

RHONDDA CYNON TAF COUNTY BOROUGH COUNCIL

CABINET

21st MARCH 2022

HIGHWAYS, TRANSPORTATION AND STRATEGIC PROJECTS
SUPPLEMENTARY CAPITAL PROGRAMME 2022/23

**REPORT OF THE DIRECTOR OF FRONTLINE SERVICES IN DISCUSSION WITH
THE LEADER OF THE COUNCIL, CLLR A MORGAN**

Author: Roger Waters, Director Frontline Services.

1 PURPOSE OF THE REPORT

- 1.1 Further to the approval of the Council's Three-Year Capital Programme 2022/23 - 2024/25 on 9th March 2022 at Council, this report sets out the detailed capital programme for Highways, Transportation and Strategic Projects.

2. RECOMMENDATIONS

It is recommended to:

- 2.1 Note and approve the Supplementary Capital Programme for Highways, Transportation and Strategic Projects as detailed within this report.
- 2.2 Note that the current allocations are part of a 3-year capital programme and delegate authority to the Director of Frontline Services, in consultation with the Leader of the Council and the Director of Finance and Digital Services, to extend activity to deliver additional projects during the financial year, where capacity exists for accelerated delivery in accordance with the purpose of the wider programme, or to suspend programmes/projects and reallocate funding to optimise delivery.

3 BACKGROUND

- 3.1 This report has been developed to identify commitments for RCT capital funding. The programme is impacted by a number of external factors that cannot be fully assessed at this time and this relates to both physical issues and funding.
- 3.2 COVID19 may again impact on our ability to deliver projects and programmes. Construction activity has continued to be sanctioned by Government and has evolved and adapted in the face of social distancing challenges, supply chain issues and workforce availability. Despite these challenges, good progress has been made through 2021/22 in most areas and it is anticipated that impacts will continue to recede in the coming year.
- 3.3 Projects will again be reviewed on a case-by-case process around deliverability

and risk; flexibility to suspend individual projects and commit resources to other projects within a programme will be key.

- 3.4 The unprecedented floods of February 2020 continue to dominate forward programmes of work in repairing and upgrading our infrastructure including bridges, roads, culverts, retaining walls, together with numerous landslides and ongoing legacy issues related to former coal tips.
- 3.5 Commitments have been made to providing funding to replace and upgrade this infrastructure, much of which will need to meet new expectations around flood events. Substantial grants have been secured during the previous two financial years, some of which will continue into 2022/23 and beyond.
- 3.6 The previous 2 years programmes included significant flexibility to switch resources, and this has enabled the Council to continue to deliver significant infrastructure improvements against the backdrop of uncertainty due to the unprecedented situation regarding storm events, funding, supply chain issues, cost escalation and COVID19. Continued flexibility within the envelope of pre-approved schemes enables resources to be re-aligned to maximise opportunities to deliver projects and draw down grants in the best interests of RCT.
- 3.7 This report considers the detail against the specific 2022/23 capital allocations of £11.203M in favour of Highways Technical Services and £15.162M in favour of Strategic Projects, in order to safeguard the long-term integrity of the highways and transportation network and to enhance the network to deal with evolving travel demands. Specific regard is given to promoting safer and more sustainable travel and to enabling economic activity. Detail for consideration is submitted under the following areas;
 - Highways Improvements
 - Land Drainage/Flood Risk Improvements
 - Traffic Management
 - Car Parks
 - Transportation Infrastructure
 - Making Better Use Programme (MBU)
 - Unadopted Roads
- 3.8 The Council has submitted bids for Welsh Government Grants for transport projects related to;
 - Road Safety (Capital and Revenue)
 - Safe Routes in the Community
 - Local Transport Fund (including Active Travel and Resilient Roads)
- 3.9 The Council continues to be heavily engaged in the Cardiff Capital Region City Deal, supporting the £734M allocated to Metro, a significant proportion of which will deliver electrification of the Treherbert, Aberdare and Merthyr rail lines with 4 trains per hour to the top of each line, now programmed for completion in 2024.
- 3.10 Progress is also being made on the £50M Metro Plus Programme, which will deliver a new transport hub at Porth. The Cardiff Capital Region Transport Authority (CCRTA) has bid for funding towards development of a potential second phase of Metro Plus, within which, consideration is being given to

extending rail services beyond Aberdare to Hirwaun.

3.11 During the 2021/22 Financial Year, significant sums of grant funding have been secured via the Regional Local Transport Fund allocation. Studies have progressed related to;

- North West Cardiff – RCT Rail Corridor
- Aberdare to Hirwaun Rail Service extension
- New Station Treforest Estate
- Strategic Park and Ride – Taffs Well/Treforest area
- Mid Valleys Connectivity (including potential rail extension Treherbert – Tynewydd)
- Ultra-Low Emission Vehicles (ULEV) Funding

These projects are the subject of grant applications via the CCRTA for continued development during 2022/23. A contract has been let to provide over 30 pairs of electric vehicle charging points across RCT. Options to extend this are under review. 5 fully accessible electric taxis are now operational across RCT on a free “try before you buy” trial with taxi operators, supported by dedicated EV charge points. Further work is ongoing to establish a car club across the region utilising electric vehicles.

4 SUPPLEMENTARY CAPITAL PROGRAMME

4.1 Highways Improvements

4.1.1 The Highways Network represents the most significant asset of the Council, valued in excess of £3.4Bn and comprises of carriageways, footways, structures (bridges, retaining walls, culverts, etc.), street lighting, traffic signals and signs, safety barriers, highway drainage, etc.

4.1.2 The network has now benefitted from eleven years of enhanced levels of investment, and this will continue into 2022/23.

4.1.3 The total allocation of capital resources for the Highways Improvement Schemes, as included in the Capital Programme for 2022/23, is £11.203M and is broken down into works packages in the table below. This includes previously reported slippage of £3.898M of Highway & Parks Structures funding. Spending plans for this programme of works are detailed in this report.

