

Improving Places Select Commission 10th December 2024

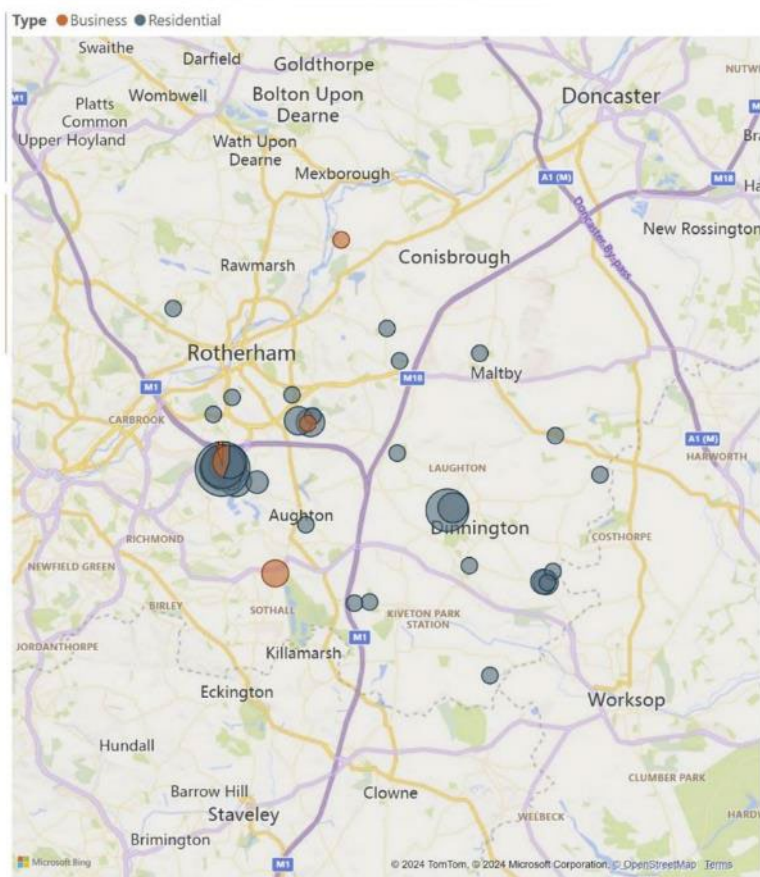
**Update on:
The Council's Flood Risk Management
works across the borough & the Six Priority
Flood Alleviation Scheme Projects**

Richard Jackson & Andy Saxton

Part A: Overview of ongoing flood risk management works across the borough

- ❖ Section 19 - Storm Babet
- ❖ Community Engagement
- ❖ Next Steps – Catcliffe
- ❖ Investigations carried out following Storm Babet
- ❖ Projects Delivered
- ❖ Planned Works
- ❖ Road Gully Maintenance
- ❖ Connected By Water

Section 19 – Storm Babet



Storm Babet in October 2023 caused widespread flooding across Rotherham.

Internal Flooding
182 properties
9 businesses

River Rother recorded its highest level on record surpassing the level recorded in 2007.

Flood Investigation Report:

<https://www.rotherham.gov.uk/water-management-flooding/flood-investigation-report-storm-babet>

Location	Residential Properties	Businesses
Catcliffe and Treeton	148	5
Whiston	11	0
Laughton Common	7	0
Other Localised Areas	16	4

Community Engagement

Community events were hosted by Rotherham Council, Environment Agency and Yorkshire Water

Drop-in Sessions

Catcliffe – 20 attendees
Whiston – 7 attendees
Dinnington – 11 attendees

Public Meeting

Catcliffe – 71 attendees

Upcoming Community Drop in Events and Public Meeting

Community Drop in event 10 th September 2024	Community is invited to meet the Council and Risk Management Authorities at drop-in sessions at Catcliffe – two planned events will be held 1st 10:00 – 16:00 and 2nd 18:00 – 21:00 – the dates will depend on the availability of the Catcliffe Memorial Hall.
Public Meeting 12 th September 2024	Followed by a Public Meeting held 18:00 - 20:00
11 th September 2024	Community is invited to meet the Council and Risk Management Authorities at drop-in sessions at Whiston Hall – two planned events will be held 1st 10:00 – 16:00 and 2nd 18:00 – 21:00 – the dates will depend on the availability of Whiston Hall.
18th September 2024	Community is invited to meet the Council and Risk Management Authorities at drop-in sessions at Dinnington – two planned events will be held 1st 10:00 – 16:00 and 2nd 18:00 – 21:00 – the dates will depend on the availability of the Lyric Theatre Hall.
Other Locations, properties with internal flooding outside the above location	If you would like to discuss any information found within the Section 19 or Community Flood information Sheet please contact via e-mail or telephone at: R&E-Drainage@rotherham.gov.uk or 01709 336003

Next Steps – Catcliffe & Treeton

Option 1

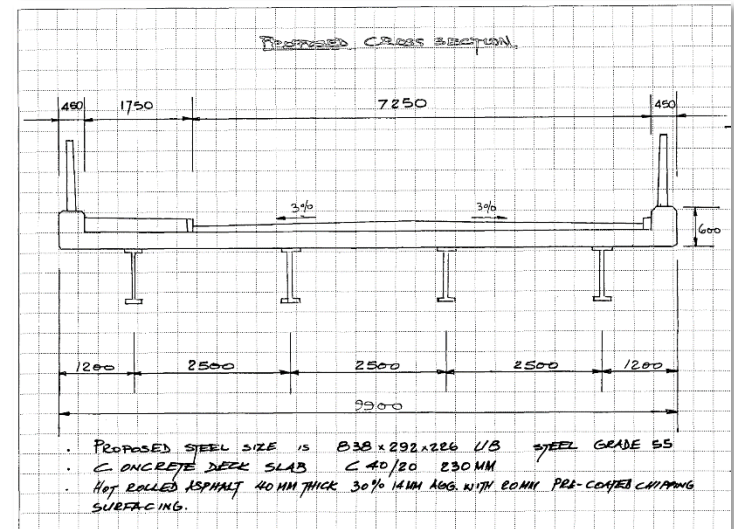
Upstream storage of storm water outside of the Rotherham catchment area to reduce peak flows of water within the River Rother.

Option 2

Increase the standard of protection defences around Catcliffe and Treeton Village.

Option 3

Alterations to the existing bridge on Treeton Lane to improve the flow path of the River Rother.

