



**FREESE
AND
NICHOLS**

Innovative approaches
Practical results
Outstanding service

OPINION OF PROBABLE CONSTRUCTION COSTS

PROJECT TITLE	LLWTP	DATE	8/20/2017
CLIENT	City of Denton	GROUP	1154
% OF SUBMITTAL	Conceptual	PM	DRJ

ESTIMATOR	QC CHECKED BY	FNI PROJECT NO.
DRJ		0

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
New WTP High Service Pump Station Electrical Switchgear and Office Building					
1	Base Building Cost	12,000	SF	\$ 200.00	\$2,400,000
2	Entrance Road Extension/Upgrade	1	LS	\$ 75,000.00	\$75,000
3	Transformer Pad	1	EA	\$ 11,200.00	\$11,200
4	4160V Switchgear	1	EA	\$ 350,000.00	\$350,000
5	4160V Motor Control Center	1	EA	\$ 294,000.00	\$294,000
6	Electrical Duct Bank	1	EA	\$ 112,000.00	\$112,000
7	Cable and Conduit	1	EA	\$ 224,000.00	\$224,000
8	500KVA Transformer	1	EA	\$ 42,000.00	\$42,000
9	480V Switchboard	1	EA	\$ 70,000.00	\$70,000
10	Security - Surveillance, Security and plant fence detection	1	LS	\$ 115,000.00	\$115,000
11	Power System Studies	1	LS	\$ 12,650.00	\$12,650
12	Start-up and Testing	1	LS	\$ 11,500.00	\$11,500
Administration Building and HSPS Modifications					
1	Bathroom/locker renovations	1	LS	\$ 35,000.00	\$35,000
2	Door and lock upgrades	1	LS	\$ 15,000.00	\$15,000
3	Break room upgrade	1	LS	\$ 45,000.00	\$45,000
4	Shop area lighting	1	LS	\$ 15,000.00	\$15,000
5	Staircase replacement	1	LS	\$ 15,000.00	\$15,000
6	Exterior staircase	1	LS	\$ 20,000.00	\$20,000
7	Piping rehabilitation	1	LS	\$ 25,000.00	\$25,000
8	Wall renovations in HSPS	1	LS	\$ 10,000.00	\$10,000
9	Roof downspout nozzles	1	LS	\$ 5,000.00	\$5,000
10	HSPS ventilation improvements	1	LS	\$ 40,000.00	\$40,000
11	HSPS crane rehabilitation	1	LS	\$ 15,000.00	\$15,000
12	Switchgear demolition	1	LS	\$ 11,500.00	\$11,500
13	HSPS metering vaults	1	LS	\$ 180,000.00	\$180,000
14	Header room valve replacement	1	LS	\$ 25,000.00	\$25,000
15	Suction valve replacements (4-36) 2 suppl by Owner	1	LS	\$ 100,000.00	\$100,000
16	Discharge valve replacements (3-36)	1	LS	\$ 120,000.00	\$120,000
17	HSPS 5&6 discharge valves (2-24) suppl by Owner	1	LS	\$ 15,000.00	\$15,000
18	G/BFV on HSPS 1&4	1	LS	\$ 80,000.00	\$80,000
19	Additional valves (36,30, Stopple)	1	LS	\$ 80,000.00	\$80,000
20	HSP 5&6 vault rehabs	1	LS	\$ 40,000.00	\$40,000
21	Driveway replacement (500 x 15) 850 s.y.	1	LS	\$ 50,000.00	\$50,000
22	Clearwell drainage improvements	1	LS	\$ 75,000.00	\$75,000
23	Cable and Conduit	1	EA	\$ 70,000.00	\$70,000
24	Instrumentation	1	LS	\$ 35,000.00	\$35,000
WTP Filter and Chemical Feed Improvements					
1	Repace actuators on filter drain and effluent lines with open/close actuators (32	1	LS	\$ 160,000.00	\$160,000
2	Filter effluent chemical mixing improvements	1	LS	\$ 50,000.00	\$50,000
3	Calcium scale removal	1	LS	\$ 50,000.00	\$50,000
4	Blast 30" line and recoat	1	LS	\$ 50,000.00	\$50,000
5	Rehab coagulated water lines	1	LS	\$ 50,000.00	\$50,000
6	Free chlorine residual sample	1	LS	\$ 25,000.00	\$25,000
7	Filter gallery handrail & stairs	1	LS	\$ 20,000.00	\$20,000
8	Wall renovations in Filter Gallery	1	LS	\$ 10,000.00	\$10,000
9	Recoat Filter edges to match floor	1	LS	\$ 15,000.00	\$15,000
10	Refurbish ceiling insulation in filter area	1	LS	\$ 10,000.00	\$10,000
11	Filter gallery ventilation	1	LS	\$ 25,000.00	\$25,000

PROJECT TOTAL	\$13,850,800
----------------------	---------------------

--