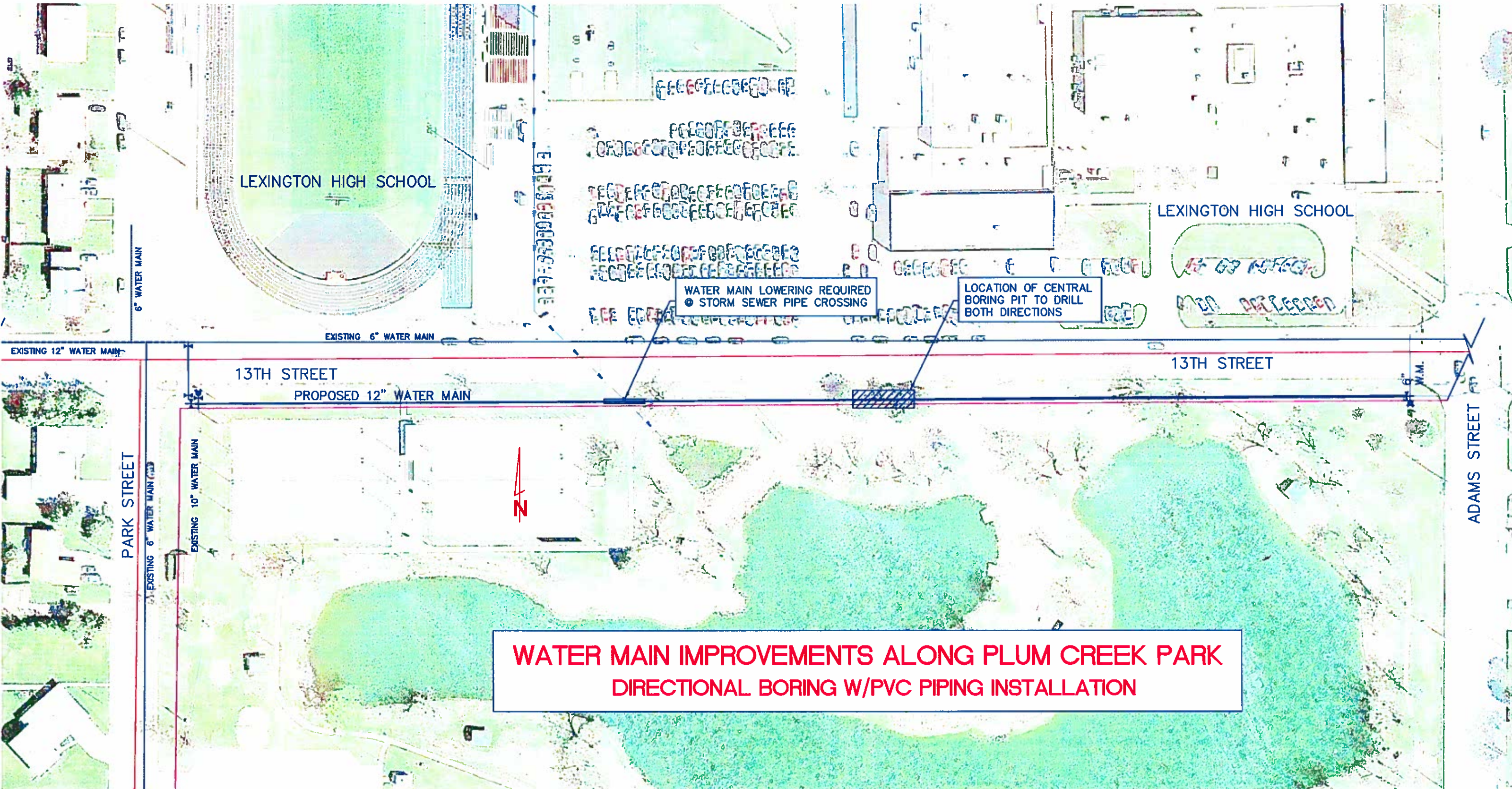


WATER MAIN IMPROVEMENTS ALONG CATTLEMEN DRIVE
OPEN CUT INSTALLATION OF PVC PIPING



LEXINGTON HIGH SCHOOL

LEXINGTON HIGH SCHOOL

WATER MAIN LOWERING REQUIRED
● STORM SEWER PIPE CROSSING

LOCATION OF CENTRAL
BORING PIT TO DRILL
BOTH DIRECTIONS

13TH STREET

13TH STREET

PROPOSED 12" WATER MAIN

EXISTING 12" WATER MAIN

EXISTING 6" WATER MAIN

6" W.M.

