

## **DIVISION SEVEN**

### **CONSTRUCTION SECURITY**

#### **CHAPTER I. GENERAL**

##### **Sec. 701-1      Purpose and Scope**

The following unit prices are to be used when security is required for developments within the unincorporated area of Kern County. The unit prices may be revised when construction costs differ significantly from current amounts. Revisions will be made by the Director with consultation of private engineers.

##### **Sec. 701-2      Preparation and Approval of Engineer's Estimate**

Estimates shall be prepared by a registered engineer for the developer and approved by the Director. Small projects/estimates shall be adjusted to the approval of the Director.

##### **Sec. 701-3      Reduction in Estimates**

When a portion of the work required is completed prior to posting security, the security may be reduced based on work completed. The security amount shall be as follows:

1. Total estimate
2. Minus estimated work completed
3. Plus 20% of (1-2) (See Section 702-9)
4. Plus 10% of work completed.

The estimate of work completed shall be approved by the Director.

**CHAPTER II. UNIT PRICES**

**Sec. 702-1      Unit Prices for Preparing Improvement Security Estimates for Kern County Developments**

**Sec. 702-2      Road Construction Items**

<b><u>ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>UNITS</u></b>	<b><u>MINIMUM UNIT PRICES</u></b>
Excavation (Roadway)	Over 50,000	Cu. Yd.	\$ 36.00
	20,000 to 50,000	Cu. Yd.	48.00
	20,000 to 10,000	Cu. Yd.	72.00
	10,000 to 5,000	Cu. Yd.	100.00
	Under 5,000	Cu. Yd.	150.00
	Compacted Imported Borrow	Cu. Yd.	200.00
Curb and Gutter	PCC A2-6 (6" High Curb) Under 1,000 L.F.	L.F.	65.00
	Over 1,000 L.F.	L.F.	40.00
	A.C. Dike (6" High)	L.F.	35.00
Concrete Sidewalk, Driveways	4" Thick	Sq. Ft.	6.00
	6" Thick	Sq. Ft.	9.00
Concrete Cross Gutter	6' Wide X 6" Thick (Std.)	Ea.	5,500.00
		Sq. Ft.	9.00
Wheelchair/Curb Ramps	ADA, Title 24 and Caltrans compliant. With detectable warning.	Ea.	3,000.00
Concrete-Structural	Retaining Walls, etc. Class A	Cu. Yd.	1,000.00
Aggregate Base	Class 2	Cu. Yd.	120.00
Street Surfacing Paving	Asphalt Concrete - For Streets and Alley Only	<1000	150.00
		1000-5000	100.00
	>5000 Tons	75.00	
	Misc. Asphalt Concrete - Includes all areas outside of street & Alley Gutterlines	Tons	120.00
Construction Seal	Asphalt Rejuvenating Agent	SY	0.25
Saw Cutting		L.F.	5.00

Sec. 702-3

Drainage Items

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>MINIMUM UNIT PRICES</u>
Structures	Manholes	Ea.	\$5,200.00
	Junction Boxes	Ea.	6,500.00
	Standard Outlet Structure	Ea.	5,200.00
	Catch Basin Up to 5' Opening Width	Ea.	6,500.00
	Per Additional Foot of Opening Beyond 5'	Ft.	1,300.00
<b>Note:</b> The estimated actual structure cubic yardage may be used in lieu of the above each and per foot, using \$2500 per cubic yard.			
	Other Structures and headwalls (Includes Forming & Reinforcement)	Cu. Yd.	3,800.00
Under-Sidewalk Drain		Ea.	4,600.00
Gunitite - (Includes Reinforcement - 3" Thick)		Sq. Ft.	20.00
Rip Rap		Cu. Yd.	165.00

**Pipe Installed as Storm Drains - (In-Place per L.F.)**

<b>CONCRETE (Plain)</b>		<b>R.C.P (Rubber Gasket)</b>		<b>For Runs over 200 Ft.</b>	<b>C.M.P. (Galvanized)</b>	
<b>Size</b>	<b>Cost</b>	<b>Size</b>	<b>Cost</b>	<b>Cost</b>	<b>Gauge</b>	<b>Cost</b>
18"	\$ 130	18"	\$ 160	\$ 125	16	\$125
21"	150	--	165	130	--	--
24"	160	24"	170	140	14	160
27"	--	--	180	145	--	--
30"	--	30"	190	150	14	225
36"	--	36"	210	170	14	260
42"	--	42"	225	180	14	300
48"	--	48"	290	230	14	350
54"	--	54"	340	275	12	390
60"		60"	390	315	12	445
72"	--	72"	910	730	10	590
84"	--	--	2,000	1,560	--	--

<u>DOWN DRAINS</u>	<u>UNITS</u>	<u>MINIMUM UNIT PRICES</u>
12" Pipe	L.F.	\$195.00
Entrance Taper	Ea.	880.00
Exit Treatment W/Anchors	Ea.	520.00

