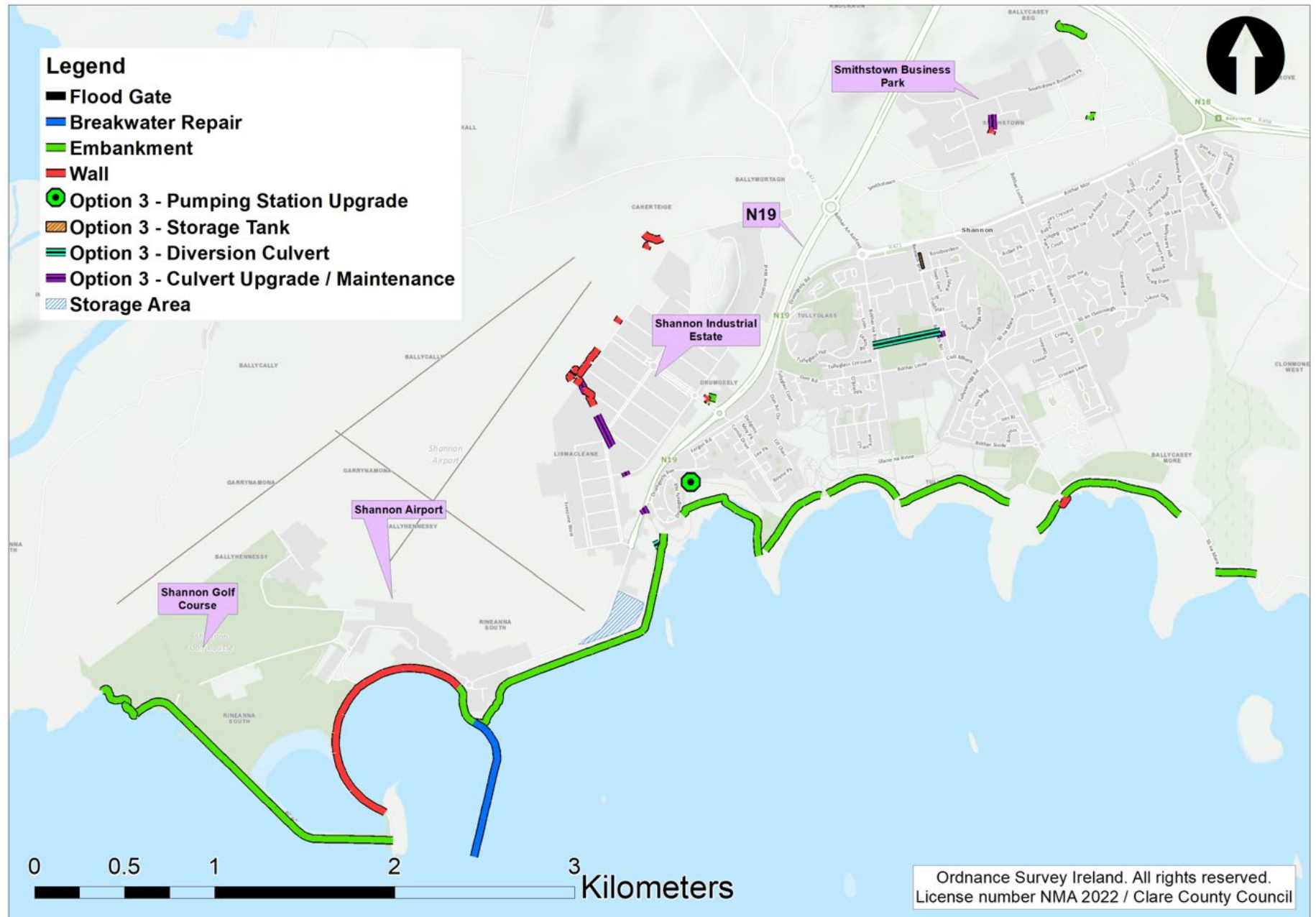


# Emerging Preferred Option

## Overall Scheme

Note: Scheme is subject to change based on;

