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NUMBER 4 HIGHLAND PARK, ILLINOIS, THURSDAY, MARCH 27, 1924 VOLUME 14

RECOMMENDATION, ESTIMATE AND ORDINANCE OF THE BOARD OF LOCAL IMPROVEMENTS.
Deerfield, Illinois, March 22nd, 1924.

TO THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF DEERFIELD:

Gentlemen:—
We herewith submit an ordinance providing for a local improvement to be made to consist of a system of sewers in Deerfield Avenue and other streets in the Village of Deerfield, Lake County, Illinois, together with manholes and catchbasins, house and catchbasin slants and Y junctions, and for the construction of a sewage disposal plant and all accessories and appurtenances, together with an estimate of the cost of said local improvement, and recommend the passage of said ordinance and the making of the improvement contemplated therein.

Respectfully submitted,
LINCOLN FETTIS
A. R. WARNER
A. J. ENDER
WM. J. OSTERMAN
FRED SELIG
THEO. H. TOLL
Board of Local Improvements
of the Village of Deerfield

ESTIMATE OF THE PRESIDENT OF THE BOARD OF LOCAL IMPROVEMENTS OF THE VILLAGE OF DEERFIELD:
Deerfield, Illinois, February 25th, 1924.

Gentlemen:—
I submit herewith an Estimate of the cost of constructing a system of sanitary and combined sewers, together with manholes, catchbasins, catch basin connections, house connections and catchbasin slants and Y branches, and sewage disposal plant, and all auxiliaries and appurtenances thereto fully completed and in place, including all labor and materials (but omitting land to be acquired) and lawful expenses attending the same, all being in the Village of Deerfield, County of Lake and State of Illinois, as follows, to-wit:

A sewage treatment plant shall be constructed and located on the following described tract of land: Part of the southeast quarter of Sec. 32-43-12 beginning at a point in the northerly line of the S. E. 1/4 of the S. E. 1/4 of said Sec. 32, said point being 733 feet east of the northwest corner of said S. E. 1/4 of the S. E. 1/4 of said Sec. 32, thence south on a line normal to said northerly line 383 feet more or less to center of drainage ditch of Union Drainage District No. 1, thence northwesterly and westerly along the center line of said ditch to the northerly line of said S. E. 1/4 of the S. E. 1/4 of said Section 32, thence east along said northerly line 657 feet more or less to the place of beginning in Lake County, Illinois; said sewage treatment plant consisting of a reinforced concrete settling tank 37 ft. x 24 ft. 8 in. x 33 ft. 6 in. outside dimensions, together with necessary entrance pipes, discharge pipes, manholes, sludge pump, sludge beds; and all necessary appurtenances and fittings as shown in detail in drawings attached to said resolution.

A connected system of sanitary and combined storm water and sanitary sewers with manholes, Y branches, slants, catch-basins, concrete headwalls, automatic regulators, and all necessary appurtenances and auxiliaries shall be constructed from said treatment plant as follows: A sanitary outfall sewer to be built from said treatment plant northwest along the east bank of ditch of Union Drainage District No. 1 across land to be acquired to Deerfield Avenue; a sanitary sewer to be built in Deerfield Avenue from said outfall sewer to point 150 feet easterly of Second street extended from south; sanitary sewer to be built in Woodward Avenue from Deerfield Avenue to point 275 feet north of Division street; sanitary sewer to be built in Osterman Avenue from said outfall sewer to point 400 feet easterly of Second street; combined storm water and sanitary sewers to be built in the following streets: In Deerfield Avenue from said ditch to Lincoln Avenue; in Woodward Avenue from Deerfield Avenue to Hazel Avenue; in Osterman Avenue from said ditch to Lincoln Avenue; in Lincoln Avenue from Central Avenue to Greenwood Avenue; in Hazel Avenue from Central Avenue to Lincoln Avenue; in Lincoln Avenue from Oak Avenue to Hazel Avenue; in Lincoln Avenue from Oak Avenue to Second street and from Park Avenue to Greenwood Avenue; in Oak Avenue from Hazel Avenue to Greenwood Avenue; in Greenwood Avenue from Oak Avenue to point 590 feet east of east line of Oak Avenue and from first alley east of Park Avenue to Lincoln Avenue; in Fair Oak Avenue from Oak Avenue to first alley west of Grand Avenue and from Lincoln Avenue to first alley east of Park Avenue; in Somerset Avenue from Oak Avenue to point 580 feet east of east line of Oak Avenue; in Sheridan Avenue from Somerset Avenue to Hazel Avenue; in Second street from Deerfield Avenue to Fair Oak Avenue; in Grand Avenue from Greenwood Avenue to a point 450 feet southerly of the center line of Central Avenue; in Park Avenue from Deerfield Avenue to Greenwood Avenue; in Springfield Avenue from Hazel Avenue to Fair Oak Avenue; in Chestnut street from Grand Avenue to Osterman Avenue; in East Railway Avenue from East Railway Avenue to Lincoln Avenue; in Central Avenue from East Railway Avenue to Lincoln Avenue; from a point on Park Avenue 580 feet north of Deerfield Avenue to a point on Lincoln Avenue 477 feet southeasterly from Hazel Avenue across property to be acquired; in Orchard place from Lincoln Avenue to Todd Court in Todd Court from Orchard place to a point 300 feet south of Orchard place.