Work Area	£M
Carriageways	3.663
Footways	0.437
Unadopted Roads	0.500
Structures	5.650
Parks Structures	0.548
Street Lighting	0.200
Traffic Management	0.160
Car Parks	0.045
Total	11.203

- 4.1.4 Carriageways;** A programme of identified carriageway resurfacing and surface treatment to the value of £3.663M will be funded in 2022/23. A pool of schemes has been previously approved and a further £3.263M proposed schemes to be added to this pool are listed in Appendix 1. The actual schemes to be implemented in 2022/23 will be drawn from the approved pool based on officer prioritisation and deliverability constraints. These identified schemes will be supplemented by £0.300M to carry out minor surface repairs (larger patches), £0.05M of essential repairs to be identified by officers throughout the period, £0.05M of drainage works, making up the allocated £3.663M.
- 4.1.5 Footways;** are considered to be a high risk to the Council. An identified programme of resurfacing and surface treatment to the value of £0.437M will be funded in 2022/23. A pool of schemes has been previously approved and this will be supplemented with the list of footway schemes included at Appendix 1. The actual schemes to be implemented in 2022/23 will be drawn from this pool based on officer prioritisation and deliverability constraints.
- 4.1.6 Unadopted Roads;** Building on the funding allocated in 2021/22, together with Welsh Government grant, a further £0.500M is allocated to unadopted roads to enable more streets to be made up to adoptable standards and formally adopted as highways maintainable at public expense. The list of streets proposed to be made up is included at Appendix 1.
- 4.1.7 Street Lighting;** An ongoing programme of column replacement and a replacement of the Council's network of supply cables is proposed with a proposed budget allocation of £0.200M in 22/23. The proposed programme is listed in Appendix 1.
- 4.1.8 Highway Structures;** There are significant challenges associated with maintaining highway structures with a number of structures in a critical condition. A total budget of £5.650M (including £3.850M of previously identified slippage from 2021/22) has been allocated for 2022/23. A full list of proposed schemes can be found in Appendix 1. Project Management Costs will be allocated appropriately.
- 4.1.9** A design and build contract for the replacement **Brook Street Footbridge**, adjacent to Ystrad rail station is currently ongoing. This footbridge forms a link between Ystrad and Nant-y-Gwyddon Road and provides the only access to the northbound platform of Ystrad railway station for disabled people. It is an extremely large and complex scheme with very difficult site access, works over both a river and railway, and a requirement to maintain access to the northbound platform of the station. Construction work has commenced. A bid for Active Travel grant funding has been submitted to supplement / replace this funding. Should this bid be successful, any of this allocation which can be released will be diverted to the schemes identified in Appendix 1 as Reserve Schemes Previously Prepared.
- 4.1.10 Imperial Bridge Refurbishment** is awarded and due to commence on site in April 2022. The works will entail bearing replacement, re-waterproofing, new joints and steelwork repairs.
- 4.1.11 Llanharan Railway Footbridge Replacement** has commenced on site (with the removal of the previous structure completed by Network Rail in January

2022). £850,000 of allocated funding will be taken forward into 2022/23 for completion in July 2022, via a contract awarded to Centregreat.

4.1.12 **Nant Cwm Parc Cantilever** is situated on the A4061 Station Road in Treorchy upstream of **Institute Bridge** that carries the road over the stream at the junction with Dyfodwg Street. The scheme to replace this life-expired structure and strengthen Institute Bridge commenced in 2021/22. Due to delays, work in the river could not be completed prior to the works embargo and will be completed in 2022/23. Funding will be slipped from 2021/22 to complete the works.

4.1.13 A number of highway structures schemes have been prepared for future implementation should additional funding become available. These schemes are listed in Appendix 1. This includes advanced preparation for works as Structures schemes have long lead in times whilst determining the scope for repairs and/or replacements.

4.1.14 **Parks Structures:** A budget of £0.5M is allocated in 2022/23 in addition to the £0.048M being carried forward from 2021/22. A programme of inventory collection and inspection continues, and design work has been progressed on a number of schemes for implementation in 2022/23. A pool of schemes from which projects will be taken forward is given in Appendix 1 - Table 6. The programme of works will be supplemented by an allocation of £0.080M for Project Management costs.

4.1.15 **Storm Dennis:** A number of Highway and Parks and Countryside structures and embankments were damaged during Storm Dennis. Due to the complicated nature of some of the work and seasonal constraints related to working in watercourses, many schemes have been prepared over the past 2 years and are now ready for delivery. A £6.441M budget is assigned to this for 2022/23 funded by WG and further funding will be secured each financial year to maintain the momentum of the recovery programme. Castle Inn Footbridge Replacement is currently at planning and tender stage with significant service diversions currently ongoing in advance of the main contract which will be carried out this summer. Berw Road Bridge (White Bridge) is at listed building consent and contract preparation stage for major repairs to be undertaken during Summer 2022. Tynybryn Footbridge and Embankment and Feeder Pipe Footbridge are at feasibility stage.

4.1.16 Brook Street Replacement Retaining Wall, Porth, is at design stage for a replacement highway wall alongside the River Rhondda.

4.1.17 The list of structures known to be affected by Storm Dennis are included in Appendix 1 - Table 8 for reference.

4.2 Land Drainage/Flood Risk Improvements

4.2.1 The Capital Land Drainage Programme supports works on land drainage and flood alleviation schemes, which are of such scale that their cost places them outside the framework of routine maintenance supported by the revenue programme.

4.2.2 With regard to land drainage (Flood Alleviation) schemes, the Council is

frequently able to benefit from Welsh Government (WG) grant support (85%) as the Land Drainage Authority under Section 59 of the Land Drainage Act 1991 and the Lead Local Flood Authority under the Flood and Water Management Act 2010. In support of this process the land drainage capital programme identifies a number of project business cases targeted at attracting external funding support. These business cases will be carried out on a rolling 3-year programme with 1-2 completed per year.