- Environmental Assessments
- Stakeholder Input
- Public Consultation

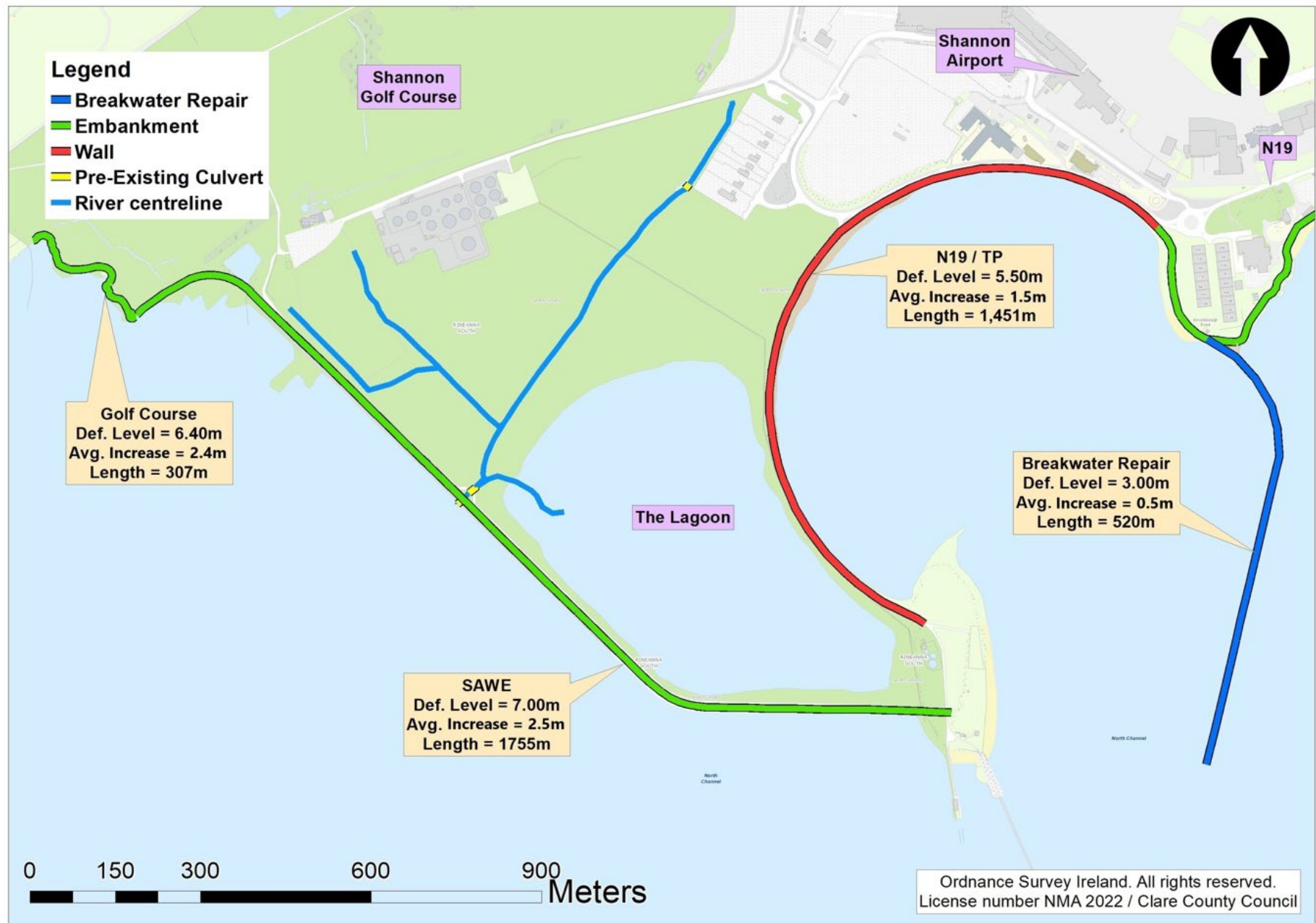




# Emerging Preferred Option

## Coastal Defences Upgrades

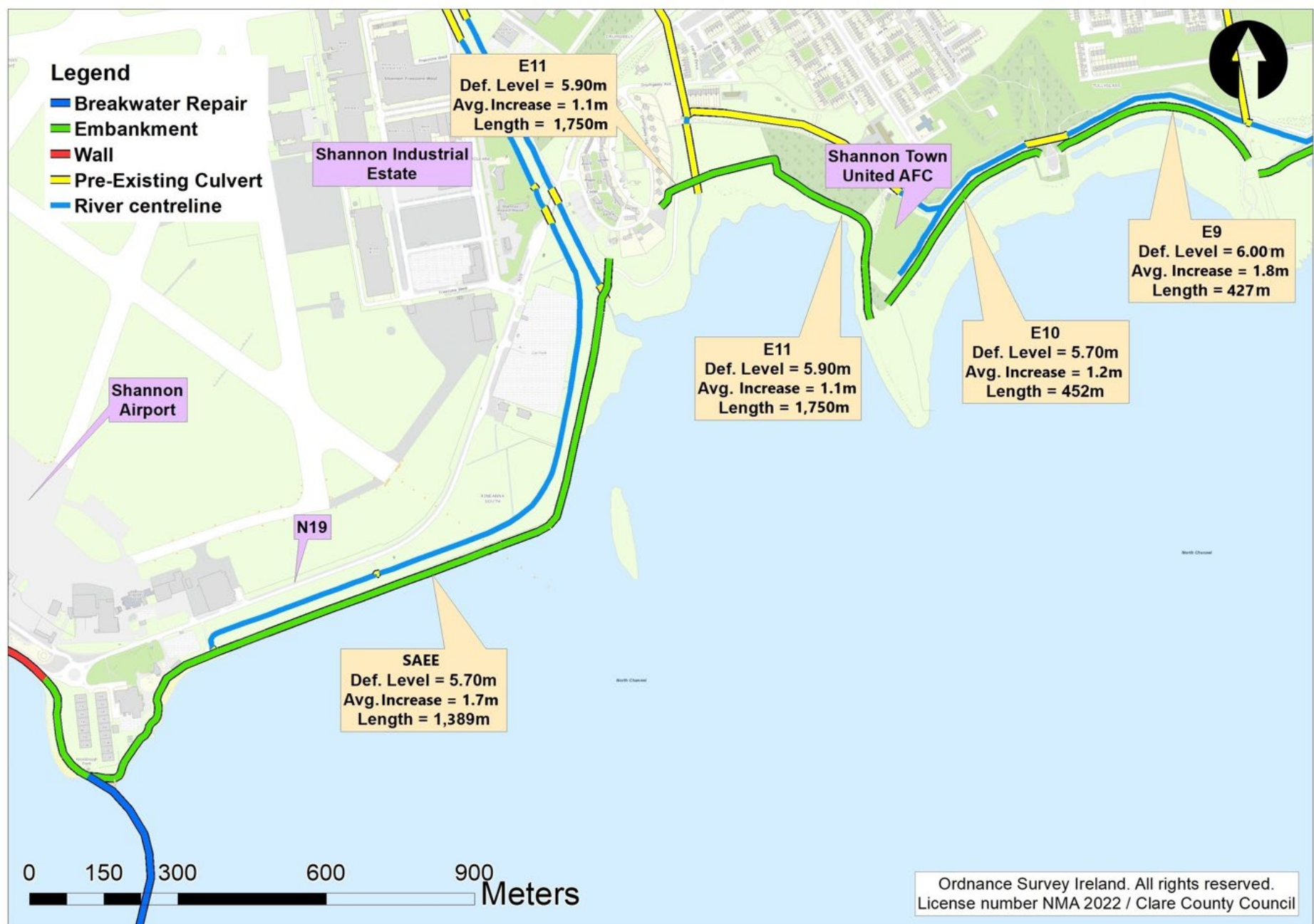
– Western Section



# Emerging Preferred Option

## Coastal Defences Upgrades

### - Central Section

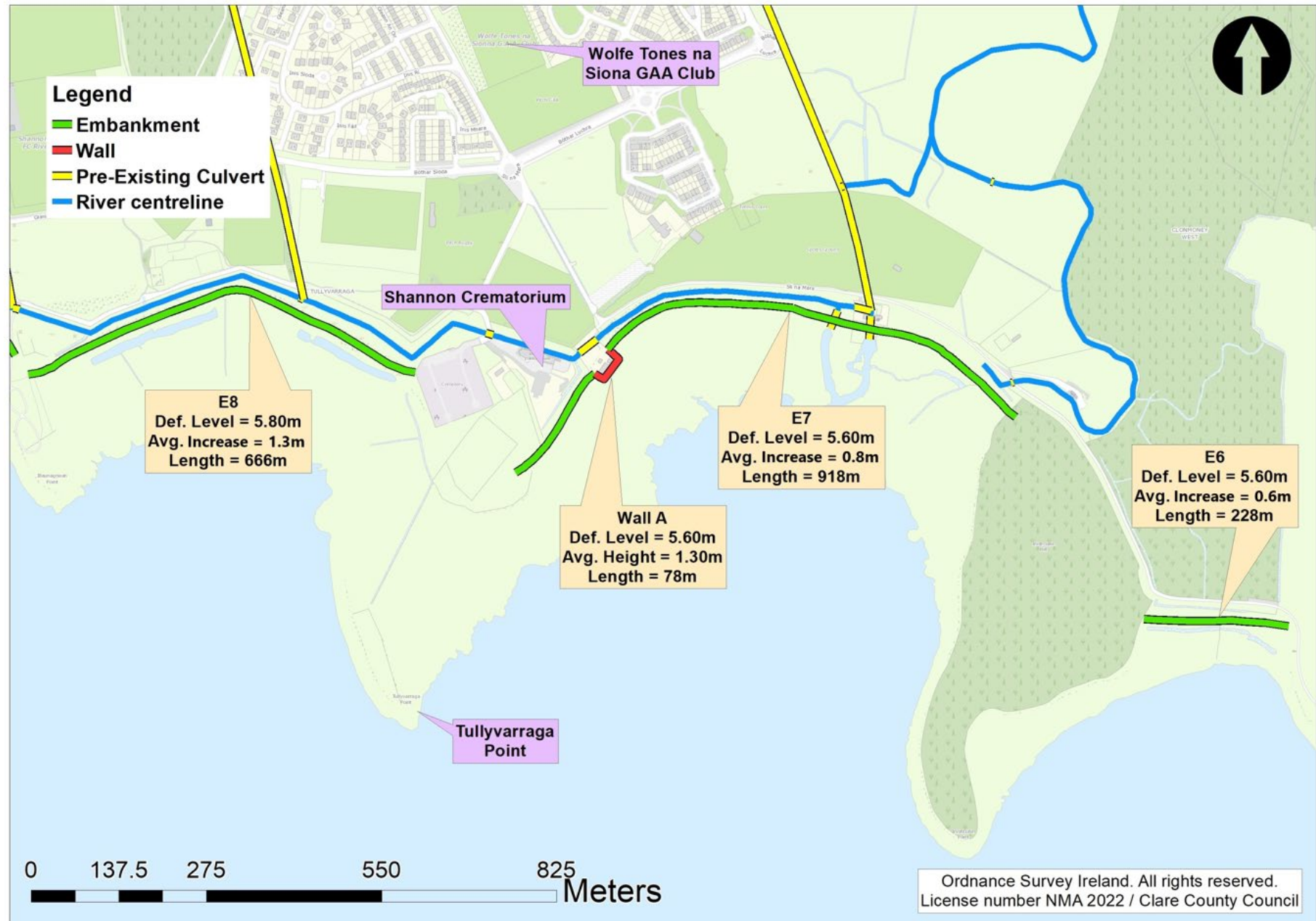




# Emerging Preferred Option

## Coastal Defences Upgrades

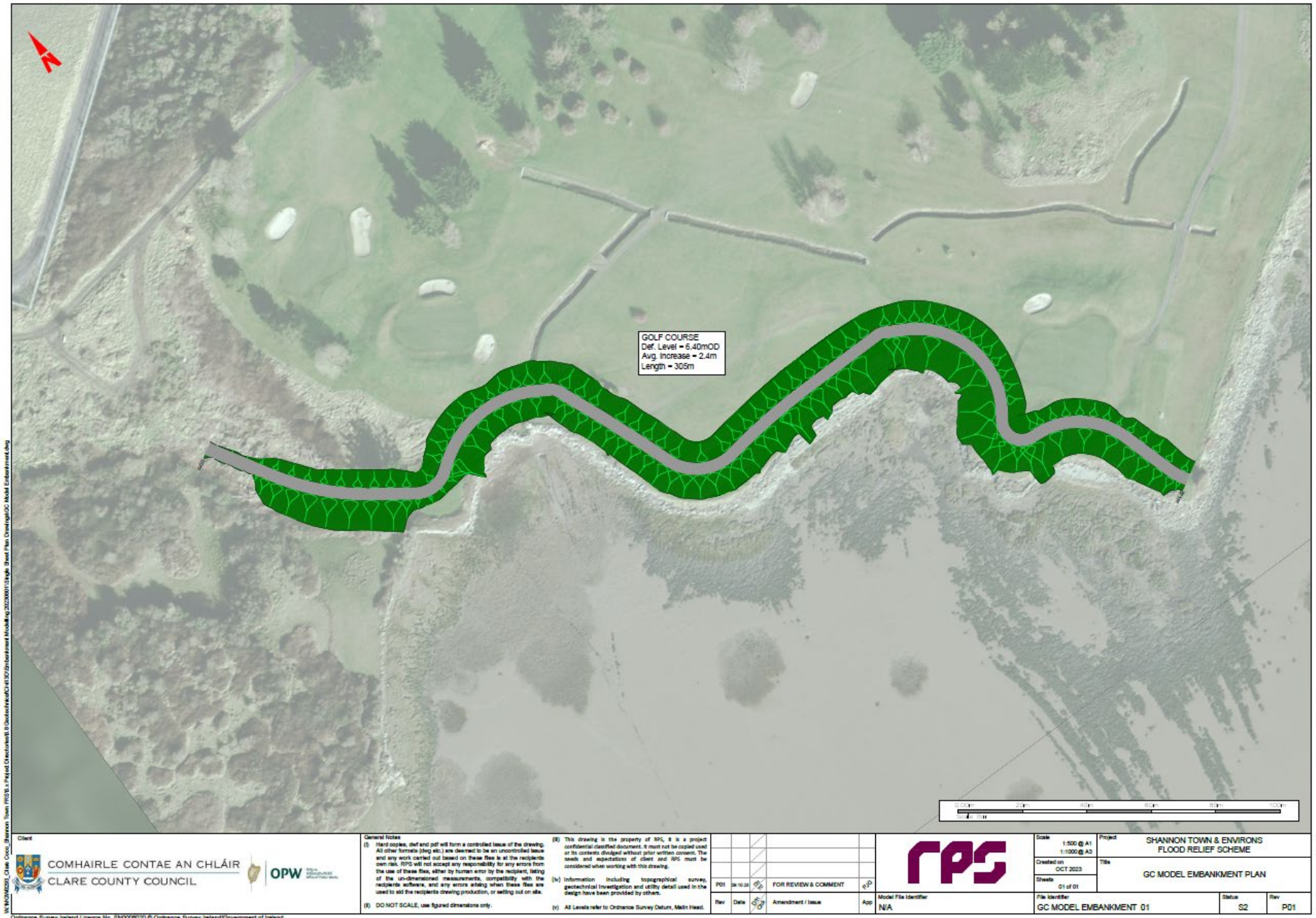
- Eastern Section



# Emerging Preferred Option

Proposed Embankment Footprint

Golf Course





# Emerging Preferred Option

Proposed Embankment Footprint

Western Embankment



N:\M\0293\_Clar\_Cooc\_Shemon\_Town\_P0131\_Prelim\_Directions\02\Embarkment\DWG\20200801\191466\_Sheet Plan Drawing\SAWE\_Embarkment.dwg

Client

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PO1	ISSUED	FOR REVIEW & COMMENT	App
Rev	Date	Amendment / Issue	App

