(14) feet in length, eight (8) feet six (6) s in height, with a thickness of twelve (12) inches at the top and uniformly in- 41.87 feet above datum. creasing to three (3) feet at the bottom, complete, including all excavation, sheeting, shoring, bracing, pumping, and all labor, tools, materials, equipment and appurtenances specesary to furnish and place the beadwall; said headwall to extend 7 feet on each side of said pipe along said ditch :

(P) 6400 pounds of four (4) inch internal diameter cast iron pipe and fittings providing two discharge mains from the outside of the walls of the pumping station sub-structure into the injet chamber of the settling tank of the existing sewage treatment plant of the North Shore Sanitary District, said pipe to be of bell and spigot type with caulked oakum and lead joints with fittings of hell and spigot type or flanged type joints, the pipe weighing twenty (20) pounds per lineal foot, all fittings to be Class D, all pipe and fittings conforming to the standards of the American Water Works Association, the pipe lines to be furnished and placed complete including all breaking of concrete and replacement of concrete necessary for connecting into the inlet chamber of the settling tank, all excavation, backfilling, sheeting, shoring, bracing, pumping, and all labor, tools, materials, equipment and appurtenances necessary to complete the (wo (2) discharge

That all manholes hereinbefore specified shall be constructed of either six inch concrete manhole blocks, or best quality hard burned sewer bricks whichever herein specified. Said concrete blocks shall be of the best quality, and free from cracks or other shall be constructed with a half round ver- 53.26 feet above datum. on contiguous blocks will match and form 52.47 feet above datum. a round vertical opening not less than 15" The grade of the sewer in manhole at the in diameter. Said openings shall be com- Northerly terminus of the sewer on Westwood pletely filled with Portland cement mortar Avenue shall be 51 feet above datum. coment, 2 parts sand, and 4 parts gravel, Greenwood Avenue shall be 50.41 feet above and shall be carefully laid and grouted with | datum. (4) feet. The bottoms of said manholes datum. Portland cement, two parts sand and five be 51.1 feet above datum. parts crushed stone or gravel, and shall shall be formed of the same diameter as datum. the pipe over which the manhole is built, The top three feet of said manholes shall be at the Northerly terminus thereof on East- | Park, Lake County, Illinois, plastered with a cost of cement mortar, of shall be drawn in to an internal diameter of two feet, by means of twelve header courses, the diameter being decreased one inch for each header course. Ladder rungs of 2," galvanized wrought iron shall be built into the walls of said manholes and placed 18 inches apart. Said manholes shall be furnished with a cast iron manhole cover. weighing not less than 540 pounds, with a round cylindrical opening with lid 22 inches in diameter, of the Highland Park pattern Section 3. That the vitrified clay pipe hereinbefore specified to be used shall be number

weight and grade known as "Double Strength | datum. Pipe. hot-poured bituminous pipe wint material or catum. of quick-setting natural cement and sand the grade of the sewer in manhole located and m. intained by the said North Shore Santary Dismortar, composed by volume of one part of the Quick-setting natural cement and sand Quick-setting natural cement and sand North Shore Santary Dismortar, composed by volume of one part of the Quick-setting natural cement and sand North Shore Santary Dissaid cement and two parts said moctar, the West line of Compton Arenne shall be trict as herein provided. joint held in place with a band of cloth. | 49.33 feet above datum. plant shall be made of a good grade of east iron in standard lengths of six feet. Said datum. pipe shall be designed for working pressures

bell and spigot clay pipe, well burned through-

out their entire thickness, and free from

flaws, cracks, blisters or other imperfections

their durability. All clay pipe, having in-

Inside dia. Approx. Thick. Inches Said pipe shall have joints that are latheturned to a taper, with the spigot end tapered slightly less than bell end. Said pipe shall

be made with flanges or lugs on each end provided with holes for bolting pipes together. The joints of said pipe shall be painted with white lead and oil before bolting. Bolts shall be galvanized or otherwise coated to resist! That all cement used in making this improvement shall, unless otherwise specified,

be Portland cement of a fineness permitting 92 per cent to pass through a sieve with 106 meshes to a lineal inch; test pieces made by volume of one part of said cement and three parts of sand shall have a tensile strength of 26) bounds to the square inch after being exposed to the air one day and immersed in

All sand herein provided to be used for concrete or mortar shall be clean, sharp sand: that all water berein provided to be used shall be clean and suitable for the purpose for which it is used That all pavements, walks and parkways

where damaged shall be repaired and left in as good condition after the completion of the improvement as when the improvement The trenches shall be excavated along the

line of sewers herein located, of such width and depth as to permit the sewers to be laid on the bottom of such trenches to the lines and grades herein fixed. That as the sewers are laid and completed and tested, the trenches shall be refilled with the materials excavated, and the streets and property restored to good condition, and all surplus materials removed. That the cement mortar herein prescribed

to be used shall, unless otherwise specified, be composed of one port Portland cement and two parts sand, with sufficient water to make the proper consistency. The datum herein referred to shall be a

horizontal plane distant in a vertical line 118.78 feet below the top of the water-table in the southeast corner of the City Hall in the City of Highland Park, which is the established datum of the said City of Highland Park

