

the herein proposed concrete pavement in said Broadview Avenue; at FLORA PLACE as far back as the south line extended of said Blackstone Place and connecting with the herein proposed concrete pavement in said Flora Place; at NORTHMOOR ROAD as far back as the south line extended of said Blackstone Place and connecting with the herein proposed concrete pavement in said Northmoor Road;

NORTHMOOR ROAD from the northeasterly line extended of Green Bay Road; thence easterly and northerly in said Northmoor Road and connecting with the herein proposed concrete pavement in Blackstone Place at the south line extended of said Blackstone Place; including the street at return at FLORA PLACE as far back as the northerly line extended of said Northmoor Road, and connecting with the herein proposed concrete pavement in said Flora Place;

FLORA PLACE from and connecting with the herein proposed concrete pavement in Blackstone Place at the south line extended of said Blackstone Place; thence southerly in said Flora Place to and connecting with the herein proposed concrete pavement in Northmoor Road at the northerly line extended of said Northmoor Road;

ROGER WILLIAMS AVENUE from the northeasterly line extended of Green Bay Road; thence east in said Roger Williams Avenue to the southwesterly right-of-way line of the Chicago & Northwestern Railway Company; including the street returns at BROADVIEW AVENUE to the north and to the south as far back, respectively, as the north and south line extended, of said Roger Williams Avenue, and connecting with the herein proposed concrete pavement in said Broadview Avenue; at PLEASANT AVENUE to the north and to the south as far back, respectively, as the north and the south line extended of said Roger Williams Avenue, and connecting with the herein proposed concrete pavement in said Pleasant Avenue; at BURTON AVENUE as far back as the south line extended of said Roger Williams Avenue, and connecting with the herein proposed concrete pavement in said Burton Avenue;

By clearing, grubbing, excavating, filling, trenching, filling the trenches with earth, except under the proposed pavement, where the trenches shall be filled with sand, grading, preparing the subgrade, raking the parkways, be filled with sand, grading, preparing the subgrade, constructing concrete curbs, constructing tile pipe drains, constructing concrete manholes, manhole, and culverts, constructing catchbasins and catchbasin manholes, manhole, and culverts, constructing concrete headwalls for outlet drain, and concrete culvert with openings for said outlet drains and culverts, located as follows: One (1) concrete headwall in the easement in Lot 35, Block 1, Ravinia Highlands, concrete headwall in the easement in Lot 35, Block 1, Ravinia Highlands, two (2) feet westerly of the easterly line of said Lot 35; one (1) concrete headwall in the ravine in Lot 44, Block 1, First Addition to Ravinia Highlands, five (5) feet northeasterly of the southwesterly line extended of Lot 52, Block 1, First Addition to Ravinia Highlands, and one hundred and fifty-three (153) feet northeasterly of the north line of Roger Williams Avenue, as measured along the southwesterly line of aforesaid Lot 52; one (1) headwall in the ravine south of Bellevue Place, fifty-four (54) feet southerly of the southerly line of said Bellevue Place, and twenty (20) feet westerly of the northeasterly line extended of said Bellevue Place; one (1) headwall in the southerly parkway of Ravinia Highlands, two (2) feet westerly of the westerly right-of-way line of the Chicago & Northwestern Railway of the westerly right-of-way line of the Chicago & Northwestern Railway Company; constructing catchbasins and catchbasin manholes, manhole, and culverts, constructing tile pipe drains, constructing concrete manholes, manhole, and culverts, filling of one (1) existing catchbasin in Ravinia Road, removal drop inlets, filling of one (1) existing catchbasin, paving with reinforced concrete concrete curb in said Ravinia Road, paving with reinforced concrete roadways, the center line of which shall be the center line of the street to be improved; the width of said roadways, measured from back to back of curb shall be as follows: in BURTON AVENUE, PLEASANT AVENUE, BROADVIEW AVENUE, ALVIN PLACE, CRAWFORD PLACE, BELLEVUE PLACE, HIGHLAND PLACE, WASHINGTON PLACE, BLACKSTONE PLACE, FLORA PLACE, and NORTHMOOR ROAD, the width shall be twenty-one (21) feet; in Roger Williams Avenue the width shall be forty (40) feet, except at street corners and the Y turn-around in Pleasant Avenue, where the roadways shall be widened along curved lines having a radius of twenty-five (25) feet, except at the intersection of Burton Avenue and Ravinia Road, where the radius to the east shall be fifteen (15) feet, and the radius to the west shall be fifteen (15) feet; at the northwest and the southeast corners of Broadview Avenue and Roger Williams Avenue, at the northwest and the southeast corners of Pleasant Avenue and Roger Williams Avenue, and at the southeast corner of Burton Avenue and Roger Williams Avenue, where radii shall be twenty (20) feet; at the northeast and the southwest corners of Broadview Avenue and Roger Williams Avenue, at the northeast and the southwest corners of Pleasant Avenue and Roger Williams Avenue, where the radii west corner of Burton Avenue and Roger Williams Avenue, where the radii shall be thirty (30) feet; at the southeast corner of Green Bay Road and Roger Williams Avenue, the radius shall be fifteen (15) feet; at the northeast corner of Blackstone Place and Green Bay Road, at the northeast corner of Blackstone Place and Pleasant Avenue, where the radii shall be forty (40) feet; at the northeast corner of Broadview Avenue and Blackstone Place, at the southwest corner of Blackstone Place and Flora Place, where the radii shall be fifty (50) feet; at the northeast corner of Northmoor Road and Flora Place, where the radius shall be thirty (30) feet; at the southeast and the northwest corners of alley north of Roger Williams Avenue and Pleasant Avenue, the southeast corner of alley south of Roger Williams Avenue and Pleasant Avenue, the southeast and the northwest corners of alley south of Roger Williams Avenue and Pleasant Avenue, the southeast and the northwest corners of Roger Williams Avenue and Pleasant Avenue, where the radii shall be fifteen (15) feet; constructing tile pipe drains, laid in the parkways at an average distance of two (2) feet from the back of the curb, except where said drains join the catchbasin or catchbasin-manhole, where said drains shall be laid along curved lines convex to the property lines, and said curved lines shall be ten (10) feet from said catchbasin or catchbasin-manhole; constructing concrete culvert outlet in Ravinia Road and in Easement in Lot 35, Block 1, Ravinia Highlands, connection of proposed tile pipe drain to existing catchbasin-manhole in Broadview Avenue, removal of surplus concrete pavement materials; curing, protecting, cleaning said proposed concrete pavement, restoration of existing sidewalks where damaged; engineering services, and all other labor materials and expenses necessary to construct said proposed improvement in a workmanlike manner, all in the City of Highland Park, Lake County, State of Illinois.