Model File Identifier  
N/A

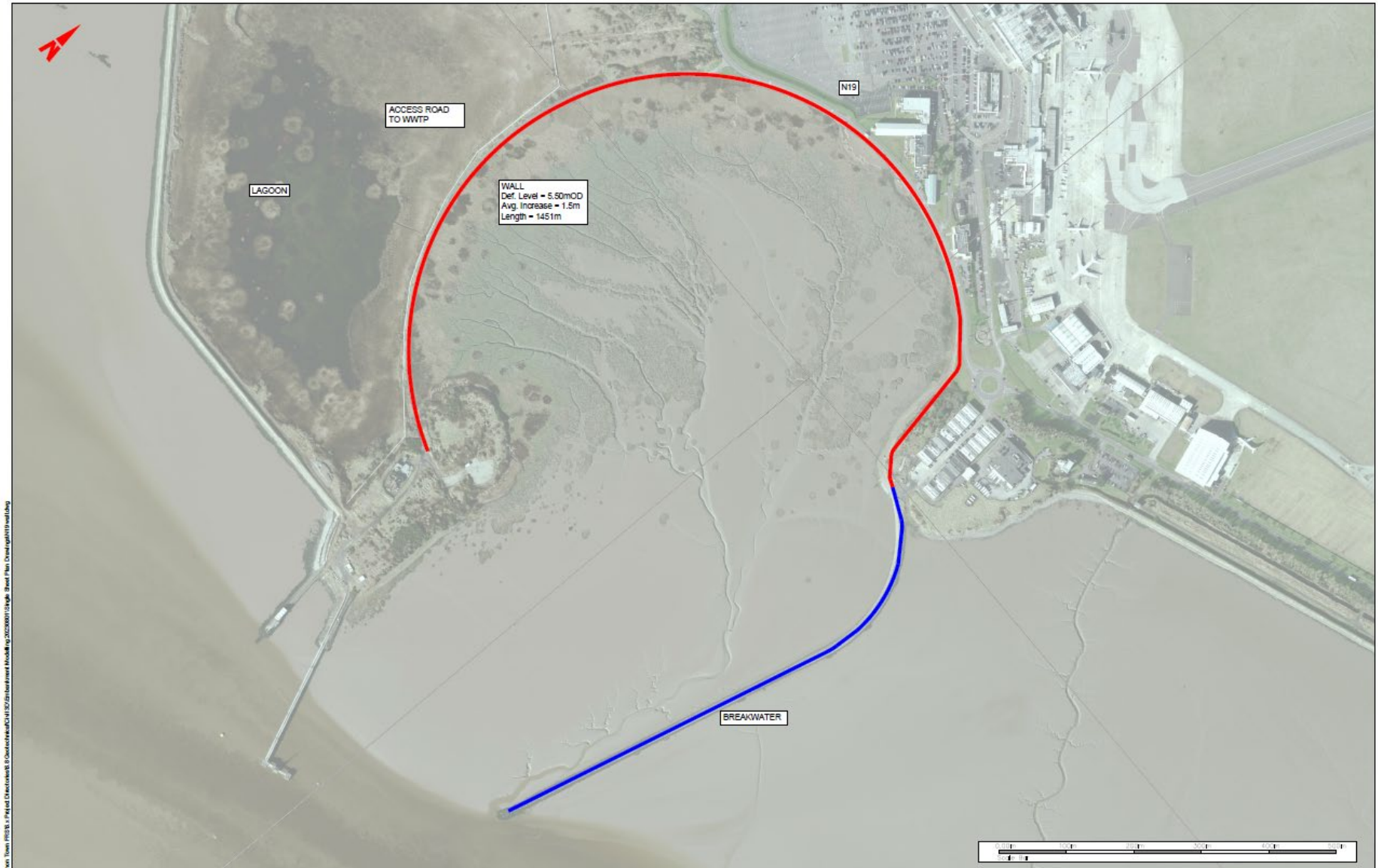
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Created on	AUGUST	Title	SAWE EMBANKMENT PLAN
Sheet	01 of 01	File Identifier	SAWE EMBANKMENT 01
Status	S2	Rev	PD1

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# Emerging Preferred Option

Proposed Flood Defences

N19 and WWTP Access Road



W:\M0203\02a - Co. Clare - Shannon Town 1925 - Final Drawings\02a\1925\Drawings\Building\20230901\1925\Drawings\1925\1925.dwg

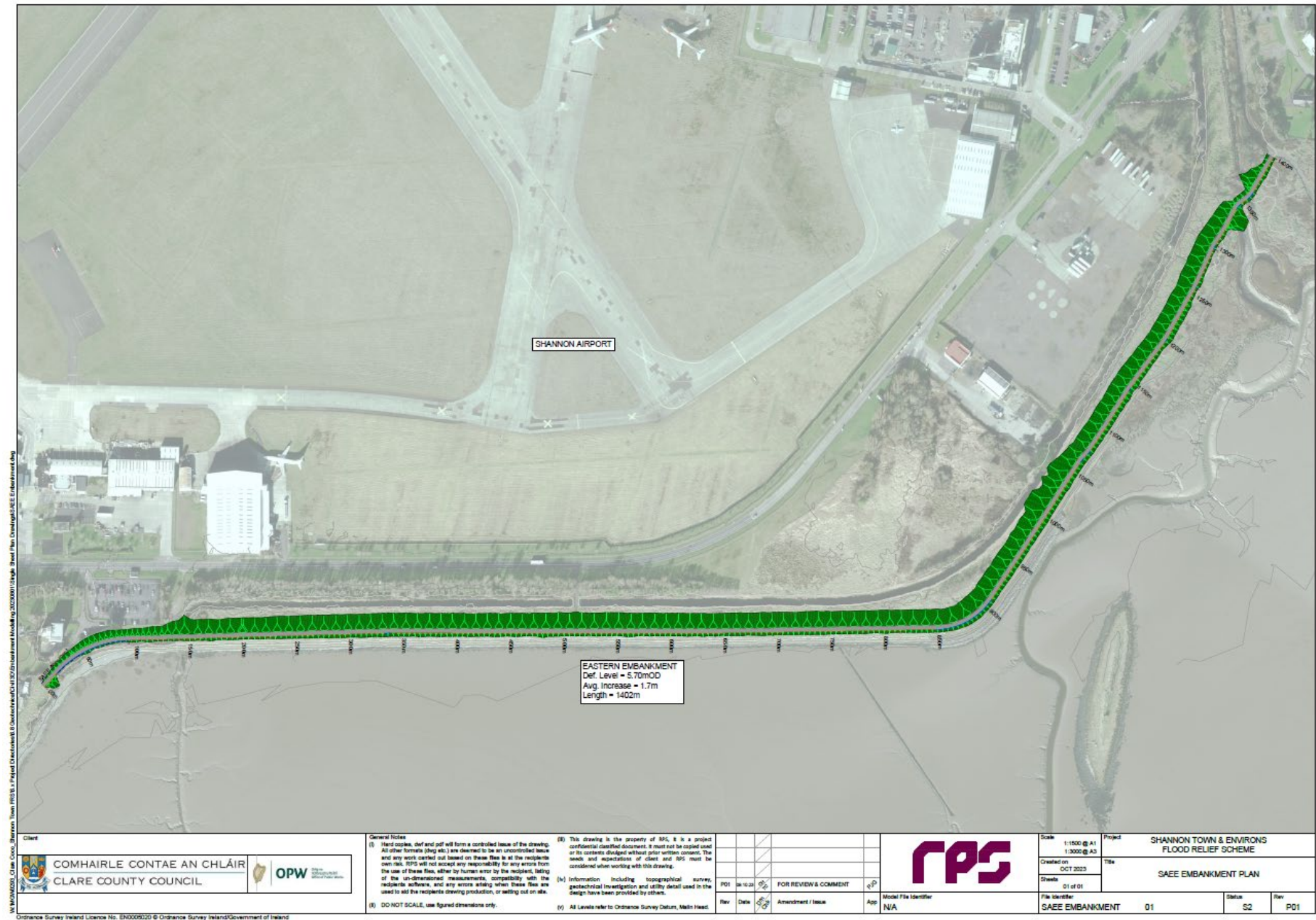
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Rev	Date	Amendment / Issue	App																										
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# Emerging Preferred Option