That in the construction of the foregoing sewers the term "grade line" or "flow line" shall be understood as the inside bottom of the sewers when laid in place, and in all cases the grade line shall be a straight line between the points of elevation herein given. All elevations herein fixed shall refer to the city datum as heretofore established and elevations herein fixed shall be taken as measured vertically from such datum. That in the construction of the said sewer

there shall be used twelve hundred (1200) cubic vards crushed stone to make a proper foundation for the said sewer pipe That easements giving the right to con-

struct, maintain and operate such of the foregoing sewers as are to be laid through the property under the control of the North Shore Sanitary District, shall be acquired in to cover a strip of land sixteen (16) feet in width, located eight (8) feet on each side of the center line of the sewer as hereinbefore located and described. Such easements shall include pertions of the following described property, to-wit: A strip of land sixteen (16) feet wide along the line of the sewer as hereinbefore described to be constructed on the land controlled by the North Shore Sanitary District being in the North at the intersection of Willow Road and Wilor of the Southwest quarter of the South rest quarter of Section 15, Township 43 B North, Range 12 East of the Third Principal Meridian, in the City of Highland Park, County of Lake and State of Illinois, and that the necessary easement and permission at the Southerly terminus of the sewer in obtained for the right to construct upon the above described property of the North Shore Sanitary District, the sewage pumping plant as herein provided to be constructed. That the improvement herein provided for shall be constructed in accordance with the following table of grades, to-wit:

The grades of the flow lines of the sewers above datum which it is proposed to construct under this resolution are as follows: In the manhole located in the Northeast corner of the property of the North Shore line of said property and 36.5 feet South of North line thereof said grade shall be 4.78 feet above datum.

In the manhole in Derrick Street 36.5 feet

shall be 49.93 feet above datum. In manhole in Derrick Street at intersection of alley in Block 2 same Addition the grade of the 14 inch sewer shall be 43.06 the south east corner of said quarter quarter

shall be 49.03 feet above datum. The grade of the 14 inch sewer in manhole Section 15, thence east on the north at the intersection of Chicago Avenue sewer line of said Section 15 to the north east and Compton Avenue from the north shall corner of the north west quarter of said be 46.93 feet above datum. The grade of the 15 inch sewer at the

intersection of Greenwood Avenue and Chicago Avenue shall by 48.33 feet above datum. The grade of the 12 inch sewer at the intersection of Eastwood Avenue and Chicago of Section 22, township and range aforesaid) Avenue shall be 51.05 feet above datum. The grade of the sewer at the intersection of Jefferson and Chicago Avenue shall be 53 92 feet above datum.

The grade of the *zwer in manhole located in the Southwest corner of lot 75 Greenwood said section 22, to the south line of said north Gardens, shall be 54.9 feet above datum. The grade of the sewer in manhole at intersection of Compton Avenue and alley in Block 1 shall be 51.97 feet above datum. The grade of the sewer in manhole at the Easterly terminus of sewer in alley in Block 2 Comptons Addition shall be 52.25 feet above datum

The grade of the sewer in manhole located flaws which might impair their strength or in Comptons Avenue 42 feet North of the quarter quarter section, to the north line of lessen their durability. Said concrete blocks North line of Underwood Avenue shall be section 22 aforesaid; thence west, on the tical groove on each end having a radius of The grade of the sewer in manhole located line of Section 21, township and range aforenot less than 34 of an inch. Blocks shall in Compton Avenue 42 feet South of the said, to the east line of the north west quar-

composed by volume of 1 part best quality. The grade of the sewer in manhole located Portland cement and 2 parts of clean sharp at or near the Northerly terminus of Blacksand, with enough water added to give it wood Avenue shall be 51.63 feet above datum. the proper consistency. Said blocks shall be The grade of the sewer located in manhole composed by volume of 1 part Portland at the intersection of Underwood Avenue and

mortar of the same kind as above specified. The grade of the sewer in manhole located Said manholes shall be cylindrical in form at the Northerly terminus of the sewer on and shall have an internal diameter of four | Greenwood Avenue, shall be 52.18 feet above

shall be composed by volume of one part of the West line of Blackwood Avenue, shall

sewer, and in said bottom a concrete invert Eastwood Avenue should be 52.85 feet above south west quarter and the north line of the

wood Avenue shall be 55.05 feet above datum. That all property abutting on the lines of inch in thickness. The top of said manholes at the intersection of Greenwood Avenue and sewer district hereinbefore described, may be Blackwood Avenue shall be 48.93 feet above connected therewith without any additional

> feet above datum. of the North line of Chicago Avenue shall said sewer as may be legally prescribed. be 59.72 feet above datum.