A sewage regulator consisting of a reinforced concrete float chamber and a valve automatically operated by a float and located at a point 20 feet southerly of the center line of Deerfield Avenue and 124 feet easterly of the north and south center line of Section 32-43-12 to discharge sanitary flow from combined sewer in Deerfield Avenue into said outfall sanitary sewer.

A sewage regulator consisting of a reinforced concrete float chamber and a valve automatically operated by a float and located at a point 20 feet southerly of the center line of Osterman Avenue and 35 feet easterly of the center line of Union Drainage District No. 1 ditch to discharge sanitary flow from combined sewer in Osterman Avenue into said outfall sanitary sewer.

169 concrete manholes and 44 concrete catchbasins shall be located at necessary points on said system of sewers as shown in drawings attached to said resolution. Said manholes to be cylindrical in shape, 3 feet internal diameter, walls 5 inches in thickness, manholes on concrete sewers to be constructed upon and merolithic with the arch or roof of said sewers, the arch ring or roof of said concrete sewers to be omitted within the manholes and said manholes located on the vitrified tile pipe sewers to be constructed on a concrete foundation eight (8) inches in thickness including that part beneath the invert of the sewer.

Catchbasins shall be of concrete cylindrical in shape, four (4) feet in internal diameter, seven (7) feet in depth with walls five (5) inches thick and a concrete foundation eight (8) inches thick, and shall be connected with said sewers by means of 8 inch internal diameter vitrified tile pipe. Each manhole and catchbasin shall be provided with covers of the best quality of cast iron free from imperfections and weighing not less than 540 pounds each. Manhole covers shall be solid and the lids of catchbasin covers shall be grates so constructed as to screen the water entering at the top. All covers shall be constructed as shown upon the drawings and manholes and catchbasins shall be located as shown upon the drawings attached to and made a part of said resolution.

Sewers shall vary in size from eight (8) inches internal diameter at the source to 6 feet wide by 4 feet in depth. Sewers from 8 inches internal diameter to and including 33 inches in diameter shall be of vitrified tile pipe, sewers of 36 inches internal diameter and larger shall be reinforced concrete.

Four concrete headwalls to be built at points of discharge of said sewer on the east bank of said ditch.

The concrete used in the construction of headwalls, settling tank and appurtenances to said tank, float chambers, concrete sewers, manholes to be constructed on concrete sewers, and concrete used for encasing tile pipe sewers shall be composed of 1 part Portland cement, 2 parts of torpedo sand and four parts of crushed stone or gravel, the concrete used in the construction of catch-basins and manholes located on tile sewers shall be composed of 1 part Portland cement, 3 parts torpedo sand and 5 parts crushed stone or gravel, except that the 36 inch internal diameter concrete sewers shall be constructed of concrete composed of 1 part Portland cement, 2 parts torpedo sand and 3 parts crushed stone or gravel.

