

**Cottonwood Highlands Filing No. 7, Amendment 1**  
**Engineer's Estimate of Water Improvement Infrastructure**

**WATER IMPROVEMENTS**

Date: July 17, 2020

Item Number	Item Description	Estimated Quantity	Unit	Estimated Unit Cost	Subtotal
<b>WATER IMPROVEMENTS</b>					
1	18in N.P. - Bends w/Kick Block	-	Each	\$700.00	\$0
2	18in N.P. - PVC (Purple) Water Main	-	L.F.	\$50.00	\$0
3	18in N.P. - Gate Valve and Box	-	Each	\$1,600.00	\$0
4	18in N.P. - Plug w/2in Blow Off	-	Each	\$800.00	\$0
5	18in N.P. - Connect to Ex Main	-	Each	\$1,500.00	\$0
6	12in - Bends w/Kick Block	-	Each	\$600.00	\$0
7	12in - PVC Water Main	-	L.F.	\$40.00	\$0
8	12in - Gate Valve and Box	-	Each	\$1,500.00	\$0
9	12in - Plug w/2in Blow Off	-	Each	\$700.00	\$0
10	8in - Bends w/Kick Block	17	Each	\$450.00	\$7,650
11	8in - PVC Water Main	2,871	L.F.	\$36.00	\$103,360
12	8in - Gate Valve and Box	20	Each	\$1,250.00	\$25,000
13	8in - Plug w/2in Blow Off	-	Each	\$550.00	\$0
14	8in - Connect to Ex Main	3	Each	\$1,500.00	\$4,500
15	6in - Bends w/Kick Block	3	Each	\$385.00	\$1,155
16	6in - PVC Water Main	2,630	L.F.	\$34.00	\$89,425
17	6in - Gate Valve and Box	11	Each	\$385.00	\$4,235
18	6in - Plug w/2in Blow Off in Manhole/Vault	6	Each	\$5,500.00	\$33,000
19	16in x 12in Tee w/ Kick Block	-	Each	\$600.00	\$0
20	16in x 8in Tee w/ Kick Block	-	Each	\$550.00	\$0
21	16in x 6in Tee w/ Kick Block	-	Each	\$500.00	\$0
22	12in x 8in Tee w/ Kick Block	-	Each	\$500.00	\$0
23	12in x 6in Tee w/ Kick Block	-	Each	\$450.00	\$0
24	8in x 8in Tee w/ Kick Block	4	Each	\$425.00	\$1,700
25	8in x 6in Tee w/ Kick Block	16	Each	\$425.00	\$6,800
26	8in x 8in Cross	-	Each	\$500.00	\$0
27	Std. Fire Hydrant Assy. w/ 6in Gate Valve	7	Each	\$3,800.00	\$26,600
28	3/4in Water Service w/ Meter	132	Each	\$950.00	\$125,400
29	Irrigation Service w/ Meter and Valve	1	Each	\$2,000.00	\$2,000
30	6in x 8in Reducer	1	Each	\$300.00	\$300
31	Air Release Valve	1	Each	\$5,500.00	\$5,500
<b>SUBTOTAL</b>					<b>\$436,626</b>

**CWSD CONTINGENCY**

1	10% of Water Infrastructure Improvement Costs				<b>\$43,663</b>
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**WATER IMPROVEMENTS TOTAL      \$480,288**

The opinion of probable construction costs for was based on approximate quantity estimates for water main improvements based on the Water Main and Sanitary Sewer Construction Plans prepared by Manhard Consulting dated July 17, 2020. Quantities were multiplied by current construction industry prices. The opinion of probable costs shown, and any resulting conclusions on project financial or economic feasibility or funding requirements, have been prepared for guidance in project evaluation and implementation from the information available at the time the opinion was prepared. The final costs of the project and resulting feasibility will depend on actual labor and material costs, competitive market conditions, actual site conditions, final project scope, implementation schedule, continuity of personnel and engineering, and other variable factors. As a result, the project costs will vary from the opinion of the probable costs presented herein.