

## **Briefing note – Glemsford Parish Council**

cc. Councillor Richard Kemp

### **Street Lighting**

#### **Purpose of the report.**

To inform the Parish of the current situation regarding street lighting in Glemsford including:

- 1) Units owned by the Parish Council
- 2) Identification of Parish owned units that conflict with Engineering Recommendation G39/1
- 3) Identification of Parish owned units that have lamp types no longer meeting EU legislation
- 4) Proposals to address 2 and 3 above.

#### **1.0 Units owned by the Parish Council**

Glemsford Parish Council owns approximately 163no. street lights that are mounted on a combination of columns and wooden poles. The units are maintained under a service agreement with Suffolk County Council (SCC) who in turn also purchase and recharge for the energy consumed.

The inventory of units owned by the Parish can be found in Appendix A of this report.

#### **2.0 Parish owned units that conflict with Engineering Recommendation G39/1**

Currently 37no. units of the Parish's lighting stock currently conflict with the G39/1 Engineering Recommendation. Engineering Recommendation G39/1 is where the existing unit is located within 1.5 metres of the nearest live electricity conductor and cannot be worked on safely by the maintenance contractor. Previously the only solution to units conflicting this recommendation was to remove the unit from the wooden pole and erect a new street lighting column. However SCC has been able to agree a solution with UK Power Networks (formerly EDF Energy) where an LED lantern, providing a 25 year life, can be left within the 1.5 metre safe working tolerance. In this instance the control box is required to meet G39/1 to enable the six year electrical test to be carried out and in some instances needs to be lowered on the pole; this provides a more cost effective option. *Prior to any work commencing, the Parish Council will provide authorisation to proceed and additionally UK Power Networks will need to assess the wooden poles before permission can be granted for any works to be carried out where units are mounted on their wooden poles.*

The Parish units that conflict with G39/1 are shown in Appendix B.

### **3.0 Parish owned units that contain lamps that no longer meet EU requirements**

101no. units owned by the Parish Council contain an MBFU (mercury) lamp (32no. of which are also conflict with G39/1). This lamp type is no longer manufactured as it does not comply with EU requirements (due to content of mercury) and it is only by the foresight of the SCC maintenance team in procuring all remaining spares throughout the UK that these can continue to be maintained. It is estimated that a maximum of 1-2 years remain before 'outages' become un-repairable. Appendix C details these units.

### **4.0 Proposals to Address Issues Raised**

As mentioned the county council are promoting the use of an LED 'Stela' white light lantern (as shown in Appendix D). This unit can be left within the G39/1 conflict area, has a 25 year guarantee and reduced energy consumption resulting in lower energy costs (it should be noted that energy costs increased by nearly 30% for the 2011/12 period). In addition it is envisaged that the forthcoming new contractual arrangements in April 2013 for street lighting will see a reduced maintenance cost where an LED unit is installed.

#### 5.1 G39/1 Solutions

In accordance with the Table in Appendix B, 37no. units currently conflict with the G39/1 Engineering Recommendation. To enable compliance, it is proposed to install the cost effective solution of the LED unit within the G39/1 tolerance, ensuring the control box location complies. The works will comprise:

- Removal of exiting lantern and bracket and disposal in accordance with WEEE (Waste Electrical and Electronic Equipment) European Directive
- Installation of new bracket (where specified) mounted on wooden pole, Stela LED 18w lantern, control box (outside G39/1 conflict area) and associated control gear.
- UK Power Networks disconnection of supply and reconnection into new control box.

Appendix E includes the associated cost for this option and energy saving compared to the status Quo. No allowance has been made for annual energy increases and it should be noted that this work *will not* remove the units from G39 conflict.

#### 5.2 MBFU Lantern Replacement to conform to EU requirements

101no. units owned by the Parish are currently of the type (MBFU) that does not comply with European Legislation due to their mercury content and subsequently these lamps are no longer manufactured. Appendix F outlines the cost for replacement with LED lanterns (69no. units are detailed not including the 32no. units that conflict with G39/1). The works will comprise:

- Removal of exiting lantern and disposal in accordance with WEEE (Waste Electrical and Electronic Equipment) European Directive

- Installation of new 18 LED lantern, and associated control gear.

