Oxford.

NO. 753 1/3





AGENDA Town of Addison Lighting Standards 27 October 2003

- Lighting Solutions Development
 - o Color Options
 - o Banner Options
 - o K Clad
 - Color Kinetics
- Addison Road Simulation
- Lighting Issues
 - o Curb Setback
 - o D.O.T. Compliance
 - o Accessory Power
 - o Other Utilities
 - "Back of House"
- Schedule Update
- Next Steps

ζĠ

5430 LBJ Freeway Three Lincoln Centre Suite 400

Dallas Texas 75240

Tel: 214. 273. 1500 Fax: 214. 273. 1505

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).

DESCRIPTION	UNIT	QUANTITY	CO	ST/UNIT	32.7	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	\$	2,427.00	\$	58,248.00
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	经第30 亿字			\$	-

Flat monthly rate paid to Oncor for operations, maintenance non-bypassables). (Assumes 24 standards & luminaries @ Schedule A Rate)

Monthly cost of estimated electricity paid to REP: (assumes \$.05 per kwh chg.)

Subtotal: \$ 117,596.00 341.76

192.00

TOTAL: \$ 213,672.80

TOTAL: \$ 245,998.36

ASSUMPTIONS:

Evaluation period:

Oncor Schedule A:

Oncor Schedule D:

REP power rate:

paid to Oncor

Oncor Cust. & Meter Chg.

kWh Consumption per light

kWh non-bypassable charges

This is a lump sum cost per light

Annual Town Maintenance

Number of lights:

Using Tariff 6.1.1.6 - Lighting Service

15

24

160

4.85

0.05 \$ 3,000

\$ 0,0015

14.00

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	C	OST/UNIT	9. j. S. S.	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 (assumes \$4.85 charge & \$.0015 per kwh chg.)

Monthly cost of metered electricity paid to REP: (assumes \$.05 per kwh chg.)

Cost of Town of Addison staff for operations, and maintenance:

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 calcul

Financial Cost Comparison

Arapaho Phase III - Surveyor Blvd. to Addison Rd.

OPTION A (done this way in Phase !I)

Assumptions:

Contractor provides light foundations, conduit, and pullboxes

Oncor

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).

DESCRIPTION	UNIT	QUANTITY.	GOST/UNIT	<i>3</i> 755€	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		\$ 2,427.00		58,248.00
Electrical Conductor (No. 8) Insulated	LF	10,728		\$	-
Electrical Conductor (No. 8) Bare					-
Electrical Service Type D (120/240) 060 (ns) (t) tp (o)	EA	45		\$	•

Flat monthly rate paid to **Oncor** for operations, and maintenance over 15 years. (Assumes 24 standards & luminaries @ Rectangular Rate)

Monthly cost of estimated electricity paid to REP: (assumes \$.05 per kwh chg.)

ubtotal:	\$	117,596,00
350.80		
192.00	,	1 15 17
OTAL:	\$	352,416.80

TOTAL: \$ 249,940.36

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	့်©	OST/UNIT	() × 3	TOTAL
Foundation, 40' street light pole	EA	24	\$	800,00	\$	19,200.00
Pulibox	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 (assumes \$13.50 fixed charge & \$.034 per kwh chg.)

Monthly cost of metered electricity paid to REP: (assumes \$.05 per kwh chg.)