Proposed Embankment Footprint

Eastern Embankment



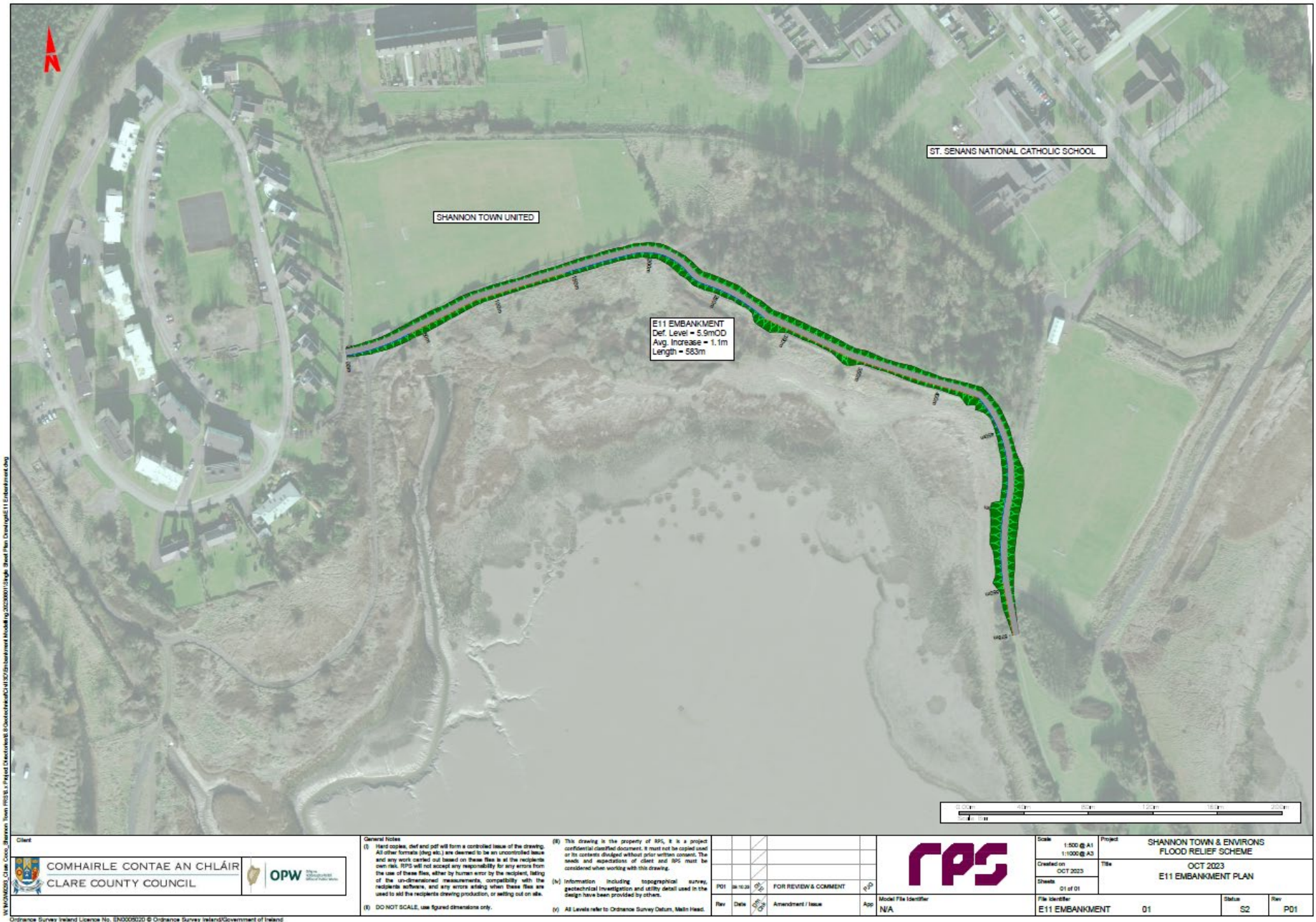


# Emerging Preferred Option

Proposed Embankment Footprint

Embankment 11

St. Senans National School



W:\Projects\2023\010 - Clare County Council - Shannon Town Flood Relief Scheme\Drawings\01 - E11 Embankment.dwg  
 Client: Shannon Town Flood Relief Scheme  
 Date: 2023/10/11 14:48:11  
 Scale: 1:500 @ A1  
 1:1000 @ A3

Client

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Rev	Date	Amendment / Issue	App	Model File Identifier
P01	24/10/23	FOR REVIEW & COMMENT		N/A



Scale	1:500 @ A1 1:1000 @ A3	Project	SHANNON TOWN & ENVIRONS FLOOD RELIEF SCHEME
Created on	OCT 2023	Title	OCT 2023 E11 EMBANKMENT PLAN
Sheets	01 of 01	File Identifier	E11 EMBANKMENT 01
Status	S2	Rev	P01

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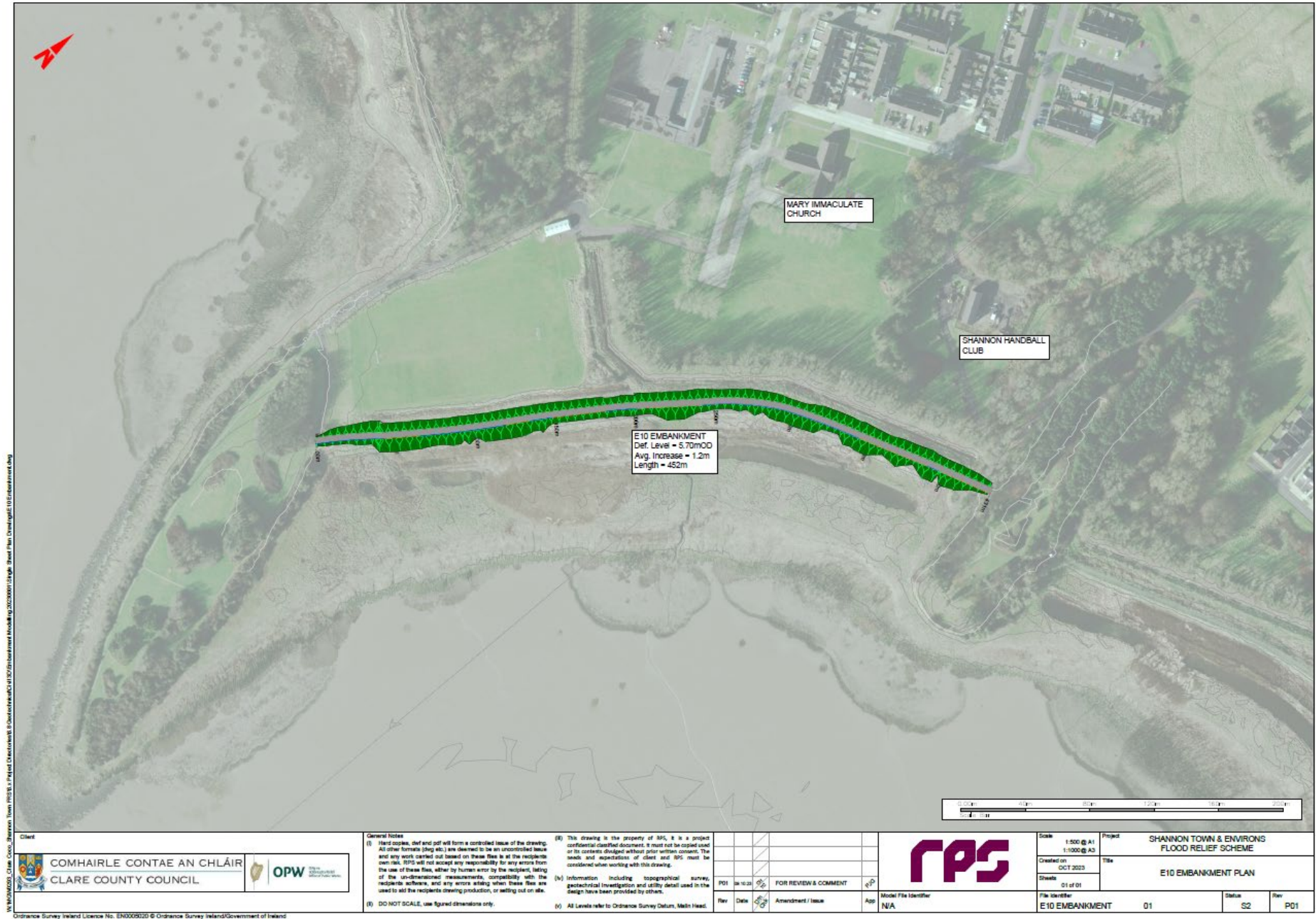


# Emerging Preferred Option

Proposed Embankment Footprint

Embankment 10

Mary Immaculate Church



N:\000000000 - Clare County - Shannon Town 2023\01 - Project Drawings\01 - Drawings\01 - E10 Embankment Footprint.dwg

<b>Client</b> COMHAIRLE CONTAE AN CHLÁIR CLARE COUNTY COUNCIL			<b>General Notes</b> (i) Hard copies, dwf and pdf will form a controlled issue of the drawing. All other formats (png etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipient's own risk. RPS will not accept any responsibility for any errors from the use of these files, either by human error by the recipient, listing of the uncommissioned measurements, compatibility with the recipient's software, and any errors arising when these files are used to aid the recipient's drawing production, or setting out on site. (ii) DO NOT SCALE, use figured dimensions only.	(iii) This drawing is the property of RPS, it is a project confidential classified document. It must not be copied, used or its contents divulged without prior written consent. The needs and expectations of client and RPS must be considered when working with this drawing. (iv) Information including topographical survey, geotechnical investigation and utility detail used in the design have been provided by others. (v) All Levels refer to Ordnance Survey Datum, Mean High.	<table border="1"> <tr> <th>Rev</th> <th>Date</th> <th>Amendment / Issue</th> <th>App</th> </tr> <tr> <td>P01</td> <td>28-10-2023</td> <td>FOR REVIEW &amp; COMMENT</td> <td>QP</td> </tr> </table>	Rev	Date	Amendment / Issue	App	P01	28-10-2023	FOR REVIEW & COMMENT	QP		Scale: 1:500 @ A1 1:1000 @ A2 Created on: OCT 2023 Sheets: 01 of 01	Project: SHANNON TOWN & ENVIRONS FLOOD RELIEF SCHEME Title: E10 EMBANKMENT PLAN
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P01	28-10-2023	FOR REVIEW & COMMENT	QP													
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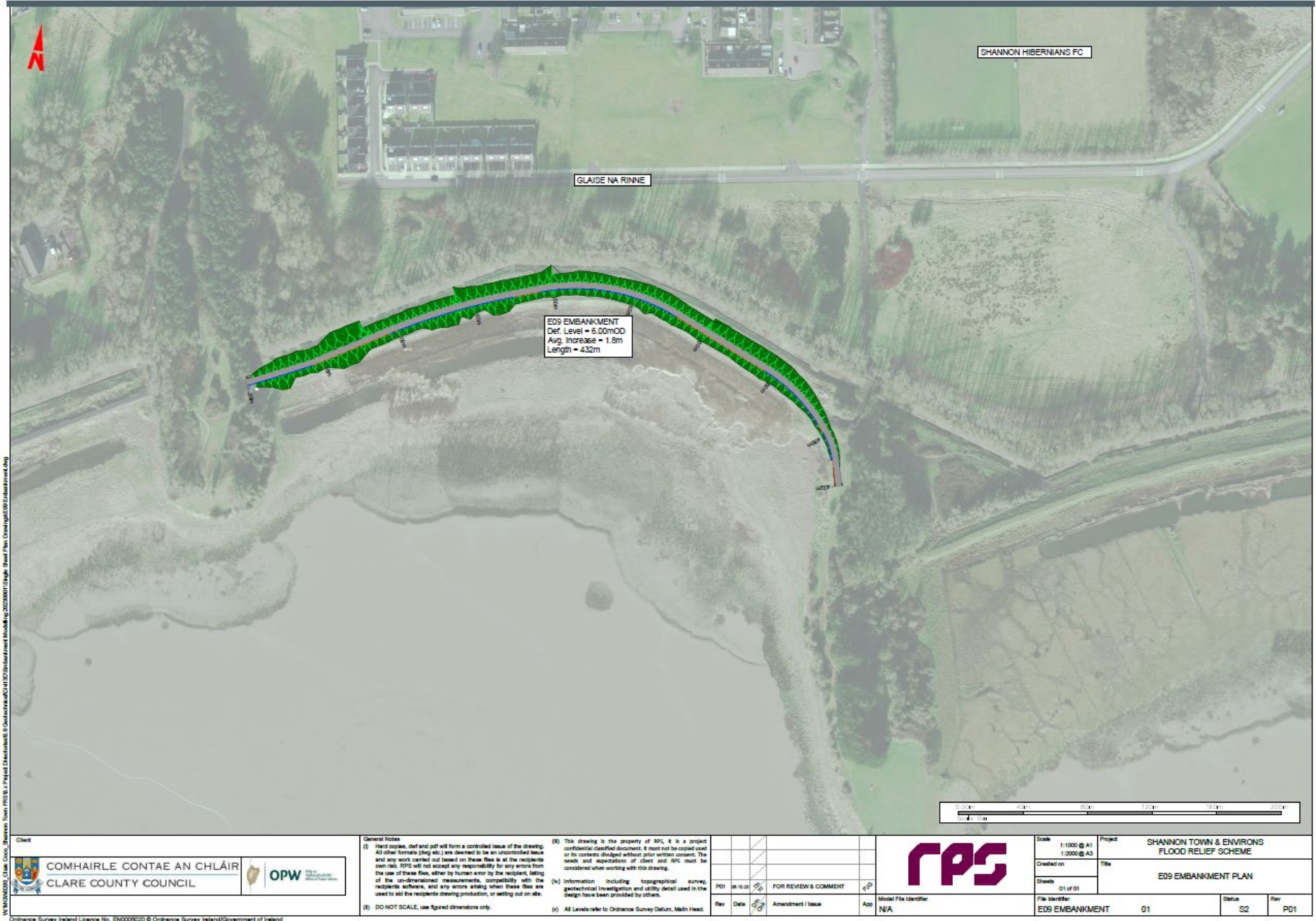
# Emerging Preferred Option

