

Federal-Aid Policy Guide

July 6, 2005, [Transmittal 34](#)

NS 23 CFR 646B

Attachment 1

**Non-Regulatory Supplement
Attachment**

OPI: HSA-10

EXAMPLE OF AN ESTIMATE OF COST FOR GRADE CROSSING WARNING DEVICES TO SUPPORT AN AUTHORIZATION TO PROCEED WITH CONSTRUCTION UNDER AN ACTUAL COST AGREEMENT

1. Description of Improvement

Installation of two automatic gate units with cantilever mounted flashing light signals controlled by motion sensor and other track circuit equipment at the crossing of ___ Road and a single main line track, replacing existing reflectorized crossbuck signs.

2. Estimate of Cost

ITEM	QUANTITY	AMOUNT
Preliminary Engineering	_____	_____
Construction Engineering	_____	_____
Material		
Automatic gate signal	_____	_____
Cantilever mounted flashing light signals	_____	_____
Motion sensor	_____	_____
(any other major item)	_____	_____
Other Material	_____	_____
Total Material	_____	_____
Transportation of Material	_____	_____
Store expense	_____	_____
Equipment		_____
Labor		
Direct Labor		_____
Holidays, Vacation, and pension		_____
Payroll taxes		_____
Insurance		_____
Meals and lodging		_____
Total Labor		_____
Contingencies		
Total Cost		_____
Less Credit for salvage		_____
Net Total		_____

3. NOTE: Where agreed to by the State and the railroad and concurred in by FHWA, this estimate format may be used for any program or agreement purpose except for support of an authorization to proceed with construction under a lump sum agreement.

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