## **6.0 Intelligent Lighting System**

Suffolk County council are currently implementing part night lighting. These proposals generally see the street lights turned off on columns of 6 metres in height or less, these are mainly in residential areas, between midnight and 5.30am.

Based on knowledge obtained from other authorities carrying out part night lighting, SCC has indentified certain locations where close examination of lighting levels and operating times needs consideration:-

- a) Lights at major junctions/roundabouts.
- b) In town centres where there is CCTV, high security businesses like banks, and/or areas of high night time pedestrian usage for example near nightclubs and train stations, outside community facilities like the British Legion or leisure centres.
- c) Areas where street lights are needed to reduce road accidents.
- d) Areas where there could be an increase in crime through reduced lighting, like pubs and specific residential areas.
- e) Remote alleys linking residential streets.
- f) Near, pedestrian crossings, footbridges, subways.
- g) In public car parks.
- h) At bus stops.
- i) At level crossings, speed humps and traffic lights.
- j) Where there is sheltered housing for the elderly

Should the Parish wish to utilise the Intelligent Lighting System (ILS), the running costs are met by SCC and the Parish is responsible for the capital cost to fit the system nodes to their units. The Parish council can also select the times they would like their units to operate. Further information regarding the SCC Policy is available at [www.suffolk.gov.uk/streetlighting](http://www.suffolk.gov.uk/streetlighting)

To install ILS nodes to the Parish Units would cost £ 7,335.00 and by adopting the midnight to 5:30am part night switching, an annual energy saving of £ 2,813.66 is achieved (without replacement of any fittings) as shown in Appendix G.

Should the nodes be fitted simultaneously as any lantern replacements, a saving of £10.00 per unit can be made.

## Appendix A -Units Owned in Glemsford by the Parish Council

STREET	UNIT NO	LOCATION
ANGEL LANE	50	O/S 16
ANGEL LANE	51	G39 OPP 25
ANGEL LANE	52	O/S GROVE FARM
BELLS LANE	138	O/S 3
BELLS LANE	139	G39 OPP 15 ON EDF POLE 52
BELLS LANE	140	G39 O/S SHANGRI LA
BELLS LANE	141	G39 JUNC STANWAY CLOSE ON EDF POLE
BRICES WAY	91	O/S 1
BRICES WAY	92	O/S 12
BRICES WAY	93	O/S 19
BROADWAY	7	G39 O/S 6
BROOK STREET	2	JUNC DUFFS HILL
BROOK STREET	3	O/S NO 67
BROOK STREET	4	G39 O/S 33
BROOK STREET	5	O/S 16
CAUSEWAY CLOSE	103	O/S 7
CHESTNUT ROAD	65	FIRST FROM LION ROAD
CHESTNUT ROAD	66	O/S 11
CHESTNUT ROAD	67	O/S 14
CHESTNUT ROAD	68	O/S 22
CHURCHGATE	142	JUNC OF PARK LANE
CHURCHGATE	143	O/S CHURCH
CHURCHGATE	167	OPP CHURCH ON GREEN
CHURCHGATE	168	BY ENTRANCE TO PARK FARM
CROWNFIELD ROAD	151	1ST COLUMN ON THE LEFT
CROWNFIELD ROAD	152	OPP WHITLANDS
CROWNFIELD ROAD	153	OPP 5
CROWNFIELD ROAD	154	OPP KEBBLES
CROWNFIELD ROAD	155	O/S 17
CROWNFIELD ROAD	173	R/O 17
DRAPERY COMMON	59	O/S HOLLYDON
DRAPERY COMMON	174	O/S NEVILLE HOUSE
DRAPERY COMMON	175	G39 O/S JRENICON
EGREMONT STREET	19	OUTSIDE OLD GARAGE OPPOSITE NO.2
EGREMONT STREET	20	OPP ANGEL LANE
EGREMONT STREET	21	OPP YE OLD COCK PUBLIC HOUSE
EGREMONT STREET	22	OPP 34
EGREMONT STREET	23	JUNC GREYHOUND ROAD
EGREMONT STREET	24	O/S 57
EGREMONT STREET	25	OPPOSITE GEORGE LANE
EGREMONT STREET	26	O/S TYRE CENTRE OPPOSITE NEW CUT
FAIR GREEN	6	G39 NEXT TO DOWNS
FAIR GREEN	137	OPP POST OFFICE LANE
FIRST AVENUE	102	O/S 15
FLAX LANE	53	G39 O/S HIGH BANK

