# FIREWORKS!

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IN SMALL OR LARGE QUANTITIES

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feet, to the west line of northeast quarter of the southeast quarter of the southeast quarter of Section 16, Township and Range aforesaid, at which point a manhole shall be constructed.

That there shall be constructed, in and along Half Day Road (also known as Prairie Avenue), a fifteen (15) inch internal diameter, vitrified, salt glazed clay, bell and spigot pipe sanitary sewer, with necessary manholes, beginning at a point 14 feet south of the south edge of the pavement on Half Day Road on the west line of the northeast quarter of the southeast quarter of the southeast quarter of aforesaid Section 16 at the last above described manhole; thence west parallel to and 14 feet south of the south edge of the pavement, a distance of 300 feet, at which point a manhole shall be constructed; thence west, parallel to and 14 feet south of the south edge of the pavement, a distance of 300 feet, at which point a manhole shall be constructed; thence west, parallel to and 14 feet south of the south edge of the pavement, a distance of 300 feet, at which point a manhole shall be constructed; thence west, parallel to and 14 feet south of the south edge of the pavement, 300 feet, at which point a manhole shall be constructed; thence west, parallel to and 14 feet south of the south edge of the pavement 218.5 feet, to a point 15 feet east of the west line of Main Street, at which point a manhole shall be constructed; thence west, parallel to and 7 feet south of the south edge of the pavement, a distance of 375 feet, at which point a manhole shall be constructed; thence west, parallel to and 7 feet south of the south edge of the pavement, a distance of 367 feet to a point 15 feet east of the west line of Maplewood Road extended, at which point a manhole shall be constructed; thence west, parallel to and 7 feet south of the south edge of the pavement, a distance of 375 feet, at which point a manhole shall be constructed; thence west, parallel to and 7 feet south of the south edge of the pavement, a distance of 375 feet, at which point a manhole shall be constructed; thence west parallel to and 7 feet south of the south edge of the pavement, a distance of 377 feet, to a point 59 feet west of the East line of Ridge Road, at which point a manhole shall be constructed; thence west parallel to and 7 feet south of the south edge of the pavement a distance of 320 feet, at which point a manhole shall be constructed; thence west, parallel to and 7 feet south of the south edge of the pavement 320 feet, more or less, to the east line of west half of the west half of the southwest quarter of aforesaid Section 16, at which point a manhole shall be constructed.

That there shall be constructed, in and along Main Street, an eight (8) inch internal diameter, vitrified, salt glazed clay, bell and spigot pipe, sanitary sewer with necessary manholes, beginning at a manhole located at a point fifteen feet east of the west line of Main Street extended and fourteen feet south of the south edge of the pavement on Half Day Road; thence south parallel to and 15 feet east of the west line of Main Street a distance of 320.45 feet, at which point a manhole shall be constructed; thence south, parallel to and fifteen feet east of the west line of Main Street, a distance of 320 feet at which point a manhole shall be constructed; thence south, parallel to and 15 feet east of the west line of Main Street, a distance of 300 feet, at which point a manhole shall be located; thence south, parallel to and 15 feet east of the west line of Main Street, a distance of 300 feet, at which point a manhole shall be constructed.

That there shall be constructed, in and along Maplewood Road, a twelve (12) inch internal diameter, vitrified, salt glazed clay, bell and spigot pipe, sanitary sewer, with necessary manholes, beginning at a manhole located at a point 15 feet east of the west line of Maplewood Road and seven feet south of the south edge of the pavement of Half Day Road; thence south, parallel to and 15 feet east of the west line of Maplewood Road, a distance of 362 feet to a point 15 feet north of the south line of Willow Place extended, at which point a manhole shall be constructed.

That there shall be constructed, in and along Maplewood Road, an eight (8) inch ternal diameter, vitrified, salt glazed clay, bell and spigot pipe, sanitary sewer, including necessary manholes, beginning at the last above described manhole; thence south parallel to and 15 feet east of the west line of Maplewood Road and that line extended, a distance of 650 feet, at which point a manhole shall be constructed.

That there shall be constructed, in and along Maplewood Road, an eight (8) inch internal diameter, vitrified, salt glazed clay pipe, sanitary sewer, with necessary manholes, beginning at the last above mentioned manhole; thence in a straight line a distance of 365 feet, more or less, to a point 15 feet east of the west line of Maplewood Road and 20 feet south of the north line extended of lot 12 in Block 18 in Highmoor, at which point a manhole shall be constructed.

