

S
Street Lights - Cost Comparison

Oxford

NO. 753 1/3

ESSENTIALS

10%



Financial Cost Comparison

Arapaho Phase III - Surveyor Blvd. to Addison Rd.

OPTION A (done this way in Phase II)

Assumptions:

Contractor provides light foundations, conduit, and pullboxes

Oncor provides wiring, light standards (poles, luminaires, mast arms), and power service (riser, transformer, controller).

Oncor provides electricity, operations and maintenance for flat monthly rate per light (no meter).

[Redacted]

Oncor

DESCRIPTION	UNIT	QUANTITY	COST/UNIT	TOTAL
Foundation, 40' street light pole	EA	24	\$ 800.00	\$ 19,200.00
Pullbox	EA	4	\$ 650.00	\$ 2,600.00
Conduit, 2" schedule 40 PVC	LF	5,364	\$ 7.00	\$ 37,548.00
Roadway Illumination Assembly, 40' MH, 400W Rectangular Luminaire	EA	24		\$ -
Electrical Conductor (No. 8) Insulated	LF	10,728		\$ -
Electrical Conductor (No. 8) Bare	LF	5,364		\$ -
Electrical Service Type D (120/240) 060 (ns) (t) tp (o)	EA	1		\$ -
Subtotal:				\$ 59,348.00
Flat monthly rate paid to Oncor for electricity, operations, and maintenance:				
TOTAL:				\$ 59,348.00

} This is a lump sum cost per light paid to Oncor

OPTION B

Assumptions:

Contractor provides light foundations, conduit, and pullboxes

Contractor provides wiring, light standards (poles, luminaires, mast arms), and power service (riser, transformer, controller).

Town of Addison provides operations and maintenance.

Oncor provides metered service and charges Town of Addison for electricity usage.

DESCRIPTION	UNIT	QUANTITY	COST/UNIT	TOTAL
Foundation, 40' street light pole	EA	24	\$ 800.00	\$ 19,200.00
Pullbox	EA	4	\$ 650.00	\$ 2,600.00
Conduit, 2" schedule 40 PVC	LF	5,364	\$ 7.00	\$ 37,548.00
Roadway Illumination Assembly, 40' MH, 400W Rectangular Luminaire	EA	24	\$ 3,000.00	\$ 72,000.00
Electrical Conductor (No. 8) Insulated	LF	10,728	\$ 0.62	\$ 6,651.36
Electrical Conductor (No. 8) Bare	LF	5,364	\$ 0.55	\$ 2,950.20
Electrical Service Type D (120/240) 060 (ns) (t) tp (o)	EA	1	\$ 3,500.00	\$ 3,500.00
Subtotal:				\$ 144,449.56
Monthly cost of metered electricity paid to Oncor :				
Cost of Town of Addison staff for operations, and maintenance:				
TOTAL:				\$ 144,449.56

Note that Subtotal is an up front one time cost, while the monthly rate is continuous overtime. In order to add the two, a life expectancy of the structure will have to be assumed and the net present value of the monthly rate over that time period calculated.