FLAX LANE	54	ON WALKWAY TO EGREMONT STREET
FLAX LANE	162	ON EEB POLE 162 2ND LIGHT IN ROAD
FLAX LANE	176	O/S MILLBANK
FLAX LANE	177	O/S SHERWOOD
FOURTH AVENUE	118	O/S 10
FOURTH AVENUE	119	O/S 56
FOURTH AVENUE	120	O/S 68
FOURTH AVENUE	122	O/S 28
FOURTH AVENUE	123	O/S 18
GEORGE LANE	35	O/S 1 LODGE FARM ROAD
GOWERS END	94	OPP 2
GOWERS END	95	REAR OF 28
GOWERS END	96	O/S 9
GREYHOUND ROAD	36	OPP 3
GREYHOUND ROAD	37	O/S 9
GREYHOUND ROAD	38	O/S 24
GREYHOUND ROAD	39	O/S 19/20
HARPURS ROAD	60	FIRST FROM TYE GREEN
HARPURS ROAD	61	O/S 3
HARPURS ROAD	121	WALKWAY FROM FOURTH AVENUE TO KINGS ROAD
HARPURS ROAD	164	S/O 5 ON PATH TO FOURTH AVE/KINGS ROAD
HIGHBANK	132	(HIGHBANK) O/S 9
HIGHBANK	133	(HIGHBANK) SECOND COLUMN
HIGHBANK	134	(HIGHBANK) O/S 17
HIGHBANK	135	(HIGHBANK) O/S 12
HIGHBANK	182	BETWEEN 1 AND 18 HIGHBANK
HIGHBANK	183	O/S 11 HIGHBANK
HIGHBANK	184	O/S 11
HOLDSWORTH CLOSE	34	O/S 5
HUNTS HILL	16	G39 JUNCTION WITH DRAPERY COMMON ON EDF
HUNTS HILL	17	G39 O/S SOCIAL CLUB ON EDF LV POLE 2
HUNTS HILL	18	OPPOSITE WEAVERS DRIVE
HUNTS HILL	178	O/S 41 (9004 CONTRACTOR INVENTORY)
HUNTS HILL	188	O/S NO'S 1 AND 3
JAQUES CLOSE	99	O/S 4
JAQUES CLOSE	100	O/S 9
KEBBLES	179	ON FOOTPATH O/S 12 KEBBLES
KINGS ROAD	69	O/S 96
KINGS ROAD	70	O/S 76
KINGS ROAD	71	O/S 60
KINGS ROAD	72	OPP 53
KINGS ROAD	73	SIDE OF 1 SECOND AVENUE
KINGS ROAD	74	SIDE OF 2 FIRST AVENUE
KINGS ROAD	75	O/S 42
KINGS ROAD	76	O/S 186
KINGS ROAD	77	O/S 176
KINGS ROAD	78	O/S 164
KINGS ROAD	79	O/S 116

