



Dinas a Sir Abertawe

Hysbysiad o Gyfarfod

Fe'ch gwahoddir i gyfarfod

Pwyllgor Trawsnewid Gwasanaethau'r Economi ac Isadeiledd

Lleoliad: Cyfarfod Aml-Leoliad - Ystafell Gloucester, Neuadd y Ddinas / MS Teams

Dyddiad: Dydd Iau, 18 Ionawr 2024

Amser: 2.00 pm

Cadeirydd: Y Cynghorydd Philip Downing

Aelodaeth:

Cynghorwyr: C R Doyle, W G Lewis, P Lloyd, N L Matthews, S J Rice, W G Thomas a/ac T M White

Gwyltio ar-lein: <https://rb.gy/kqnvmk>

Agenda

Rhif y Dudalen.

- | | | |
|----------|---|---------------|
| 1 | Ymddiheuriadau am absenoldeb. | |
| 2 | Derbyn datgeliadau o fuddiannau personol a rhagfarnol.
www.abertawe.gov.uk/DatgeluCysylltiadau | |
| 3 | Cofnodion:
Cymeradwyo a llofnodi cofnodion y cyfarfod(ydd) blaenorol fel cofnod cywir. | 1 - 2 |
| 4 | Cynnal a chadw'r isadeiledd ffyrdd. | 3 - 11 |
| 5 | Cynllun Gwaith | 12 |

Cyfarfod nesaf: Dydd Iau, 29 Chwefror 2024 am 2.00 pm

Huw Evans
Pennaeth y Gwasanaethau Democraidaidd
Dydd Iau, 11 Ionawr 2024

Cyswllt: Gwasanaethau Democraidaidd - (01792) 636923

Agenda Item 3



City and County of Swansea

Minutes of the **Economy & Infrastructure Service Transformation Committee**

Multi-Location Meeting - Gloucester Room, Guildhall / MS Teams

Thursday, 14 December 2023 at 2.00 pm

Present: Councillor P Downing (Chair) Presided

Councillor(s)

W G Lewis
T M White

Councillor(s)

P Lloyd

Councillor(s)

N L Matthews

Officer(s)

Sally-Ann Evans
Phil Holmes
Clare James
Lisa Jones
Samantha Woon

Lead Lawyer
Head of Planning & City Regeneration
Economic Development Manager
Associate Lawyer
Democratic Services Officer

Also present

Councillor R Francis-Davies - Cabinet Member for Cabinet Member for Investment, Regeneration, Events & Tourism

Apologies for Absence

Councillor(s): S J Rice and W G Thomas

22 Disclosures of Personal & Prejudicial Interests.

In accordance with the Code of Conduct adopted by the City & County of Swansea, no interests were declared.

23 Minutes.

Resolved that the Minutes of the Economy and Infrastructure Service Transformation Committee held on 2 November, 2023, be approved and signed as a correct record.

24 Local Economic Delivery Plan.

The Economic Development Manager presented the new Local Economic Delivery Plan (LEDP) for Swansea.

She referred to the update provided to the Economy & Infrastructure Service Transformation Committee on 20 July, 2023 and stated that the Plan had been produced to set out the economic regeneration priorities and actions for Swansea. The Local Economic Delivery Plan complements the Regional Economic Delivery Plan, covering Carmarthenshire, Neath Port Talbot, Pembrokeshire and Swansea and will guide the implementation of the Regional Economic Delivery Plan in a local context.

Members noted the strategic framework which sets out our local missions, strategic aims and objectives through to 2030 and the accompanying action plan.

The Cabinet Member for Cabinet Member for Investment, Regeneration, Events & Tourism referred to the work that had been undertaken in developing the Plan and thanked all involved.

The Chair thanked the Economic Development Manager for informative update.

Resolved that:

- 1) The progress in producing the Local Economic Development Plan be noted.

25 Work Plan.

The Chair introduced the 'for information' Economy & Infrastructure STC Work Plan 2023-2024.