1 quality, vitrified, salt glazed cylindrical

thereof shall be 65.98 feet above datum. The grade of the sewer in manhole located of Illinois. that might impair their strength or lessen Avenue shall be 46.9s feet above datum. ternal diameters of 8, 10 or 12 inches shall

who was krade of the sewer in manhole located hand Park, that an agreement shall be en-That the joints of the hereinbefore speci- at the intersection of Compton Avenue and tored into by and between the said City of

50.85 feet above datum.

feet above datum

sewer shall be 53.3 feet above datum. sewer shall be 54.28 feet above datum.

on Half Day Road at the Easterly terminus of six (6) per cent per annum according to of the sewer shall be 45.72 feet above datum, law. from which point West for a distance of grade from which point West for a distance of 21.39 feet said sewer shall rise on a .03% grade, from which point a distance of 218.5 grade; thence West for a distance of 220 some multiple thereof, and shall in all resfeet said sewer shall rise on a 2% grade; thence West for a distance of 320 feet said

sewer shall rise on a 2.5% grade. The grade of the sewer in manhole located at the intersection of Half Day Road or Prairie Avenue and Main Street shall 54 96 feet above datum. The grade of the sewer in manhole located at the Southerly terminus of Main Street

shall be 58.56 feet above datum. The grade of the sewer in manhole located at the intersection of Maplewood Road and Half Day Road or Prairie Avenue, shall be 59.08 feet The grade of the sewer in manhole located Maplewood Road at its intersection with

Thornapple Lane shall be 61.71 feet above The grade of the sewer in manhole located at the Southerly terminus of said sewer on Maplewood Road shall be 63.64 feet above

manhole located at the intersection of Thornapple Lane and Maplewood Road shall be 62.07 feet above datum. The grade of the sewer in manhole located

Lots 16 Block 12 Highmoor Subdivision shall be 66.93 feet above datum. The grade of the sewer in manhole located the manner provided by law, such easements at the Westerly terminus said sewer in Thornapple Lane shall be 71.05 feet above datum. The grade of the sewer in manhole located at the intersection of Maplewood Road and Willow Place shall be 60.36 feet above datum.

in Thornapple Lane opposite the center line

The grade of the sewer in manhole located in Willow Place about midway between Willow Road and Maplewood Place shall be 67.4 The grade of the sewer in manhole located

South of the South line of Willow Pince, the grades shall be 72.8 feet above datum. The grades of the sewer in manhole located Willow Road shall be 75.2 feet above datum. THE CITY OF HIGHLAND PARK. The grade of the sewer in manhole located at the Northerly terminus of the sewer in Willow Read is 76 feet above datum.

at the noutherly terminus of Ridge Road and we. WINDES and MARSH, Engineers sewer shall be 81.5 feet above datum. hereinabove set forth shall be a straight line of the cost of the making of the proposed grade connecting the points herein above local improvement consisting of the con-

Section 4. That for the purpose of the said | the Northwesterly part of the City of Highimprovement there is hereby created a sewer | and Park, necessary manholes, and the condistrict within the City of Highland Park, struction of a complete sewage pumping Lake County, Illinois, the external boundaries plant in connection therewith, all as proof which sewer district are as follows, to-wit: vided and described in the foregoing ordi-

grade of the 14 inch sewers shall be 42.17 16, township and range 'aforesaid, to the the sum of Two Hundred Eleven Thousand feet above datum. The grade of the 8 inch south east corner of the north east quarter of and Fifty-six and 10/100 (\$211,056.10) Dolsewer leading to East from same manhole the north east quarter of said section 16, lars, itemized as follows, to-wit: thence east on the south line of the north | 4542 lineal feet of fifteen (15) inch west quarter of the north west quarter of Section 15, township and wage aforesaid to feet above datum. In same manhole the section, thence north on the east line of the grade of the 8 inch sewer leading to East north west quarter of the north west quarter of said Section 15 to the north line of section, thence south on the east line of the north west quarter and the cast line of the south west quarter of section 15 to the south line of said Section, thence east on the south line of section 15 (being also the north line to the north east corner of the north half of the north west quarter of the north east quarter of said section 22, thence south, on the east line of the north half of the north west quarter of the north east quarter of haif of the north west quarter of the north east quarter of section 22; thence west on said south line, to the east line of the north east quarter of the north west quarter of said Section 22; thence south, on said east line, to the south line of said quarter quarter section; thence west, on the south line of said quarter quarter section to the west line thereof thence north, on the west line of said north line of said Section 22 and the north be so constructed and laid that the grooves South line of Underwood Avenue shall be ter of said Section 21; thence westerly, along the center line of Meadow Lane, to the intersection of said center line with the north line of aforesaid Section 21; thence west, on the north line of Section 21, to the east line of the west half of the west half of the South West quarter of aforesaid section 16; thence north, on the east line of the West half of the half of the south west quarter of Section 16, to the north line of said south west quarter section; thence west, on the north line of said south west quarter section, to the west line of Section 16 aforesaid; thence north, on the west line of section 16, to the north west corner of said section; thence east and north easterly, along the center line of Old shall be constructed of brick or concrete. The grade of the sewer in manhole located Mill Road to the west line of the east half which ever specified herein; said concrete in Underwood Avenue about 150 feet East of the south west quarter of aforesaid Section 9; thence north, on the west line of the east half of the south west quarter of section The grade of the sewer in manhole located 9, to the north line of said south west quarter begin four inches below the grade of the at the intersection of Underwood Avenue and section; thence east, on the north line of the south east quarter of Section 9, to the place The grade of the sewer in manhole located of beginning, all in the City of Highland