- 4.2.3 Progression of schemes will be dependent on successful application for grant following the 5-case business model process through Strategic Outline Case (SOC), Outline Business Case (OBC) and Full Business Case (FBC) and where appropriate a Business Justification Case (BJC). An allowance has been made within the drainage improvements programme for progression of such business cases and schemes in order to provide the required match funding. Appendix 2a identifies the business cases and projects currently under development.
- 4.2.4 Appendix 2b identifies projects which had a grant bid submitted to the Welsh Government in January 2022 for Resilient Roads Fund grant. This is the third year that councils have had the opportunity to secure funding aimed at mitigating the effects of Climate Change on the transportation network. Over £3M was allocated to RCT during 2021/22.
- 4.2.5 As these bids are centred on areas of high flood risk to the network, they are included in this section. Progression of the projects will be dependent on grant confirmation.
- 4.2.6 The details of the Drainage/Flood Risk Improvements Programme for 2022/23 with £0.155M of funding allocated is provided in Appendix 2.

4.3 Traffic Management

- 4.3.1 As part of its network management duties under the Traffic Management Act and the Highways Act, the Council has the ability to implement improvements to the management of traffic within the County Borough. Finance for the programme is provided by an allocation of core capital funding of £0.160M.
- 4.3.2 The Council's capital allocation will enable the implementation of small scale schemes and provide safety aids such as warning signs, the introduction of traffic orders and the provision of residents parking. Details of the 2022/23 Capital Programme are included in Appendix 3.
- 4.3.3 Traditional Welsh Government Road Safety Capital Funding has effectively been suspended for 2022/23 in favour of focusing on implementing the default 20mph programme. RCT has been allocated indicative funding of £1.073M to prepare to roll-out default 20mph across RCT. This will be a significant challenge.

4.4 Car Parks

- 4.4.1 An ongoing programme of repairs and upgrades to the Council's car parks will continue with a £0.045M allocation in 2022/23.

4.5 Transportation Infrastructure

4.5.1 The total allocation for Transport Infrastructure for 2022/23 in the Capital Programme amounts to £14.989M.

4.5.2 The allocations are as follows;

- **Llanharan Link Road - £5.550M**

Good progress is being made in respect of this project which has now been allocated £7.990M including Local Transport Fund Grant from Welsh Government. This project will provide the eastern leg of the link road as a continuation of the existing western leg and is subject to completion of the central section, which is required to be provided by developers of adjacent residential development, and phased to accord with triggers attached to their planning consents. The eastern leg will connect with the A473 to the east of Llanharan and reduce the impact of traffic along the existing route, providing relief for affected communities, particularly around Llanharan Square. It is anticipated that significant developer contributions will be secured to assist funding the delivery of this project in future years.

The Pre-application planning consultation took place during 2021. This year will see the submission of a full planning application, which will continue in parallel with the Roads Review being carried out by the Welsh Government.

- **Dualling A4119 Coedely to Ynysmaerdy (known locally as Stinkpot Hill) - £5.341M**

Good progress is being made in respect of this project which has now been allocated £21.715M including £11.417M Levelling Up Fund Grant from Central UK Government, which is in addition to previous years funding from Welsh Government. Detail design has been completed to dual the existing single carriageway and substandard section of the strategic transport corridor linking the Rhondda Fawr with Llantrisant/Talbot Green and Junction 34 of the M4 motorway. The scheme proposes to extend the existing high quality dual carriageway running from the M4 to Ynysmaerdy, right up to the Coedely roundabout which serves the strategic development site at Coedely. The current substandard single carriageway is perceived by developers as being major barrier to development on this site. The scheme will therefore not only improve connectivity along this key corridor but is already acting as a catalyst for development of this strategic site. Procurement of a main contractor is progressing with works programmed to commence Autumn 2022. Significant works have already taken place to divert statutory undertakers' apparatus in advance of the main contract. The Compulsory Purchase Order and Side Roads Order are currently being concluded. This scheme is not within scope of the Welsh Government Roads Review and is therefore capable of immediate delivery.

- **A465 Cynon Gateway North Link Road - £1.500M**

Good progress is being made in respect of this project which has now been allocated £4.030M including Local Transport Fund Grant from Welsh Government. Preliminary design has been completed on the project which builds on previous feasibility work. A full planning application was submitted last year, and a planning decision is expected imminently. Once planning permission is granted the detail design stage of the project will be procured with design work expected to commence Autumn 2022, subject to the outcome of the Roads Review currently being undertaken by the Welsh Government. The Council continues to work with the Welsh Government and their appointed contractor in respect of the integration of the bypass and the A465 (Heads of the Valleys) Dualling of Sections 5&6 project. The dualling scheme now includes a roundabout at Croesbychan which will accommodate the Cynon Gateway link road. This will provide a gateway from the trunk road to the Cynon Valley and will aid in relieving traffic from Llwydcoed and Penywaun. The importance of this road has been recognised by the Welsh Government and they continue to work with RCT towards early delivery of this project.

- **Gelli Treorchy Link Road - £0.343M**

Feasibility studies have commenced on investigation of options to relieve traffic congestion in Treorchy. Stag Square is a major bottleneck causing congestion and delays to users of the road network including public transport. The study will look to identify potential options to reduce congestion.

- **Park and Ride Programme - £0.640M**

The Park and Ride programme is intended to create additional parking capacity at rail stations across RCT to enable car drivers to switch to rail travel encouraging modal shift in favour of more sustainable forms of travel that contribute to reducing congestion and harmful emissions.

Park and Ride is a key element to enable mode shift and promote accessibility to the Metro and opportunities to add value to Metro will be kept under review as the full scope and detail of the Metro project crystallises.

4.6 Making Better Use (MBU) Programme- £1.100M

4.6.1 The Council continues to invest in a Making Better Use (MBU) programme. The ethos of this programme is to identify low cost, high value improvements for congested sections of the Council's highways network, to improve traffic flows, ease congestion and have a positive impact on road safety.

4.6.2 The proposed programme of MBU projects is included at Appendix 4

4.7 Miscellaneous Improvements - £0.515M

4.7.1 A series of miscellaneous improvements are proposed to be developed and where practicable, implemented to deal with a number of operational issues

covering safety, accessibility, efficiency, capacity and enhancements to bus corridors, including joint working with Trevallis to resolve local highways related issues.