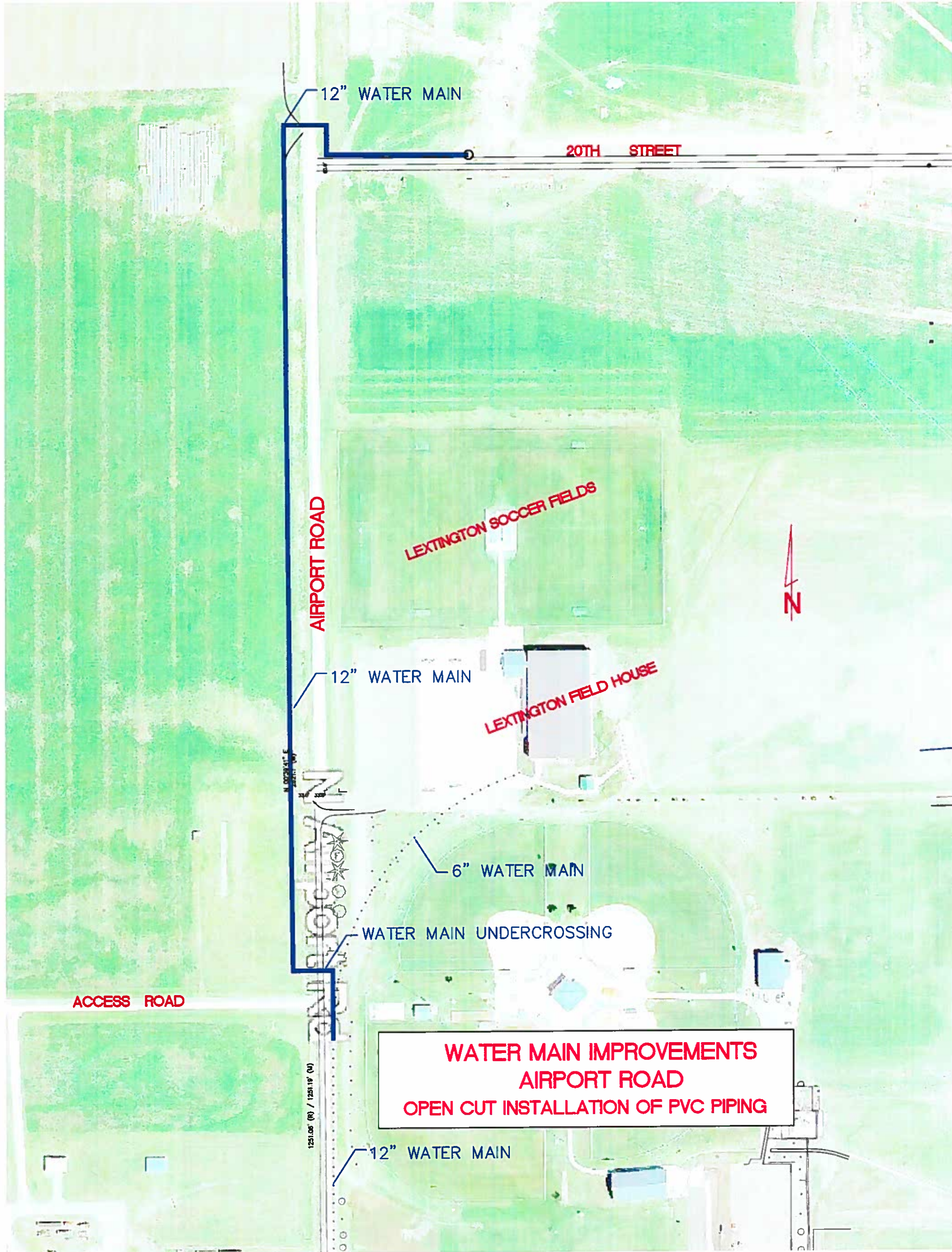
PARK STREET

EXISTING 6" WATER MAIN

EXISTING 10" WATER MAIN

ADAMS STREET

**WATER MAIN IMPROVEMENTS ALONG PLUM CREEK PARK
DIRECTIONAL BORING W/PVC PIPING INSTALLATION**



12" WATER MAIN

20TH STREET

AIRPORT ROAD

LEXINGTON SOCCER FIELDS



12" WATER MAIN

LEXINGTON FIELD HOUSE

6" WATER MAIN

WATER MAIN UNDERCROSSING

ACCESS ROAD

**WATER MAIN IMPROVEMENTS
AIRPORT ROAD
OPEN CUT INSTALLATION OF PVC PIPING**

12" WATER MAIN

1251.06' (0) / 1251.16' (0)

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST
13th Street Water Improvements
 LEXINGTON, NEBRASKA
 PROJECT NO. 127-C1-065

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Furnish & Install Directional Boring C900 PVC Waterline Pipe, DR 18				
	a) 6" Diameter	75	L.F.	\$ 55.00	\$ 4,125.00
	b) 12" Diameter	1450	L.F.	\$ 80.00	\$ 116,000.00
2	Furnish & Install Gate Valve				
	a) 6" Diameter	1	Each	\$ 1,200.00	\$ 1,200.00
	b) 12" Diameter	2	Each	\$ 2,500.00	\$ 5,000.00
3	Furnish & Install 6' Bury Fire Hydrant w/Valve	2	Each	\$ 6,000.00	\$ 12,000.00
4	Water Connection	2	Each	\$ 500.00	\$ 1,000.00
