N7TA C24N: 2013



NOTES ON THE SPECIFICATION FOR THE MAINTENANCE OF HIGHWAY LIGHTING

1. GENERAL

These notes are for the guidance of Supervising Officers only and must not be included in the contract documents. NZTA Specification C1 should be used in conjunction with this specification.

2. DRAWINGS AND RECORDS

The Engineer will be required to provide to the Contractor adequate as-built drawings of lighting and cabling layouts and particularly ESA control points. The maintenance of these records from the Contractor's inspection reports is the responsibility of the Engineer.

If the as-built drawings are not held by the Road Controlling Authority these must be obtained. A possible source might be the ESA.

Details of all lantern and lamp types, including their locations, should be provided as part of the tender documents.

3. ROAD CONTROLLING AUTHORITY/ESA OWNED EQUIPMENT

The current highway lighting system may be closely linked with a particular ESA's lighting circuits and independent sections of solely Road Controlling Authority owned equipment and cabling may be initially difficult to define. However, the Road Controlling Authority is required to obtain competitive maintenance tenders and the Engineer should consider working towards achieving independent sections of solely Road Controlling Authority owned circuits.

The Engineer shall schedule all columns, lanterns, and equipment that are owned by the Road Controlling Authority.

4. PLANNED REPLACEMENT

Planned replacement of equipment (replacement of rigid columns with frangible columns for example) during the contract period shall be stated in the Contract documents.

5. COLUMN HOLDING DOWN BOLTS

In some areas more frequent checking or torque checks may be specified by the Engineer.

6. CLEANING

SP/SC24N: 2013 0130730

Where lighting falls below the design standard required due to environmental conditions regular cleaning may be specified by the Engineer.

7. REPLACEMENT OF LAMPS

The Engineer should specify the replacement cycle required for lamps, depending on the time since completion of the last cycle and the lamp type. In general lamps should be replaced (and cleaned) on the following basis:

MV - replace after three years use SOX - replace after 18 months use

Single fluorescent

tubes and startersreplace after 12 months useSON, FTreplace on failure only.

8. NUMBERING OF COLUMNS

Should the Engineer require an initial numbering of columns the requirement should be scheduled separately.

9. REMEDIAL WORK

The Engineer must identify all locations that do not meet the standards expected of the Contractor. These locations must be raised to these standards prior to enforcement of contractual obligations under this contract.

10. COLUMNS

SP/SC24N: 2013 0130730

Replacement columns should be frangible (in line with the NZ Transport Agency's State Highway Policy and Procedure manual section 4.19.2(2)).

INDICATIVE PAYMENT SCHEDULE

SP/SC24N: 2013 0130730

ITEM	DESCRIPTION	UNIT	RATE
1	Routine inspection, recording and		
	reporting.	LS	per year
2	Routine Lamp Replacement:		
	SOX types and ratings	LS	per cycle
	SON types and ratings	LS	per cycle
	MV	LS	per cycle
	Fluorescent tubes and starters	LS	per cycle
3	Remedial Work:		
	- Labour	hour	
	- Identified Plant and Vehicles		
		hour	
	Materials:	noui	
	- columns: types and lengths		
	- lamps: types and ratings	each	
	- outreach arms: types and lengths	each	
	- inground bases.	each	
	inground buses.	each	
		Cacii	
4	Materials:		
		%	
	On-cost on invoice for minor materials not		
	scheduled above.		
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The payment schedule should allow the Contractor to schedule all his intended materials, types, lengths etc.