



RHONDDA CYNON TAF COUNTY BOROUGH COUNCIL

CABINET

17th OCTOBER 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 additional 2022/23 investment by Council on 28th September 2022, this report sets out the supplementary 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 hampered by the aftereffects of the pandemic on the supply chain. Despite these challenges, good progress has been made through 2022 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 Commitments have been made to providing funding to replace and upgrade drainage infrastructure, much of which will need to meet new expectations around flood events.
- 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 additional capital allocations of £1.1M in favour of Highways Technical Services and £1M in favour of Strategic Projects, in order to safeguard the long-term integrity of the highways and transportation network and to reduce flood risk. Detail for consideration is submitted under the following areas;
 - Highways Improvements
 - Unadopted Roads
 - Flood Alleviation Works

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 additional allocation of capital resources for the Highways Improvement Schemes, as included in the Capital Programme for 2022/23, is £1.1M and is broken down into works packages in the table below. Spending



plans for this programme of works are detailed in this report.

Work Area	£M
Carriageways	0.670
Footways	0.215
Unadopted Roads	0.100
Drainage	0.100
Access Improvements	0.015
Total	1.100

4.1.4 Details of an additional pool of schemes is included at Appendix 1.

4.2 Flood Risk Alleviation Works

4.2.1 The Capital Land Drainage Programme supports works on the transportation network, 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) via the Flood Coastal and Erosion Risk Management (FCERM) Grant. 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).

4.2.4 The Council is also able to benefit from the Welsh Government Resilient Roads Fund (RRF) which targets the effects of flooding and Climate change on the transportation network. Some match funding is required, usually at 10% but is variable.

4.2.5 The total allocation of capital resources for the Flood Alleviation works, as included in the additional Capital Investment for 2022/23, is £1.0M and is broken down into works packages in the table below. Spending plans for this programme of works are detailed in this report.



Work Area	£M
Match Funding for Grant Schemes	0.600
Drainage works to the Transportation Network	0.300
Advanced scheme preparation works	0.100
Total	1.000

4.2.6 **Match Funding of Grant Schemes.** - An allowance of £0.6m has been made for progression of such business cases and schemes on the FCERM and RRF programs in order to provide the required match funding for successful grant bids. It is currently anticipated that the overall program will benefit from £4m+ grant from WG in 2022/23. Appendix 2a identifies the business cases, projects and project stages currently under development that may require match funding for 2022/23.

4.2.7 **Drainage Works to the Transportation Network** – An allowance of £0.3m has been made to complete projects in 2022/23 that are critical to the functioning of the transportation network but are not funded and/or eligible for FCERM or RRF grant. Appendix 2b identifies the projects within this works package for 2022/23.

4.2.8 **Advanced Scheme preparation** – An allowance of £0.1m has been made to carry out advanced design and preparation works for projects that may be eligible for grant bids or included within the councils direct investment for 2023/24. This is to enable good technically supported grant bids for 2023/24 as well as to target the most favourable time of year to carry out weather sensitive flood alleviation works. Appendix 2c identifies the projects within this works package for 2022/23.

5 EQUALITY AND DIVERSITY IMPLICATIONS / SOCIO-ECONOMIC DUTY

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

6 CONSULTATION

6.1 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).

7 WELSH LANGUAGE IMPLICATIONS

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



8 FINANCIAL IMPLICATIONS

- 8.1 The funding allocation to support schemes contained within this report was agreed by Cabinet on 6th September 2022 as part of the additional investment priorities for 2022/23 and approved by Council on 28th September 2022. This report does not commit any additional spend over and above this agreed allocation.

9 LEGAL IMPLICATIONS OR LEGISLATION CONSIDERED

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

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

- 10.1 This investment programme supports the Council's Corporate Plan Priority 'Places – Where people are proud to live, work and play'.
- 10.2 The programme deals with the maintenance and provision of transport assets created in order to meet travel demand.
- 10.3 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.
- 10.4 The programme supports the Well-Being goals fostering prosperity and resilience with inclusive and sustainable transport options supporting more cohesive and vibrant communities.

11 CONCLUSION

- 11.1 The above programme continues the enhanced levels of investment under the RCTInvest initiative, providing additional in-year funding beyond that already committed.
- 11.2 Consequently, Frontline Services will coordinate and deliver additional significant investment during 2022/23 and the proposed programme is accordingly recommended for approval.
- 11.3 The programme is as always subject to minor changes due to possible



engineering difficulties or programming and coordination issues with statutory undertakers. Programme delivery and coordination will remain immensely challenging due to supply chain challenges and cost escalation. 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 (£)
Griffith St	Aberdare	19000
Graig St	Mountain Ash	20000
Howell's Row	Godreaman	24000
New Road	Mountain Ash	38000
Dare Valley Park Access Paths	Aberdare	45000
Blackberry Place	Cefnpennar	45500
Princess St	Treorchy	17000
Chapel St	Treorchy	25000
Cross St	Ferndale	25000
Woodland Terrace	Cwmparc	25000
New Chapel St	Treorchy	25500
Madoc St	Graig	17500
Queen St	Treforest	19500
Crown Hill	Llantwit Fardre	25000
Station Rd	Pontyclun	26000
Maes Trane	Beddau	27500
Troedyrhiw y Trwyn	Hopkinstown	32000
Maesteg Grove	Tonteg	38000
Standard View	Ynyshir	75500
Total Carriageways		570000
Mini Planer		100000