The topics for discussion at the following meeting were noted:

- 18 January 2024

Maintenance of Road Infrastructure

The meeting ended at 2.17 pm

Chair

Agenda Item 4



Report of the Director of Place

Economy & Infrastructure Service Transformation Committee
18 January 2024

Maintenance of Road Infrastructure

Purpose:	To provide a briefing to the Strategic Transformation Committee on the Maintenance of Road Infrastructure.
Policy Framework:	This report sets out the functions, standards and operational activities of the Highways Maintenance Group in relation to its work on the maintenance of road infrastructure.
Consultation:	Access to Services, Finance, Legal.
Recommendation(s):	It is recommended that: 1) Councillors consider the report, to give their views and make recommendations to Cabinet Member as necessary
Report Author:	Bob Fenwick
Finance Officer:	Amanda Thomas
Legal Officer:	Debbie Smith
Access to Services Officer:	Rhian Millar

1. Introduction

- 1.1 The Repair of the Highway is managed by the Highways Maintenance Group within Highways and Transportation. This report will focus on the management of carriageway repairs from pot holes to full resurfacing schemes. Highway drainage will also be covered.

2. The Highway Carriageway Asset

- 2.1 The extent of the highway asset is defined by the adopted roads network, in other words all highways that are maintainable at public expense.
- 2.2 The highway covers approximately 1100km of carriageway, The Highway Asset is ageing, with many parts exceeding their residual life. There is currently a backlog of over £70m of work on carriageways alone. This figure is recalculated every 5 years.
- 2.3 The local highway network is Swansea's largest, most visible and most valuable publically owned asset with a replacement value in excess of £2,000,000,000.
- 2.4 To maintain a steady state condition and avoid further deterioration to the highways, it is estimated that an annual capital spend on carriageways of between £7m to £8m per year would be required.
- 2.5 The Authority is continuing to develop programmes of work based on the principles agreed as part of the all Wales Asset Management Project. This will ensure spending is targeted based on a whole life cost approach which will optimise the impact of the investment and minimise financial and service demands.
- 2.6 In terms of drainage assets the Authority has approximately 100 major culverts, 40,000 drains and an unknown length of ducting and pipes.

3. Why We Do This

- 3.1 There are a number of statutory requirements relating directly to this service however the main one is:-

Highways Act 1980 - to assert and protect the rights of the public for the use and enjoyment of any highway.

The consequences of the Council not fulfilling its statutory duties may lead to:

- Damage to property or injury to people.
- Claims for personal and property injury/loss.
- Negative impact on the health and safety and quality of life for residents
- Detrimental affect on the reputation and prosperity of Swansea

In addition to the statutory responsibility the maintenance of the highways and the functions and activities or the service have an impact on quality of life issues, perceptions of the city centre and the areas people live in. These have both social and economic and reputational consequences.

4. Routine Repairs

- 4.1 Routine repairs include pot holes, small area resurfacing, surface striping, voids and sink holes.
- 4.2 Routine Repairs deal with day to day issues, the priority being given to those issues that have a statutory obligation. Any pot holes or other defects picked up on inspection are categorised and added to works programmes. Only problems that meet the Council investigatory levels are recorded. These defects generally have a 28 day window from inspection to liability.
- 4.3 In addition and over and above statutory duty the Council has the pot hole initiative, this began in 2018 and since its establishment over 30,000 pot holes reported by the public have been filled. The initiative won a national award in 2019 and Swansea Council were asked to speak at the Department of Transport to a national roads group. This initiative replaced a system of inspection and rejection where public reported defects, they were assessed and if they did not meet intervention levels (90%) they would not be repaired. It is important to note this is for single defects not for whole streets.
- 4.4 In 2021/22 6700 pot holes were repaired, with a 93% 48 hours response being the worst weekly figure for the year. In 2022/23 9200 pot holes were repaired, one week in January had a 77% response as the number of pot holes reported was huge and materials were difficult to purchase, other than this the worst performance of 92% was recorded. To date in this financial year 2500 pot holes have been fixed with a worst performance of 92%. Again it is important to note that the pot hole pledge does have exemptions agreed at the outset, as a road cannot be resurfaced by two men and a bag of repair material.
- 4.5 There are three main repair methods for routine defects
- Pot hole repair using a propriety system design to be used without cutting out the edge of the hole, needs no compaction and is very quick to use. Under testing the product has a 95% pass rate on durability checks. It is regarded as a permeant repair. It will work in wet weather and can be used in very shallow defects that would require additional excavation with other methods. Minimal traffic management is required and there is little network interference. Up to 20 bags per day can be used in up to 20-25 locations per team. This method does not give a 'neat' finish.
 - Hot bitumen repairs of a few square meters. Carried out by a traditional tarmac gang using traffic management. The repairs need to be cut out to a square edge and to a minimum depth. The repair will need compaction in layers. Permanent and neat, this method can be carried out in damp conditions. Typically 5 tonnes of asphalt per day in 1-3 locations.
 - Jet Patching – hot jetted bitumen emulsion with added chippings which is spray applied. The process is good for dealing with shallow