The grade of the sewer in manhole located the said sewer or, lying within the said cost or charge whatever, and permission and The grade of the sewer in manhole located authority is hereby given owners and occuin Jefferson Averue 140 feet North of the pants of such property to make and con-North line of Chicago Avenue shall be 55.7 | struct apy and all necessary connections from such property with such sewer, subject, how-The grade of the sewer in the manhole ever, to such reasonable regulations for the located in Jefferson Avenue 394 feet North doing of the work and fir the joining with

That the foregoing improvement shall be The grade of the sewer in manhole located complete in all respects, and that all materiat the intersection of Underwood Avenue and als used in its construction shall be of the Jefferson Avenue shall be 63.6 feet above best of its kind and that all work shall be done in a first-class workmanlike manner The grade of the sewer in manhole located | under the direction of and to the satisfaction in Jefferson Avenue at the Northerly terminus; of the Board of Local Improvements of the City of Highland Park, Lake County, State

at the intersection of Chicago Avenue and! That the sewage pumping plant herein Compton Avenue running South from Chicago : provided to be constructed shall when compieted be turned over to the North Shore The grade of the sewer in manhole located | Sanitary District and be controlled, operated dard Pipe." All clay pipe having an internal at the Southerly terminus of the sewer on and maintenance of the said so wage pumping diameter of fifteen inches shall be of the Compton Avenue shall be 50.51 feet above stary District at its own expense and without any cost or expense to said City of Highfied clay pipe sewer shall be made of either | Onwentsia Avenue, shall be 49.4 feet above | Highland Park and the said North Shore

SECTION -- Inab. the said unprovened to The grade of the sewer in manhole located shall be made and the total cost thereof, being fied excepting the pipe used in the pumping at the Southerly terminus of the sewer in the sum of Two huntred Eleven Thousand Greenwood Avenue shall be 51.95 feet above Fifty-six and 10 100 Hollars (\$211,056.10). I including the sum of Eleven Thousand Nine The grade of the sewer in manhole located Hundred Dollars (\$11,900.00), being the in Onwentsia Avenue about 55 feet East of anount included in the estimate of cost as closely to the following weights and thick- the East line of Greenwood Avenue shall be made by the Mayor of said city hereto at-Weight per ft. The grade of the sewer in manhole located collecting the assessment therefor, be paid Pounds at the intersection of Greenwood Avenue and for by special assessment to be levied upon Woodcorte shall be 48.9 feet above datum, the property specially benefited to the amount The grade of the Westerly manhole located that the same may be legally assessed thereat the intersection of Eastwood Avenue and for in accordance with the privisions of an Woodcorte shall be 49.9 feet above datum, act of the General Assembly of the State of The grade of the sewer located in the East- Illinois, entitled: "An Act Concerning Local erly manhole at the intersection of Woodcorte | Improvements," approved June 14, 1-37, and and Eastwood Avenue shall be 50.02 feet all acts amendatory thereof or supplemental thereto, and that the said sum of \$11,900 00 The grade of the sewer in manhole located shall be applied toward paying the lawful at the Southerly terminus of Eastwood Av- costs and expenses attending the proceedings enue sewer shall be 52.23 feet above datum. for making said improvements and the cost The grade of the sewer in the manhole of making and collecting the assessment located at the Northerly terminus of that therefor, as provided in and by said Act of part of Eastwood Avenue sewer lying South the General Assembly of the State of Illinois. of Chicago Avenue shall be 53.22 feet above SECTION 3. That the aggregate amount herein ordered to be assessed against property. The grade of the sewer in manhole and each individual assessment, also the located at the intersection of Onwentsia assessment, if any, against the municipality Avenue and Western Avenue shall be 52.26 on account of property owned by the municipality and for public benefits, if any, The grade of the sewer in manhole located shall be divided into ten (10) installments in at the Southerly terminus of Western Avenue the manner provided by law, which parts shall be equal in amounts and each a mul The grade of the sewer in manhole located tiple of one hundred, except that any fracat the Northerly terminus of Western Avenue | tional amount after division as aforesaid shall be apportioned to the first installment. Each The grade of the sewer in manhole located installment shall bear interest at the rate