KINGS ROAD	80	OPP 79
KINGS ROAD	81	OPP 34
KINGS ROAD	82	O/S 32
KINGS ROAD	83	O/S 24
KINGS ROAD	84	O/S 14
KINGS ROAD	85	O/S 5
KINGS ROAD	86	JUNC PARK LANE
KINGS ROAD	87	ON FOOTPATH O/S NO.163 OPP NO.153
KINGS ROAD	88	O/S 135/137
KINGS ROAD	89	WALKWAY BESIDE 128
KINGS ROAD	90	ON FOOTPATH BETWEEN 70 AND 72 KINGS ROAD
KINGS ROAD	180	ON FOOTPATH OPP 156 (9002 ON CONTRACTOR
KINGS ROAD	181	HALFWAY ALONG FOOTPATH BETWEEN 63/65 AND
LION ROAD	8	O/S DOCTORS SURGERY
LION ROAD	9	OPP 17
LION ROAD	10	O/S BLACK LION PUBLIC HOUSE
LION ROAD	11	O/S BLACK HORSE PUBLIC HOUSE
NEW CUT	33	G39 O/S 7
ORCHARD WAY	32	O/S 4
PANNELS CLOSE	57	OPP 2
PANNELS CLOSE	58	O/S 8
PANNELS CLOSE	186	O/S 14
PARK LANE	144	G39 O/S PARKVIEW
PARKLANDS CLOSE	104	O/S 9
PATTICROFT	166	O/S NO.10
PATTICROFT	187	O/S 17
POST OFFICE LANE	158	FIRST LIGHT IN
SCHOOLFIELD	124	O/S 3/5
SCHOOLFIELD	125	O/S 19
SCHOOLFIELD	126	O/S 35
SCHOOLFIELD	127	O/S 39
SCHOOLFIELD	128	O/S 49
SCHOOLFIELD	129	O/S 56
SCHOOLFIELD	130	O/S 50
SCHOOLFIELD	131	O/S 28/30
SCHOOLFIELD	136	BESIDE EASTERN ELECTRICITY SUB STATION
SECOND AVENUE	101	O/S 8
SHEPHERDS LANE	64	SIDE OF SCHOOL
SKATES HILL	27	JUNC EGREMONT STREET
SKATES HILL	28	O/S STAR VIEW
SKATES HILL	31	ADJACENT ORCHARD WAY ENTRANCE
SKATES HILL	159	THIRD FROM A1092
SKATES HILL	160	SECOND FROM A1092
SKATES HILL	161	JUNC A1092
SLADES CLOSE	105	O/S 19
SLADES CLOSE	106	ON WALKWAY REAR OF 13
SPRING MEADOW	157	O/S 12
STANWAY CLOSE	147	FIRST FROM BELLS LANE
STANWAY CLOSE	148	SIDE OF 6

STANWAY CLOSE	149	O/S 12
STANWAY CLOSE	150	O/S 20/22
THE PIPPINS	107	O/S SIDE OF 15
THE PIPPINS	108	ON FOOTPATH SIDE OF 7
THE PIPPINS	109	O/S 23
THE PIPPINS	110	O/S 30
THE PIPPINS	111	OPP 14
THE PIPPINS	112	SIDE OF 17
THE PIPPINS	165	O/S 26
THIRD AVENUE	97	SIDE OF 16
THIRD AVENUE	98	O/S 5
TYE GREEN	12	G39 OPP CHERRY TREE PUBLIC HOUSE
TYE GREEN	13	G39 OPP 11
TYE GREEN	14	G39 O/S METHODIST CHURCH
TYE GREEN	185	O/S PLOUGH HOUSE BUNGALOW
TYE GREEN	189	O/S NO. 29
WEAVERS DRIVE	55	FIRST FROM HUNTS HILL
WEAVERS DRIVE	56	OPP 10
WHITLANDS	156	OFF CROWNFIELD ROAD O/S NO.9(MONROE)
WINDMILL ROW	145	G39 O/S 6
WINDMILL ROW	146	G39 O/S 14

## **Appendix B**

### **Parish Owned Units Conflicting with Engineering Recommendation G39/1**

<b>STREET</b>	<b>UNIT NO</b>	<b>LOCATION</b>
BROOK STREET	2	JUNC DUFFS HILL
BROOK STREET	3	O/S NO 67
BROOK STREET	4	G39 O/S 33
BROOK STREET	5	O/S 16
FAIR GREEN	6	G39 NEXT TO DOWNS
BROADWAY	7	G39 O/S 6
LION ROAD	8	O/S DOCTORS SURGERY
LION ROAD	9	OPP 17
LION ROAD	10	O/S BLACK LION PUBLIC HOUSE
LION ROAD	11	O/S BLACK HORSE PUBLIC HOUSE
TYE GREEN	12	G39 OPP CHERRY TREE PUBLIC HOUSE
TYE GREEN	13	G39 OPP 11
TYE GREEN	14	G39 O/S METHODIST CHURCH
HUNTS HILL	16	G39 JUNCTION WITH DRAPERY COMMON ON EDF
HUNTS HILL	17	G39 O/S SOCIAL CLUB ON EDF LV POLE 2
HUNTS HILL	18	OPPOSITE WEAVERS DRIVE
SKATES HILL	28	O/S STAR VIEW
NEW CUT	33	G39 O/S 7
GEORGE LANE	35	O/S 1 LODGE FARM ROAD
ANGEL LANE	50	O/S 16
ANGEL LANE	51	G39 OPP 25
ANGEL LANE	52	O/S GROVE FARM
FLAX LANE	53	G39 O/S HIGH BANK
FLAX LANE	54	ON WALKWAY TO EGREMONT STREET
BELLS LANE	138	O/S 3
BELLS LANE	139	G39 OPP 15 ON EDF POLE 52
BELLS LANE	140	G39 O/S SHANGRI LA
BELLS LANE	141	G39 JUNC STANWAY CLOSE ON EDF POLE
CHURCHGATE	142	JUNC OF PARK LANE
CHURCHGATE	143	O/S CHURCH
PARK LANE	144	G39 O/S PARKVIEW
WINDMILL ROW	145	G39 O/S 6
WINDMILL ROW	146	G39 O/S 14
POST OFFICE LANE	158	FIRST LIGHT IN
SKATES HILL	159	THIRD FROM A1092
SKATES HILL	160	SECOND FROM A1092
SKATES HILL	161	JUNC A1092
FLAX LANE	162	ON EEB POLE 162 2ND LIGHT IN ROAD
FLAX LANE	176	O/S MILLBANK