defects, edge & joint deterioration, and surface stripping. The quality of finish varies dependant on location and it cannot be used in the wet. This method is often used for medium term repairs on failed top surfaces.

- 4.6 The choice of which repair system to use will depend on the nature of the defect and whilst a traditional repair will give a better finish the pot hole repair material is versatile and allows the pot holes team to cover very large numbers of repairs. This is a balance but with the emphasis on safety and cost rather than aesthetics the use of the quick fix is essential.
- 4.7 The main issue facing the teams at present is one of expectation, partly due to the success of the pot hole project and deterioration of the asset as a whole. The winter period 22/23 caused major issues in surface deterioration. A prime example would be the Mumbles Road near Blackpill, where the surface layer stripped over the period of a week. These types of defect are very noticeable and give an uncomfortable ride. These type of defect generate hundreds of request for pot holes to be dealt with along whole streets. These defects are not statutory, have been successfully defended in court and have no liability due to the shallow depth. They are too large an area to pot hole so they are added to the work list for the jetpatcher, this is currently under heavy demand and working extra days. The majority of 2023 was a catch up period following the winter damage. This is a typical cycle with damage over the winter and repairs following on over the summer.

5. Planned Maintenance Repairs

- 5.1 Planned maintenance or structural repairs, include both reactive and preventative treatments such as plane and resurface, surface dressing, micro asphalt, joint repairs and surface friction repairs.
- 5.2 The Authority considers a variety of different methods of repair and uses assessment approaches agreed across Wales, both visual and data based. This enables decisions on the most efficient and effective approaches for managing the network based on a mix of preventative, reactive and planned maintenance works.
- 5.3 The whole network is assessed on a routine basis every 5 years and the condition recoded this is a visual inspection by accredited engineers. There is also an annual survey undertaken by a Welsh Government contractor using data collection equipment to look at issues like ride quality and more importantly surface friction. Where deterioration in a street is noted it will be added to the maintenance pool for scoring, Around 30% of the network, some 2,000 streets are included in the maintenance pool. Any streets referred by safety inspections, staff, councillors and the public are given an adhoc assessment and if needed their status will be updated.
- 5.4 All streets of concern are scored using a risk based prioritisation method. Carriageway schemes will be selected based on a review of factors such

as network importance, condition, network use, accident statistics, main bus route, single point of access and likely deterioration. A score for each assessed road will be calculated and the highest scoring schemes will be programmed. This prioritisation will be balanced by the need to give cost effective packages of work of similar types (for instance, surface dressing requires a minimum quantity of work to be cost effective when considering site set up costs). In normal circumstances there will be a split of approximately 60/40 between corrective work (e.g. resurfacing a road in poor condition) and preventative work (e.g. extending the life of a road in average condition). This risk assessment process is currently under review.

5.5 The 5 year programme is based upon the scoring system as are any additional programmes of work from additional funding. Programming work in this manner is best practice and has been highlighted as such by the all Wales Highway Asset management project. The current programme runs from 2020 to 2025 but is approximately 1 year ahead of schedule due to the additional funding received during the pandemic. The programme for 22/23 is nearing completion and can be accessed at <http://www.swansea.gov.uk/highways>. The programme for 2023/24 will be posted once budgets and schemes have been finalised.