Proposed Embankment Footprint

Embankment 9

Glaise na Rinne

Shannon Hibernians FC



W:\020000\_01a\_Cooc\_Shannon Town (RPS) - Project (Shannon) - 2023\0001\Stage 2\Drawings\09\_Embankment.dwg  
 Client: COMHAIRLE CONTAE AN CHLÁIR CLARE COUNTY COUNCIL  
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Rev	P01																																	

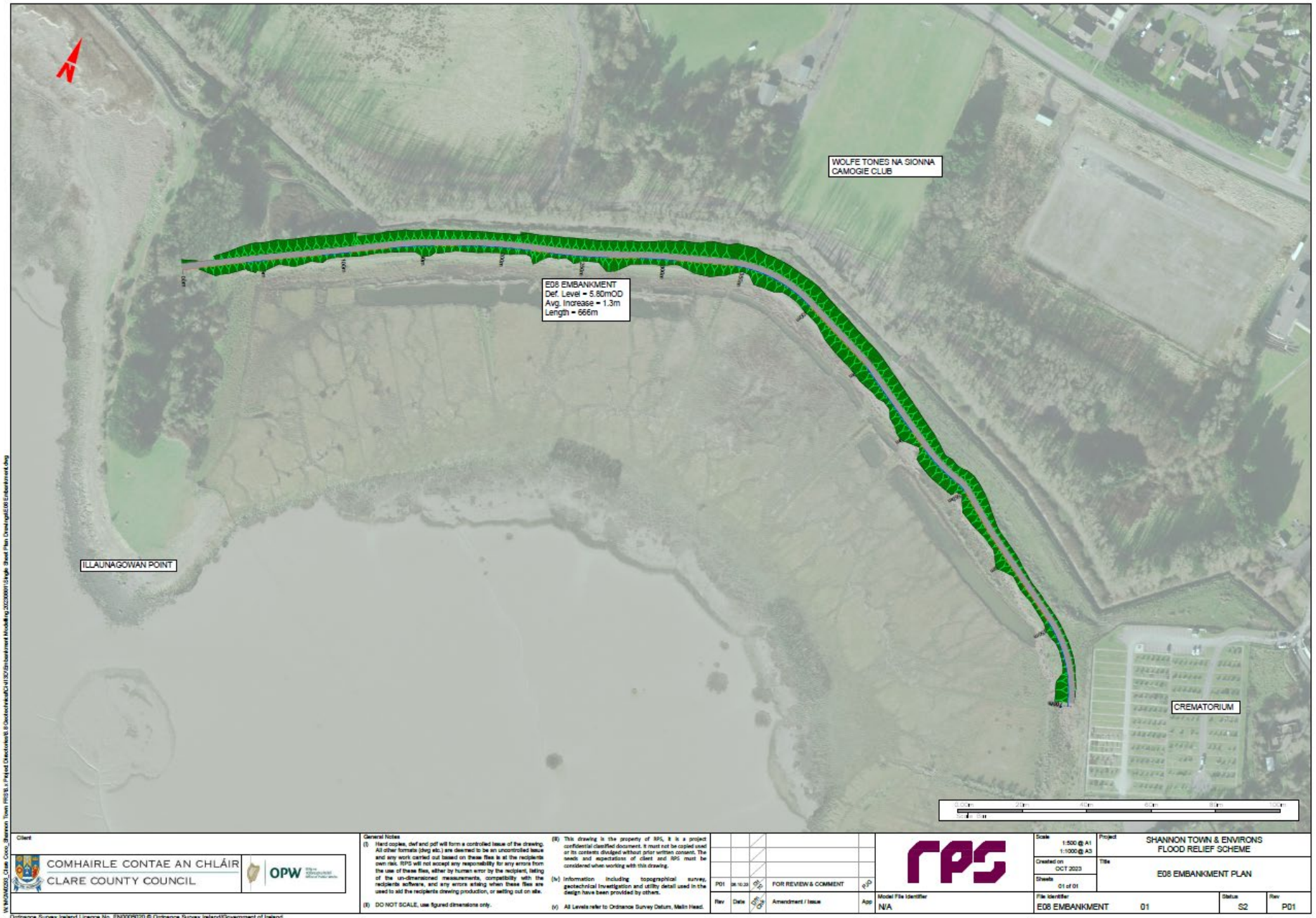


# Emerging Preferred Option

Proposed Embankment Footprint

Embankment 8

West of Crematorium



W:\M0293-Clare\_Civic\_Barracks\_Town\_RPS\BLS\_Proposed\_Embankment\_Modelling\_2023\0011\_Single\_Sheet\_DWG\EM08\_Embankment.dwg

Client

Rev	Date	Amendment / Issue	App	Model File Identifier
P01	28.10.23	FOR REVIEW & COMMENT		N/A

Scale: 1:500 @ A1  
1:1000 @ A3

Created on: OCT 2023

Drawn: 01 of 01

Project: SHANNON TOWN & ENVIRONS FLOOD RELIEF SCHEME

Title: E08 EMBANKMENT PLAN

File Identifier: E08 EMBANKMENT 01

Status: S2

Rev: P01

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# Emerging Preferred Option

## Proposed Embankment Footprint

### Embankment 7

#### East of Crematorium



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 Client: COMHAIRLE CONTAE AN CHLÁIR / CLARE COUNTY COUNCIL  
 Date: 10/10/23

Client: **COMHAIRLE CONTAE AN CHLÁIR**  
CLARE COUNTY COUNCIL

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P01	10/10/23	FOR REVIEW & COMMENT	q/p



Scale: 1:1000 @ A1 1:2000 @ A3	Project: SHANNON TOWN & ENVIRONS FLOOD RELIEF SCHEME
Created on: OCT 2023	Title: E07 EMBANKMENT PLAN
Dwells: 01 of 01	
File Identifier: E07 EMBANKMENT	D1
Status: S2	Rev: P01



# Emerging Preferred Option

Proposed Embankment Footprint

Embankment 6

East of Flying Club



W:\M0293\000 - Clare Co. - Shannon Town PRS\2\1 - Project Drawings\6.0 - Embankment\6.0 - E06 Embankment.dwg

Client

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POI 01	WORK	WORK IN PROGRESS	
Rev	Date	Amendment / Issue	App
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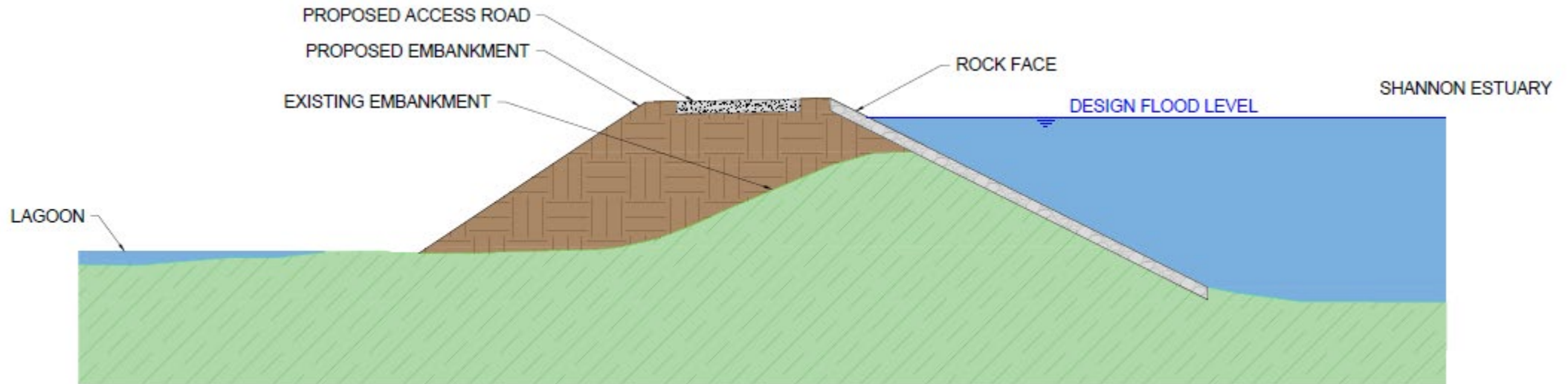
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Created on	AUGUST 2023	Title	E06 EMBANKMENT PLAN
Drawn	01 of 01	Model File Identifier	
File Identifier	E06 EMBANKMENT	01	Status S2 Rev PD1