5 EXTERNAL GRANTS

- 5.1 At the time of drafting this report, over £6.777M of Welsh Government transport related grants have been secured by RCT during 2021/22 via Local Transport Fund, Local Transport Network Fund, Road Safety Grant, and Safe Routes in the Community Grant, and a further £11.417M of Central UK Government Levelling Up Fund Grant. The Council continues to explore the potential to accommodate any further potential 2021/22 WG budget underspends, with requests for additional funding submitted on 4th March 2022.
- 5.2 Bids for Road Safety, Active Travel, Safe Routes in Communities and Local Transport Fund were submitted at the end of January and early February with grant offers anticipated before the start of the new financial year.
- 5.3 At the time of drafting this report, over £7m of Welsh Government Drainage/Flooding related grants have been secured by RCT during 2021/22. Projects identified on the Welsh Government pipeline for capital investment in Land Drainage/Flood Risk Improvements have been submitted for inclusion for 2022/23 at approx. £3M, and await confirmation of approval in principle, also pending business case approval. Grant Bids have also been submitted for 15 Small scales schemes (£1.45M) and 16 Schemes under Resilient Roads (£2.4M).
- 5.4 It is anticipated that ongoing work to repair infrastructure damaged during exceptional storm events and expenditure related to ensuring the safety of former coal spoil tips will continue to be fully funded by Welsh Government with extensive discussions ongoing with Welsh Government regarding tip safety funding.

6 EQUALITY AND DIVERSITY IMPLICATIONS / SOCIO-ECONOMIC DUTY

- 6.1 Equality and Diversity issues will be considered as part of determining the final detail of the proposed schemes.

7 CONSULTATION

- 7.1 There are no consultation requirements relating directly to the report but the proposed schemes will (or have) involve varying degrees of consultation, some of which will relate to statutory processes (such as Traffic Regulation Orders).

8 WELSH LANGUAGE IMPLICATIONS

- 8.1 A Welsh Language Impact Assessment is not necessary at this time.

9 FINANCIAL IMPLICATIONS

- 9.1 The funding allocation to support schemes contained within this report was agreed by Council on the 9th of March 2022 as part of the three-year Capital Programme 2022/23 to 2024/25. This report does not commit any additional spend over and above this agreed allocation.

10 LEGAL IMPLICATIONS OR LEGISLATION CONSIDERED

- 10.1 There are no legal implications as a result of the recommendations set out in this report.

11 LINKS TO THE CORPORATE AND NATIONAL PRIORITIES AND THE WELL-BEING OF FUTURE GENERATIONS ACT.

- 11.1 This investment programme supports the Council's Corporate Plan Priority 'Places – Where people are proud to live, work and play'.
- 11.2 The programme is wide ranging. It deals with the maintenance and provision of transport assets created in order to meet travel demand. The programme supports enhanced connectivity to link homes with employment opportunities, education, and health facilities, and to act as a catalyst for development and regeneration. In conjunction with grant applications, a range of sustainable and active travel opportunities are promoted.
- 11.3 The programme also seeks to reduce flood risk and insulate communities from the damaging impacts of climate change in light of more frequent extreme weather events.
- 11.4 The programme supports the Well-Being goals fostering prosperity and resilience with inclusive and sustainable transport options supporting more cohesive and vibrant communities.

12 CONCLUSION

- 12.1 The above programme continues the enhanced levels of investment under the RCTInvest initiative, delivering sustained improvements to the resilience and durability of our highways and transportation infrastructure, promoting sustainable transport opportunities and network efficiency.
- 12.2 Consequently, Frontline Services will coordinate and deliver significant investment in a number of important areas during 2022/23 and the proposed programme is accordingly recommended for approval.
- 12.3 The Welsh Government LGBI programme concluded in 2014/15 and combined with core capital resources totalled an unprecedented £84M highway maintenance investment programme over nine years. This has enabled significant improvement in the condition of the highway network.

12.4 RCT is one of the few Councils that has continues to make meaningful and significant investments in its highway network since the demise of LGBI funding. The table below demonstrates the level of progress that has been made.

Indicator	2010/11 Indicator	2021/22 Indicator
THS011a – percentage of A class roads requiring maintenance	16.2%	3.7%
THS011b – percentage of B class roads requiring maintenance	15.2%	4.8%
THS011c – percentage of C class roads requiring maintenance	15.3%	2.3%
THS012 – percentage of all classified roads requiring maintenance	15.7%	3.6%

12.5 The Council, in common with all LAs across the UK faces significant challenges in maintaining this enormous and complex asset. The indicators above are directly impacted by the levels of funding available to maintain the asset. Whilst there is clearly a level of funding required in maintaining asset condition in a steady state, reducing funding below an optimum level creates greater challenges for the future. The ongoing level of investment respects that principle and should continue to see the highway network in RCT improving in comparison with other local authorities.

12.6 The condition of the Council's highways structures assets is recognised as a significant challenge with enhanced and continued capital and revenue funding allocated every year since 2017/18.

12.7 The commitment of the Council to invest in transport infrastructure enables the Council to be able to engage with Welsh Government and provide flexibility to accommodate WG underspend. The Council has continued to benefit significantly from this strategy.

12.8 The programme is as always subject to minor changes due to possible engineering difficulties or programming and coordination issues with statutory undertakers. Programme delivery will still be immensely challenging due to supply chain challenges and cost escalation, the flexibility to switch funding across programmes will ensure the best outcomes for RCT.

Appendix 1**Table 1a Additional schemes for Inclusion in Carriageway Works Pool**

<u>Carriageway Improvements</u>		
Street Name	Town	Budget
Violet St	Aberaman	21000
Jubilee Road	Godreaman	34000
William St	Abercwmboi	11000
Jenkin St	Abercynon	32000
Price's Place	Gadlys	16000
Ann Street	Gadlys	18000
Cemetery Road	Trecynon	22000
Mill St	Trecynon	49000
Dolcoed	Llwydcoed	17000
Ebenezer St	Trecynon	27000
The Square	Beddau	25000
Brynna Rd	Brynna	38000
Heathfield Crescent	Llanharan	32000
Main Road	Church Village	25000
Brookside Close	Cilfynydd	16000
S/O Oakland Terrace	Cilfynydd	8000
Bedw Road	Cilfynydd	10000
Morton Terrace	Clydach Vale	82000
S/O Park St	Clydach Vale	7000
Brynheulog Terrace	Clydach Vale	15000
Clydach Road	Clydach Vale	40000
Bryngolwg	Cwmbach	23000
Well Place	Cwmbach	12000
Aberdare Road	Cwmbach	38000
Phillip Row	Cwmbach	15000
Trebanog Road	Cymmer	31000

