

## Public Improvements Opinion of Costs

### Foothills Solar and Substation

### 20.2.1 Erosion Control

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Erosion Control Blanket	SY	\$ 3.00	3,522	\$ 10,566.67
Riprap	SY	\$ 80.00	28	\$ 2,222.22
Inlet Protection	EA	\$ 250.00	4	\$ 1,000.00
Silt Fence	LF	\$ 1.50	3,713	\$ 5,569.50
Slope Protection	LS	\$ 2,000.00	1	\$ 2,000.00
Rock Dike	EA	\$ 350.00	9	\$ 3,150.00
Wattle Dike	EA	\$ 200.00	2	\$ 400.00
Vehicle Tracking Pad	EA	\$ 1,500.00	2	\$ 3,000.00
<b>Section 20.2.1 Total</b>				<b>\$ 27,908.39</b>

### 20.2.2 Street Improvements

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Clearing and Grubbing	LS	\$ 10,000.00	1	\$ 10,000.00
Removal of Structures and Obstructions	EA	\$ -		\$ -
Subgrade Preparation	SY	\$ 2.00	13,644	\$ 27,288.89
Excavation	CY	\$ 8.00	1,470	\$ 11,760.00
Borrow	CY	\$ 12.00		\$ -
Fill	CY	\$ 9.00	3,840	\$ 34,560.00
Rock Excavation	CY	\$ -		\$ -
Filter Material	CY	\$ -		\$ -
Lime Treatment	SY	\$ -		\$ -
Asphalt Pavement	TONS	\$ 82.00	4,822	\$ 395,441.58
Aggregate Base Course	TONS	\$ 25.00	6,217	\$ 155,418.75
Concrete Pavement	TONS	\$ 125.00	66	\$ 8,250.00
Geotextile	SY	\$ -		\$ -
Riprap	CY	\$ -		\$ -
Survey Monuments	EA	\$ -		\$ -
Adjust Manholes	EA	\$ -		\$ -
Adjust Valves	EA	\$ 250.00	10	\$ 2,500.00
Adjust Monuments	EA	\$ -		\$ -
Median Cover Material (Concrete)	SY	\$ -		\$ -
<b>Section 20.2.2 Total</b>				<b>\$ 645,219.22</b>

### 20.2.3 Structures

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Bridge Structure	EA	\$ -		\$ -
Culverts	EA	\$ -		\$ -
Guardrail	LF	\$ -		\$ -
Railing (Pedestrian)	LF	\$ -		\$ -
Railing (Traffic)	LF	\$ -		\$ -

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Headwalls	EA	\$	-	\$	-
<b>Section 20.2.3 Total</b>				<b>\$</b>	<b>-</b>

### 20.2.4 Pedestrian and Bikeway Facilities

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Sidewalk Grading	SY	\$ 5.00	3,035	\$ 15,173.89
4-inch Thick Sidewalk	SY	\$ -		\$ -
6-inch Thick Sidewalk	SY	\$ 30.00	3,035	\$ 91,043.33
Directional Curb Ramp	SY	\$ 110.00	15	\$ 1,613.33
Corner Curb Ramp	SY	\$ 110.00	71	\$ 7,834.44
Mid Block Ramp	SY	\$ -		\$ -
Concrete Bikeway	SY	\$ -		\$ -
Sidewalk Chase	EA	\$ -		\$ -
Curb and Gutter Grading	LF	\$ 2.00	5,594	\$ 11,188.00
Curb and Gutter - Type II	LF	\$ 16.00	5,594	\$ 89,504.00
Curb and Gutter - Type I	LF	\$ -		\$ -
Glue-down Curb	LF	\$ -		\$ -
<b>Section 20.2.4 Total</b>				<b>\$ 216,357.00</b>

### 20.2.5 Street Lighting - Local and Minor Collector Streets in Loveland (City Limits Only)

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Standard Pedestrian Light	EA	\$ -		\$ -
Standard Street Light	EA	\$ 5,000.00	21	\$ 105,000.00
<b>Section 20.2.5 Total</b>				<b>\$ 105,000.00</b>

### 20.2.6 Traffic Signals, Signing and Striping

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Standard Street Signs	EA	\$ -		\$ -
Standard Street Posts	EA	\$ 60.00	12	\$ 720.00
Standard Regulatory Signs	EA	\$ 200.00	10	\$ 2,000.00
Standard Speed Limit Signs	EA	\$ 200.00	2	\$ 400.00
Latex Paint (4 inches)	LF	\$ -		\$ -
Latex Paint (8 inches)	LF	\$ -		\$ -
Latex Paint (12 inches)	LF	\$ -		\$ -
Latex Paint (18 inches)	LF	\$ -		\$ -
Latex Paint (24 inches)	LF	\$ -		\$ -
Epoxy Pavement Marking (4 inches)	LF	\$ 0.50	16,528	\$ 8,264.00
Epoxy Pavement Marking (8 inches)	LF	\$ -		\$ -
Epoxy Pavement Marking (12 inches)	LF	\$ -		\$ -
Epoxy Pavement Marking (18 inches)	LF	\$ -		\$ -
Epoxy Pavement Marking (24 inches)	LF	\$ -		\$ -
Preformed Tape for Symbols & Crosswalks	LF	\$ -		\$ -