SECTION 4. That for the purpose of an-337.5 feet said sewer shall rise on a 0.35% ticipating the collection of the second and succeeding installments of said assessment for said improvement provided for in this ordinance, bonds shall be issued by the said City feet said sewer shall rise on a 0.38% grade; of Highland Park, payable out of said inthence West for a distance of 375 feet said stallments, bearing interest at the rate of sewer shall rise on a .65% grade; thence six (6) per cent per annum, payable annually West a distance of 367 feet said sewer shall as provided by law and signed by the Mayor rise on a 0.35", grade; thence North for a of said City of Highland Park and attested distance of 375 feet said sewer shall rise on by its clerk under the corporate seal of said a 1.44% grade; thence West for a distance of city. Said bonds shall be issued in the sum 752 feet said sewer shall rise on a 1.5% of One Hundred Dollars (\$100.00) each, or pects be issued in accordance with and shall in all things conform to the provisions of an Act of the General Assembly of the State of Illinois, entitled: "An Act Concerning Local Improvements approved June 14, 1897, and

all acts amendatory thereof or supplemental SECTION 5. That the recommendation to the Council by the Board of Local Improvements of the City of Highland Park, Lake County. Illinois, recommending the making of said improvement and the passage of said ordinance together with the estimate of the cost of the said improvement made by the Mayor of said city, both of which are hereto attached, be and the same are hereby approved and by reference made a part hereof. SECTION 6. That the Mayor of the said City of Highland Park be and he is hereby directed to file a petition in the name of the said City of Highland Park in the County Court of Lake County, praying that steps The grade of the sewer in the Westerly may be taken to levy a special assessment for the purpose of defraying the cost of said improvement so far as it may be lawfully done, and to ascertain what property will he henefited by said improvement and the amount of such benefits, in accordance with the provisions of this ordinance and the statutes of the State of Illinois in such case made and provided

SECTION 7. All ordinances or parts of ordinances conflicting with this ordinance be and the same are hereby repealed. SECTION 8. That this ordinance shall be in force from and after its passage.

Mayor of the City of Highland Park, Lake County, Illinois. Filed June 18th, 1928 Passed

Clerk of the City of Highland Park,

ESTIMATE OF COST TO THE COUNCIL OF LAKE COUNTY, ILLINOIS

I, BENJAMIN P. LEWIS, Mayor of the The grade of the sewer in main hall located City of Highland Park, Lake County, Illinois, specially employed by the City of Highland The grade of the newer at all points not Park, do each severally submit an estimate struction of sewers to serve certain areas in

Beginning at the north east corner of the nance authorizing said improvement to which south of Prairie Avenue the grade shall be south east quarter of Section 9, Township 43

11.87 feet above datum.

In manhole at intersection of Derrick Street and alley in Block 1 Compton Addition, the said Section 9 and on the east line of Section all lawful expenses attending the same, is said Section 9 and on the east line of Section all lawful expenses attending the same, is

> internal diameter vitrified salt glazed clay, bell and spigot pipe sewer, of double strength, Number I quality pipe, laid in open cut trench, at an average depth of 12 feet, with Portland cement or hot-poured asphaltic compound joints complete in place and backfilled @ \$8.35 per lineal \$37,925.70

892 lineal feet of twelve (12) inch internal diameter Number 1 quality vitrified, salt glazed clay, bell and spigot pipe sewer, laid in open cut trench, at an average depth of 9.5 feet, with Portland cement or hot-poured asphaltic compound joints, complete in place and backfilled @ \$5.40 per lineal foot, 463 lineal feet of ten (10) inch in-

ternal diameter Number 1 quality vitrified, salt glazed clay, bell and spigot pipe sewer, laid in oren cut trench, at an average depth of 8.3 feet, with Portland cement or hot-poured asphaltic compound joints, complete in place and backfilled at \$3.60 per lineal foot. 13 lineal feet of eight (8) inch in-

ternal diameter Number 1 quality vitrified, sait glazed clay, bell and spigot pipe sewer, laid in open cut trench at an average depth of 7.8 feet, with Portland cement or hot-poured asphaltic compound joints, complete in place and backfilled at \$3.20 per \$34,281.60 lineal foot,

6 lineal feet of fourteen (14) inch internal diameter cast iron sewer, constructed of cast iron pipe in lengths of six feet, having lathe-turned tapered joints, and provided with flanges or lugs drilled for bolts, tested for working pressure of 100 pounds per square inch, laid in open cut trench, at an average depth of 12 feet, joints tightly bolted, compice in place and backfilled at \$9.90 per lineal foot,

3 lineal feet of twelve (12) inch int rnal diameter cast iron sewer, constructed of cast iron pipe in lengths of six feet, having latne-turned tapered joints and provided with flanges or bugs drilled for bolts, tested for a working pressure of 100 pounds per square inch laid in open cut trench, at an average depth of 9.5 feet, joints tightly bolted, complete in place and backfilled at \$6.75 per lineal foot, it lie al feet of ten (10) inch internal

dia neter cast iron sewer constructed of cast iron pipe in lengths of six feet, having latheturned tapered joints, and provided with flanges or lugs drilled for boils, tested for a working pressure of 100 pounds per square inch, laid in open cut trench at an average depth of +3 feet. joints tightly bolted, complete in place and backfilled at \$4.70 per 3,510.90