**C.M.P. Standard End Sections - (Installed)**

<u>Size</u>	<u>Units</u>	<u>Minimum Unit Prices</u>	<u>Size</u>	<u>Units</u>	<u>Minimum Unit Prices</u>
18"	Ea.	\$ 250	54"	Ea.	\$2,965.00
21"	Ea.	280	60"	Ea.	3,720.00
24"	Ea.	325	66"	Ea.	4,110.00
30"	Ea.	600	72"	Ea.	4,485.00
36"	Ea.	890	78"	Ea.	4,810.00
42"	Ea.	1,550	84"	Ea.	5,235.00
48"	Ea.	2,225			

**Sec. 702-4 Sanitary Sewer**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>MINIMUM UNIT PRICES</u>	
			PVC	VCP
Pipe 3' Minimum Cover- Includes trenching, backfill and fittings.	4"	L.F.	\$40.00	\$45.00
	6"	L.F.	60.00	70.00
	8"	L.F.	70.00	75.00
	10"	L.F.	85.00	85.00
	12"	L.F.	90.00	90.00
Manholes	Standard - 6' to 8' Deep	Ea.	3,400.00	
	- 9' to 12' Deep	Ea.	3,900.00	
	- 13' to 16' Deep	Ea.	4,700.00	
	Single Drop	Ea.	4,200.00	
	Multiple Drop	Ea.	4,400.00	
Tie-In	Connect to existing	Ea.	6500.00	
Clean Outs (To Grade)	4"	Ea.	685.00	
	6"	Ea.	845.00	
	8"	Ea.	910.00	

**Sec. 702-5**

**Domestic Water Items**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>MINIMUM UNIT PRICES</u>
Pipe (Includes trenching, backfill and fittings - No Valves)			
	4" PVC Class 150	L.F.	\$ 34.00
	6" PVC Class 150	L.F.	40.00
	8" PVC Class 150	L.F.	46.00
	10" PVC Class 150	L.F.	55.00
	12" PVC Class 150	L.F.	63.00
	14" PVC Class 150	L.F.	78.00
	4" DIP Class 50	L.F.	47.00
	6" DIP Class 50	L.F.	53.00
	8" DIP Class 50	L.F.	59.00
	10" DIP Class 50	L.F.	65.00
	12" DIP Class 50	L.F.	78.00
	14" DIP Class 50	L.F.	94.00
	16" DIP Class 50	L.F.	101.00
Road Bore	12"	L.F.	260.00
Valves (Mechanical Joints - Includes Installation)			
	2" Gate	Ea.	520.00
	4" Gate	Ea.	925.00
	6" Gate	Ea.	1,110.00
	8" Gate	Ea.	1,365.00
	10" Gate	Ea.	2,350.00
	12" Gate	Ea.	2,730.00
Valves (Flanged Joints - Includes Installation)			
	4" Gate	Ea.	1,250.00
	6" Gate	Ea.	1,950.00
	8" Gate	Ea.	3,400.00
	10" Gate	Ea.	3,650.00
	12" Gate	Ea.	4,030.00
Valve Boxes		Ea.	665.00
Meter Boxes- Concrete		Ea.	140.00
Blow-offs	2" (with box & valve; add \$35 per linear foot of pipe length from main to blowoff in excess of 15')	Ea.	1560.00
	4" (with hydrant outlet; add \$30 per linear foot of pipe length from main to blowoff in excess of 15')	Ea.	2,600.00

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>MINIMUM UNIT PRICES</u>
Services	3/4" single-long & short	Ea.	\$1,200.00
	1" single-long & short	Ea.	1,450.00
	1" double-long & short	Ea.	1,700.00
	2" single (add \$24 per linear foot of pipe length from main to R/W in excess of 15')	Ea.	1,500.00
Fire Hydrant (Including gate valve)	Ea.	5,200.00	
Tie-in	Ea.	1,450.00	
Plug & Block	Ea.	260.00	

**Sec. 702-6 Miscellaneous Items**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>MINIMUM UNIT PRICES</u>
Chain Link Fencing	4' High Chainlink Fence	L.F.	\$ 75.00
	6' High Chainlink Fence	L.F.	75.00
	Gates-14' Opening w/post lock	Per Pair	3,600.00
	6' Chainlink Fence (with redwood slats & 6"x18" concrete footing (including gates)	L.F.	95.00
CMU Screen Wall	5' High	L.F.	115.00
	6' High	L.F.	130.00
Electric Gates - Double	Ea.	26,000.00	
Electric Gates - Single	Ea.	19,500.00	
Landscaping	S.F	10.00	
Liquid Asphalt (R.M.S.)	Ton	800.00	
Survey Monuments	Ea.	205.00	
Survey Monument Encasements	Ea.	800.00	
Lot Corners	Ea.	65.00	

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>MINIMUM UNIT PRICES</u>
Street Signs		Ea.	300.00
Barricades		Ea.	600.00
Street Lights		Ea.	10,000.00
Pump Station		Ea.	Per Engineer

**Sec. 702-7      Utilities**

The cost of all utility relocations shall be based upon estimates submitted by utility companies.

**Sec. 702-8      Items not listed**

When the project requires construction or installation of items not listed in the previous tables, the engineer shall provide an estimate of the item(s), to be approved by the director.

**Sec. 702-9      Inflations-Contingency Factor**

A contingency factor of 20% shall be added to the unit prices to compensate for the effect of inflation and any changes in construction during the life of the project.