All sewers of 30 inch and 33 inches internal diameter shall be encased in concrete whose level of the original ground is less than 6 feet above the top of the pipe.

All materials used in the improvement shall be of the best quality and suitable for the purpose used.

The entire improvement shall be constructed in a workmanlike manner. One 8 inch house connection, Y branch or slant shall be placed in said system of sewers opposite each lot, piece or parcel of land within the Village of Deerfield, and shall be placed in said sewer for each 40 feet of frontage. Y branches and slants shall also be placed in said system of sewers for catch-basin connections.

Said improvement includes all excavating, backfilling, replacing pavements, removing surplus material from the streets, labor and materials, and includes the acquiring of certain lands in which to construct a portion of said improvement.

ESTIMATE OF THE COST OF SAID PROPOSED IMPROVEMENT

1400 lineal feet of eight (8) inch internal diameter vitrified tile pipe sewer, depth of excavation six (6) feet or more, but less than eight (8) feet, average depth six and nine-tenths (6.9) feet, @ \$1.10 per lineal foot. \$ 1,540.00

1470 lineal feet of eight (8) inch internal diameter vitrified tile pipe sewer, depth of excavation eight (8) feet or more but less than ten (10) feet, average cut eight and four-tenths

6350	lineal feet of twelve (12) inch internal diameter vitrified tile pipe sewer, depth of excavation six (6) feet or more, but less than eight (8) feet, average cut seven and six-tenths (7.6) feet @ \$1.30 per lineal foot.	8,255.00
4450	lineal feet of twelve (12) inch internal diameter vitrified tile pipe sewer, depth of excavation eight (8) feet or more, but less than ten (10) feet, average cut nine and two-tenths (9.2) feet @ \$1.40 per lineal foot.	6,230.00
1590	lineal feet of twelve (12) inch internal diameter vitrified tile pipe sewer, depth of excavation ten (10) feet or more, but less than twelve (12) feet, average cut ten and eight-tenths (10.8) feet, @ \$1.60 per lineal foot.	2,544.00
1980	lineal feet of fifteen (15) inch internal diameter vitrified tile pipe sewer, depth of excavation six (6) feet or more but less than eight (8) feet, average cut seven and six-tenths (7.6) feet, @ \$1.70 per lineal foot.	3,366.00
3275	lineal feet of fifteen (15) inch internal diameter vitrified tile pipe sewer, depth of excavation eight (8) feet or more but less than ten (10) feet, average cut nine (9) feet, @ \$1.80 per lineal foot.	5,895.00
1970	lineal feet of fifteen (15) inch internal diameter vitrified tile pipe sewer, depth of excavation ten (10) feet or more but less than twelve (12) feet, average cut ten and nine-tenths (10.9) feet, @ \$2.00 per lineal foot.	3,940.00
230	lineal feet of fifteen (15) inch internal diameter vitrified tile pipe sewer, depth of excavation twelve (12) feet or more, but less than fourteen (14) feet, average cut twelve and six-tenths (12.6) feet, @ \$2.30 per lineal foot.	529.00
315	lineal feet of eighteen (18) inch internal diameter vitrified tile pipe sewer, depth of excavation six (6) feet or more but less than eight (8) feet, average cut seven and two-tenths (7.2) feet, @ \$2.10 per lineal foot.	661.50
4275	lineal feet of eighteen (18) inch internal diameter vitrified tile pipe sewer, depth of excavation eight (8) feet or more but less than ten (10) feet, average cut nine (9) feet, @ \$2.30 per lineal foot.	9,832.50
1600	lineal feet of eighteen (18) inch internal diameter vitrified tile pipe sewer, depth of excavation ten (10) feet or more but less than twelve (12) feet, average cut ten and eight-tenths (10.8) feet, @ \$2.50 per lineal foot.	4,000.00
670	lineal feet of twenty (20) inch internal diameter vitrified tile pipe sewer, depth of excavation six (6) feet or more but less than eight (8) feet, average cut seven and four-tenths (7.4) feet, @ \$2.50 per lineal foot.	1,675.00
1210	lineal feet of twenty (20) inch internal diameter vitrified tile pipe sewer, depth of excavation eight (8) feet or more but less than ten (10) feet, average cut eight and eight-tenths (8.8) feet, @ \$2.50 per lineal foot.	3,267.00
320	lineal feet of twenty (20) inch internal diameter vitrified tile pipe sewer, depth of cut ten (10) feet or more but less than twelve (12) feet, average cut eleven (11) feet, @ \$2.90 per lineal foot.	928.00