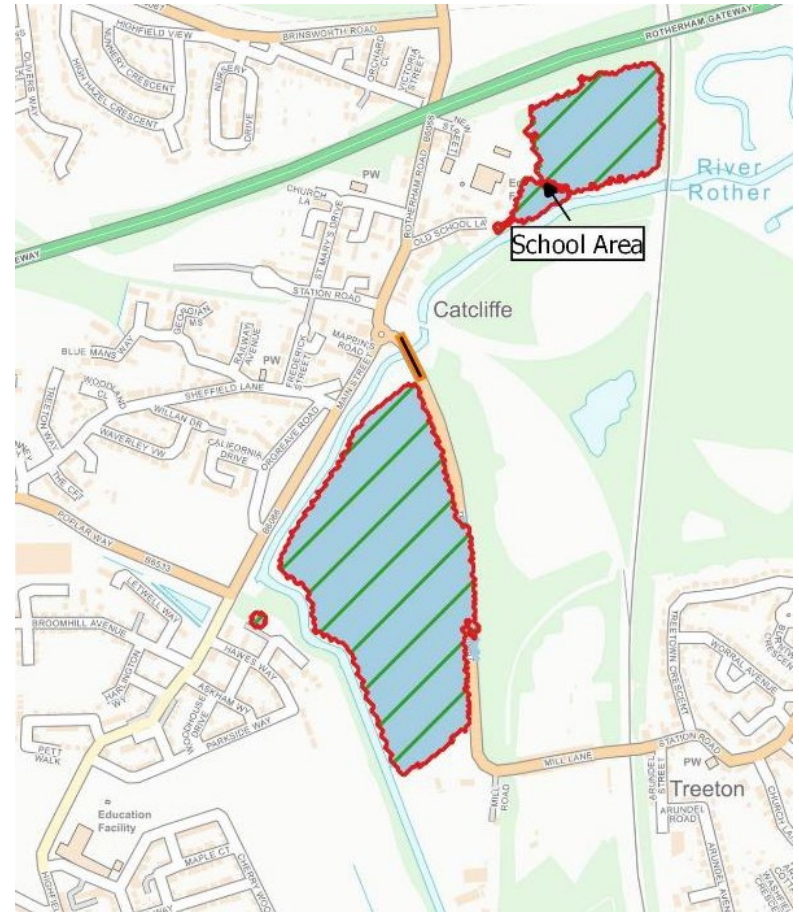


Next Steps - Catcliffe

We are looking to change the current bridge arrangement to improve the flow of the River Rother.



Existing bridge



New bridge arrangement

Investigations carried out following Storm Babet

Street	Area	Completed Works
Hoades Avenue	Woodsetts	On-going design into additional attenuation in northern field. Culvert is on the replacement program.
Bawtry Road	Brinsworth	Works with Yorkshire are on going to rectify the issue – new trash screen installed on culvert and large blockage removed.
Gildingwells Road	Woodsetts	Working with Council housing, surface water flooding from fields at the rear.
Lamb Lane	Firbeck	The Council is currently designing a scheme to increase the existing drainage assets within the area.
Common Road	Thorpe Salvin	Installation of new land drain, culvert has been placed on the replacement program.
Henderson Court	Canklow	Fully investigated, surface water run-off from existing field due high saturation levels in 2023.
Mulberry Road	North Anston	Tree roots had fully blocked the highway drain. All roots have now been removed by a specialist contractor and the highway drain is free flowing.
Katherine Road	Thurcroft	Installation of one additional road gully and one footpath gully.
Sandbergh Road	Kimberworth Park	Full investigation has been carried out – highway drainage was heavily silted, full cleansing works have been carried out.
Horseshoe Lane	Stone	Full scheme designed
Limetree Avenue	Kiveton Park	Full investigation has been carried out – the existing road gullies have been added to the critical program for cleansing.
Moor Lane North	Ravenfield	Severn Trent Water have carried out works outside the property to reduce the risk of flooding.
Shorland Drive	Treeton	Installation of new Highway Drain / Overflow System.

Projects Delivered

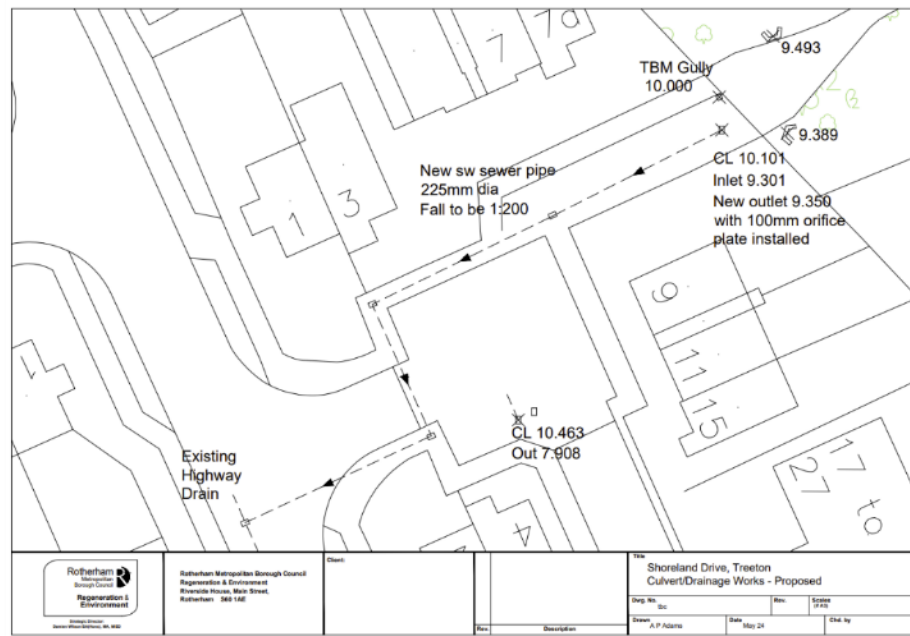
Following approval for additional funding to reduce surface water flood risk – the following schemes have been completed this year.



Shoreland Drive, Treeton

New surface water overflow to existing system to reduce flooding to 8 residential properties.

Projects Delivered



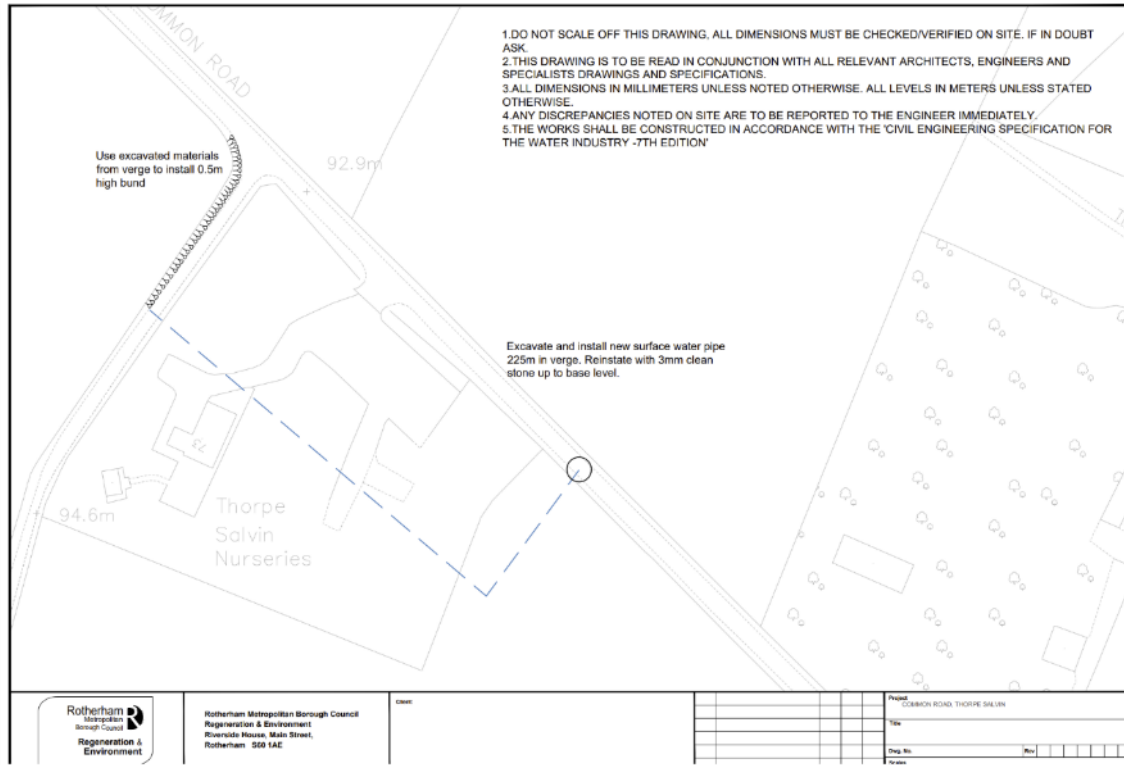
Projects Delivered

Common Road, Thorpe Salvin

Installation of a new land drain and clay bund to reduce surface water run-off from the surrounding fields. Reducing the flood risk to 1 property and highway.