## Appendix C – MBFU Units

STREET	UNIT NO	LOCATION
BROOK STREET	2	JUNC DUFFS HILL
BROOK STREET	3	O/S NO 67
BROOK STREET	4	G39 O/S 33
BROOK STREET	5	O/S 16
FAIR GREEN	6	G39 NEXT TO DOWNS
BROADWAY	7	G39 O/S 6
LION ROAD	8	O/S DOCTORS SURGERY
LION ROAD	9	OPP 17
LION ROAD	10	O/S BLACK LION PUBLIC HOUSE
LION ROAD	11	O/S BLACK HORSE PUBLIC HOUSE
TYE GREEN	12	G39 OPP CHERRY TREE PUBLIC HOUSE
TYE GREEN	13	G39 OPP 11
TYE GREEN	14	G39 O/S METHODIST CHURCH
HUNTS HILL	16	G39 JUNCTION WITH DRAPERY COMMON ON EDF
HUNTS HILL	17	G39 O/S SOCIAL CLUB ON EDF LV POLE 2
HUNTS HILL	18	OPPOSITE WEAVERS DRIVE
EGREMONT STREET	19	OUTSIDE OLD GARAGE OPPOSITE NO.2
EGREMONT STREET	20	OPP ANGEL LANE
EGREMONT STREET	21	OPP YE OLD COCK PUBLIC HOUSE
EGREMONT STREET	22	OPP 34
EGREMONT STREET	23	JUNC GREYHOUND ROAD
EGREMONT STREET	24	O/S 57
EGREMONT STREET	25	OPPOSITE GEORGE LANE
EGREMONT STREET	26	O/S TYRE CENTRE OPPOSITE NEW CUT
SKATES HILL	27	JUNC EGREMONT STREET
SKATES HILL	28	O/S STAR VIEW
SKATES HILL	31	ADJACENT ORCHARD WAY ENTRANCE
ORCHARD WAY	32	O/S 4
NEW CUT	33	G39 O/S 7
HOLDSWORTH CLOSE	34	O/S 5
GEORGE LANE	35	O/S 1 LODGE FARM ROAD
GREYHOUND ROAD	36	OPP 3
GREYHOUND ROAD	37	O/S 9
GREYHOUND ROAD	38	O/S 24
GREYHOUND ROAD	39	O/S 19/20
ANGEL LANE	50	O/S 16
ANGEL LANE	51	G39 OPP 25
ANGEL LANE	52	O/S GROVE FARM
FLAX LANE	53	G39 O/S HIGH BANK
FLAX LANE	54	ON WALKWAY TO EGREMONT STREET
WEAVERS DRIVE	55	FIRST FROM HUNTS HILL
WEAVERS DRIVE	56	OPP 10
PANNELS CLOSE	57	OPP 2
PANNELS CLOSE	58	O/S 8