5.6 Once a road is identified as a priority there are different method of repair available depending on materials in place and condition. This includes

- Plane and resurface, a process used on poor condition roads where the top surface of the road is removed to be recycled and a new layer laid to existing levels.
- Surface dressing, a spray applied emulsion with chippings locked in, used where water penetration has damaged the road but overall the road is structurally sound. Improved surface friction. A much improved process with reduced amounts of loose chipping over historic methods, not used where there are heavy junctions, tight bends or in heavy residential areas. A preventive treatment use don roads starting to show signs of cracking.
- Micro-asphalt, a slurry applied process, thicker than surface dressing, a very resilient process and cost effective however initial aesthetics following application are poor as the materials needs time to be tracked prior to sweeping. A follow up visit need to deal with ironwork due to the slurry nature of the product. Can lead to complaints early on as aesthetically inferior to “proper” resurfacing.
- The Service is seeking to trial a system of tarmac rejuvenation. This is effectively a spray applied system that can extend existing surfacing lifespan by a substantial period for a fraction of the cost of resurfacing.

5.7 The materials used can also affect the outcomes and cost for example Ynysforgan roundabout was planed out and resurfaced a few years ago using a superior fibre reinforced asphalt at a cost of around £250k. A preference here due to high traffic intensity would have been to use hot

rolled asphalt which typically gives 10 years longer lifespan but at double the cost. Again, a balance is needed between individual schemes and network need/budget. The different treatments used can have an expected lifespan from 8 years and up to 25 years with costs ranging from £7.50/m² to £40/m². Our main product is £25/m² with a life expectancy before defect of 10-15 years. A move to warm mix (compared to traditional hot mix) tarmac is being considered, this is a more expensive product that has similar performance criteria but has a significantly reduced carbon footprint.

5.8 The PATCH programme of minor resurfacing works is complimentary to the main carriageway resurfacing programme and is run on a ward by ward basis. The budget has been increased over recent years to allow additional works and to cover material cost rises, with tarmac prices rising by excessively. This programme relies heavily on ward member participation in scheme selection and is designed to tackle roads that failed in part rather than along the whole length. Funding for 2023/24 is yet to be confirmed and should the additional funding not be available then the programme will be run on a reduced time frame but the philosophy will remain unchanged.

5.9 The different treatment programmes aim to provide the best solution for each particular road to ensure the most cost effective management of the network. Historically maintenance was carried out on a worst first basis and whilst this deals with the immediate issue, long terms this is not the most efficient approach. The higher the proportion of preventative maintenance that be undertaken the less the overall cost of maintenance in the long term. This is often the explanation given to why we are working on one road (carrying out preventative maintenance) when the neighbouring street is in a visibly worse condition.

6. Highway Drainage

6.1 Highway drainage is regularly considered in conjunction with land drainage and flooding. Land drainage and flooding will not be discussed in this report. A brief overview of the routine maintenance process will be outlined. It should be noted that highway drainage is in place to drain the highway and not for surface water flooding. There is an obvious connection and road drains provide a lot of assistance in managing localised flooding.

6.2 The Authority has 4 dedicated gulley tankers that carry out cleaning function on the road network. The 40,000 gullies are cleansed on a three-year cycle however a limited number of gullies are cleaned on a more frequent basis, where there is a significant need. In the last three years additional funding has allowed the service to bring in two additional gulley tankers and has allowed the service to cater for a limited number of reactive requests for gulley cleaning. It has also allowed frequent cleaning of those gullies most vulnerable to intense rainfall. The service believes that the pre-emptive cleansing of the "wet list" gullies prior to predicted heavy rainfall has prevented a number of flooding incidents. This service

works in a similar manner to the pot-hole pledge and has just received funding until 2028.

- 6.3 The additional funding has allowed new support software to be installed with a view to collecting further asset information on grips, kerb drains, soakaways, slot drains and other vital drainage assets. Information on these assets was previously sporadic and relied on individual staff to keep records of locations and priority.

7. Asset Management

- 7.1 As mentioned above Swansea Council is a member of the all Wales Asset Management Project. This project has been running over 10 years and is a collaboration between all Welsh councils. This has provided several standard tools used across Wales. Including the approach used to calculate the backlog figure and steady state maintenance requirements. It has also agreed best practice and given comparisons on systems of work. The Authorities work complies with all the recommendations of best practice.