That there shall be constructed, in and along Willow Place, a ten (10) inch internal diameter vitrified, salt glazed clay, bell and spigot pipe sanitary sewer, with necessary manholes, beginning at a manhole located at a point in Maplewood Road 15 feet north of the south line extended of Willow Road and 15 feet east of the west line extended of Maplewood Road; thence west, parallel to and 15 feet north of the south line of Willow Road, and that line extended, a distance of 412 feet more or less to the west line extended of Lot 8 in Block 12 in Highmoor, at which point a manhole shall be constructed; thence west parallel to and 15 feet north of the south line of Willow Place and that line extended, 327 feet, more or less, to a point 15 feet east of the west line of Willow Road extended north, at which point a manhole shall be constructed.

That there shall be constructed, in and along Willow Road, an eight (8) inch internal diameter, vitrified, salt glazed, clay bell and spigot pipe, sanitary sewer, with necessary manholes, beginning at a manhole located 15 feet east of the west line of Willow Road extended north and 15 feet north of the south line of Willow Place extended west; thence south, parallel to and 15 feet, east of the west line of Willow Road a distance of 416 feet, more or less to the south line extended of Lot 22 in Block 2 of Highmoor, at which point a manhole shall be constructed; thence south, parallel to and 15 feet east of the west line of Willow Road, a distance of 322 feet more or less, to a point 20 feet south of the north line extended of Lot 18 in Block 2 of Highmoor, at which point a manhole shall be constructed.

That there shall be constructed, in and along Willow Road, an eight (8) inch internal diameter, vitrified, salt glazed clay, bell and spigot pipe, sanitary sewer, with necessary manholes, beginning at a manhole located at a point 15 feet north of the south line of Willow Place extended west and 15 feet east of the west line of Willow Road extended north; thence west, on a line parallel to and 15 feet north of the south line of Willow Place extended west, a distance of 37 feet, more or less, to the intersection of said line with a line parallel to and 15 feet northeasterly of the southwesterly line of Willow Road, at which point a manhole shall be constructed; thence northwesterly, parallel to and 15 feet northeasterly of the southwesterly line of Willow Road a distance of 135 feet, more or less to a point 25 feet northwesterly of the northwesterly line extended of Lot 27 in Block 2 of Highmoor, at which point a manhole shall be constructed.

That there shall be constructed, in and along Thornapple Lane, an eight (8) inch internal diameter, vitrified, salt glazed clay, bell and spigot pipe, sanitary sewer, with necessary manholes, beginning at a manhole located 15 feet east of the west line of Maplewood Road and 435 feet south of the south line of Willow Place; thence South sixty degrees West a distance of 53 feet, at which point a manhole shall be constructed; thence North seventy-four degrees forty minutes West a distance of 397 feet to a point 15 feet southerly of the midpoint of the southerly line of Lot 16 in Block 12 in Highmoor, at which point a manhole shall be constructed; thence South fifty-one degrees west a distance of 230 feet, at which point a manhole shall be constructed.

That there shall be constructed in and along Ridge Road, an eight (8) inch internal diameter, vitrified, salt glazed clay, bell and spigot pipe, sanitary sewer, with necessary manholes, beginning at a manhole located 7 feet south of the south edge of the pavement on Half Day Road and 59 feet west of the east line of Ridge Road; thence south parallel to and 59 feet west of the east line of Ridge Road, a distance of four hundred (400) feet, at which point a manhole shall be constructed; thence south, parallel to and 59 feet west of the east line of Ridge Road, a distance of four hundred (400) feet, at which point a manhole shall be constructed; thence south, parallel to and 59 feet west of the east line of Ridge Road, a distance of three hundred (300) feet, at which point a manhole shall be constructed; thence south parallel to and 59 feet west of the east line of Ridge Road, a distance of three hundred and seventy-five (375) feet, at which point a manhole shall be constructed.