66-5 lineal feet of eight (8) inch internal diameter cast fron sewer constructed of cast iron pipe in lengths of six feet, having latheturned, tapered joints, and proyided with flanges or lugs drilled for polts, tested for a working pressure of 100 pounds per quar : inch, laid in open cut trench at an average depth of 1.8 feet, joints tightly bolted, complete in place and backfilled at \$3.95 per 1290 cubis yards of crushed stone

used as a foundation for pipe at \$3.00 per cubic yard 117 Manholes having an internal diameter of four (4) feet and an average depth of "mannet The Col. feet, constructed of pre-cast segmental concrete manhole blocks six (6) inches in thickness, with concrete floors with an average thickness of six 161 inches compered by volume of one part Portland Cement, two parts sand and five parts crushed stone or washed gravel, complete with ladder rungs of % inch galvanized wrought-iron spaced is inches apart, and cast iron manhole frames and covers weighing not iess than 340 pounds, complete in

place and backfilled at \$125.00 14,625.00 Pumping Station complete, including substructure, superstructure, pumps, motors, vaives, floats and switches, piping manholes and all appurtenances, wired complete and ready to operate, 23,249.10 itemized as follows:

a steel reinforced concrete pumping station substructure twenty-three feet nine inches (23'-9") long, nineteen feet (19'-0") wide and varying from twenty-one feet six inches (21'-6") to twenty-two feet six inches (22'-6") in depth; with a floor twentyfour (24) inches thick and outside walls fifteen (15) inches thick at the top and increasing uniformly to twenty-four (24) inches thick at the bottom; with interior walls, slabs and beams; all concrete to be proportioned one (1) part Portland Cement, two (2) parts sand, and four (4) parts gravel or crushed stone, the total volume of concrete of two hundred and fifty (250) cubic yards to be reinforced with twenty-five thousand (25,000) pounds of new billet, intermediate grade, open hearth reinforcing steel imbedded in the concrete of the sizes and spacing as shown on the plans and also including all excavation, backfill, grading, sheeting shoring, bracing, pumping, and all labor, tools, materials, equipment and appurtenances necessary to furnish and construct the pumping station substructure, complete at 1 Pumping Station superstructure, consisting of 9,000 face

brick and 15,000 common brick, said superstructure, to be 19 feet by 23 feet 9 inches inside dimensions, and the walls thereof to be 13 inches thick, doors and sash, hardware, wood framed roof with asphalt roofing felt and slate roof covering, cut stone trim and sills, anchors, lintels, louvres, in the brick work for ventilation, electric lighting, painting of all exposed woodwork and steel cleaning up and all labor. tools, materials, equipment and apprutenances necessary to complete the pumping station superstructure at \$4,000.00 2 Vertical sewerage pumps of the trash type, each to pump

at the rate of two hundred (200) gallons per minute against a total head of thirtyone and five-tenths (31.5) feet, the pumps to be furnished and erected with five horse-power vertical electricmotors, control panels with float switches for each pump, electric conduits and wiring complete, intermediate guide bearings with channel suppump supports and all labor. tools, materials, equipment and appurtenances necessary to furnish and erect the new-

age pumps at \$1500.00 each 3,660.66 I vertical sewage pump of the trash type, to pump at the rate of twenty-eight hundred (2800) gallons per minute against a total head of eighteen and five-tenths (18.5) feet the pump to be furnished and erected with twenty-five horse power vertical electric motor control panel with float switch so arranged that the starting of this pump can be

made to cut out the two (2) small pumps, electric conduits and wiring complete, intermediate guide bearings with channel supports, lubricution system, pump supports and all labor, tools, materials, equipment and appurtenances necessary to furnish and erect the sewage pump

8380 pounds of 4, 8 and 12 inch internal diamter cast iron pipe and fittings including suction and discharge piping for the three(3)sewage pumps within the outside lines of the pumping station substructure and also including the three (3) float tubes, all pipe to be "Class A" and all fittings to be "Class D" of the American Water Works Standard, including ail concrete and iron pipe supports; all joints to be beil and spigot with caulked cakum and lead joints or flanged, the piping to be furnished and erected complete with all labor, tools, materials, equipment and appurtenances at 8 cents per pound

6000 pounds of miscellaneous structural steel, wrought iron and cast iron within the pumping station, including 2300 pounds of cast iron and 3700 pounds of structural steel and wrought iron consisting of three (3) rectangular checker plate manhole covers hinged to cast iron frames, the sewage bar screen, the pipe railing around the screen chamber, the fifty-four (54) inch spiral stairway. forty-eight (48) cast iron manhole steps, the circular manhole frame and cover in the screen chamber, and all labor, tools, materials, equipment and appurtenances necessary to furnish and erect the miscellaneous metal work at 10 cents per pound, 600.00 6 gate valves with extension

stems and floor stands to be furnished and placed on the suction and discharge pipes of the pumps, four (4) of said valves to be four (4) inch and two (2) of said varies to be twelve (12) inch. all of said valves to be rising stem type of standard make and shall conform to the speeffications of the American Water Works Association for light pressure valves, compiete with all labor, tools, materials, equipment and appurtenances necessary to furnish and place the valves at