5	Remove & Haul Concrete	40	S.Y.	\$ 15.00	\$ 600.00
6	Construct 5" Thick, Type 47B Concrete Sidewalk	155	S.Y.	\$ 45.00	\$ 6,975.00
7	Construct 6" Thick, Type 47B Concrete Driveway	100	S.Y.	\$ 65.00	\$ 6,500.00
8	Furnish, Install, Maintain & Remove Erosion Control				
	a) Erosion Mat	150	S.Y.	\$ 5.00	\$ 750.00
	b) Silt Fence	1500	L.F.	\$ 7.00	\$ 10,500.00
	c) Wattle Silt Checks	100	L.F.	\$ 10.00	\$ 1,000.00
9	Final Bluegrass Seeding & Mulching	1.0	Ac.	\$ 4,500.00	\$ 4,500.00
10	Furnish & Install Sod	1700	S.Y.	\$ 7.00	\$ 11,900.00
11	Furnish & Install 1" Service Line w/Tap Saddle & Curb Stop, Complete In Place	4	Each	\$ 1,200.00	\$ 4,800.00
12	Remove & Haul Trees	3	Each	\$ 200.00	\$ 600.00
13	Construction Contingencies (15%)				\$ 28,100.00
14	Engineering Design, Construction Services, Legal, Miscellaneous (15%)				\$ 28,100.00
TOTAL PROJECT COST					\$ 243,650.00

Prepared By: Miller & Associates, Consulting Engineers P.C., 10/24/19

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST
AIRPORT ROAD WATER IMPROVEMENTS
 LEXINGTON, NEBRASKA
 PROJECT NO. 127-C1-065