1170	lineal feet of twenty-two (22) inch internal diameter vitrified tile pipe sewer, depth of cut eight (8) feet or more but less than ten (10) feet, average cut nine and four-tenths (9.4) feet, @ \$3.30 per lineal foot.	3,861.00
730	lineal feet of twenty-two (22) inch internal diameter vitrified tile pipe sewer, depth of cut ten (10) feet or more but less than twelve (12) feet, average cut ten and seven-tenths (10.7) feet, @ \$3.50 per lineal foot.	2,555.00
170	lineal feet of twenty-two (22) inch internal diameter vitrified tile pipe sewer, depth of cut twelve (12) feet or more but less than fourteen (14) feet, average cut twelve and five-tenths (12.5) feet, @ \$3.80 per lineal foot.	646.00
4750	lineal feet of twenty-four (24) inch internal diameter vitrified tile pipe sewer, depth of cut four (4) feet or more, but less than six (6) feet, average cut five and five-tenths (5.5) feet, @ \$3.80 per lineal foot.	18,050.00
420	lineal feet of twenty-four (24) inch internal diameter vitrified tile pipe sewer, depth of cut six (6) feet or more but less than eight (8) feet, average cut seven and five-tenths (7.5) feet, @ \$4.00 per lineal foot.	1,680.00
1480	lineal feet of twenty-four (24) inch internal diameter vitrified tile pipe sewer, depth of cut eight (8) feet or more, but less than ten (10) feet, average cut nine and three-tenths (9.3) feet, @ \$4.30 per lineal foot.	6,364.00
360	lineal feet of twenty-four (24) inch internal diameter vitrified tile pipe sewer, depth of cut ten (10) feet or more but less than twelve (12) feet, average cut ten and five-tenths (10.5) feet, @ \$4.60 per lineal foot.	1,656.00
260	lineal feet of twenty-seven (27) inch internal diameter vitrified tile pipe sewer, depth of excavation eight (8) feet or more but less than ten (10) feet, average cut nine (9) feet, @ \$6.00 per lineal foot.	1,560.00
785	lineal feet of thirty (30) inch internal diameter vitrified tile pipe sewer, depth of cut six (6) feet or more but less than eight (8) feet, average seven and one-tenth (7.1) feet, @ \$6.00 per lineal foot.	4,710.00
290	lineal feet of thirty-three (33) inch internal diameter vitrified tile pipe sewer, depth of cut six (6) feet or more but less than eight (8) feet, average cut seven and three-tenths (7.3) feet, @ \$6.70 per lineal foot.	1,943.00
210	lineal feet of thirty-three (33) inch internal diameter vitrified tile pipe sewer, depth of cut eight (8) feet or more but less than ten (10) feet, average cut eight and eight-tenths (8.8) feet, @ \$8.00 per lineal foot.	1,680.00
870	lineal feet of reinforced concrete sewer of thirty-six (36) inches internal diameter, depth of excavation four (4) feet or more but less than six (6) feet, average depth five and one-tenth (5.1) feet, @ \$8.50 per lineal foot.	7,395.00
610	lineal feet of reinforced concrete sewer of thirty-six (36) inches internal diameter, depth of excavation six (6) feet or more but less than eight (8) feet, average cut six and six-tenths (6.6) feet, @ \$8.80 per lineal foot.	5,368.00
830	lineal feet of reinforced concrete sewer of thirty-six (36) inches internal diameter, depth of excavation eight (8) feet or more but less than ten (10) feet, average cut nine (9) feet, @ \$9.30 per lineal foot.	7,719.00
480	lineal feet of reinforced concrete sewer of thirty-six (36) inches internal diameter, depth of excavation ten (10) feet or more but less than twelve (12) feet, average depth cut ten and six-tenths (10.6) feet, @ \$9.80 per lineal foot.	4,704.00
10	cubic yards of concrete for casing 20-inch sewer within right of way lines of Chicago, Milwaukee & St. Paul Railroad Co., on Osterman Avenue.	176.00
107.5	cubic yards of concrete for casing 30 inch and 33 inch sewers.	1,075.00
520	lineal feet of reinforced concrete sewer six (6) feet horizontal by three (3) feet vertical, depth of excavation more than seven (7) feet but less than nine (9) feet, average depth eight (8) feet, @ \$17.00 per lineal foot.	8,840.00
495	lineal feet of reinforced concrete sewer six (6) feet horizontal by three and one-half (3 1/2) feet vertical, depth of excavation more than six (6) feet but less than eight (8) feet, average cut six and five-tenths (6.5) feet, @ \$20.00 per lineal foot.	9,900.00
260	lineal feet of reinforced concrete sewer six (6) feet horizontal by four (4) feet vertical, depth of excavation more than five (5) feet but less than seven (7) feet, average cut six (6) feet, @ \$23.00 per lineal foot.	5,980.00
1	reinforced concrete float chamber with sewage regulator for six (6) foot by four (4) foot sewer in Deerfield Avenue, @ \$500.00 each	500.00