That there shall be constructed in, along and under a part of Half Day Road and part of the land controlled by the North Shore Sanitary District in the northeast portion of the northwest quarter of the southwest quarter of Section 15, Township 43 North, Range 12, East of the Third Principal Meridian, a fourteen (14) inch internal diameter cast iron pipe sewer with the necessary manhole, beginning at the hereinbefore specified manhole at a point 32.5 feet west of the west line of Derrick Street and 14 feet south of the edge of the pavement on Half Day Road; thence south, parallel to and 32.5 feet west of the west line of Derrick Street, 43.5 feet to a point 36.5 feet south of the south line of Half Day Road, at which point a manhole shall be constructed.

That there shall be constructed in, along and under a part of Derrick Street and a part of the above described land controlled by the North Shore Sanitary District, a fourteen inch internal diameter cast iron pipe sewer, beginning at a manhole hereinbefore specified to be constructed at a point 30 feet west of the east line of Derrick Street and 36.5 feet south of the south line of Half Day Road; thence west, parallel to and 36.5 feet south of the south line of Half Day Road 35.5 feet, where said sewer shall discharge into a manhole hereinbefore specified.

Section 2. That there shall be constructed on the land controlled by the North Shore Sanitary District in the north east portion of the northwest quarter of the southwest quarter of the southwest quarter of Section 15, Township 43 North, Range 12 East of the Third Principal Meridian, a sewage pumping plant with necessary pumps, motors, floats, piping, etc. to receive the effluent discharged from all of the foregoing described mains and all other mains which may be hereafter constructed within the limits of the sewer district hereinafter described, for the purpose of collecting and delivering said sewage into the sewage treatment plant of said North Shore Sanitary District now located on the above described land. Said pumping station shall consist of—

(A) One (1) steel reinforced concrete pumping station substructure twenty-three feet nine inches (23'-9") long, nineteen feet (19'-9") wide and varying from twenty-one feet six inches (21'-6") to twenty-two feet six inches (22'-6") in depth; with a floor covering twenty-four (24) inches thick and outside walls fifteen (15) inches thick at the top and increasing uniformly twenty-four (24) inches thick at the bottom; with interior walls, slabs and beams; all concrete to be porportioned 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, 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;

(B) One (1) pumping station superstructure consisting of nine thousand (9,000) face and fifteen thousand (15,000) common brick, laid with cement mortar said superstructure to be nineteen (19) feet by twenty-three (23) feet nine (9) inches inside dimensions with walls thirteen (13) inches in thickness, 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 brickwork for ventilation, electric lighting, painting of all exposed woodwork and steel, cleaning up and all labor, tools, materials, equipment and appurtenances necessary to complete the pumping station superstructure;

(C) Two (2) vertical sewage pumps of the trash type, each to pump at the rate of two hundred (200) gallons per minute against a total head of thirty-one and five-tenths (31.5) feet, the pumps to be furnished and erected with five (5) horsepower vertical electric motors, control panels with float switches for each pump, electric conduits and wiring complete, intermediate guide bearings with channel supports, lubrication system, pump supports and all tools, labor, materials, equipment and appurtenances necessary to furnish and erect the sewage pumps;

(D) One (1) 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 (25) horsepower 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, lubrication systems, pump supports and all labor, tools, materials, equipment and appurtenances necessary to furnish and erect the sewage pump;

(E) 8380 pounds of 4, 8 and 12 inch internal diameter 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 all concrete and iron pipe supports; all joints to be bell and spigot with caulked oakum and lead joints or flanged, the piping to be furnished and erected complete with all labor, tools, materials, equipment and appurtenances;

(F) 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 steel and wrought iron, 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;

(G) Six (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 valves to be twelve (12) inch, all of said valves to be rising stem type of standard make and shall conform to the specifications of the American Water Works Association for light pressure valves, complete with all labor, tools, materials, equipment and appurtenances necessary to furnish and place the valves;

(H) One (1) sluice gate with opening twenty-four (24) inches square with extension stem and floor stand, said sluice gate to be erected between the screen chamber and the wet wells, and 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 labor, tools, materials, equipment and appurtenances necessary to install the sluice gate;

(I) 11.8 lineal feet of eighteen (18) inch internal diameter bell and spigot cast iron pipe sewer weighing one hundred and twenty-nine and two-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 caulked oakum and lead joints, including excavation, backfilling, sheeting, shoring, bracing, pumping, and all labor, tools, materials, equipment and appurtenances necessary to furnish and install the eighteen (18) inch cast iron sewer;