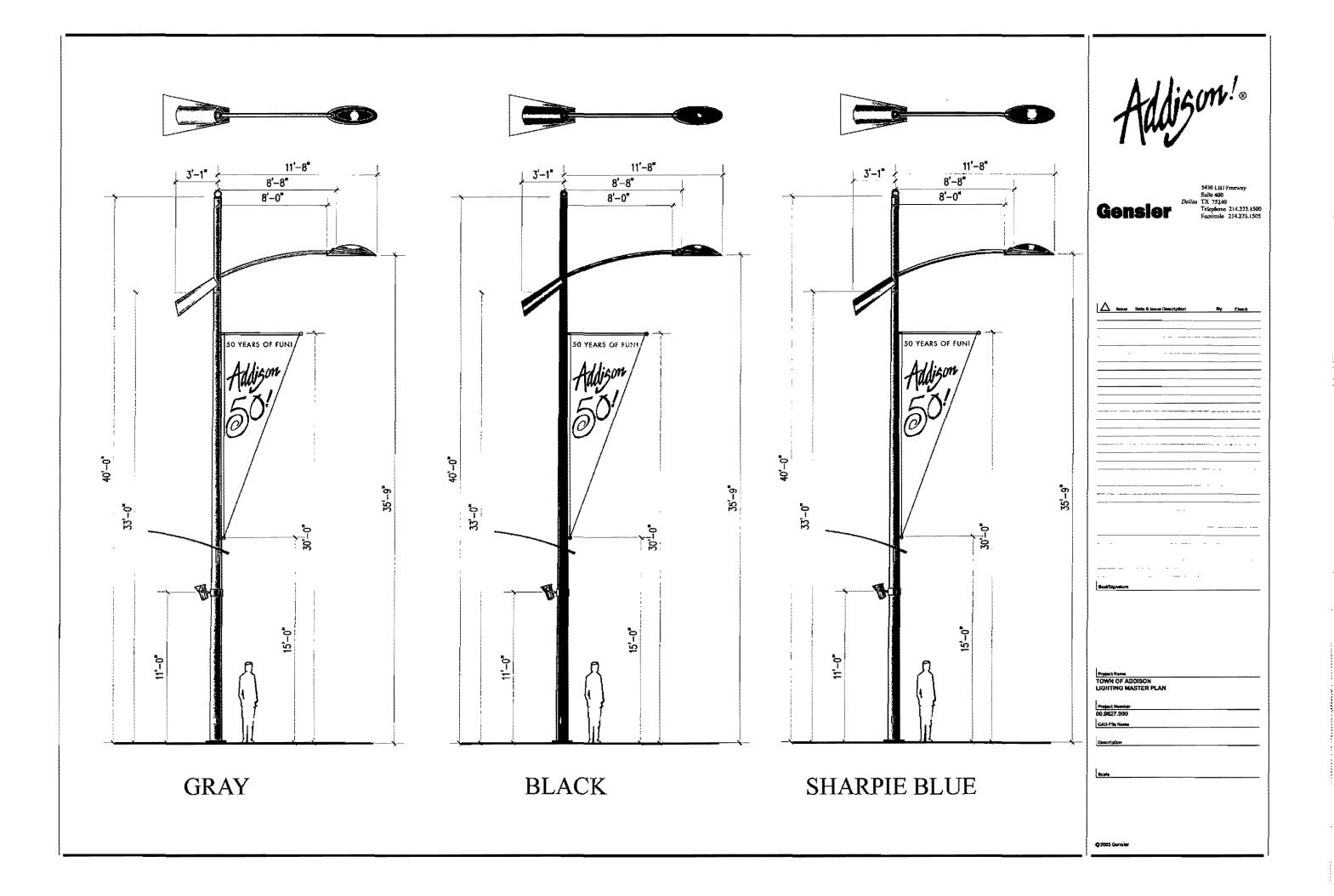
Cost of Town of Addison staff for operations, and maintenance:

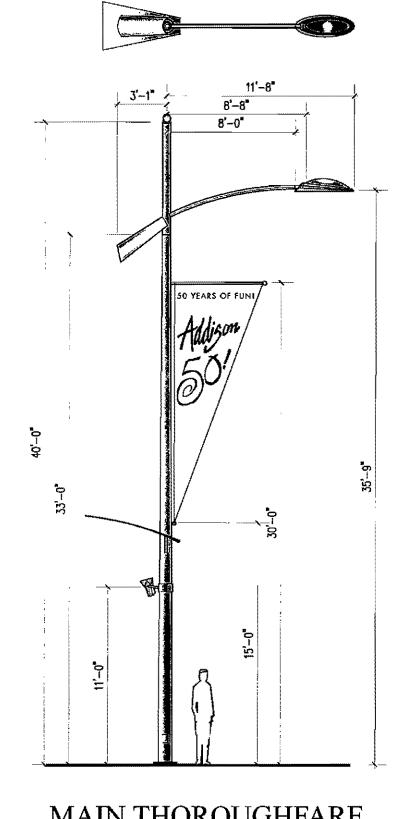
ASSUMPTIONS:

Using Tariff 6.1.1.6 - Lighting S	Service	}	
Evaluation period:	Years		15
Oncor Rectangular Rate:		\$	35.45
Number of lights:			24
Oncor Cust. & Meter Chg.		\$	13.50
kWh Consumption per light			160
kWh metered distribution char	ge	\$	0.0348
REP power rate:		\$	0.05
Annual Town Maintenance		\$	3,000

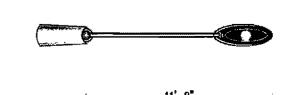
This is a lump sum cost per light paid to Oncor

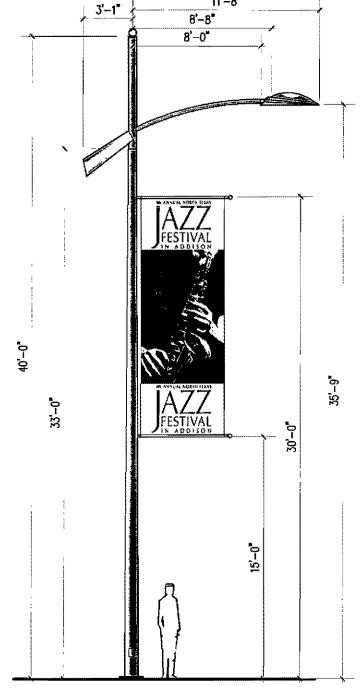
Note that Subtotal is an up front one time cost, while the monthly rate is continuous overtime. In order to add the two, a life expectancy of the structure will have to be assumed and the net present value of the monthly rate over that time period calcul





MAIN THOROUGHFARE





FEEDER





Δ	Only & lesus Description	₽y	Check

		· · · · · · · · · · · · · · · · · · ·	
^^~			************
	10.00 to 10.	***************************************	
		····	
		····	
	******	v.)	w • ma
-			

		*	
			,
See Signatury			

Project Name			
OWN OF AL	JDISON ASTER PLAN		
aun inte Mi	ABIER PLAN		
Project Humber 0.9627.000			

©2003 Geneller

RESIDENTIAL