1	reinforced concrete float chamber with sewage regulator for thirty-six (36) inch sewer in Osterman Avenue, @ \$500.00 each	500.00
1	concrete headwall for six (6) foot by four (4) foot sewer, @ \$300.00 each	300.00
1	concrete headwall for thirty-six (36) inch sewer, @ \$100.00 each	100.00
1	concrete headwall for twenty-four (24) inch sewer, @ \$100.00 each	100.00
1	Disposal Plant itemized as follows:	
1	concrete headwall for fifteen (15) inch sewer, @ \$100.00 each	100.00
313	cubic yards of reinforced concrete for settling tank @ \$48.00 per cubic yard	15,024.00
1	brick masonry sludge manhole complete with concrete bottom, brick walls and cast iron cover, @ \$100.00 each	100.00
1252	cubic yards of grading for settling tanks and sludge beds, @ \$1.00 per cubic yard	1,252.00
2	cast iron sludge gate valves with bronze mountings and riser stems, complete in place, @ \$100.00 each	200.00
1	fifteen (15) inch cast iron sluice gate with bronze mountings, complete in place, @ \$50.00 each	50.00
105	lineal feet of eight (8) inch cast iron sludge pipe, including all special castings and appurtenances, complete in place, @ \$3.00 per lineal foot	315.00
190	lineal feet of vitrified influent and effluent pipe of fifteen (15) inches internal diameter, including all special fittings and appurtenances, complete in place, @ \$2.00 per lineal foot	380.00
36	lineal feet of eight (8) inch vitrified tile sludge pipe, @ \$1.00 per lineal foot	36.00
2	cast iron sludge pipe supports, complete in place, @ \$5.00 each	10.00
1	concrete sludge chamber, @ \$15.00 each	15.00
1	diaphragm trench pump with three-inch suction complete in place, including twenty (20) feet of steel suction pipe of three (3) inch internal diameter, including all appurtenances, complete in place, @ \$150.00 each	150.00
80	square feet of fly screen, complete in place, @ \$.50 per square foot	40.00
160	lineal feet of drain tile with internal diameter of four (4) inches, @ \$.50 per foot	80.00
70	cubic yards of gravel for sludge beds, complete in place, @ \$2.00 per cubic yard	140.00
15	cubic yards of coarse sand for sludge beds, complete in place, @ \$2.50 per cubic yard	45.00
1	brick masonry manhole for effluent pipe complete with concrete bottom, brick walls, and cast iron cover, @ \$80.00 each	80.00
3	eight (8) inch cast iron sluice gates with bronze mountings, complete in place, @ \$20.00 each	60.00
2	cubic yards of concrete for sludge distributing slabs in sludge beds, @ \$25.00 per cubic yard	50.00
4	steel hatch covers, complete in place, @ \$15.00 each	60.00
150	lineal feet of galvanized iron rods 1/2" in diameter for ladder rounds in settling tank and in sludge manhole and effluent pipe manhole, @ \$.10 per lineal foot	15.00
	(The above prices for items in Disposal Plant shall include all necessary appurtenances shown on the drawing attached hereto or required to construct said plant in a good and workmanlike manner.)	
	Total estimated cost of Disposal Plant	\$18,105.00
11	concrete manholes constructed on concrete sewers, complete in place, including cast iron cover, @ \$74.55 each	\$ 820.00
158	concrete manholes constructed on tile pipe sewers, complete in place including cast iron cover, @ \$70.00 each	11,060.00
44	concrete catchbasins, complete in place, including cast iron cover, @ \$80.00 each	3,520.00
880	lineal feet of eight (8) inch tile pipe connections for catchbasins, @ \$0.80 per lineal foot	704.00
	The foregoing items shall include all the necessary excavations, filling joints with mortar, Y-branches and slants, disc stoppers, backfilling, and all labor and materials. Cost of Engineering and Inspection	\$ 1,900.00
	Total-Labor and Materials	\$197,996.00
	Cost of making, levying, and collecting the assessment attending the same, as provided by law, not to exceed six (6) per cent	11,879.88
	Total Estimated Cost of Said Proposed Improvement	\$209,875.88

