

## **Report of the Strategic Director of Place to the meeting of Shipley Area Committee on 13 September 2017**

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**Subject: Street Lighting Column Replacement Programme**

**Summary statement: This report seeks to advise members regarding the replacement of street lighting columns determined as non compliant and the subsequent recommendations as to how the West Yorkshire Local Transport Plan Funding allocation is most effectively utilised.**

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**Portfolio:  
Regeneration, Planning and Transport**

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**Overview and Scrutiny Area:  
Environment and Waste Management**

## **1.0 SUMMARY**

- 1.1 This report seeks to inform the Area Committee of the requirement to replace street lighting columns that have been identified as non-compliant. That is, they are in need of urgent replacement due their age and condition based upon the findings of inspections carried out during reactive maintenance visits.

## **2.0 BACKGROUND**

- 2.1 An essential part of the maintenance of the street lighting assets is to carry out visual inspection of each column, which provides valuable information as to the condition of the unit, specifically the structural integrity of the column.
- 2.2 Many of the steel columns were installed over 30 years ago and although a programme of external painting has prevented the columns from corroding on the outside the inside remains unprotected, and is therefore vulnerable.
- 2.3 There are also a significant number of concrete columns that are in excess of 30 years old which are prone to cracking as a result of corrosion to the steel reinforcing bars inside the columns which also require replacement when identified as non compliant.

## **3.0 OTHER CONSIDERATIONS**

- 3.1 When replacing life expired columns the most effective means is to replace on a scheme basis therefore not only replacing the columns but also improving the lighting to modern standards.
- 3.2 All new lighting installed as part of the column replacement programme is now energy efficient LED lighting saving around 50% of the energy used based on the energy consumption of the previous equipment, the new units can also be pre-programmed to reduce the lighting levels outside peak periods

## **4.0 FINANCIAL AND RESOURCE APPRAISAL**

- 4.1 The funding required for the Priority 1 schemes in Appendix 1 is estimated as £12500 which is allocated to the Shipley Area Committee.
- 4.2 The total West Yorkshire Local Transport Plan budget allocated to the Council by the Department for Transport is £132,400. This has been allocated between the Area Committees based upon the engineer's evaluation of condition to deal with the Priority 1 column replacement schemes based upon the value of the estimates.

## **5.0 RISK MANAGEMENT AND GOVERNANCE ISSUES**

5.1 There are no risk management and governance issues

## **6.0 LEGAL APPRAISAL**

6.1 The Council has a power under Section 97 of the Highways Act 1980 to provide and maintain street lighting columns.

## **7.0 OTHER IMPLICATIONS**

When lighting is replaced as a whole street or scheme there may be some columns that have been previously replaced as a result of accident damage or maintenance replacements, these columns are either designed around wherever possible for retaining in situ or carefully removed for re-use for reactive maintenance.

## **7.1 EQUALITY AND DIVERSITY**

7.1.1 There are no equal rights implications at this time

## **7.2 SUSTAINABILITY IMPLICATIONS**

7.2.1 Galvanised steel street lighting columns are recyclable when replaced on reaching the end of their design life which is likely to be in excess of 50 years; modern lanterns are constructed so that over 90% of the materials can also be recycled.

7.2.2 LED lanterns have an anticipated life in excess of 100,000 hours, which equates to around 25 years dramatically reducing the maintenance requirements when compared to traditional light sources.

## **7.3 GREENHOUSE GAS EMISSIONS IMPACTS**

Modern street lighting equipment is considerably more energy efficient than older apparatus, and when using variable lighting levels along with white light can significantly reduce the energy consumption and CO<sup>2</sup> emissions.

## **7.4 COMMUNITY SAFETY IMPLICATIONS**

7.4.1 Street lighting is a highly visible front line service. Good street lighting provides a vital function during the hours of darkness, protecting people and property and enhancing the night-time environment. Effective street lighting deters criminal activity and reduces road accidents.

## **7.5 HUMAN RIGHTS ACT**

7.5.1 There are no direct Human Rights implications arising from the recommendations below.

## **7.6 TRADE UNION**

7.6.1 There are no Trade Union implications in this item

## **7.7 WARD IMPLICATIONS**

7.7.1 Priority 1 Scheme in Appendix 1 is within Shipley Ward.

## **8 NOT FOR PUBLICATION DOCUMENTS**

8.1 There is no restriction on the publication of this report.

## **9.0 OPTIONS**

9.1 Members are asked to consider implementing the schemes listed in Table A of Appendix 1 which are prioritised with Priority 1 (being the schemes requiring the most urgent replacement as identified by site surveys). Designs and detailed estimates have been prepared for these schemes, a copy of these designs are in Appendix 2.

9.2 Members may choose to implement column replacement schemes from Table B in Appendix 1, budget estimates have been prepared for these schemes. However, it may be necessary to remove any non compliant columns for safety reasons should they not be replaced in this financial year

## **10.0 RECOMMENDATIONS**

10.1 That the Priority 1 street lighting column replacement scheme listed in Table A of Appendix 1 of the report be implemented..

## **11.0 APPENDICES**

11.1 Appendix 1 – Column Replacement Schemes for Area Committee consideration

11.2 Appendix 2 – Designs of column replacement schemes from Tables A & B in Appendix 1.

## **12.0 BACKGROUND DOCUMENTS**

None.

**Appendix 1 Column Replacement Schemes for Area Committee consideration**

**Table A - Priority 1 Schemes**

<b>Ward</b>	<b>Priority</b>	<b>Road</b>	<b>Estimate</b>
Shipley	1	Glenview Road	£12500
<b>Total</b>			<b>£12500</b>

**Table B - Other Schemes**

<b>Ward</b>	<b>Priority</b>	<b>Road</b>	<b>Estimate</b>
Windhill and Wrose	2	Thackley Old Road	£71835
<b>Total</b>			<b>£71835</b>

**Appendix 2 Designs for consideration**