Projects Delivered



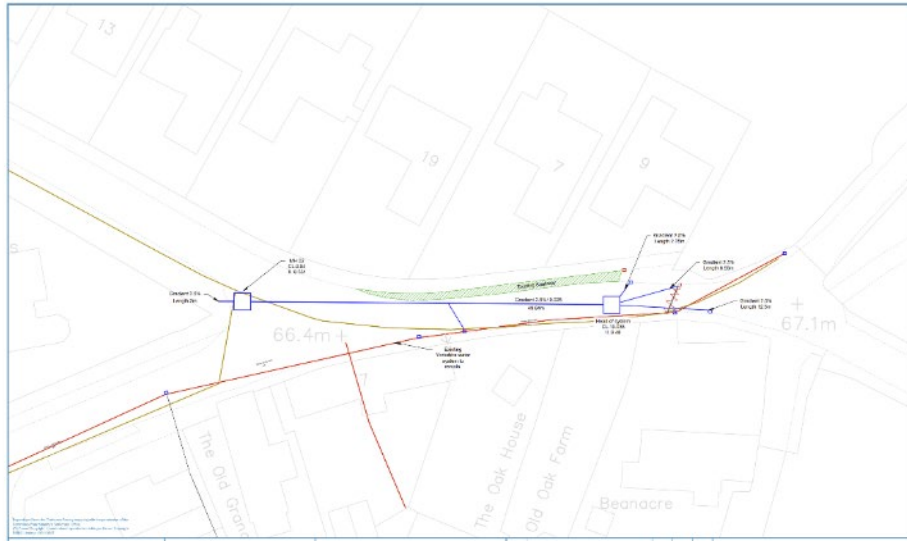
Projects Delivered

School Lane, Thrybergh

New highway drain to reduce flooding to carriageway and adjacent properties. 2 properties suffered internal flooding in 2023.



Projects Delivered



Projects Delivered

Toad Lane, Brampton en le Morthen

Remedial/improvement works to surface water sewer and associated works to drainage ditch, to reduce carriageway ponding and improve outfall.



Projects Delivered

Goosecarr Lane, Todwick

New gully in footway to eliminate surface water ponding for pedestrians and cleansing of the existing watercourse.



Planned Works

Rockingham Road, Swinton

Proposed new separate surface water Highway Drain. Removing Highway surface water from YW public sewers & creating new separate system, in order to reduce flooding/overloading existing system.

Main Street, Aughton

Proposed improvements to existing surface water Highway Drain ie damage due to tree root infestation, collapsed pipes. Scheme involves upsizing pipes to provide more surface water capacity.

New Road, Firbeck

New manhole & associated surface water sewer to reduce flooding to properties.

Recreation Road, Wath

Scheme to construct bunding to perimeter of Brook Dyke and install one way valves on gullies/manholes in order to contain flood water.



Road Gully Maintenance

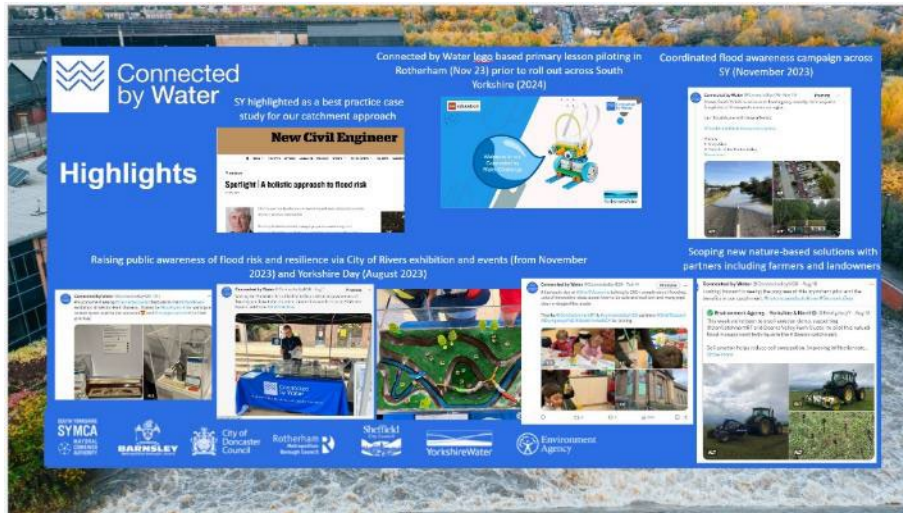
The team continue to map and cleanse all road gullies within the programme, and we anticipate that all road gullies will be mapped by March 2025.



Information collected –

- Location
- Silt levels
- Defects
- Date and time last cleansed
- Frequency of cleansing

Connected By Water



The flooding in November 2019 provided the catalyst for the creation of the alliance and for the first Connected by Water Action Plan. One of the wettest autumns on record led to unprecedented river levels, and widespread flooding across South Yorkshire. Leaders in the region came together to develop an ambitious new flood risk programme for South Yorkshire and to make the case for significant funding. This was the beginning of Connected by Water.

<https://www.youtube.com/watch?v=GQbw2lrlBxo>



Highlights include:

- Improved partnership working.
- Dedicated resources to look at catchment approach to flood risk.
- Improved community engagement.

Part B: Progress Update on the Six Priority Flood Alleviation Scheme Projects

- ❖ Six Priority Flood Alleviation Schemes
- ❖ Surveys and Landowner Engagement
- ❖ Rotherham Renaissance Flood Alleviation Scheme
- ❖ Parkgate & Rawmarsh Flood Alleviation Scheme
- ❖ Whiston Brook Flood Alleviation Scheme
- ❖ Eel Mires Dike Flood Alleviation Scheme
- ❖ Catcliffe Pumping Station
- ❖ Culvert Renewal Programme
- ❖ Questions

Six Priority Flood Alleviation Schemes

The Council are currently progressing the designs of 6 Priority Flood Alleviation Schemes (FAS) to help reduce the risk of flooding to homes, businesses and infrastructure around the borough. The six projects are:

- ❖ **Rotherham Renaissance Flood Alleviation Scheme** (alleviating flooding from the River Don to Rotherham Town Centre, Parkgate and Kilnhurst)
- ❖ **Parkgate & Rawmarsh Flood Alleviation Scheme** (reducing the risk of flooding from watercourses through Rawmarsh and Parkgate)
- ❖ **Whiston Brook Flood Alleviation Scheme** (to alleviate flooding from Whiston Brook and surface water in Whiston)
- ❖ **Eel Mires Dike Flood Alleviation Scheme** (to reduce the risk of flooding from watercourses in Laughton Common)
- ❖ **Catcliffe Pumping Station** (to replace the Council's portable surface water pumping operation in Catcliffe)
- ❖ **Culverts Renewal Programme** (to improve existing culverts to reduce the risk of flooding)

Surveys and Landowner Engagement

Surveys and Investigations

Survey work are continuing for all of the 6 Priority Flood Alleviation Scheme projects, which includes Environmental, Bathymetric, Topographical and GPR (Ground Penetrating Radar).