\$300.00 \$50.00 cach I sluice gate with opening twenty-four (24) inches square with extension stem and floor stand, said since gute to be designed to withstand a pressure of twenty (20) feet of water on either side of the gate, the sluice gate to be of a standard manufacture and shall be furnished and erected complete with all labut, tools, materials, equipment and appurtenances necensury to install the sluice \$300.00 gate at 11.8 lineal feet of eighteen (1x) inch internal diameter cylindrical beil and apigot cast

iron pipe sewer weighting one hundred and twenty-nine and ten-tenths (129.2) pounds per lineal foot, said pipe providing a connection from "Manhole No. 1" into the pumping station substructure, said pipe to be laid with caused onium and lead points including excavation, backfilling, sheeting, shoring, bracing, pumping, and all labor, tools, materials, equipment and aplenation becemary to furnish and install the eighteen (ln) inch cast iron pipe sewer at \$12.60 per lineal foot \$150.00 11.8 lineal feet of twelve (12) inch internal diameter bell and spigot cast iron pipe sewer weighting seventy-two and five-tenths (72.5) pounds per lineal foot, said pipe providing a connection from the numping station substructure into "Manhole No. 2," said pipe to be laid with caulked casum and lead joints including excavation, backfilling, sheeting, shoring, bracing, pumping and all labor, tools, materials, equipment and appurtenances necessary to furnuch and install the twelve (12) inch cast iron pipe sewer at \$5.50 per lineal foot \$65.00 1 Manhole for reference known as "Manhole No. 1" providing · a junction for the two (2) fourteen (14) inch cast iron sewers, a connection to the eighteen (18) inch cast iron inlet pipe to the pumping station substructure and a connection to the twelve (12) inch vitrified tile overflow pipe, said manhole to be constructed with a base of concrete 6 inches thick in proportion of one (1) part Portland cement, two (2) parts sand and four (4) parts gravel and constructed on said base the manhole having brick walls a inches thick laid in cement mortar composed of 1 part Portland cement and two parts sand mixed with sufficient water, with east iron manhole steps and cast iron cover weighing not less than 540 pounds, complete with all labor, tools, material, equipment and appurtenances necessary to furnish and install the "Manhole No. 1" including exeavation, backfill-

ing, sheeting, shoring, bracing and pumping at \$200.00 1 Manhole for reference known as "Manhole No. 2" providing a junction for the twelve (12) inch vitrified tile overflow pipe from "Manhole No. 1" and the twelve (12) inch cast iron pipe discharge from the pumping station into the twenty-four (24) inch vitrified tile bypass sewer, said manhole to be constructed with a base of concrete 6 inches thick in proportion of one (1) part Portland cement, two (2) parts sand and four (4) parts gravel, and constructed on said base the manhole having brick walls 8 inches in thickness, laid in cement mortar composed of one part Portland cement and two parts sand, with cast iron manhole steps and cast iron cover weighing not less than 540 pounds, complete with all labor, tools, materials, equipment and appurtenances necessary to furnish and install the "Manhole No. 1," including excavation, backfilling, sheeting, shoring, bracing and

14 lineal feet of twelve (12) inch vitrified tile pipe sewer providing the overflow copnection between "Manhole No. 1" and "Manhole No. 2," and sewer to be laid with oakum and cement mortar joints complete, including excavation, backfilling, sheeting, shortug, bracing, numping and all labor, took, materials, equipment and appurtenances necessary to furnish and install the twelve (12) men vit rified tile pipe sewer at \$2.00 per lineal foot 350 lineal feet of twenty-four (24) inch vitrified tile pipe sewer providing a bypass and discharge connection from "Manhole No. 2" to the East Skokie Drainage Ditch, said sewer to be laid with oakum and cement mortar joints complete, plete including excavation,

backfilling, sheeting, shor-

ing, bracing, pumping and all

pumping at

labor, tools, materials, equipment, and appurtenances necessary to furnish and install the twenty-four (24) inch vitrified tile pipe sewer at \$4.00 per lineal foot \$1,400.00 1 Headwall to be constructed at the discharge end of the twenty-four (24) inch vitrified tile pipe sewer on the bank of the East Skokie Drainage Ditch, said headwall to contain ten (10) cubic yards of concrete in propertion of one (1) part Portland cement, two parts sand and four (4) parts gravel, said headwall to be 14 feet long, 8 feet 6 inches high, and 12 inches thick at top. uniformly increasing to 3 feet at bottom, complete, including all excavation, sheeting, shoring, bracing, pumping,