J) 11.8 lineal feet of twelve (12) inch internal diameter bell and spigot cast iron pipe sewer weighing seventy-two and five-tenths (72.5) pounds per lineal foot, said pipe providing a connection from the pump discharge at the outside of the wall of the pumping station substructure into "Manhole No. 2", said pipe to be laid with caulked oakum and lead joints including excavation, backfilling, sheeting, shoring, bracing, pumping and all labor, tools, materials, equipment and appurtenances necessary to furnish and install the twelve (12) inch cast iron pipe sewer;

K) One (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 six (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 manholes having brick walls eight (8) inches thick, laid in cement mortar, with cast iron manhole steps, spaced at twelve (12) inches and weighing ten (10) pounds each, and cast iron cover weighing not less than five hundred forty (540) pounds complete with all labor, tools, material, equipment and appurtenances necessary to furnish and install the "Manhole No. 1" including excavation, backfilling, sheeting, shoring, bracing and pumping;

(L) One (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 six (6) inches in thickness, 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 eight (8) inches thick, laid in cement mortar, with cast iron manhole steps, spaced at twelve (12) inches, and weighing ten (10) pounds each, and cast iron cover, weighing not less than five hundred forty (540) pounds, complete with all labor, tools, materials, equipment and appurtenances necessary to furnish and install the "Manhole No. 2", including excavation, backfilling, sheeting, shoring, bracing, and pumping;

(M) 14 lineal feet of twelve (12) inch vitrified tile pipe sewer providing the overflow connection between "Manhole No. 1" and "Manhole No. 2", said sewer to be laid with oakum and cement mortar joints complete, including excavation, backfilling, sheeting, shoring, bracing, pumping and all labor, tools, materials, equipment and appurtenances necessary to furnish and install the twelve (12) inch vitrified tile pipe sewer;

(N) 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, including excavation, backfilling, sheeting, shoring, bracing, pumping and all labor, tools, materials, equipment and appurtenances necessary to furnish and install the twenty-four (24) inch vitrified tile pipe sewer;

(O) One (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 proportion of one (1) part Portland cement, two (2) parts sand and four (4) parts gravel, said headwall to be fourteen


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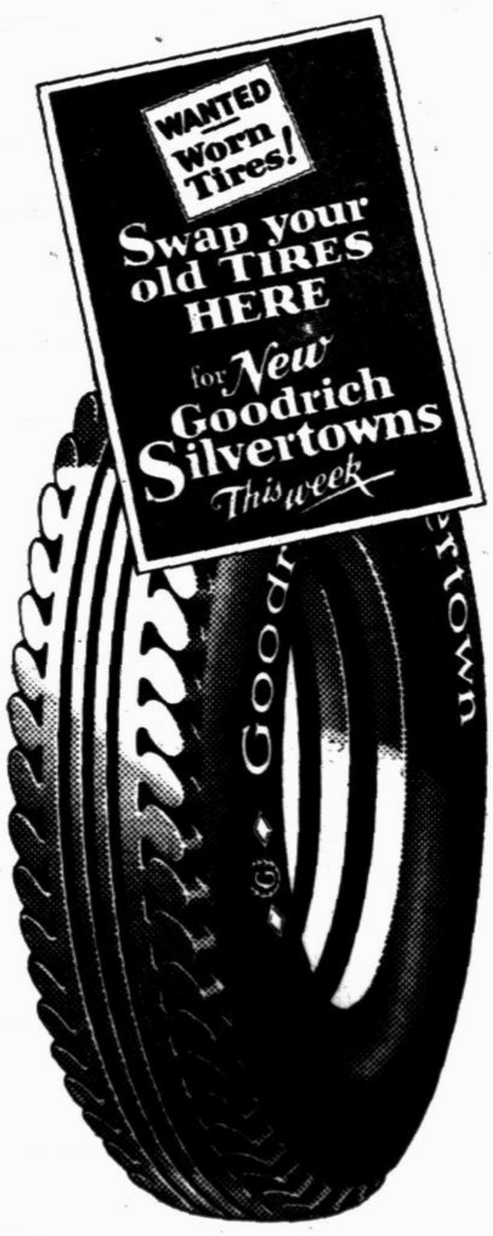


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