These surveys have all allowed a clearer understanding of conditions on the multiple sites and are being used to establish both the extent, scale and size of each project, the detailed design and diversions of utilities.



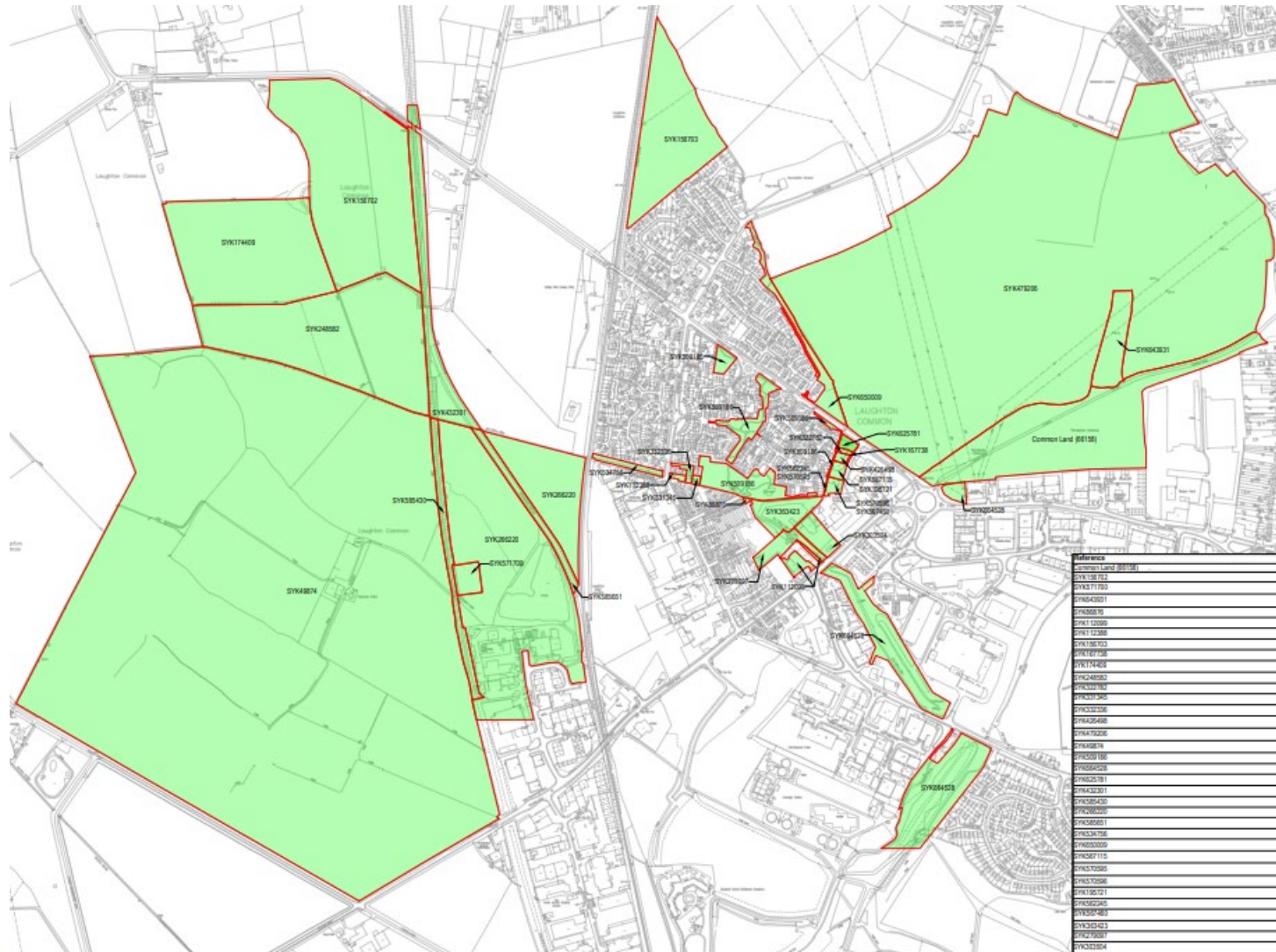
Stakeholder and Landowner Engagement

Stakeholder and landowner engagement is ongoing for all of the 6 Priority Flood Alleviation Scheme projects. This engagement includes organising land access for surveys, discussion of planned works and discussion regarding land purchase.

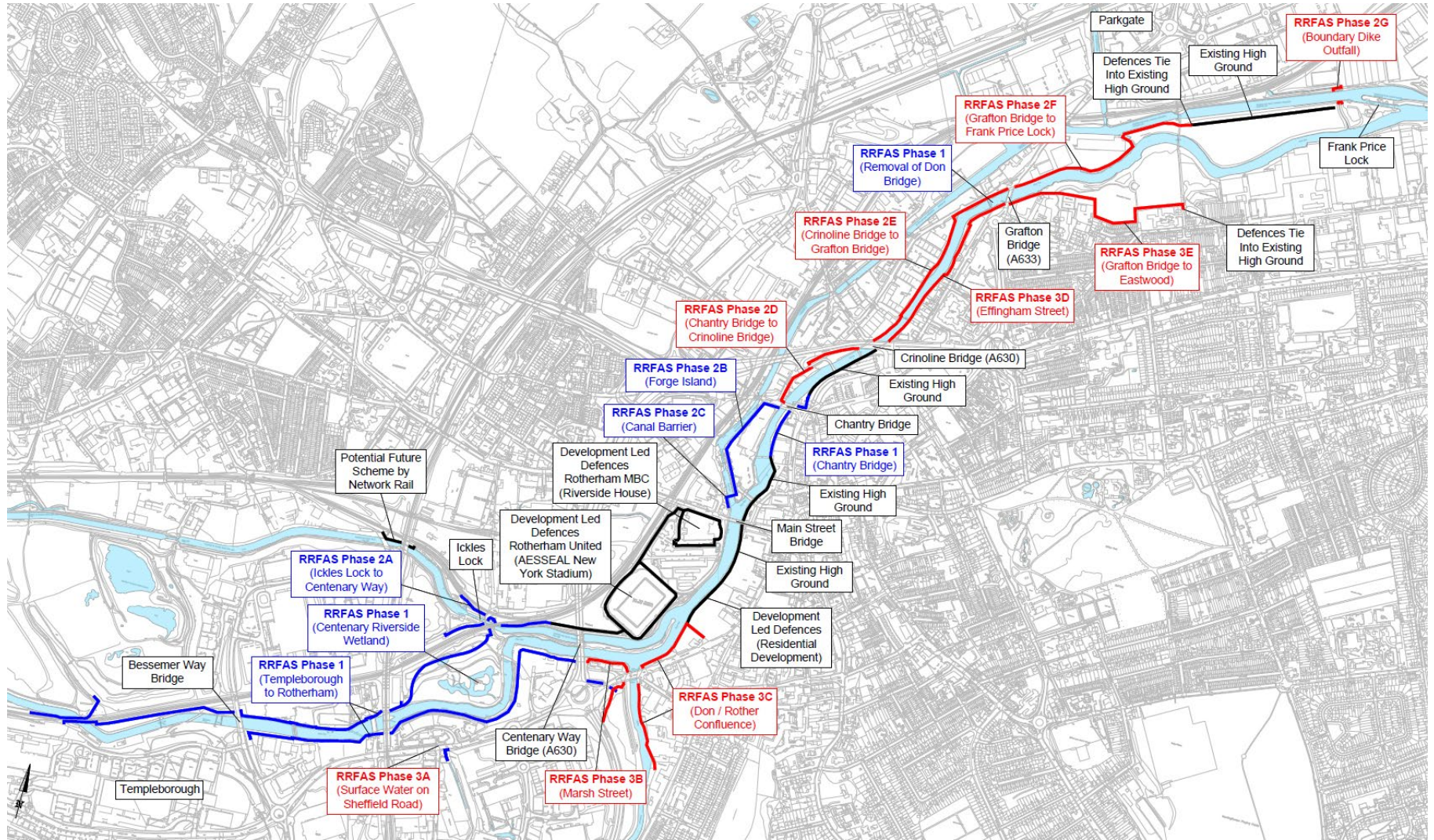
These stakeholders include private residents, businesses and related organisations.