LINCOLN FETTIS, President

I hereby certify that, in my opinion, the above estimate does not exceed the probable cost of the above proposed improvement and the lawful expenses attending the same.

LINCOLN FETTIS, PRESIDENT OF THE BOARD OF LOCAL IMPROVEMENTS OF THE VILLAGE OF DEERFIELD.

AN ORDINANCE for a Local Improvement in the Village of Deerfield, Lake County, Illinois, providing for the construction of a system of sanitary and combined sewers, together with manholes, catchbasins, catchbasin connections, house and catchbasin slants and Y branches and a sewage disposal plant and all auxiliaries and appurtenances thereto, and outlet for the same.

BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF DEERFIELD:

SECTION I: That a local improvement be, and the same is hereby directed to be made by special assessment in the Village of Deerfield, County of Lake, and State of Illinois, the nature, character, locality, and description of which local improvement is as follows, to-wit:

PARAGRAPH 1: A sewage treatment plant shall be constructed and located on the following described tract of land: Part of the south-east quarter of Section 32, Township 43 North, Range 12 East of the Third Principal Meridian, beginning at a point in the northerly line of the S. E. 1/4 of the S. E. 1/4 of said Section 32, said point being 733 feet east of the northwest corner of said S. E. 1/4 of the S. E. 1/4 of said Section 32, thence south on a line normal to said northerly line for a distance of 383 feet more or less to the center of the drainage ditch of Union Drainage District No. 1, thence northwesterly and westerly along the center line of said drainage ditch to the northerly line of said S. E. 1/4 of the S. E. 1/4 of said Section 32, thence east along said northerly line 657 feet more or less to the place of beginning, all in the Village of Deerfield, Lake County, Illinois.

Said sewage treatment plant shall consist of a reinforced concrete settling tank, forty-seven (47) feet long, twenty-four (24) feet eight (8) inches wide, thirty-three (33) feet six (6) inches in depth, outside dimensions, together with necessary entrance pipes, discharge pipes, manholes, sludge pump, sludge beds, and all other necessary appurtenances and fittings as shown in detail in Drawings Nos. 2 and 2A attached hereto and made a part hereof.

PARAGRAPH 2: The entrance manhole for said disposal plant shall be located at a point 220 feet easterly of the N. W. corner of S. E. 1/4 of the S. E. 1/4 of Section 32, Township 43 North, Range 12 East of the Third Principal Meridian, (measured along a line parallel with and forty (40) feet south of the north line of S. E. 1/4 of the S. E. 1/4 of Section 32, and forty (40) feet southerly of the north line of S. E. 1/4 of the S. E. 1/4 of Section 32, aforesaid, measured along a line parallel with the north and south center line of said Section 32.

The location of the tank and appurtenances and the elevations thereof shall be in conformance with the locations and grades shown in Drawings Nos. 2 and 2A attached hereto and made a part hereof.

The elevation of the bottom of the invert of the entrance manhole shall