NB. All budget figures are based on initial estimates and will vary in practice due to a range of factors



Table 1b Additional schemes for Inclusion in Footways Works Pool

Footway Improvements		
Street Name	Town	Budget(£)
Graig St	Mountain Ash	10000
Edwards St	Abercynon	13000
Harris View	Penrhiwceiber	24000
David St	Trecynon	26000
Dolgwilym St	Pontygwaith	14000
Jestyn St	Porth	16000
Cross St	Ferndale	18000
Castan Rd	Pontyclun	16000
Commercial St	Tynant	24000
Church Village Access Impts	Church Village	25000
Coed yr Esgob	Llantrisant	29000
Access Improvements		15000
Total		230000

NB. All budget figures are based on initial estimates and will vary in practice due to a range of factors

Table 1c Unadopted Roads Schemes

Unadopted Road Improvements		
Location	Town	Budget(£)
Cadwaladr St	Mountain Ash	24000
Glyncornel Close	Llwynypia	41000
Gelliwion Rd	Pontypridd	35000
Total Unadopted Roads		100000

NB. All budget figures are based on initial estimates and will vary in practice due to a range of factors



Appendix 2a - Match Funding of Grant Schemes.

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
Glenboi Road - Pumping Station	Mountain Ash West	Full BJC - Construction
Pentre FAS	Pentre	FBC - Detailed Design and Development
Turberville Rd - Porth	Porth	Initial BJC Development– Preliminary Design & Development.
Maes y Ffynon FAS	Aberaman North	Initial BJC Development– Preliminary Design & Development.
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.
Afon Cynon/Wellington St FAS - OBC/NFM	Aberdare	OBC Development– Preliminary Design & Development.



Peat Bogs Restoration - OBC/NFM	To be confirmed	OBC Development– Preliminary Design & Development.
Bronallt Terrace - Phase 3 (upper Catchment)	Abercwmbai	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 inlet 3
Bryn Tail Road - Overflow Network	Rhydyfelin	Create an overflow structure above Rhydyfelyn inlet 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
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
Pentre - Structural Renovation/ReLining	Pentre	Rehabilitation of the structural condition (GR5) of the ordinary watercourse Culvert's in and around Pentre.
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)

Resilient Road Grant - Alleviate the effects of climate change (flooding) on transportation infrastructure		
Scheme	Location	Activity/Work
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.
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
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 2b - Drainage Works to the Transportation Network		
Scheme	Location	Activity/Work
Abertonllwyd road RV10	Treherbert	The project proposes to install a number of overland flow interception structure and propose to reconnect the infrastructure back into the ordinary watercourse infrastructure
Brynhyfred Ynyswen	Ynyswen	Structural Lining of Culvert.
Cae Felin Parc Inlet	Hirwaun	Replace outfall structure and rehabilitate scour damage within the channel area
Quarry Road	Maesycoed	Replace culvert inlet/outlet & remediate outlet scour and reprofile surface water drainage channel leading to the inlet
Structural Rehabilitation - Watercourse & Highway Drainage	Various	Structural Lining or Replacement of OW & HD infrastructure - specific projects to be identified from wider list and subject to deliverability limitations i.e. access, traffic management, flow rates, overpumping accessibility etc
Llanwonno Road (New) (RV20)	Ynyshir	Upgrade inlet area and immediate upstream channel to enhance maintenance access



Appendix 2c - Advanced Scheme preparation		
Scheme	Location	Activity/Work
Inlet Design & Development – Design Only	Various	This programme is intended to provide design and development to a number of culvert inlet structures to develop a forward program of work for minor to small scale works
Trifounder rd development - Design Only	Cwmbach	Development of a Business Justification Case and Preliminary Design to target scour damage within the catchment area
Nant Cae Dudwg Inlet - Design Only	Cilfynydd	Development of an overflow structure in a similar manor to Pentre and Rhydyfelin.
Afryn Terrace BJC - Design Only	Tylorstown	This phase of work will update the initial SOC into a BJC document to support incorporation into the WG Grant funded program
Duffryn Road / Abberffrwd Rd - Design Only	Mt Ash	Replacement of the culvert through the highway is required with a new manhole and Outfall alterations to accommodate structure