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# Emerging Preferred Option

## Proposed Embankments

### Typical Section – Western Embankment

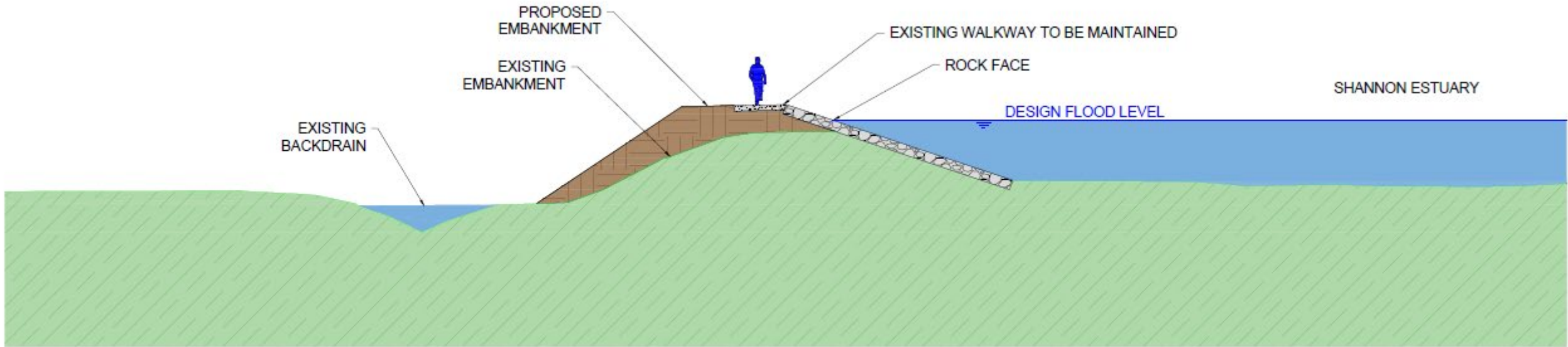




# Emerging Preferred Option

## Proposed Embankments

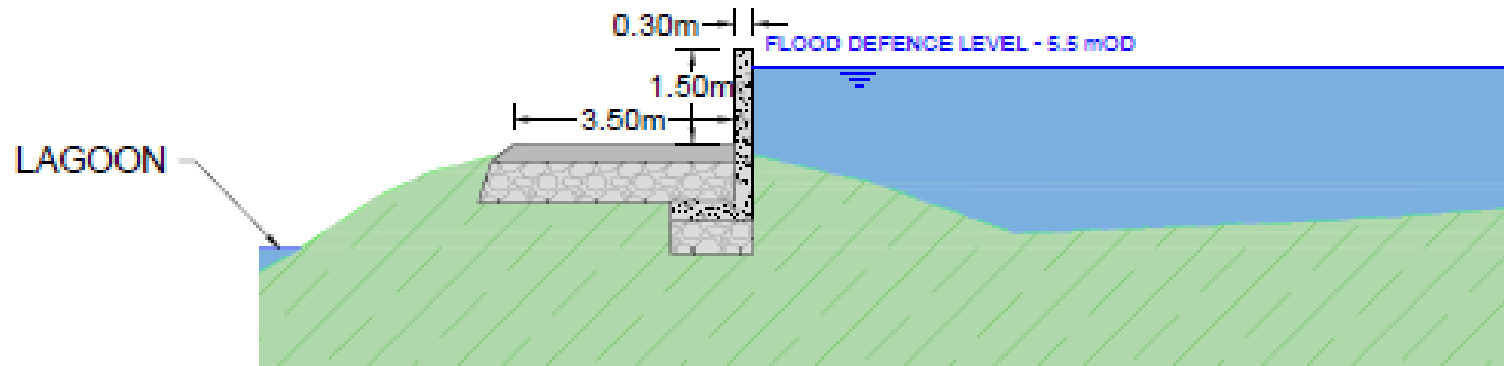
### Typical Section – Near Mary Immaculate Church