- 7.2 The Authority prepares an annual status and options report which gives detailed information on current trends, predictions on spend profile compared to network condition.

- 7.3 There is a new project as part of the national work stream, which is the CSS(Wales) Carbon Project. The aim is to develop an agreed format for collecting carbon emission data and looking at new practices for carbon reduction. An example is the use of a warm mix tarmac with a lower production temperature which has significant savings and addition benefits to workability. This comes with a cost and again where budgets are tight, a balance needs to be made.

- 7.4 Highway Maintenance has been reviewed by the Scrutiny programme as follows:

Scrutiny has reviewed this service in:

- 2010 Winter Maintenance
- 2012 Highway Maintenance
- 2015 Street scene (incorporating Highway Maintenance)
- 2018 Roads and Footway Maintenance
- 2021 Highways and Engineering, Infrastructure and Maintenance
- 2023 Road Repairs

8. Future Challenges & Opportunities

- 8.1 The main challenges for the service in relation to this report are:-

- The need to ensure continuity of service against a backdrop of resource pressures

- Increasing demand and expectations from stakeholders, especially in relation to non-safety defects.
- Climate change with regard to both settlement due to ground water flow and freeze thaw damage during marginal winters.
- Increasing rainfall intensity and surface water flooding.

9. Risks

9.1 No corporate risks are recorded, whilst deterioration of the network and associated effects is a risk it is managed through good asset management procedures and regular reporting.

10. Legal Implications

10.1 There are no legal implications associated with this report.

11. Financial Implications

11.1 There are no financial implications associated with this report.

12. Integrated Assessment Implications

12.1 The Council is subject to the Equality Act (Public Sector Equality Duty and the socio-economic duty), the Well-being of Future Generations (Wales) Act 2015 and the Welsh Language (Wales) Measure, and must in the exercise of their functions, have due regard to the need to:

- Eliminate unlawful discrimination, harassment and victimisation and other conduct prohibited by the Acts.
- Advance equality of opportunity between people who share a protected characteristic and those who do not.
- Foster good relations between people who share a protected characteristic and those who do not.
- Deliver better outcomes for those people who experience socio-economic disadvantage
- Consider opportunities for people to use the Welsh language
- Treat the Welsh language no less favourably than English.
- Ensure that the needs of the present are met without compromising the ability of future generations to meet their own needs.

12.1.1 The Well-being of Future Generations (Wales) Act 2015 mandates that public bodies in Wales must carry out sustainable development. Sustainable development means the process of improving the economic, social, environmental and cultural well-being of Wales by taking action, in accordance with the sustainable development principle, aimed at achieving the 'well-being goals'.

12.1.2 Our Integrated Impact Assessment (IIA) process ensures we have paid due regard to the above. It also takes into account other key issues and

priorities, such as poverty and social exclusion, community cohesion, carers, the United Nations Convention on the Rights of the Child (UNCRC) and Welsh language.

12.2 This is an information only report, with no implications, therefore no IIA required.

Background papers: None

Appendices: None.

Agenda Item 5



Report of the Chair

Economy & Infrastructure Service Transformation Committee – 18 January 2024

Work Plan 2023-2024

Date of Meeting	Agenda Item(s) & Format	Lead Officer
8 June 2023	Work Plan Discussion	
20 July 2023	Local Economic Delivery Plan Strategic Framework. Swansea Bay Strategy Status Report	Paul Relf/Clare James Kristy Tillman
21 Sept 2023	Destination Management Plan.	Steve Hopkins
2 Nov 2023	Swansea Bay Strategy Projects.	Geoff Bacon
14 Dec 2023	Local Economic Delivery Plan.	Paul Relf/Clare James
18 Jan 2024	Maintenance of Road Infrastructure.	Stuart Davies
29 Feb 2024	More Homes Delivery Programme.	Carol Morgan
11 April 2024	Tawe Riverside Corridor Action Plan.	Gail Evans/Paul Relf

To be Scheduled:

Review of the Council's Housing Allocation Policy.
(Carol Morgan)