Landowner Engagement

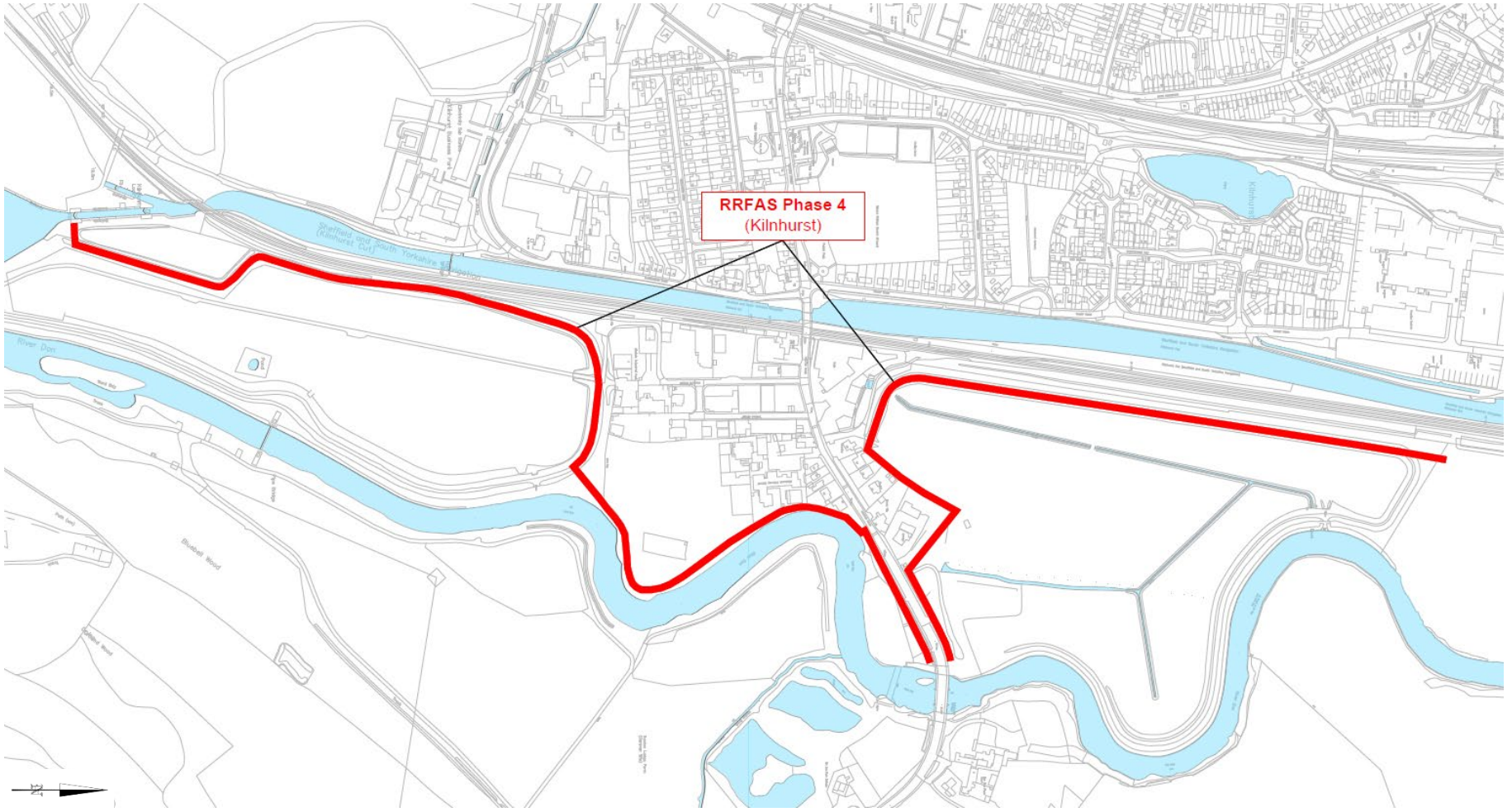
This illustrates the number of landowners we are having to liaise with for one of our projects.