## Emerging Preferred Option

Proposed Coastal Defences

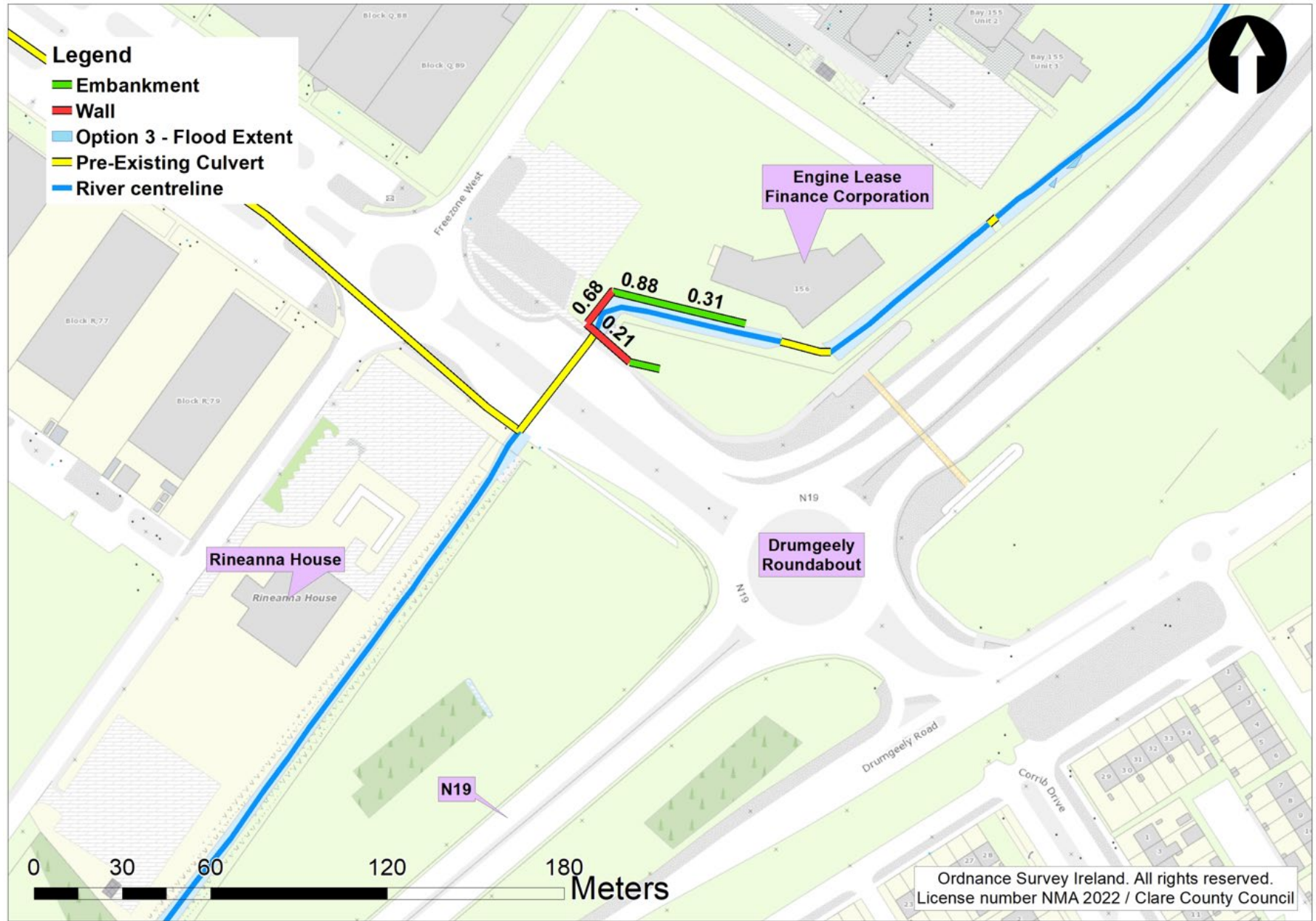
Typical Section – WWTP Access  
Road





# Emerging Preferred Option

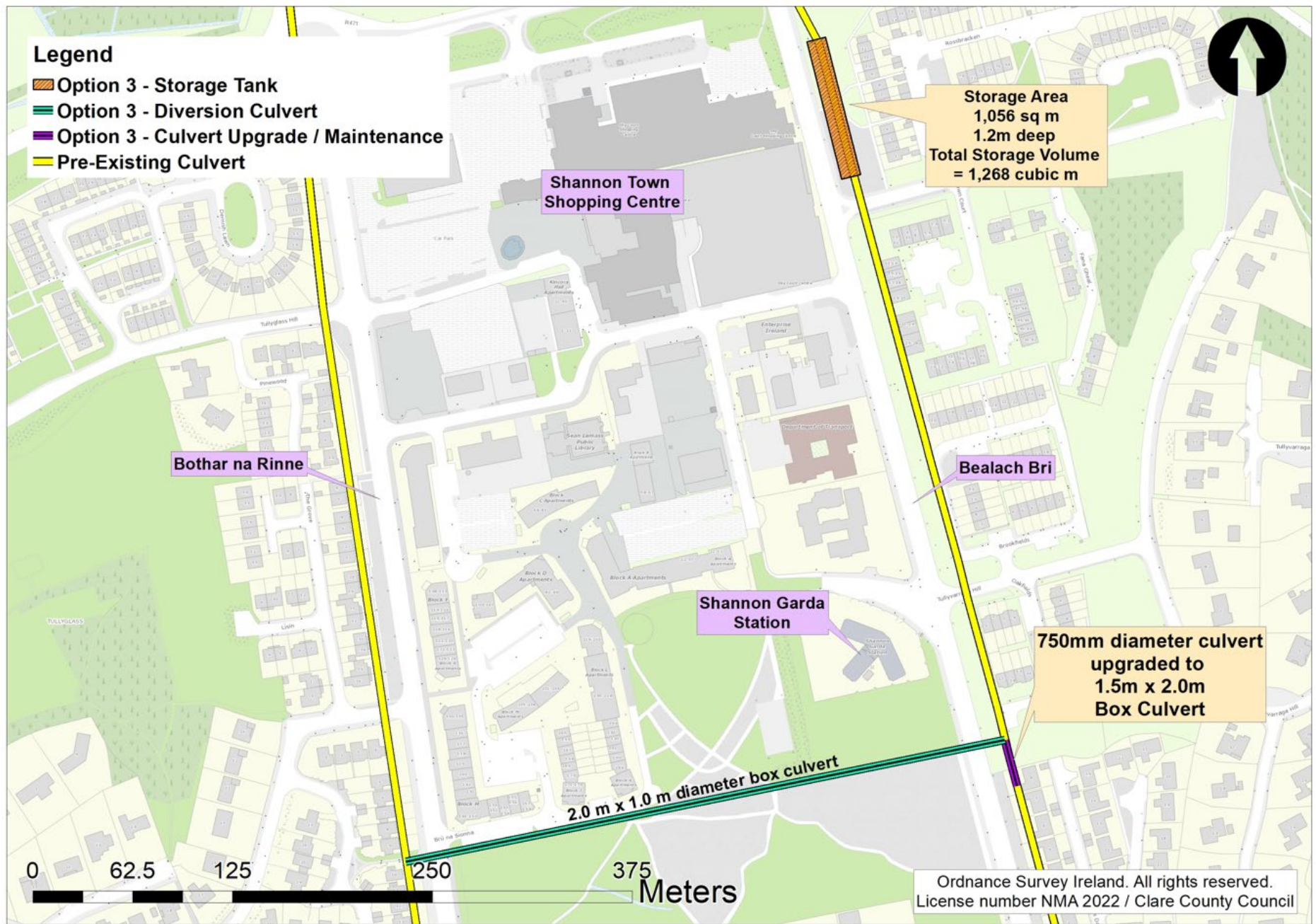
## Flood Walls and Embankments at Clonloghan River



**Note:** Levels of defences refer to height above ground

# Emerging Preferred Option

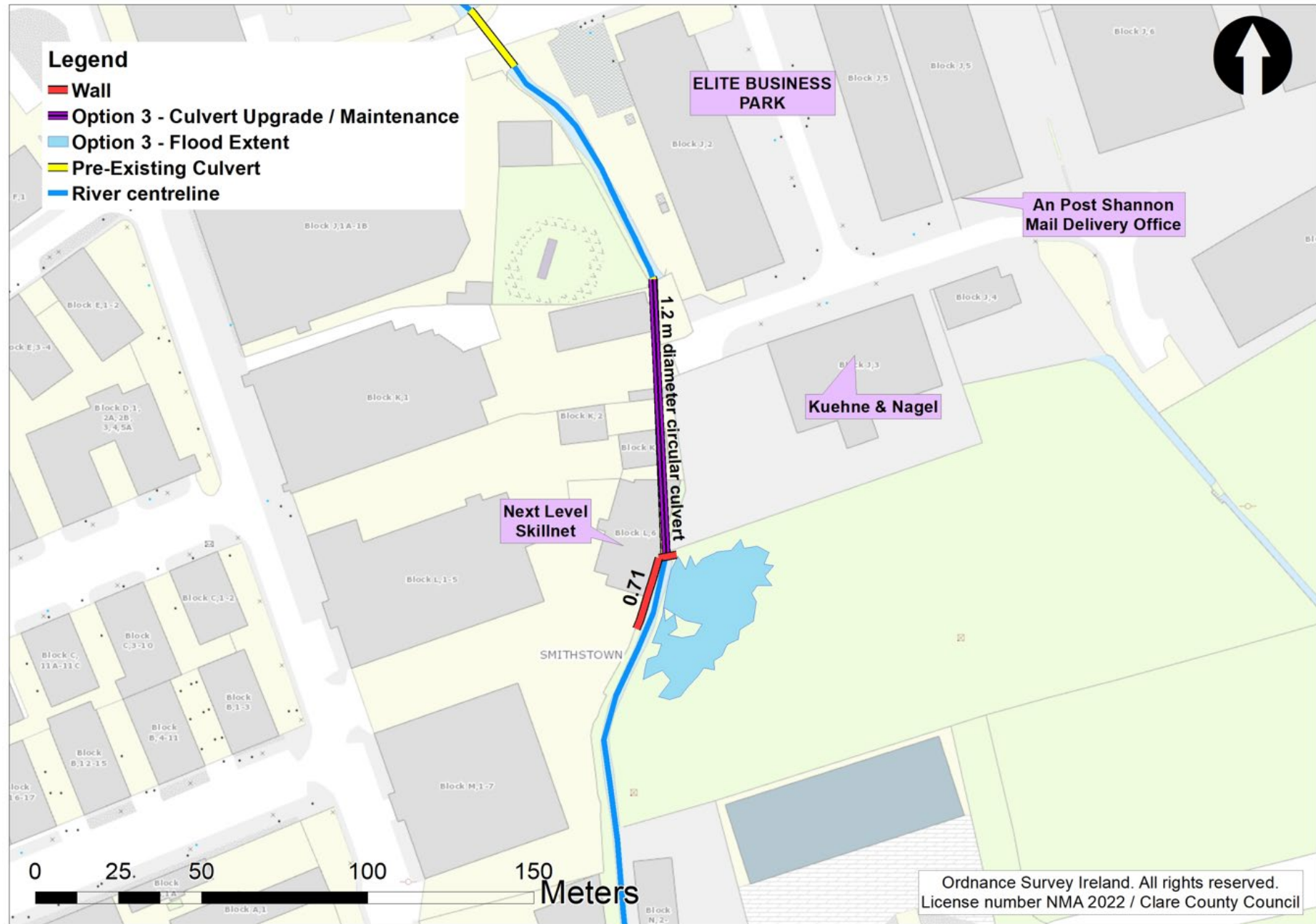
Diversion between existing Storm Water Culverts





# Emerging Preferred Option

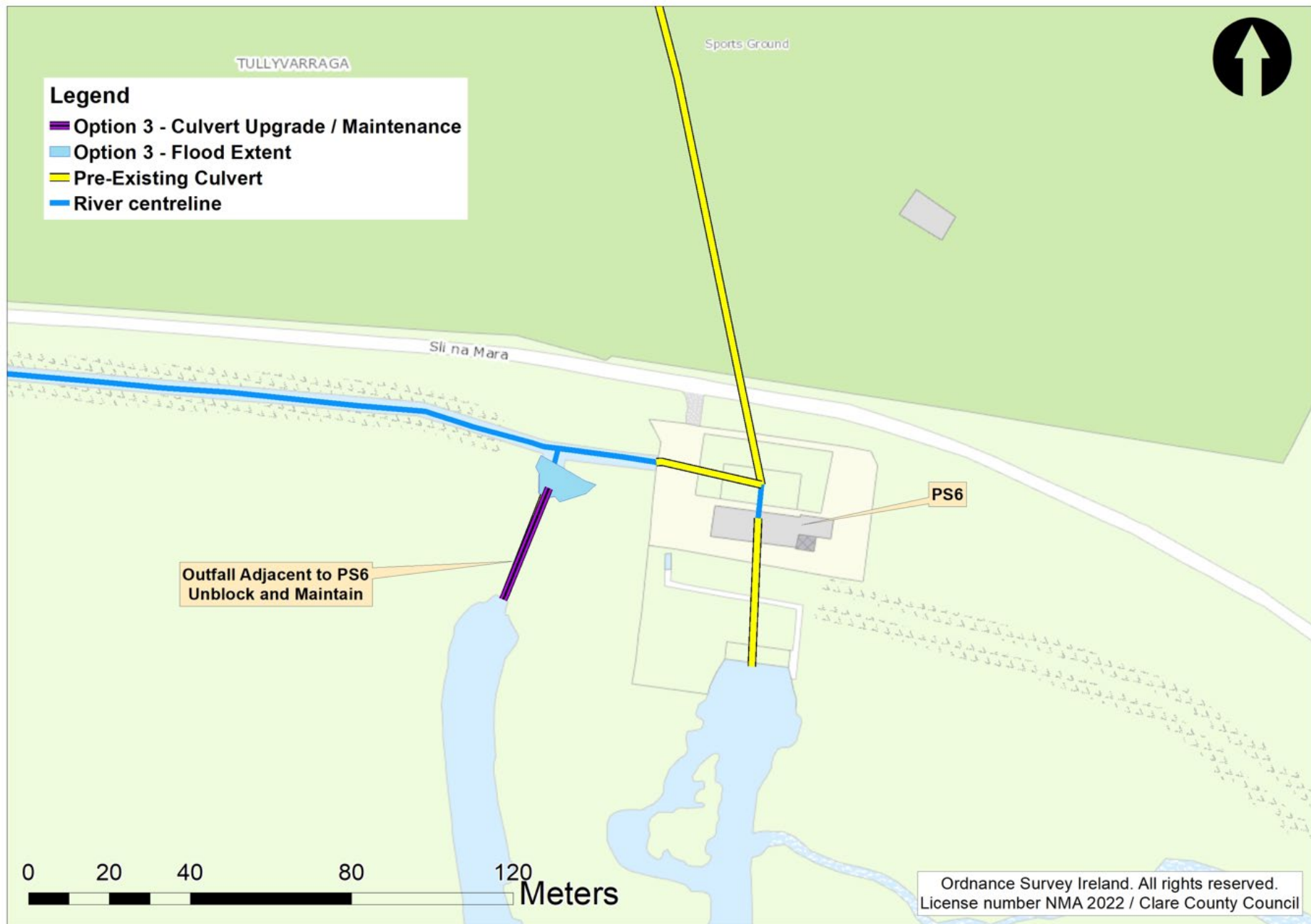
Hard Defences and  
Culvert Upgrade  
Culleen Stream