Aubrey Rd	Cymmer	36000
Avondale Court	Glynfach	41000
Duffryn St	Ferndale	70000
Mountain Row	Ferndale	40000
Baptist Row	Ferndale	44000
Brown St	Ferndale	25000
New Blandy Terrace	Gilfach Goch	17000
S/O Pen y Bryn	Glyncoch	30000
S/O Garth Avenue	Glyncoch	13000
Ross Close	Pen-y-Coedcae	17000
Arran Close	Pen-y-Coedcae	20000
Lionel Terrace	Rhydyfelin	15000
Ebenezer St	Rhydyfelin	9000
Brynsiriol	Hirwaun	44000
Maescynon	Hirwaun	14000
Ewenni Fach	Llanharan	8000
The Square	Llanharan	13000
S/O Chapel Road	Llanharan	6000
School Terrace	Llanharan	9000
Tylacoch	Llanharry	18000
Llanharry Road	Llanharry	25000
High Street	Llantrisant	24000
Heol y Graig	Llantrisant	3000
Castle St	Llantrisant	11000
Y Graig	Llantrisant	12000
Turberville Street	Llwynypia	46000
Glandwr to Argyle Terrace	Llwynypia	13000
Brook St	Maerdy	25000
Rowley Terrace	Maerdy	11000
London St	Mountain Ash	33000
Cefnpennar Road	Cefnpennar	50000
Tanycoed to Woodfield Terrace	Penrhiwceiber	15000
Hillside	Penrhiwceiber	31000
Gelli Rd	Gelli	39000

Maindy Road	Ton Pentre	61000
Elizabeth St	Pentre	74000
Amos Hill	Penygraig	90000
Amos Hill to Grai yr Eos Terrace	Penygraig	12000
Cornwall Road	Williamstown	20000
Amos Hill to Balaclava Court	Penygraig	8000
Arthur St	Williamstown	12000
Haulfryn	Penywaun	65000
Miskin Road to R/A	Miskin	43000
Llantrisant Road	Talbot Green	10000
Castan Road	Pontyclun	39000
Morgan St	Pontypridd	30000
Charles St	Porth	61000
Leslie to Primrose Terrace	Llwyncelyn	8000
Mount Rd	Rhigos	40000
Cwm Isaac	Rhigos	29000
Charles St	Pwllgwaun	22000
Distillery Road Lane	Hopkinstown	13000
Coed Isaf Road	Maes-y-Coed	15000
Ilan Avenue	Rhydyfelin	15000
Wordsworth Gardens	Rhydyfelin	25000
Castle St	Taffs Well	9000
Stonehouse Cottages	Nantgarw	15000
Heol Ty Maen	Upper Boat	15000
Heol Edwards	Nantgarw	25000
Green Park	Talbot Green	72000
Danygraig Crescent	Talbot Green	34000
Fairhill Drive	Tonteg	26000
Holywell Road	Tonteg	15000
Brookside	Tonteg	21000
Kenry St	Tonypandy	75000
Dunraven St	Tonypandy	18000
Llwynypia road	Tonypandy	18000
Ely Valley Road	Coedely	74000

Manley Close	Tonyrefail	70000
S/O Prichard St	Tonyrefail	9000
Garth St	Coedely	15000
Rhys Street to Heol Trewilliam	Edmondstown	14000
Pembroke St	Thomastown	50000
East St	Trallwn	27000
Side of Scarborough to Merthyr Rd	Pontsionnorton	14000
Marjorie St	Trealaw	36000
Miskin Rd to Rhys St	Trealaw	36000
Ynyscynon to Buckley Rd	Trealaw	11000
S/O Brithweunydd Rd	Trealaw	8000
St Albans Terrace	Tynywedd	36000
Gwendoline St	Treherbert	14000
Ael y Bryn	Treherbert	24000
Brynhyfryd St	Ynyswen	58000
Kenry St	Ynyswen	33000
Graig St	Pontygwaith	18000
S/O Commercial St	Tynant	8000
Mildred to Commercial St	Tynant	16000
Moorland Crescent	Tynant	13000
Bryn Terrace	Wattstown	40000
Davies Place	Ynyshir	16000
Windsor Court	Ynysybwl	11000
Cribyn Ddu	Ynysybwl	21000
Church St	Ynysybwl	24000
Ystrad Terrace	Ystrad	28000
Gelligaled Road to Club Row	Ystrad	13000
Total Carriageways		3263000

Table 1b Additional schemes for Inclusion in Footways Works Pool

Footway Improvements		
Street Name	Town	Budget(£)
Rhos Dyfed	Aberaman	16000
Maes y Deri	Aberaman	7000
Brynmair Road to Godreamon St	Godreaman	7000
Elizabeth St	Abercynon	7000
Steps S/O Aberdare Road	Abercynon	3000
South Street	Abercynon	6000
Alexandra Terrace	Aberdare	9000
Bwlffa Dare Terrace	Aberdare	15000
Parish Road	Tynant	10000
Wyndham St	Brynna	8000
Steps S/O Howard St	Clydach Vale	3000
Howard St to Park Street	Clydach Vale	6000
Glyn Terrace	Clydach Vale	14000
Swan y Nant to Cae Ffynon	Church Village	7000
Waterloo St	Cwmbach	7000
Morgan Row	Cwmbach	9000
Twyn Bedw	Cymmer	8000
Lincoln St	Cymmer	12000
Path 16 to 38 Heol Glyn	Gilfach Goch	11000
Rickard St	Graig	12000
Footpath Grove Terrace to Brook	Llanharan	6000
Jubilee St	Llanharan	10000
Pontrhondda Road	Llwynypia	30000
Rowley terrace	Maerdy	5000
Mona Place	Maerdy	6000
Greenfield Tce	Cefnpennar	16000
Bryn Villas	Pentre	3000
Price St	Ton Pentre	8000
Tynycai Place to George St	Penygraig	4000

