Electrical estimate: Maple Grove Public School, 3 classroom upgrade

Prepared for: Sample Electric Ltd. · Tender closes: March 12 · Building electrical only

1. Bid summary (for you only, never sent to the general contractor)

Part	Amount	Basis
Labour	$7,443.75	99.25 hours × $75.00 sample crew rate
Material	$9,750.00	See section 4
Permit and inspection	$450.00	Allowance
Overhead and profit	$2,646.56	15% (your number, confirmed before pricing)
Fire alarm vendor allowance	$2,500.00	Board's approved vendor, at our cost (sheet E0-01)
Total	**$22,790.31**	**Suggested bid: $22,800.00 plus Harmonized Sales Tax**

2. Documents reviewed

Document	Sheets or pages	Notes
Electrical drawings	E0-01, ED-01, E1-02, E1-04, E2-01	Main source for counts
Architectural ceiling plan	A-301	Checked against the lighting layout. 2 fixtures differ (question 1)
Specifications	Division 26 (12 pages)	Wiring method, testing, closeout
Addendum 1	1 page	Moves 2 receptacles in Room 104. Included

3. Takeoff and labour, with the sheet for every count

System	Item	Qty	Sheet	Hours
Power and devices	Duplex receptacle, 15 A, new box	18 each	E1-02	13.50
Power and devices	New 20 A branch circuit, home run to panel LP-2	6 each	E1-02	18.00
Power and devices	Panel LP-2: 6 new breakers, updated directory	1 lot	E2-01	6.00
Lighting and controls	2x4 LED troffer, new (supplier quote)	24 each	E1-04	24.00
Lighting and controls	Ceiling occupancy sensor	6 each	E1-04	4.50
Lighting and controls	Low-voltage switch station	3 each	E1-04	2.25
Life safety	LED exit sign, to match existing	4 each	E1-04	5.00
Life safety	Emergency battery unit with 2 heads	2 each	E1-04	3.00
Demolition	Remove existing fluorescent fixtures	24 each	ED-01	9.60
Data rough-in	Data box with empty conduit and pull string to ceiling	9 each	E1-02	5.40
Closeout	Permit, testing, labels and as-built drawings	1 lot	E0-01	8.00

System	Item	Qty	Sheet	Hours
	Total labour hours			**99.25**

Labour by system	Hours	Labour
Power and devices	37.50	$2,812.50
Lighting and controls	30.75	$2,306.25
Life safety	8.00	$600.00
Demolition	9.60	$720.00
Data rough-in	5.40	$405.00
Closeout	8.00	$600.00

4. Material and quote list (nothing left at zero)

Item	Amount	Status
Devices, boxes, wire and conduit	$3,180.00	Priced from current supplier list
24 LED troffers	$4,560.00	Supplier quote received (sample)
Exit signs and emergency units	$1,140.00	Priced from current supplier list
Occupancy sensors and switch stations	$870.00	Priced from current supplier list
Total material	**$9,750.00**	

5. Scope check: who supplies and installs what

Item	Supply	Install	Source
Receptacles, circuits, panel work	Us	Us	E1-02, E2-01
LED troffers, sensors, switches	Us	Us	E1-04
Data cabling and jacks	Board's IT team	Board's IT team	E0-01 note 8 (we do boxes and empty conduit only)
Fire alarm devices and verification	Approved vendor (our cost)	Vendor	E0-01 note 6
Thermostat and controls	Controls contractor	Controls contractor	Mechanical notes
Patching and painting	General contractor	General contractor	Specifications, Division 1

6. Questions to send the general contractor

1. Lighting plan E1-04 shows 24 troffers, but ceiling plan A-301 shows 26. Which one governs? (We carried 24.)

2. Note 2.1 on E0-01 says all wiring in conduit. Is armoured cable accepted for drops inside existing walls?

3. Who is the school board's approved fire alarm vendor? We carried a $2,500 allowance until we have their quote.

4. Can the work in occupied classrooms be done during regular hours, or is after-hours work required?

7. Open items before you submit

• Confirm panel LP-2 has 6 spare breaker spaces (site visit).

• Get the fire alarm vendor quote to replace the allowance.

• Check the counts above against the drawings. You make the final call.

8. Proposal for the general contractor (goes on your letterhead)

No crew, rates or markup are shown. The general contractor sees your price and your terms only.

[YOUR COMPANY LETTERHEAD]

To: Estimating Department, [General contractor name]
Re: Maple Grove Public School, 3 classroom upgrade: electrical

We are pleased to quote the electrical work for the above project, as shown on drawings E0-01, ED-01, E1-02, E1-04 and E2-01 and Addendum 1, for the sum of:

$22,800 plus Harmonized Sales Tax

Included
- Removal of existing fixtures and new LED lighting with occupancy controls
- New receptacles, branch circuits and panel work
- Exit signs and emergency lighting
- Boxes and empty conduit for data
- Fire alarm work by the board's approved vendor (allowance of $2,500 included)
- Electrical permit, inspection, testing and as-built drawings

Clarifications
- Price is based on 24 troffers as shown on E1-04
- Work during regular hours
- Armoured cable used for drops inside existing walls, where accepted

Exclusions
- Patching and painting
- Data cabling and jacks
- X-ray scanning of slabs
- After-hours or weekend work
- Work not shown on the drawings listed above

This price is valid for 30 days from the tender closing date.

[Your name]
[Your company] · [Phone] · [Email]