DRAPERY COMMON	59	O/S HOLLYDON
HARPURS ROAD	60	FIRST FROM TYE GREEN
HARPURS ROAD	61	O/S 3
SHEPHERDS LANE	64	SIDE OF SCHOOL
CHESTNUT ROAD	65	FIRST FROM LION ROAD
CHESTNUT ROAD	66	O/S 11
CHESTNUT ROAD	67	O/S 14
CHESTNUT ROAD	68	O/S 22
KINGS ROAD	69	O/S 96
KINGS ROAD	70	O/S 76
KINGS ROAD	71	O/S 60
KINGS ROAD	72	OPP 53
KINGS ROAD	73	SIDE OF 1 SECOND AVENUE
KINGS ROAD	74	SIDE OF 2 FIRST AVENUE
KINGS ROAD	75	O/S 42
KINGS ROAD	76	O/S 186
KINGS ROAD	77	O/S 176
KINGS ROAD	78	O/S 164
KINGS ROAD	79	O/S 116
KINGS ROAD	80	OPP 79
KINGS ROAD	81	OPP 34
KINGS ROAD	82	O/S 32
KINGS ROAD	83	O/S 24
KINGS ROAD	84	O/S 14
KINGS ROAD	85	O/S 5
KINGS ROAD	86	JUNC PARK LANE
KINGS ROAD	87	ON FOOTPATH O/S NO.163 OPP NO.153
KINGS ROAD	88	O/S 135/137
KINGS ROAD	89	WALKWAY BESIDE 128
KINGS ROAD	90	ON FOOTPATH BETWEEN 70 AND 72 KINGS ROAD
BRICES WAY	91	O/S 1
BRICES WAY	92	O/S 12
BRICES WAY	93	O/S 19
GOWERS END	94	OPP 2
GOWERS END	95	REAR OF 28
GOWERS END	96	O/S 9
THIRD AVENUE	97	SIDE OF 16
THIRD AVENUE	98	O/S 5
JAQUES CLOSE	99	O/S 4
JAQUES CLOSE	100	O/S 9
SECOND AVENUE	101	O/S 8
FIRST AVENUE	102	O/S 15
CAUSEWAY CLOSE	103	O/S 7
PARKLANDS CLOSE	104	O/S 9
SLADES CLOSE	105	O/S 19
SLADES CLOSE	106	ON WALKWAY REAR OF 13
THE PIPPINS	107	O/S SIDE OF 15
THE PIPPINS	108	ON FOOTPATH SIDE OF 7

THE PIPPINS	109	O/S 23
THE PIPPINS	110	O/S 30
THE PIPPINS	111	OPP 14
THE PIPPINS	112	SIDE OF 17
FOURTH AVENUE	118	O/S 10
FOURTH AVENUE	119	O/S 56
FOURTH AVENUE	120	O/S 68
HARPURS ROAD	121	WALKWAY FROM FOURTH AVENUE TO KINGS ROAD
FOURTH AVENUE	122	O/S 28
FOURTH AVENUE	123	O/S 18
SCHOOLFIELD	124	O/S 3/5
SCHOOLFIELD	125	O/S 19
SCHOOLFIELD	126	O/S 35
SCHOOLFIELD	127	O/S 39
SCHOOLFIELD	128	O/S 49
SCHOOLFIELD	129	O/S 56
SCHOOLFIELD	130	O/S 50
SCHOOLFIELD	131	O/S 28/30
HIGHBANK	132	(HIGHBANK) O/S 9
HIGHBANK	133	(HIGHBANK) SECOND COLUMN
HIGHBANK	134	(HIGHBANK) O/S 17
HIGHBANK	135	(HIGHBANK) O/S 12
SCHOOLFIELD	136	BESIDE EASTERN ELECTRICITY SUB STATION
FAIR GREEN	137	OPP POST OFFICE LANE
BELLS LANE	138	O/S 3
BELLS LANE	139	G39 OPP 15 ON EDF POLE 52
BELLS LANE	140	G39 O/S SHANGRI LA
BELLS LANE	141	G39 JUNC STANWAY CLOSE ON EDF POLE
CHURCHGATE	142	JUNC OF PARK LANE
CHURCHGATE	143	O/S CHURCH
PARK LANE	144	G39 O/S PARKVIEW
WINDMILL ROW	145	O/S 6
WINDMILL ROW	146	O/S 14
STANWAY CLOSE	147	FIRST FROM BELLS LANE
STANWAY CLOSE	148	SIDE OF 6
STANWAY CLOSE	149	O/S 12
STANWAY CLOSE	150	O/S 20/22
CROWNFIELD ROAD	151	1ST COLUMN ON THE LEFT
CROWNFIELD ROAD	152	OPP WHITLANDS
CROWNFIELD ROAD	153	OPP 5
CROWNFIELD ROAD	154	OPP KEBBLES
CROWNFIELD ROAD	155	O/S 17
WHITLANDS	156	OFF CROWNFIELD ROAD O/S NO.9(MONROE)
SPRING MEADOW	157	O/S 12
POST OFFICE LANE	158	FIRST LIGHT IN
SKATES HILL	159	THIRD FROM A1092
SKATES HILL	160	SECOND FROM A1092
SKATES HILL	161	JUNC A1092