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Furnish & Install Waterline a) 12" Diameter	2350	L.F.	\$ 40.00	\$ 94,000.00
	b) Directional Boring - 12" Waterline	150	L.F.	\$ 100.00	\$ 15,000.00
2	Gate Valves a) 12" Diameter	4	Each	\$ 2,500.00	\$ 10,000.00
3	Furnish & Install Fittings a) 12" 90 Degree Bend	5	Each	\$ 1,200.00	\$ 6,000.00
	b) 12" x 12" Tee	2	Each	\$ 1,400.00	\$ 2,800.00
	c) 12" x 6" Tee	5	Each	\$ 1,400.00	\$ 7,000.00
	d) 12" Tapping Tee w/Valve	1	Each	\$ 8,000.00	\$ 8,000.00
4	Furnish & Install Fire Hydrant Setting	3	Each	\$ 6,000.00	\$ 18,000.00
5	Furnish, Install, Maintain & Remove Erosion Control a) Erosion Mat	100	S.Y.	\$ 5.00	\$ 500.00
	b) Silt Fence	1500	L.F.	\$ 7.00	\$ 10,500.00
6	Stormwater Pollution Prevention Plan	1	L.S.	\$ 3,000.00	\$ 3,000.00
7	Construction Documentation	1	L.S.	\$ 2,000.00	\$ 2,000.00
9	Furnish & Apply Type B Seeding	1.0	Acre	\$ 4,500.00	\$ 4,500.00
10	Construction Contingencies (15%)				\$ 27,200.00
11	Design Engineering, Construction Services, Legal, Miscellaneous (15%)				\$ 31,300.00
TOTAL PROJECT COST					\$ 239,800.00

Prepared By: Miller & Associates, Consulting Engineers P.C., 10/24/19

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST
CATTLEMEN DRIVE WATER IMPROVEMENTS
 LEXINGTON, NEBRASKA
 PROJECT NO. 127-C1-065

Item No.	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Furnish & Install Waterline				
	a) 16" Diameter	2500	L.F.	\$ 70.00	\$ 175,000.00
	b) 12" Diameter	150	L.F.	\$ 40.00	\$ 6,000.00
2	Gate Valves				
	a) 12" Diameter	1	Each	\$ 2,500.00	\$ 2,500.00
	b) 16" Diameter	2	Each	\$ 7,000.00	\$ 14,000.00
3	Furnish & Install Fittings				
	a) 12" 90 Degree Bend	3	Each	\$ 1,200.00	\$ 3,600.00
	b) 12" x 12" Tee	1	Each	\$ 1,400.00	\$ 1,400.00
	c) 16" x 6" Tee	5	Each	\$ 1,400.00	\$ 7,000.00
	d) 16" x 12" Tee	1	Each	\$ 2,000.00	\$ 2,000.00
4	Furnish & Install Fire Hydrant w/Valve	5	Each	\$ 6,000.00	\$ 30,000.00
5	16" Water Main Undercrossing, Complete In Place - 50 L.F.	1	L.S.	\$ 15,000.00	\$ 15,000.00
6	Furnish, Install, Maintain & Remove Erosion Control				
	a) Erosion Mat	100	S.Y.	\$ 5.00	\$ 500.00
	b) Silt Fence	1500	L.F.	\$ 7.00	\$ 10,500.00
	c) Wattle Silt Checks	100	L.F.	\$ 10.00	\$ 1,000.00
7	Stormwater Pollution Prevention Plan	1	L.S.	\$ 3,000.00	\$ 3,000.00
8	Construction Documentation	1	L.S.	\$ 2,000.00	\$ 2,000.00
9	Furnish & Apply Type B Seeding	2.0	Acre	\$ 4,500.00	\$ 9,000.00
10	Construction Contingencies (15%)				\$ 42,400.00
11	Design Engineering, Construction Services, Legal, Miscellaneous (15%)				\$ 48,700.00
TOTAL PROJECT COST					\$ 373,600.00

Prepared By: Miller & Associates, Consulting Engineers P.C., 10/24/19

SUMMARY OF 2020 WATER PROJECT IMPROVEMENTS

1 Airport Road Improvements	\$239,800
2 13th Street Improvements	\$243,650
3 Cattlemen Drive Improvements	\$373,600
4 Well #19	<u>\$350,000</u>
Total Project Budget	\$1,207,050

Alternate project:

Reconstruction of Well #10, new pump/ motor/elec source & panel	\$140,000
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Flow Capacity of Water Mains	Ft/Sec.	Volume
12" Diameter	3.4	1200 GPM
16" Diameter	3.1	2000 GPM
24" Diameter	2.8	4000 GPM