Vale View	Penygraig	9000
Dynea Road	Rhydyfelin	40000
Fair View	Edmondstown	6000
Cwrt Glanrhyd	Rhigos	8000
Footpath S/O Towyn Way	Tonteg	6000
Tylcha Fach tce	Tonyrefail	11000
Heol Brynteg	Tonyrefail	18000
Marjorie St to Station	Trealaw	25000
Steps off Miskin Road	Trealaw	15000
Baglan St	Treorchy	11000
Brynbedw Road	Tylorstown	10000
Archer St	Ynysybwl	13000
Total Footways		437000

Table 1c Unadopted Roads Schemes

Unadopted Road Improvements		
Location	Town	Budget(£)
Greenhill Drive	Aberaman	50000
Church Street	Aberdare	13000
Glamorgan Terrace	Gilfach Goch	55000
Woodland Road	Tynant	18000
Alfreds Terrace	Taffs Well	29000
Brynderwen Court	Ferndale	26000
David Place	Llanharan	26000
St. Peters Close	Llanharan	40000
St. Aarons Drive	Llanharan	27000
St. Julius Crescent	Llanharan	55000
Cwrt Forest	Mountain Ash	25000
Stag St	Trecynon	47000
Clive Place	Trecynon	33000
Contingency		56000
Total Unadopted Roads		500000

Table 2 Proposed Highway Structures Schemes 2022/23 (Including reported slippage)

Street	Structure	Town	Budget (£)
A4061	Bodringallt Bridge	Ystrad	110,000
	Brook Street Footbridge	Ystrad	2,757,000
A473	Llanharan Railway Footbridge Replacement	Llanharan	850,000
A4061	Nant Cwm Parc Cantilever and Institute Bridge	Treorchy	300,000
Eirw Rd	Imperial Bridge	Porth	1,633,000
Total			£5,650,000

Table 3 Reserve Highway Structures Schemes

Street	Structure	Town	Budget (£)
Confined Space Culvert Maintenance	Various	Various	300,000
Advance Preparation	Various	Various	200,000
U/C	Brewery Terrace Wall	Pontygwaith	50,000
A4058	Salem Terrace Wall	Llwynypia	80,000
A4058	Dinas R/Wall	Dinas	70,000
U/C	Bryn Eirw Wall Phase 2	Trehafod	175,000
U/C	Darren Ddu Bridge	Ynysybwl	300,000
Adjacent to A4059	Robertstown Footbridge Approach walls	Robertstown	100,000
Lanelay Rd	Lanelay Bridge	Talbot Green	175,000
U/C	Cross Bychan	Croesbychan	275,000
A4093	Graig Las	Hendreforgan	275,000
B4273	Glyncoch Embankment	Glyncoch	750,000
U/C	Margaret Street Wall and Embankment (applied for grant funding)	Pontygwaith	750,000
Total			£3,500,000

Table 4 Highway Structures Advance Preparation Schemes

Street	Structure	Location
B4273	Glyncoch Embankment	Glyncoch
U/C	Margaret Street (applied for grant funding)	Pontygwaith
B4275	Ynysmeurig Bridge Waterproofing	Abercynon
B4275	Cynon Star Bridge	Abercynon
A4061	Rhigos Rock Anchors	Blaenrhondda
A4061	Bwlch Rockface	Bwlch
A4058	A4058 Cantilever	Pontypridd
B4278	Brittania Bridge	Porth
B4278	Rheola Bridge	Porth
A4233	New Rheola Bridge	Porth
	Machine Bridge North	Treforest
	Glanffrwyd Culvert	Rhigos
A4059	Meirion Street River Underbridge	Aberdare
	Glan Road Bridge	Aberdare
A4059	Afon Cynon Bridge	Cwmbach/Aberdare
	Factory Road Culvert	Treorchy
A4058	Trehafod By-Pass Bridge	Trehafod
C229	Dinas Riverbridge	Dinas
	Mountain Ash Comprehensive Bridge	Mountain Ash
	Nant Llanilid Footbridge	Thomastown
Moy Road	Glan y Llyn Bridge	Taff's Well
B4273	Graig Bridge	Ynysybwl
Ynyshir Rd	Wattstown Stone Arch Bridge	Wattstown
Rhigos Rd	Bwllfa Road Culvert No. 1	Rhigos
A4233	Pontygwaith Riverbridge	Pontygwaith
	Cwm Pennar Bridge	Cwmpennar
A4054	Nant Llonydd Bridge	Hawthorn
	Leiners Bridge and Footbridge	Hawthorn
N/A	Nantygwyddon to Gelligaled Park Footbridge	Llwynypia
N/A	Nantygwyddon to Sherwood Street Footbridge	Llwynypia
B4275	Mountain Ash Town Bridges	Mountain Ash
C221	Ferndale Bridge	Ferndale
B4273	Glyncoch to Ynysybwl Cutting	Glyncoch
A4059	Violet Street Footbridge - Upgrade	Aberaman

Table 5 Proposed Parks Structures

Street No	Street Name	Town	Budget (£)
	Project Management		80,000
	Various R/Wall, Culvert and Bridge Refurbishment/Repair		468,000
Total			548,000

Table 6 Pool of Parks and Countryside Projects

Colliery Street Footbridge	Pontypridd
Penrhys Playing Fields Footbridge	Penrhys
Ynyshir Park Tunnel	Ynyshir
Gelli Isaf Tramroad Bridge	Aberdare
Dare Valley Retaining Walls	Aberdare
Rhondda Heritage Park Walls	Trehafod
2022-23 Timber Footbridges	Various
Barry Sidings Retaining Wall Phase 2	Hopkinstown
Cwm Ynys Mintan Footbridge	Penywaun
Blaennantgroes Retaining Wall	Cwmbach

Table 7 Proposed Street Lighting Programme

Location	Work required	Budget (£)
A468 Caerphilly Road, Nantgarw Hill	Replacement of life expired columns	100,000
Gwaelod-y-Garth Road Treforest Industrial Estate	Replacement of life expired columns	30,000
Overhead supplied columns – various locations	Removal of overhead cable systems	30,000
Llwynypia – various locations	Project to upgrade lighting in narrow terraces	40,000
Total		200,000