Rotherham Renaissance FAS

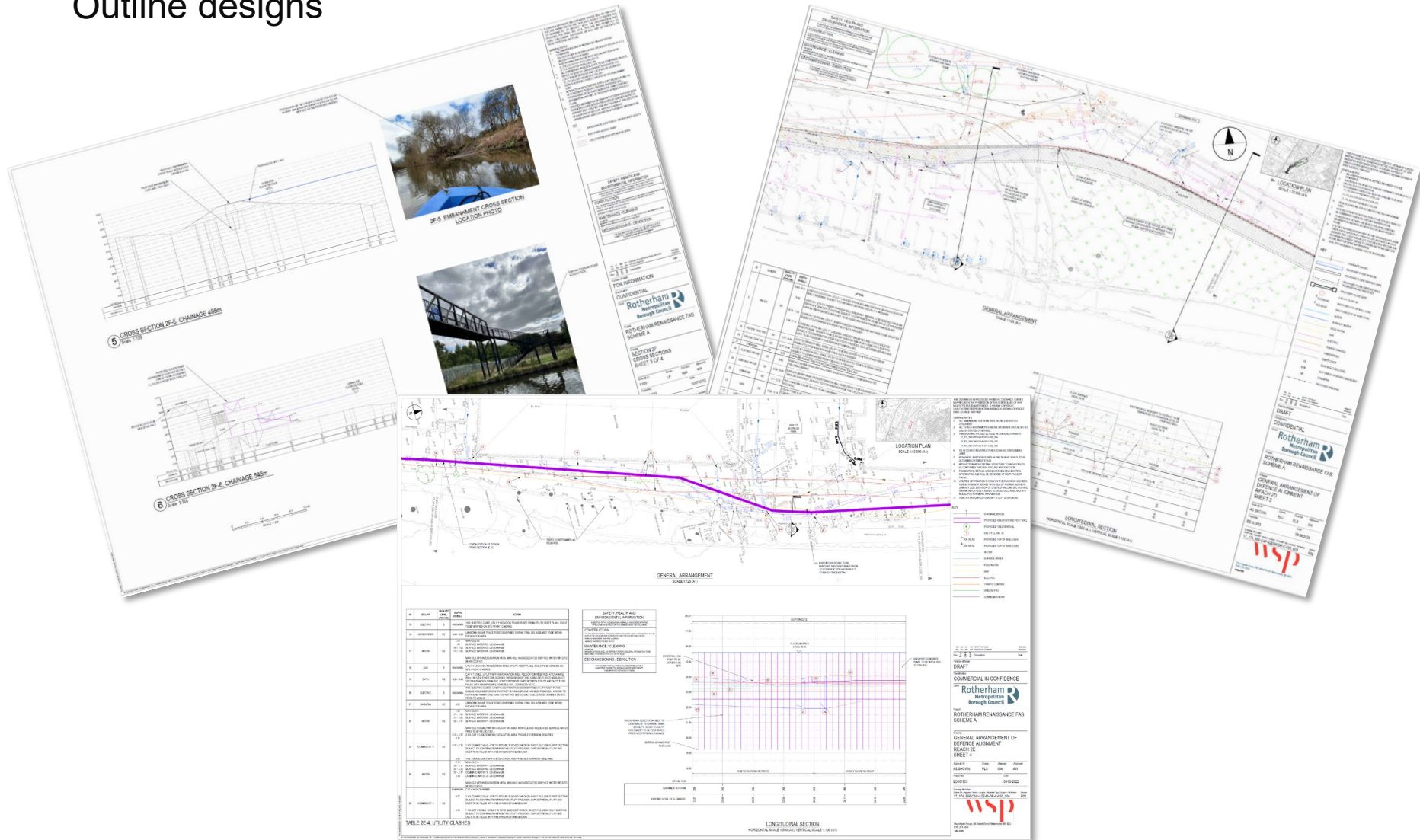


Rotherham Renaissance FAS

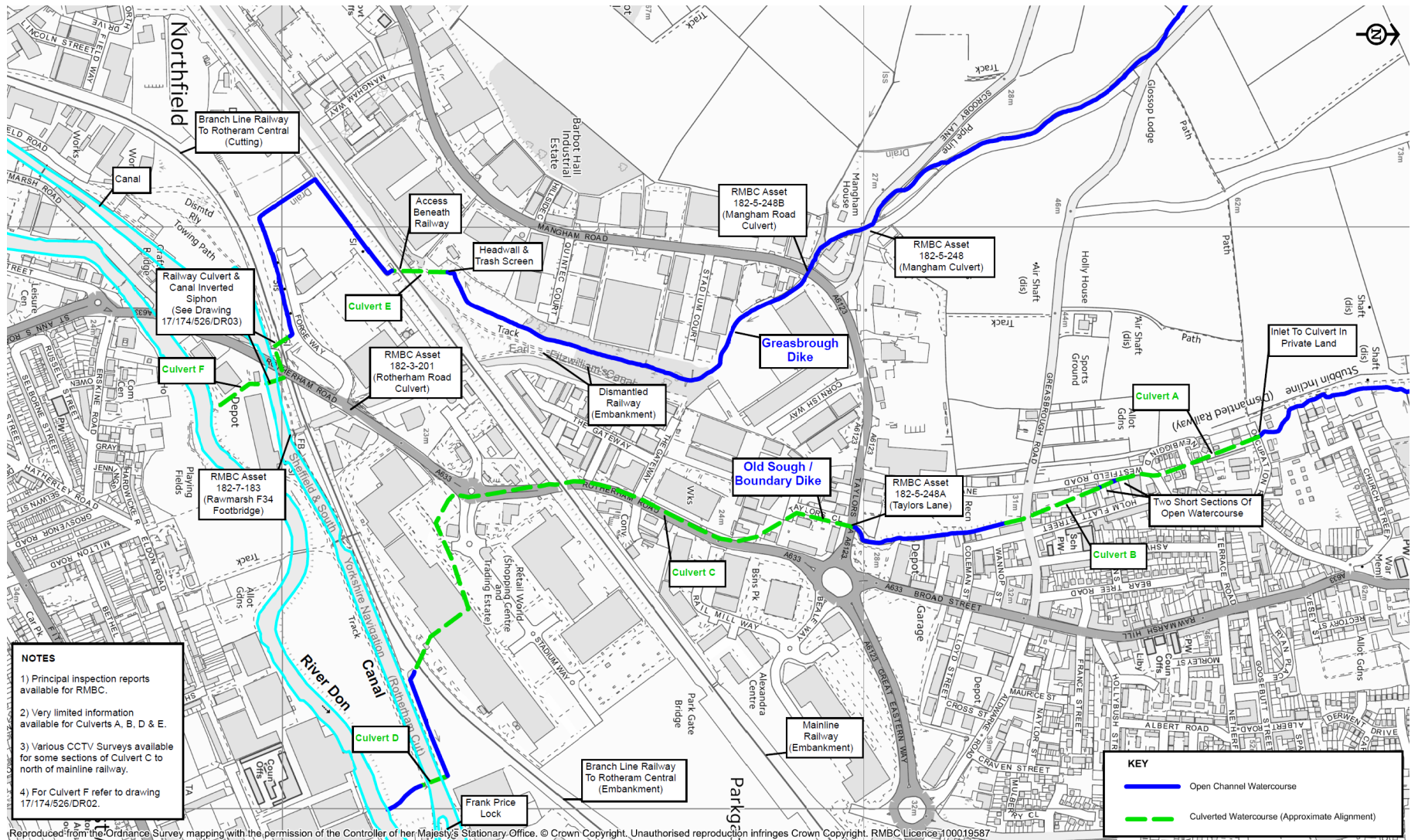


Rotherham Renaissance FAS

Outline designs

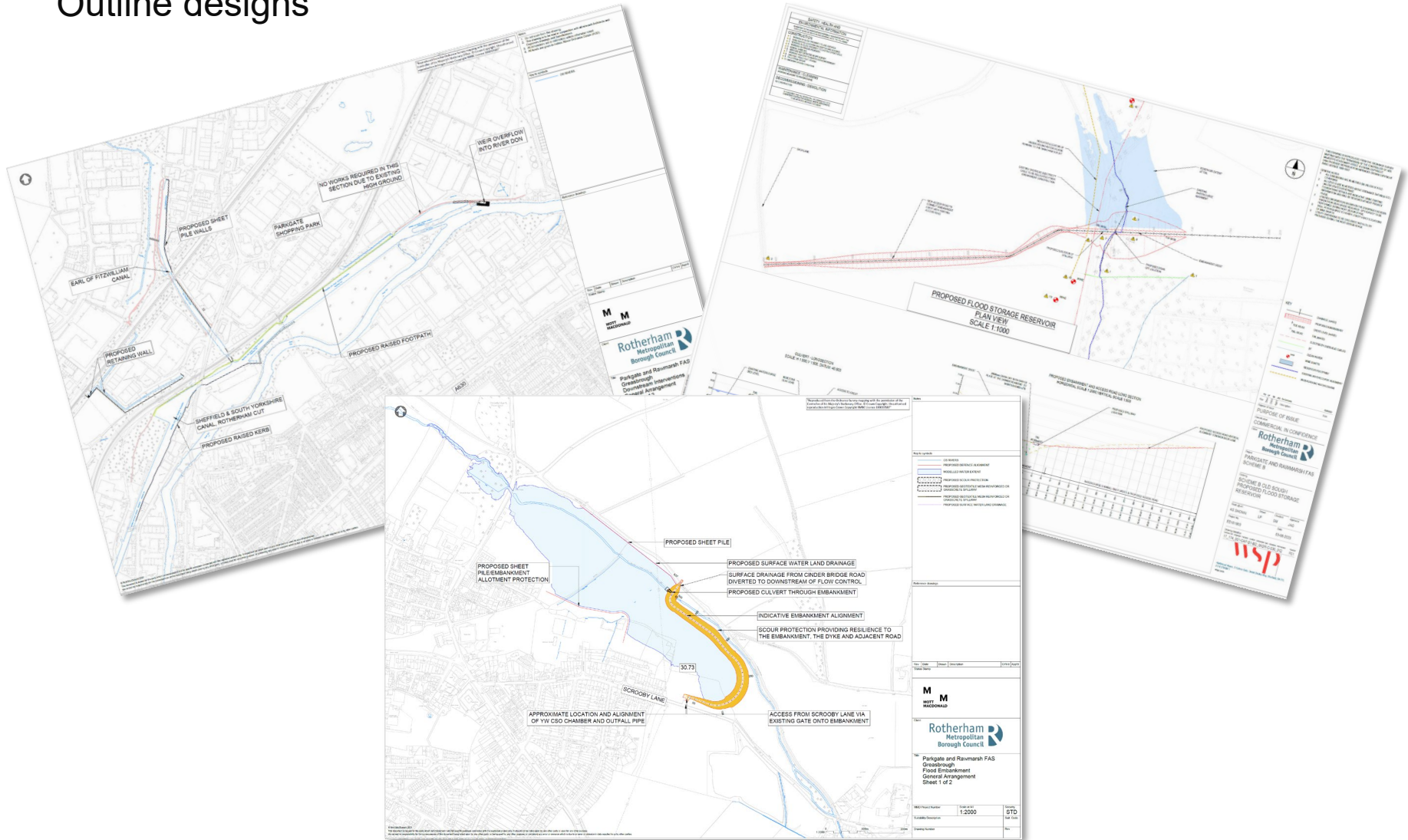


Parkgate & Rawmarsh FAS



Parkgate & Rawmarsh FAS

Outline designs



Whiston Brook FAS



