# NG SAMPLE APPENDIX 14/1: SITE RECORDS

*[Note to compiler: Include as appropriate:]*

1. As-built drawings will be produced by the Engineer/shall be produced by the contractor, on...... number copies

of drawing no...... which will be provided by the Engineer and shall be in accordance with the requirements of

Clause 1402.

1. Motorway communications details shall/shall not be included on the drawings.
2. Indicate the details to be provided 11402).

# NG SAMPLE APPENDIX 14/2: LOCATION OF LIGHTING UNITS AND FEEDER PILLARS

*[Note to compiler: Include either:]*

The position and description of Lighting Units and feeder pillars are shown on the following drawings.......

*[or:]*

The position and description of Lighting Units and feeder pillars are scheduled below:

|  |  |
| --- | --- |
| **Description of Equipment** | **Location of Equipment** |
|  |  |

*[Notes to compiler:*

1. *Information on the design of road lighting in accordance with the appropriate Part or Parts of BS 5489*

*implemented by the relevant Standard may be included.*

1. *The various types of Lighting Unit will call for different location dimensions and descriptions. Both position*

*and description entries may be divided into normal and special categories for drawings or schedules.*

1. *Details of the electricity supply (i.e. single –phase 230V or three-phase 400V, 50 Hz) should be stated.]*

# NG SAMPLE APPENDIX 14/3: TEMPORARY LIGHTING

# *[Note to compiler: Include here:]*

* 1. The requirements for any temporary lighting. *[For example, for traffic management during temporary diversions for traffic, and at central reserve crossovers.]*
  2. The requirements for any advance fixed Road Lighting Units, *[in final positions as far as practicable]*

to fulfil the requirements of (i).

# NG SAMPLE APPENDIX 14/4: ELECTRICAL EQUIPMENT FOR ROAD LIGHTING

The Contractor shall insert below details of the equipment which he proposes to use in the Works and shall submit the information as soon as the Contract has been awarded.

### Lanterns and Lamps

The lanterns shall be compatible with the columns and brackets offered in Appendix 13/2 and the information shall include the lamp type and wattage and luminaire circuit wattage, lantern circuit wattage and toe in angle of applicable.

*[The compiler should state here any particular requirements described in NG 1407. For example: lantern design attitude, lantern (glare control) classification, LTI, MTI, flat glass or bowl or other, IP (Ingress Protection) enclosure rating, any exclusion of PECU sockets, mounting height (nominal), ratings of fuses in integral gear compartments. Specification for lamps used in the Contract. Location of PECs.]*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Manufacturer | Cat.No. | Glare Control Class (TI) | IP Rating | PECU  Socket | (Design Table Ref. No.)\* | (Isoluminance Template Ref. No.)\* |
|  |
|  |  |  |  |  |  |  |

*[\*If required, to ensure the assembly of Road Lighting Units conforms to the performance requirements of BS 5489 : Part 2.]*

### Ancillary Equipment

*[Note to compiler : Include here:]*

1. The positioning of equipment described in Clauses 1411 to 1416 within the base compartment of columns.
2. Requirements for wiring and installation of components within columns *[1419.1]*.
3. Requirements for group switching *[1409.4]*.
4. Data required related to gear losses and power factor.

# NG SAMPLE APPENDIX 14/4: ELECTRICAL EQUIPMENT FOR ROAD LIGHTING (Continued)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Clause** | **Item** | **Manufacturer** | **Catalogue or**  **Type No** | **Requirements**  *[Compiler to*  *complete]* |
| 1409 | Photoelectroinic  control |  |  | Differential and switching levels (If required) |
|  |  |  |
|  |  |  |
| 1410 | Shorting plug |  |
| 1411 | Time Switches |  |
| 1412 | Ballasts |  |
| 1413 | Ignitors |  |
| 1414 | Starters |  |
| 1415 | Capacitors |  |
| 1416 | Cut-outs | Current rating |
|  | Fuse Holders | Conductor size |
|  | Fuse Links | Current rating |
|  | MCBs | MCB class |
| 1419 | Wiring |

*Note: Compiler may add other items.*

### Feeder Pillars

Feeder pillars shall be suitable for the layouts shown on drawing nos......... and conform with the requirements shown on the Drawings and in the following list.

*[The compiler should state here:]*

1. Any particular requirements for locks, keys, circuit details, earth electrodes.
2. Requirements for the bonding conductor cross-sectional area and for earth electrode [1420]
3. Requirements for labelling [1418.8]
4. Materials to be used, Constriction Details.

|  |  |  |
| --- | --- | --- |
| **Location of Feeder Pillar** | **Manufacturer** | **Catalogue No.** |
|  |  |  |

# NG SAMPLE APPENDIX 14/4: ELECTRICAL EQUIPMENT FOR ROAD LIGHTING (Continued)

1. **Cables and Cable Joints**

*[The compiler should state here:]*

1. References to drawings which show requirements for the installation of cable covers *[1421.3]*.
2. Reference to drawings which show cable lines, cable joints and cable joint marker blocks *[1421.4, 1422.3,*

*1422.6].*

1. Requirement for cable trenches: Particular requirements for ducts should be listed in Appendix 5/2 [1421.4 NG 1421.2].
2. Particular requirements for cable laying, additional protection and support *[1421.5]*.
3. Requirement for cables following the same route if different from the requirement of sub-Clause 1421.7.
4. Requirements for installation of power supply cables adjacent to communication cables if different from the

requirements of sub-Clause 1421.8.

1. Reference to drawings which show identifying marks to be indented in permanent marker blocks *[1421.11]*.

*[Cross-reference should be made to RCD drawing where appropriate]*.

1. Requirements for terminating armoured cables *[1423.1].*

|  |  |  |
| --- | --- | --- |
| *Location of*   1. *Cables* 2. *Cable Joints* | *Manufacturer* | *Catalogue No. Reference No.*  *or Name of Cable* |
|  |  |  |

# NG SAMPLE APPENDIX 14/5: ELECTRICAL EQUIPMENT FOR TRAFFIC SIGNS

# *[Note to compiler: Include here:]*

1. The positioning of equipment described in Clauses 1411 to 1416 within the base compartment of posts

*[1417.1]*.

1. Requirements for wiring and installation of components within posts and Lit Sign Units *[1419.1]*.
2. Special requirements for illumination and electrical work on or to gantries [1220.3].

*[Note to compiler: Electrical equipment for traffic signals, should be described in Appendix 1215].*

# NG SAMPLE APPENDIX 1476: PREPRARATION AND FINISH OF METAL AND OTHER SURFACES

# *[Note to compiler: State here the Preparation and Finish required for enclosures, fixings and other ancillaries. The requirements indicated in NG 1425 may be used.]*