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Preformed Thermoplastic	SF	\$	10.00	100	\$	997.50
Traffic Signals	EA	\$	-		\$	-
<b>Section 20.2.6 Total</b>						<b>\$ 12,381.50</b>

### 20.2.7 Work Zone Traffic Control

Public Improvement Item	Unit	Unit Cost	Estimated Quantity		Total Cost
Traffic Control	LS	\$ 10,000.00	1	\$	10,000.00
<b>Section 20.2.7 Total</b>					<b>\$10,000.00</b>

### 20.2.8 Storm Drainage Facilities

Public Improvement Item	Unit	Unit Cost	Estimated Quantity		Total Cost
Grading	SY	\$ 5.00	2667	\$	13,333.33
Inlets	EA	\$ 7,000.00	4	\$	28,000.00
Flared End Section (Concrete)	EA	\$ 1,500.00	2	\$	3,000.00
Manholes	EA	\$ -		\$	-
Pipe (36" RCP)	LF	\$ 105.00	225	\$	23,599.80
Pipe (48" RCP)	LF	\$ 150.00	22	\$	3,277.50
Trickle Channel (2' Width)	LF	\$ 20.00	164	\$	3,280.00
<b>Section 20.2.8 Total</b>					<b>\$ 74,490.63</b>

### 20.2.9 Water

Public Improvement Item	Unit	Unit Cost	Estimated Quantity		Total Cost
Main (Including fittings, valves, blow-offs, bedding, tb)	LF	\$ -		\$	-
Main Testing and Disinfection	LS	\$ -		\$	-
Fire Hydrant Assembly, Complete	EA	\$ 5,000.00	3	\$	15,000.00
Special Valves (not main, fire hydrant)	EA	\$ -		\$	-
Meter Services/Pits 3/4" - 1"	EA	\$ -		\$	-
Meter Services/Vaults 1 1/2" - 8"	EA	\$ -		\$	-
Steel Casing	LF	\$ -		\$	-
Special Vaults	EA	\$ -		\$	-
Special Lowerings/Crossings	EA	\$ 2,500.00	1	\$	2,500.00
Special Tie-In/Connection	EA	\$ 2,000.00	2	\$	4,000.00
Blow-offs/Permanent/Complete	EA	\$ -		\$	-
Air-Vacs/Complete	EA	\$ -		\$	-
Special Bedding	CY	\$ -		\$	-
Asphalt Repair & Removal	SY	\$ -		\$	-
Site Restoration & Reveg.	LS	\$ -		\$	-
Traffic Control	LS	\$ -		\$	-
Erosion Control	LS	\$ -		\$	-
Other	LS	\$ -		\$	-
<b>Section 20.2.9 Total</b>					<b>\$ 21,500.00</b>

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**20.2.10 Sanitary Sewer**

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Main (Including standard bedding)	LF	\$ -		\$ -
Manhole	EA	\$ -		\$ -
Main & Manhole Testing	LS	\$ -		\$ -
Services/Complete	EA	\$ -		\$ -
Steel Casing	LF	\$ -		\$ -
Special Vaults	EA	\$ -		\$ -
Special Tie-In/Connection	EA	\$ -		\$ -
Special Bedding	CY	\$ -		\$ -
Asphalt Repair & Removal	SY	\$ -		\$ -
Site Restoration & Reveg.	LS	\$ -		\$ -
Traffic Control	LS	\$ -		\$ -
Erosion Control	LS	\$ -		\$ -
Other	LS	\$ -		\$ -
<b>Section 20.2.10 Total</b>				<b>\$ -</b>

**20.2.11 Removal and Repair**

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Asphalt Patching	SY	\$ -		\$ -
Concrete Sidewalk R & R	SY	\$ 10.00	108	\$ 1,080.00
Concrete Curbwalk R & R	LF	\$ 5.00	32	\$ 160.00
Milling	SY	\$ -		\$ -
Asphalt Removal	SY	\$ 3.50	7	\$ 23.33
Concrete Removal	SY	\$ 6.00	38	\$ 226.67
Drain Pipe Removal	LF	\$ 15.00	40	\$ 600.00
Waterline Removal	LF	\$ 20.00	151	\$ 3,010.00
<b>Section 20.2.11 Total</b>				<b>\$ 5,100.00</b>

**20.2.12 Construction Surveying/Staking**

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Construction Surveying/Staking	LS	\$ 12,000.00	1	\$ 12,000.00
<b>Section 20.2.12 Total</b>				<b>\$ 12,000.00</b>

**20.2.13 Material Testing**

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Material Testing	LS	\$ 15,000.00	1	\$ 15,000.00
<b>Section 20.2.13 Total</b>				<b>\$ 15,000.00</b>

**20.2.14 Record Drawings**

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Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Record Drawings	LS	\$ 2,500.00	1	\$ 2,500.00
<b>Section 20.2.14 Total</b>				<b>\$ 2,500.00</b>

**20.2.15 Construction Management**

Public Improvement Item	Unit	Unit Cost	Estimated Quantity	Total Cost
Construction Management	LS	\$ 50,000.00	1	\$ 50,000.00
<b>Section 20.2.15 Total</b>				<b>\$ 50,000.00</b>

<b>Subtotal</b>	<b>\$</b>	<b>1,197,456.74</b>
<i>15% Contingency per Section 24.3</i>	<b>\$</b>	<b>179,618.51</b>
<b>Total Cost</b>	<b>\$</b>	<b>1,377,075.26</b>