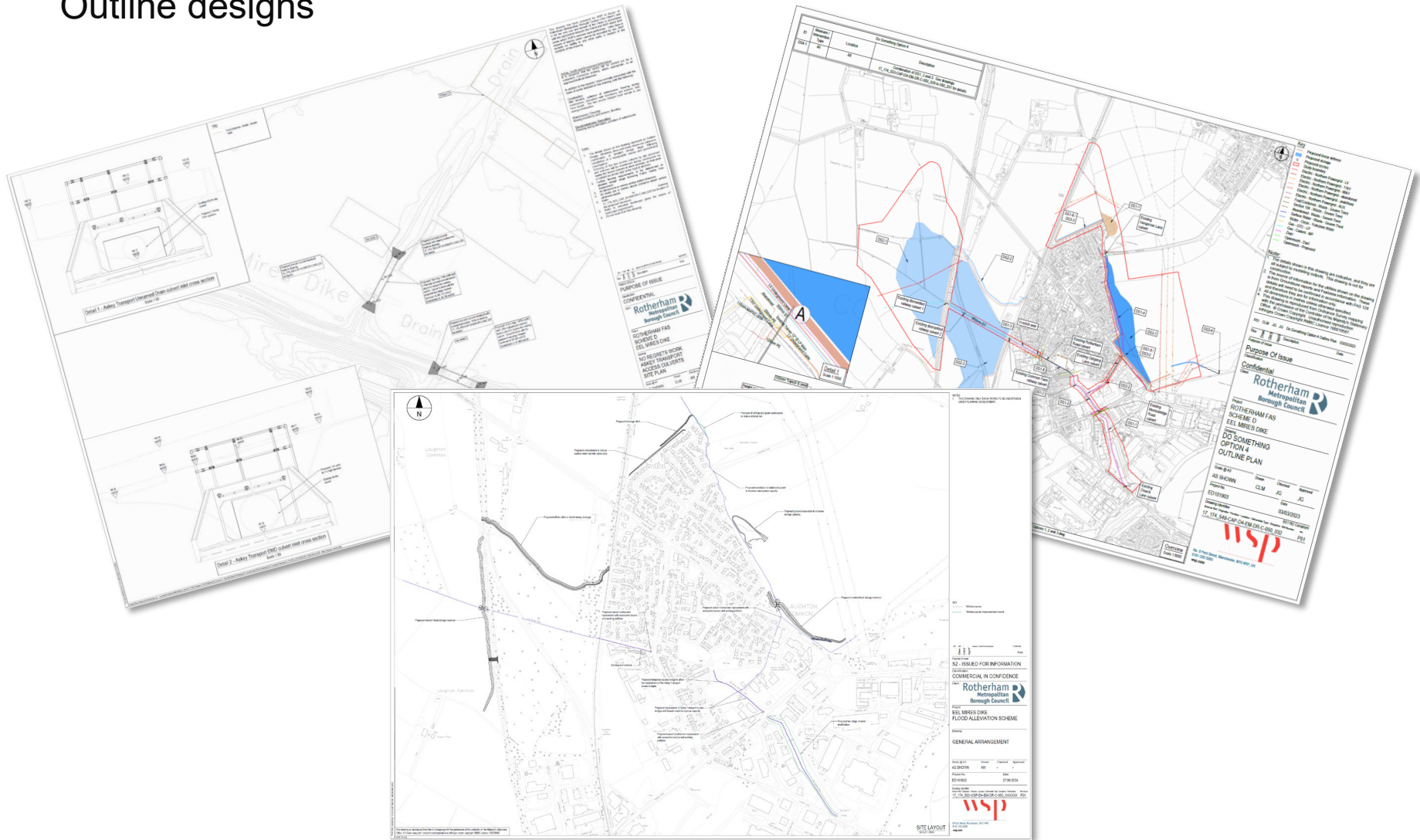
Public Engagement

In November, we invited residents to give their views on the plans for the Whiston Brook Flood Alleviation Scheme during two drop-in sessions which took place at Whiston Parish Hall.

The feedback from the event will help during the planning process and improve to the design of the scheme.