FLAX LANE	162	ON EEB POLE 162 2ND LIGHT IN ROAD
HARPURS ROAD	164	S/O 5 ON PATH TO FOURTH AVE/KINGS ROAD
THE PIPPINS	165	O/S 26
PATTICROFT	166	O/S NO.10
CHURCHGATE	167	OPP CHURCH ON GREEN
CHURCHGATE	168	BY ENTRANCE TO PARK FARM
CROWNFIELD ROAD	173	R/O 17
DRAPERY COMMON	174	O/S NEVILLE HOUSE
DRAPERY COMMON	175	G39 O/S JRENICON
FLAX LANE	176	O/S MILLBANK
FLAX LANE	177	O/S SHERWOOD
HUNTS HILL	178	O/S 41 (9004 CONTRACTOR INVENTORY)
KEBBLES	179	ON FOOTPATH O/S 12 KEBBLES
KINGS ROAD	180	ON FOOTPATH OPP 156 (9002 ON CONTRACTOR
KINGS ROAD	181	HALFWAY ALONG FOOTPATH BETWEEN 63/65 AND
HIGHBANK	182	BETWEEN 1 AND 18 HIGHBANK
HIGHBANK	183	O/S 11 HIGHBANK
HIGHBANK	184	O/S 11
TYE GREEN	185	O/S PLOUGH HOUSE BUNGALOW
PANNELS CLOSE	186	O/S 14
PATTICROFT	187	O/S 17
HUNTS HILL	188	O/S NO'S 1 AND 3
TYE GREEN	189	O/S NO. 29

## **Appendix D**

'Stela' Lantern (LED White Light)



**Appendix E**

5.1 Costs (G39/1) Based on existing lighting switching off between midnight and 05:30

**Appendix F - 5.2 Lantern Replacement with LED to conform to EU requirements**

*No allowance has been made for annual energy increases.*

**Appendix G - 6.0 Energy Savings Utilising Intelligent Lighting System**

Retaining Existing Equipment (Status Quo) and switch off between midnight and 05:30

	Watts	Circuit Watts	Quantity	Energy Cost Tariff 'X' (4034 hours)	Energy Cost Part night lighting with 'Trimming' (2106 hours)	Energy saving per annum
SON	70	84	33	£ 1,157.79	£ 604.44	£ 553.35
SON	50	62	21	£ 543.81	£ 283.90	£ 259.91
SON	100	114	3	£ 142.84	£ 74.57	£ 68.27
MBFU	80	94	101	£ 3,965.38	£ 2,070.18	£ 1,895.20
PLT	42	47	3	£ 58.89	£ 30.75	£ 28.15
LED	18	22	2	£ 18.38	£ 9.59	£ 8.78
<b>TOTAL</b>			<b>163</b>	<b>£5,887.09</b>	<b>£3,073.43</b>	<b>£ 2,813.66</b>

The payback period for installing the ILS and part night lighting between midnight and 05:30 is 2.6 years.

Replacement of lanterns to LED and switch off between midnight and 05:30

Lamp type	Watts	Circuit Watts	Quantity	Energy Cost Part night lighting with 'Trimming' (2106 hours)	Energy saving per annum
LED	18	22	163	£ 781.93	
<b>TOTAL</b>			<b>163</b>	<b>£ 781.93</b>	<b>£5,105.16</b>

Where LED units are installed and part night settings implemented, the annual energy saving is £5,105.16 per annum. If energy prices rise, this figure will increase accordingly.