Table 8 Structures Affected by Storm Dennis and anticipated to be fully funded by Welsh Government (*in italics works is wholly completed*)

Structure Name	Location
<i>Ynysyngharad Park Footbridge</i>	<i>Pontypridd</i>
Castle Inn Bridge	Rhydyfelin/Treforest
Berw Road Bridge	Pontypridd
Feeder Pipe Footbridge	Abercynon
Footbridges on Rights of Way	Various
Ty'n y Bryn Footbridge	Tonyrefail
Taff Trail Mill Farm Rd footbridge	Abercynon
Penydarren Tramroadside	Aberdare
<i>Bailey Street Bridge</i>	<i>Ton Pentre</i>
<i>Canning Street Bridge</i>	<i>Ton Pentre</i>
Maindy Street Bridge	Ton Pentre
Gelligaled Footbridge	Ystrad
<i>Merlin Bridge</i>	<i>Hopkinstown</i>
Campbell Terrace Culvert	Mountain Ash
Blaencwm River Wall	Blaencwm
Hopkinstown River Wall	Hopkinstown
Berw Rd River Wall	Pontypridd
Sion Street	Pontypridd
<i>Castle Inn River Wall</i>	<i>Rhydyfelin</i>
Pontypridd Road River Wall	Porth
Tonypandy River Wall	Tonypandy
Brook Street Retaining Wall	Porth
<i>Ynysymeurig Wall and Bridge</i>	<i>Abercynon</i>

Maerdy Mountain Road A4223	Maerdy/Aberdare
Ynyshir Community Route Landslip	Ynyshir
Taff Trail and other Active Travel Routes	Various
Nant Gelliwion Bridge	Penycoedcae
Mill Road Culvert	Ynysybwl
<i>Cross Street R/Wall</i>	<i>Ynyshir</i>
Nant Clydach Bridge	Abercynon
Gyfeillion R/Wall	Hopkinstown
Gelli Culvert	Gelli
<i>Afon Dar and Tramway Culverts</i>	<i>Aberdare</i>
Rural Lanes - Storm Damage Repairs	Various
Various repairs and works to culverts, bridges and walls and landslips/embankments	Various

Appendix 2

Proposed Land Drainage/ Flood Risk Management Capital Programme 2022/23

Scheme/Location	Activity/Work	RCT	WG Grant/ other	Total
		£	£	£
Land Drainage Improvements Allowance (match Funding) for progression of schemes after completion of Strategic Business Case/Small Scale schemes Business Case Assumes WG Approval. See Appendix 2A	OBC/BJC/FBC & Works (15% Match Funding)	100,000	566,000*	666,000
Strategic Outline Business Cases	Production of Strategic Business Cases for future projects. Incl Concept/Prelim Design	15,000		15,000
Mynydd-Yr-Eglwys, Ystrad	Monitoring & Remedial Works	10,000		10,000
Small Works Budget	Small scale works <£10,000 to reduce impact of surface water flows affecting properties and the highway	30,000		30,000
Total		155,000	566,000	721,000*

*Assumes successful grant bids

Appendix 2a

Schemes under development that will require a successful application for Grant from the Welsh Government.

Strategic Flood Risk Area (SFRA) and Larger >£200k Individual Flood Alleviation Schemes (FAS)

Scheme	Location	Activity/Work (2022/23) BJC = Business Justification Case OBC – Outline Business Case FBC- Full Business Case
Treorchy FAS - (Phase 1) Cemetery Road	Treorchy	Full BJC - Construction
Treorchy FAS - (Phase 2)	Treorchy	FBC - Detailed Design and Development
Cwmaman Phase 2	Aberaman South	Full BJC - Detailed Design and Development Full BJC - Construction
Glenboi Road - Pumping Station	Mountain Ash West	Full BJC - Construction
Nant Ffrwd Culvert - Flood Routing	Mountain Ash East	Initial BJC Development– Preliminary Design & Development. Full BJC - Detailed Design and Development
Pentre FAS	Pentre	FBC - Detailed Design and Development
Turberville Rd - Porth	Porth	Initial BJC Development– Preliminary Design & Development. Full BJC - Detailed Design and Development
Maes y Ffynon FAS	Aberaman North	Initial BJC Development– Preliminary Design & Development. Full BJC - Detailed Design and Development

Strategic Flood Risk Area (SFRA) and Larger >£200k Individual Flood Alleviation Schemes (FAS)

Scheme	Location	Activity/Work (2022/23) BJC = Business Justification Case OBC – Outline Business Case FBC- Full Business Case
Nant Gwawr (Phase 2)	Aberaman North	OBC Development– Preliminary Design & Development.
Oaklands Terrace, Clifynydd	Clifynydd	OBC Development– Preliminary Design & Development.
Abertonllwyd Road	Treherbert	OBC Development– Preliminary Design & Development. FBC - Detailed Design and Development
Afon Cynon/Wellington St FAS - OBC/NFM	Aberdare	OBC Development– Preliminary Design & Development.
Peat Bogs Restoration - OBC/NFM	Unknown at this Stage	OBC Development– Preliminary Design & Development. FBC - Detailed Design and Development
Bronallt Terrace - Phase 3 (upper Catchment)	Abercwmboi	Full BJC - Construction

Small Scale Projects <£200k Individual Flood Alleviation Schemes (FAS)

Scheme	Location	Activity/Work
Maesyfield Way - Debris Basin	Rhydyfelin	Create an additional debris basin ahead of the primary inlet associated to Rhydyfelyn 3
Bryn Tail Road - Overflow Network	Rhydyfelin	Create an overflow structure above Rhydyfelyn 3 and divert flow to the Rhyd 4 Attenuation Basin - Review of hydraulics associated to project
Telemetry	Various	Expansion of the Ordinary watercourse Telemetry across RCT