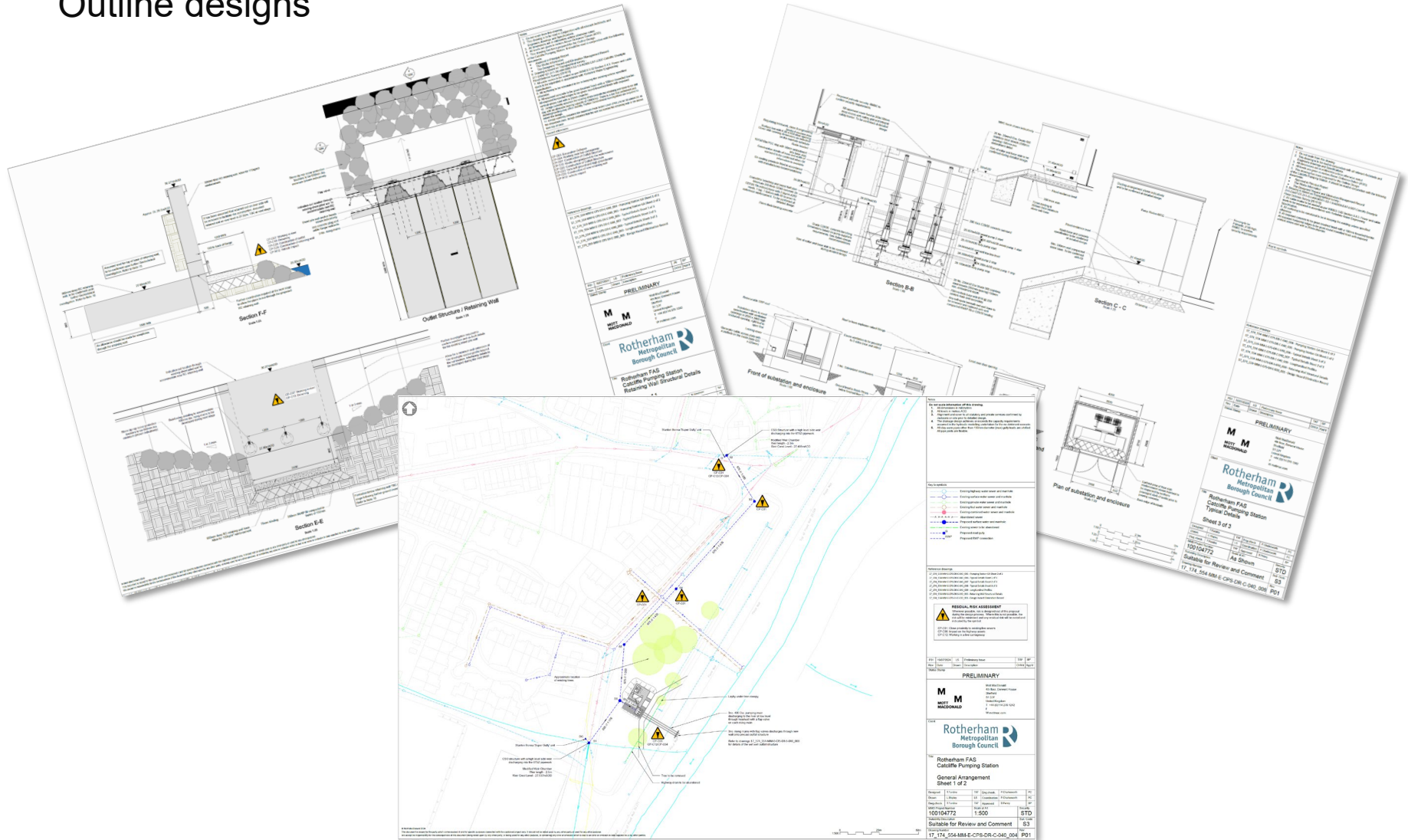
Eel Mires Dike FAS

Outline designs



Catcliffe Pumping Station

Outline designs



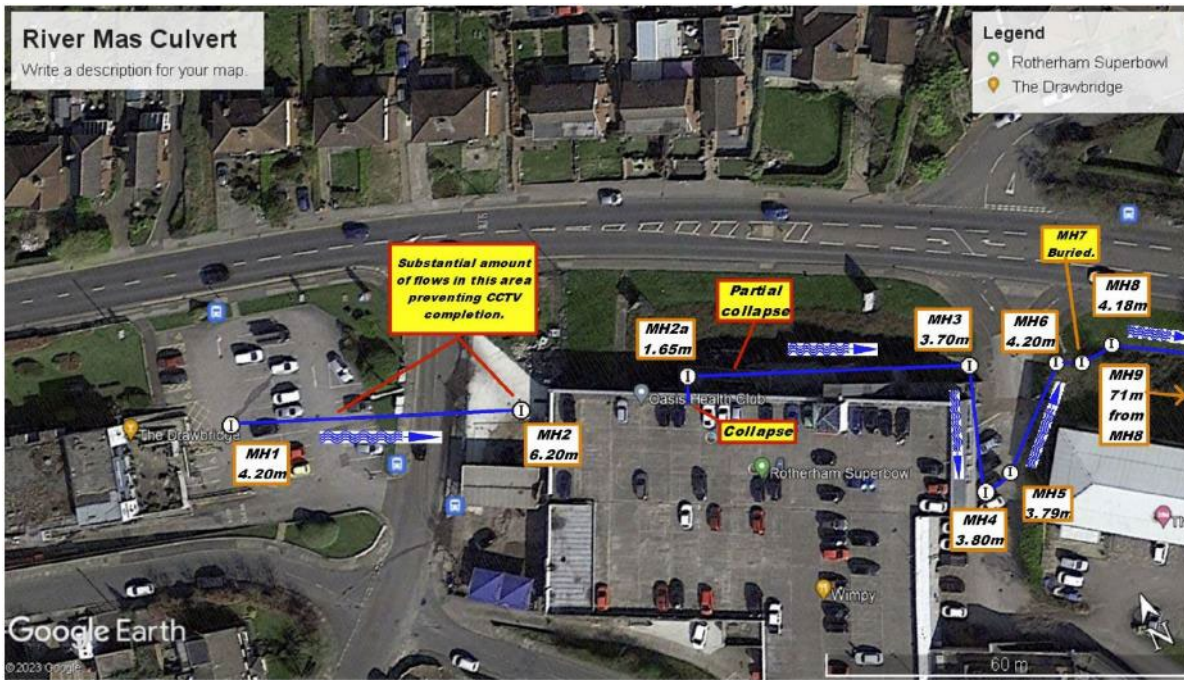
Culvert Renewal Programme

Name	Address	Ward
Herringthorpe Valley culvert	Herringthorpe Valley Road, Herringthorpe	Sitwell Ward
River Mas culvert	Wortley Road, Kimberworth	Rotherham West Ward
Church Lane culvert	Church Lane, Ravenfield	Bramley & Ravenfield Ward
Moor Lane South culvert	Moor Lane South, Ravenfield	Bramley & Ravenfield Ward
Ickles Goit culvert	Off Fullerton Road, Templeborough	Boston Castle Ward
Chapel Flat Dyke culvert	Sheffield Road, Templeborough	Boston Castle Ward
Thorpe Hesley culvert	Brook Hill, Thorpe Hesley	Keppel Ward
Sough Hall Avenue culvert	Sough Hall Avenue, Thorpe Hesley	Keppel Ward
Todwick culvert	Goosecarr Lane, Todwick	Aston & Todwick Ward
Bondhay Dyke	Common Road, Thorpe Salvin	Anston & Woodsetts Ward
Collier Brook	Kilnhurst Road, Kilnhurst	Rawmarsh East

Culvert Replacement Programme

River Mas – Kimberworth

CCTV footage found a full collapse under Superbowl. The culvert is 6.2m deep at this location, designs are currently being carried out to re-route to culvert around the business.



Full Collapse



Partial Collapse

Questions



Questions?