**Note:** Levels of defences refer to height above ground

# Emerging Preferred Option

Upgrade to Existing Gravity Outfall At Pumping Station 6





# Emerging Preferred Option

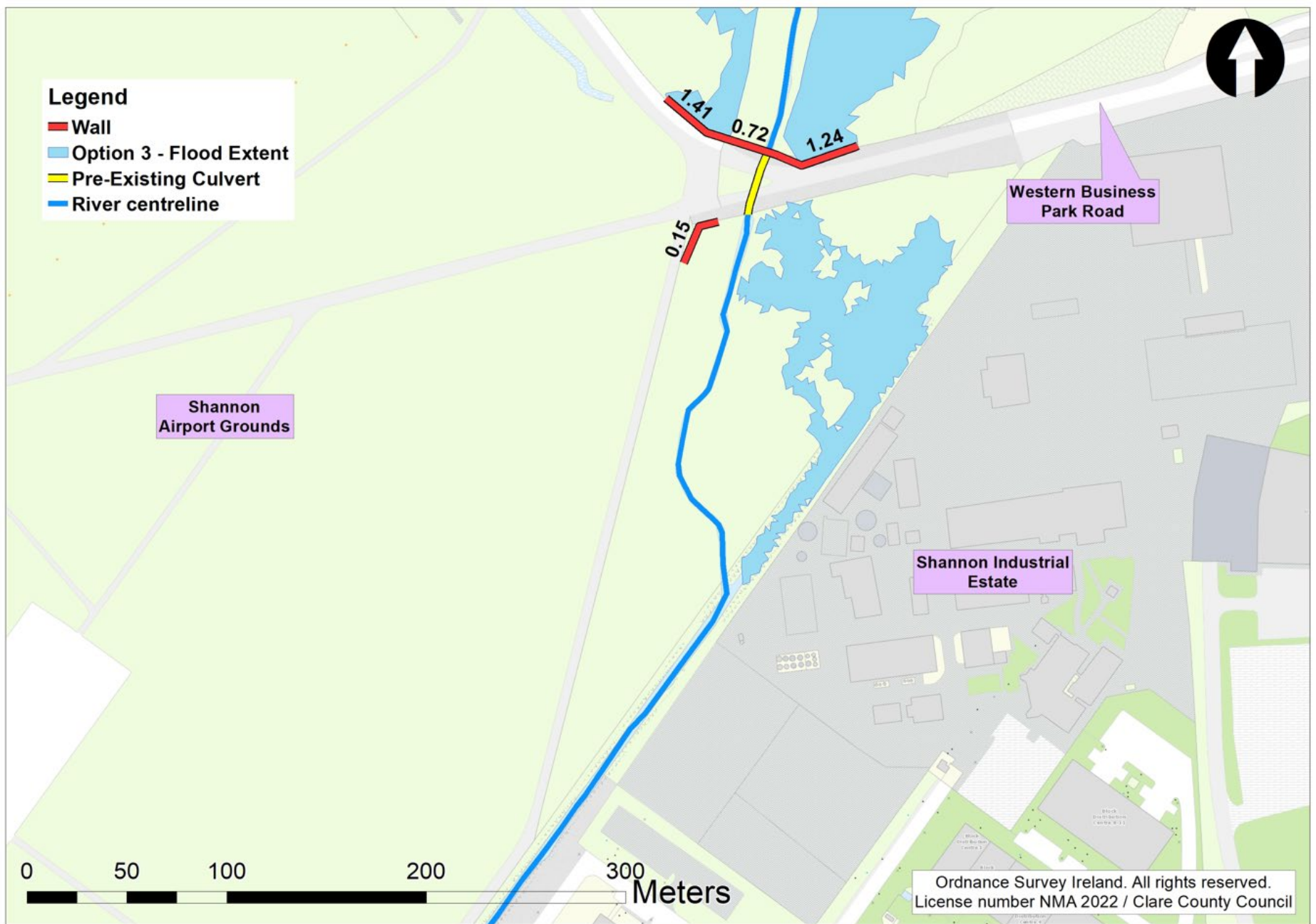
## Embankments at Mogullaan



**Note:** Levels of defences refer to height above ground

## Emerging Preferred Option

Upstream hard defences on the Urlan Beg River

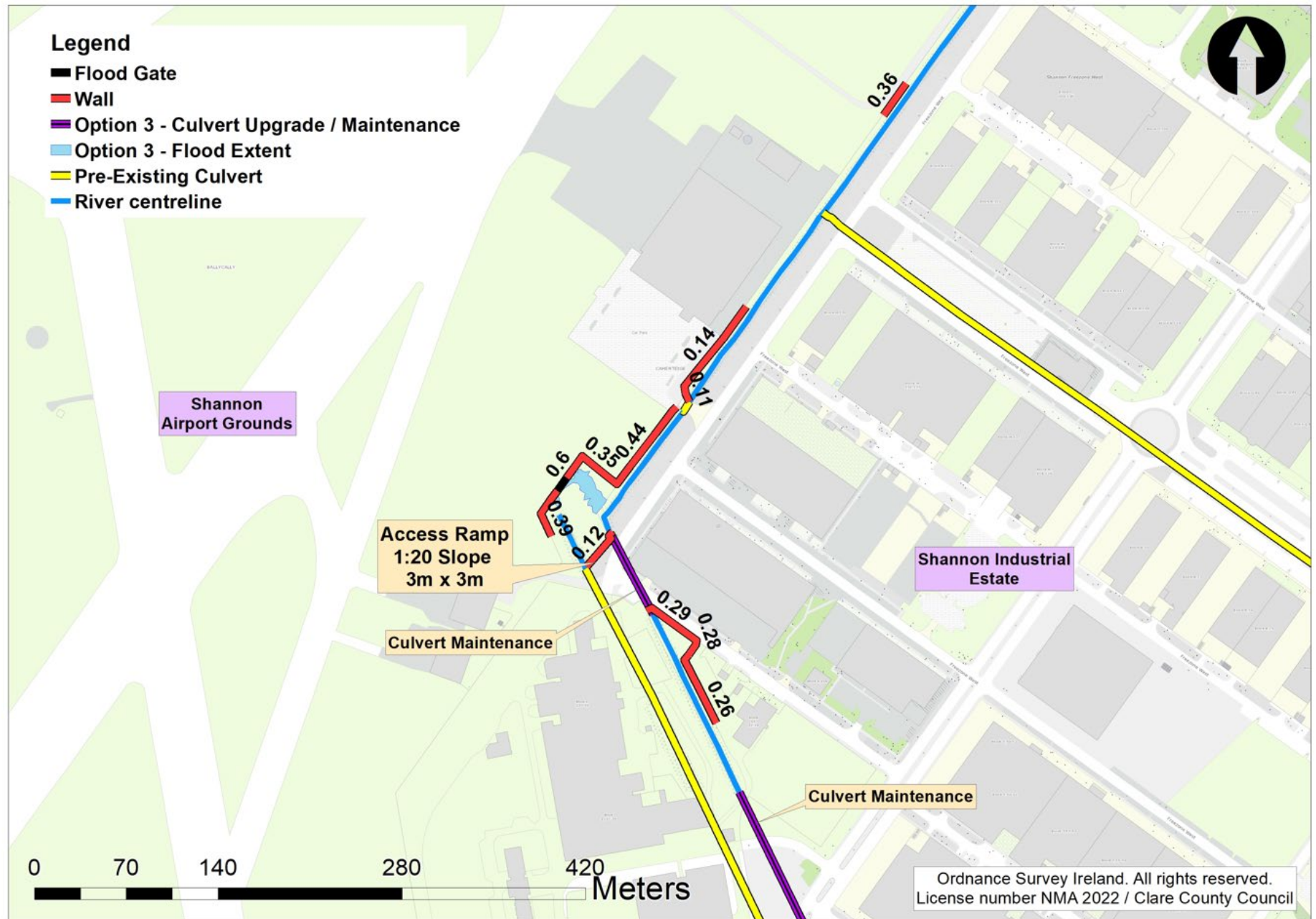


**Note:** Levels of defences refer to height above ground



## Emerging Preferred Option

Hard defences & culvert maintenance on the Urlan Beg River



**Note:** Levels of defences refer to height above ground

## Emerging Preferred Option

Culvert maintenance and diversion culvert on the Urlan Beg River - downstream





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# Shannon Town & Environs Flood Relief Scheme

## Next Steps

### Stage I: Options Assessment, Scheme Development & Design

- Finalisation of Options Selection Process
- Identification of Preferred Option
- Completion of Environmental Assessments
- Environmental Impact Assessment and Reporting (EIAR)



# Shannon Town & Environs Flood Relief Scheme

## Next Steps

### Stage II: Planning / Development Consent Process

- Public & Stakeholder Engagement
- Planning Permission
  - Planning Development Act
- CPO (if required)
- Other Statutory Processes

### Stage III: Detailed Construction Design and Tender

### Stage IV: Construction

### Stage V: Handover of Works





# Shannon Town & Environs Flood Relief Scheme

## High Level Programme

Stages	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Stage I: Option Assessment, Scheme Development and Design		Progress to date	Progress to date	Progress to date	Planned activities (Subject to Change)	Planned activities (Subject to Change)					
Stage II: Planning/Development Consent Process					Planned activities (Subject to Change)	Planned activities (Subject to Change)					
Stage III: Detailed Construction Design and Tender						Planned activities (Subject to Change)	Planned activities (Subject to Change)				
Stage IV: Construction							Planned activities (Subject to Change)	Planned activities (Subject to Change)	Planned activities (Subject to Change)	Planned activities (Subject to Change)	
Stage V: Handover of Works											Planned activities (Subject to Change)

Planned activities (Subject to Change)



Progress to date