and all labor, tools, materials,

equipment and appurtenances

necessary to furnish and place

6400 pounds of four (4) inch

the headwall, at

\$250.00

internal diameter cast from pipe and fittings providing two (2) discharge mains from the outside of the walls of the pumping station substructure into the inlet chamber of the settling tank of the existing sewage treatment plant of the North Shore Sanitary District, said pipe to be of bell and spigot type or flanged type joints, the pipe weighing twenty (20) pounds per lineal foot, all fittings of bell and spigot type or flanged type joints, the pipe weighing twenty (20) pounds per lineal foot, all fittings to be Class D all pipe and fittings conforming to the standards of the American Waterworks Association, the pipe lines to be furnished and placed complete plete including all breaking of concrete and replacement of concrete necessary for connecting into the inlet chamber of the settling tank, all excavation, backfilling, sheeting shoring bracing pumping and all labor, tools, materials, equipment and appurtenances necessary to complete the two (2) discharge

Engineering Services, Surveys, plan superintendence and inspection \$11,190.00

mains at 14c per pound \$496.63

\$199,156.10 Legal and court costs, levying and collecting assessment

Total estimated cost of said improve-\$211,066.10 Respectfully submitted. BENJAMIN F LEWIS. Mayor of the City of High! ad Park, Lake County, Illin as.

Dated this list day of May 1928. WINDES & MARSH By FRANK A. WINDES. Engineers specially employed by the City of Highland Park, Lake County, Illinois.

I BENJAMIN F LEWIS, Mayor of the City of Highland Park, and We, WINDES and MARSH. Engineers specially employed by the said City of Highland Park, do each severally certify that in our opinions the above estimate does not exceed the probable cost of the proposed improvement and the lawful costs attending the same. BENJAMIN F. LEWIS.

Mayor of the City of Highland Park, Lake County, Himois Dated this list day of May, 1928,

WINDES & MARSH By FRANK A WINDES. Engineers specially employed by the Cop of Highland Park, Lake Country, Iffine a.

I. V. C. MUSSER, City Clerk, do hereby pertify that the foregoing is a true and cor-Council at its meeting held on Monday, June 18th, 1908 and was thereupon referred to the Council as a Committee of the whole, which recommended its passage IN WITNESS WHEREOF, I have bereunto set my hand and affixed the corporate seal of said City of High and Park, this 1sth day of June, A.D. 1925 V C MUSSER.

City Clerk NOTICE OF LETTING CONTRACT ASSESSMENT NO. 126 BOARD OF LOCAL IMPROVEMENTS OF

SEAL

THE CITY OF HIGHLAND PARK NOTICE IS HEREBY GIVEN that bids will be received for the construction of a reinforced concrete pavement improvement in Green Bay Road from the northwesterly line extended, of Central Avenue, to the west limits of the City of Highland Park, said west limits being the west line of Section 14. Township 43 North, Range 12 East of the 3rd Principal Meridian, all in the City of Highland Park, County of Lake and State of Illinois, as a whole in accordance with the ordinance therefor.

Said bids will be received by the Board of Local Improvements at its office in the City Hall Highland Park, Illinois, until 7:45 o'clock p.m. on the 16th day of July, 1928, at which time and place they will be publicly opened and read.

The apecifications and blank proposals will be furnished at the office of the Board of 1. Deal Improvements in the City Hall of said The contractor will be paid in bonds

which bonds will draw interest at the rate of six (6) per cent per annum. The successful bidder for the construction of said improvement will be required to enter into bond in a sum equal to one-third of the amount of his or their bid with sureties to be approved by the President of the Board of Local Improvements when entering into the contract for the construction of said im-All proposals or bids must be accompanied

of the Board of Local Improvements of the City of Highland Park for the sum of not less than ten (10) per cent of the aggregate of the proposal Said proposal must be delivered to the President of the Board of Local Improve-

by a certified check payable to the President

ments in open sension of said Board at the time and place fixed herein for the opening of the same. No proposal or bid will be considered unless accompanied by check herein provided.

The Board of Local Improvements reserves the right to reject any or all bids if they deem it best for the public good. BENJAMIN F. LEWIS, W. J. BROWN. LYLE GOURLEY. W. M. REAY.

J. H ZIMMER Board of Local Improvements of the City of Higfihland Park.

Court for Bow-Wows

18-19

Judge Charles McKinley has been chosen to preside over a dog courtbelieved to be the first of its kind in the country-where only cases concerning dogs will be tried. It will not be necessary for dog defendants to be present in all cases. Vagrant dogs that are picked up will be tried at the court and dogs allowed to go without a muzzle will also have their cases aired in this unque judicial chamber.

What Price Auto? A man bought a motor car for \$20. He thought he had a wondeful bargain, but here is what happened:

--- He knocked down a lamp post, all and He was asked to come to court for driving without a license. He sold the car for \$3.75. The court fined him \$5.

Cow Imitates Automobile A Holstein cow here discovered a patt of five gallons of gasoline and hurriefly drank it. The cow suffered

no bad effects.