Small Scale Projects <£200k Individual Flood Alleviation Schemes (FAS)		
Scheme	Location	Activity/Work
Gwernifor Street - Culvert Relining – Design Only	Mountain Ash West	Rehabilitation of the structural condition (GR5) of the ordinary watercourse Culvert - Approximately 150m (850dia & 900dia)
Kingcraft Street - Culvert Relining– Design Only	Mountain Ash West	Rehabilitation of the structural condition of the ordinary watercourse Culvert - Approximately 150m (500dia)
Jones Street - Culvert Relining– Design Only	Treorchy	Rehabilitation of the structural condition (GR5) of the ordinary watercourse Culvert - Approximately
Nant Cae Dudwg - Inlet Upgrade	Cilfynydd	Addition of Overflow system to existing headwall. Inlet Upgrade - Overflow structure
Nant Cae Dudwg - Scour/Bank repair	Cilfynydd	Repair of bank erosion/landslip causing materials movement towards culverted systems.
Pentre - Structural Renovation/ReLining	Pentre	Rehabilitation of the structural condition (GR5) of the ordinary watercourse Culvert's in and around Pentre - Approximately 130m (450dia), 120m (225dia) and patch repairs within 1100 x 1800 culvert
Bro Deg FAS - Scour Rehabilitation	Cwmbach	Channel scour repairs and facilitation of access route for future maintenance
Cemetery Road - Glyntaff	Treforest	culvert inlet improvement with associated overland flood routing to reintroduce the flooding
Tanycoed Terrace - Culvert Upgrade	Aberaman South	Culvert Barrel Upgrade to provide Q100 SOP (Hydraulic) and structural rehabilitation of the structure
Nant Y Fedw - Scour Repair– Design Only	Abercynon	Culvert Inlet access has deteriorated and eroded and channel has scoured - rehabilitation of channel and revised access provision
Baglan Street - Culvert Relining– Design Only	Treorchy	Rehabilitation of the structural condition (GR5) of the ordinary watercourse Culvert
Cae Felin Parc West - Culvert Relining	Hirwaun	Rehabilitation of the structural condition (GR5 & GR4) of the ordinary watercourse Culvert - Approximately 163m (750dia)

Appendix 2b

Schemes under development that will require a successful application for Grant from the Welsh Government.

Resilient Road Grant - Alleviate the effects of climate change (flooding) on transportation infrastructure

Scheme	Location	Activity/Work
A4058 Tonypandy - Porth	Trealaw/Porth	Existing Highway Carrier Line (filter system) is showing significant root mass within the main system approximately 540m which is reducing the capacity of the carrier line to function resulting in frequent Highway Flooding
A4058 Tonypandy - Porth	Trealaw/Porth	Existing Highway Carrier Line (filter system) is showing significant root mass within the main system approximately 550m which is reducing the capacity of the carrier line to function resulting in frequent Highway Flooding
A4119 Bypass Ynysgrug - Tonypandy - Coedely	Tonyrefail West	Plastic Carrier Line has significant defects i.e root ingress and displaced joints through the length of the network - partial surveys undertaken
Margaret Street, Pontygwaith	Tylorstown	Recovery works to stabilise the hillside and improve ground water drainage to avoid further flooding impacts to the highway
A4061 Abertonllwyd Street	Treherbert	Upgrade of Highway drainage infrastructure to mitigate overland flows generated by pluvial sources, through the use of Linear kerb drainage and reconnection of overland flow into an adjacent culvert network
A4059 Aberdare Bypass	Aberdare West	Upgrade of Highway drainage infrastructure to mitigate low spot flooding within the highway, through the use of Linear kerb drainage
A4059 Abercynon - Mt Ash	Mountain Ash East	Upgrade of existing highway drainage network to accommodate catchment flow with additional interception drainage with upgrades to a Highway Culvert that conveys across the highway
A4061 Rhigos Road	Rhigos	Culvert Improvement works which include upgrading of a Highway culvert Inlet, Barrel and Outlet to accommodate catchment flows.

Resilient Road Grant - Alleviate the effects of climate change (flooding) on transportation infrastructure

Scheme	Location	Activity/Work
B4275 John Street	Aberaman South	Works to upgrade the highway drainage infrastructure, via the upgrading of the highway carrier line and associated inflow gully structures
A4061 Rhigos Mountain Road	Treherbert	Upgrade Highway drainage to mitigate overland flows topping the highway rock netting and mitigate overland flows generated by a highway culvert
Lewis Street – Design Only	Aberaman North	Works to upgrade a Highway culverted watercourse, which will include the structural upgrade of the internal culvert barrel and improvements to the associated inflow gully structures and connections
St Luke's Road, Llwynceilyn – Design Only	Porth	Works to upgrade a Highway Culvert inlet which will include works to the Headwall, debris screens and associated access
Mill Street – Design Only	Tonyrefail East	Works to upgrade a Highway channel/ditch will include works to the upgrade the channel width, depth and banks and associated works to upgrade debris screens within the channel
Ynyshir Road – Design Only	Ynyshir	Works to upgrade the highway drainage infrastructure, via the upgrading of the highway carrier line and associated inflow gully structures
Llanwonno Road – Design Only	Ynyshir	Works to upgrade a Highway Culvert inlet which will include works to the Headwall, debris screens and associated access
B4278 Gilfach Road – Design Only	Tonyrefail West	Works to upgrade the highway drainage infrastructure, via the upgrading of the highway carrier line and associated inflow gully structures

Appendix 3 – Proposed Traffic Management Programme 2022/23

Traffic Management Programme 2022/23	Cost (£)
Disabled Persons Parking Permits	10,000
Minor schemes, signs and markings	55,000
Collision Cluster and Capital Programme Review	4,000
Small scale traffic regulation orders (Speed limit, Road Safety and community benefit)	30,000
Residents Parking Review	40,000
Speed Limit Review	6,000
Remedial works resulting from Safety Audits on previous schemes	5,000
Development of schemes	10,000
Total	160,000

In addition to the above the Traffic Management team will be responsible for implementing the Welsh Government default 20mph initiative over 2022/23 as well as delivering several Education and Lifelong Learning funded projects throughout the borough including the highway elements of the 21Century Schools programme.

Appendix 4 “Making Better Use” Programme.

Scheme/Location	Work Description	RCT (£k)	Other (£k)	Budget (£k)
Highway Network Improvements				
A4059 Corridor Enhancements	Preliminary design and project development	950		950
Ty Nant, Beddau,	Pedestrian crossing	150		150
Total		1,100		1,100