The estimated cost of said proposed improvement, including all labor, materials, and all lawful expenses attending the same, is the sum of \$301,000.00, itemized as follows:

ESTIMATE OF COST

Table with 2 columns: Quantity and Description. Includes items like 'cubic yards of excavation for concrete pavement', 'square yards of Portland cement concrete pavement', 'lineal feet of tile pipe drains', etc.

metal (iron) plate seven and one-half (7 1/2) inches wide after being pressed into shape; said V shaped joint shall be provided with five-eighths (5/8) inch round deformed steel bars, four (4) feet in length, spaced five (5) feet apart, and four and one-quarter (4 1/4) inches below the top of the pavement; said bars shall extend two (2) feet into the concrete on each side of the joint; including curing by the use of two (2) pounds of calcium chloride per square yard of pavement, protecting the pavement, and including filling cracks along the longitudinal joints and along the line where the concrete pavement joins the curb, with bituminous cement; laid complete at \$2.50 per square yard

lineal feet of concrete curb. The width of the curb from the top of the pavement to the bottom of said curb shall be nine (9) inches, the width of said curb three (3) inches below the top of said curb shall be six (6) inches. The upper back edge shall be rounded along a line having a radius of one-half (1/2) inch. The upper front edge and the edge joining the pavement shall be rounded along a line having a radius of three (3) inches. The concrete for the body portion of said curb shall be composed by volume of one (1) part Portland cement, two (2) parts sand, and one-half (1/2) part gravel or crushed stone. The mortar for the exposed surface of said curb to a depth of one-half (1/2) inch, shall be composed by volume of one (1) part Portland cement and two (2) parts sand. Both mortar and concrete shall be mixed with sufficient water to make a quaking mass. The mortar and concrete shall be constructed through the entire width of said curb, and extending from top to bottom of said curb, spaced thirty (30) feet apart, and continuous with the transverse expansion joints in the pavement, including the excavation for the curb below the bottom of the pavement; constructed complete at \$1.00 per lineal foot

new concrete catchbasins; the concrete shall be composed by volume of one (1) part Portland cement, two (2) parts sand, and four (4) parts gravel or crushed stone, mixed with sufficient water to make a quaking mass; the inside diameter shall be four (4) feet from the top of the bottom to a plane three (3) feet below the top of the concrete, from which plane the diameter shall be uniformly decreased upwards to two (2) feet at the top of the concrete in such manner as to fit and support the cover. The bottom and sidewalls shall be eight (8) inches thick, and the overall height of the concrete shall be seven (7) feet. Each catchbasin shall be furnished with a Highland Park pattern catchbasin cover consisting of a frame and a grate. The weight of the grate shall be one hundred twenty-five (125) pounds; the weight of the frame shall be two hundred seventy-five (275) pounds. Including all excavating, backfilling around the catchbasin with sand, and removal of all surplus excavated materials; constructed complete, and covers set to grade at \$95 each

new concrete catchbasin manholes; the concrete shall be composed by volume of one (1) part Portland cement, two (2) parts sand, and four (4) parts gravel or crushed stone, mixed with sufficient water to make a quaking mass. The inside diameter shall be four (4) feet from the top of the bottom to a plane three (3) feet below the top of the concrete, from which plane the diameter shall be uniformly decreased upwards to two (2) feet at the top of the concrete in such manner as to fit and support the cover. The bottom and sidewalls shall be eight (8) inches thick, and the average depth of the concrete shall be nine (9) feet below the pavement grade; each catchbasin manhole shall be furnished with a Highland Park pattern catchbasin cover, consisting of a frame weighing two hundred seventy-five (275) pounds, and a grate weighing one hundred twenty-five (125) pounds; including all excavating, backfilling around the catchbasin manholes with sand, and removal of all surplus excavated materials, constructed complete at \$120.00 each

concrete drop inlets constructed integral with the herein proposed concrete culverts. Two (2) inlets to be constructed over and integral with culvert in Ravinia Road, and two (2) inlets to be constructed over and integral with culvert across Burton Avenue at Lot 35, Block 1, Ravinia Highlands. Inside diameter at top of culvert shall be three (3) feet; from top of culvert to top of the concrete of the inlets the diameter shall be uniformly decreased to two (2) feet at the top of the concrete in such manner as to fit and support the cover. The sidewalls shall be eight (8) inches thick, and the average depth of the concrete shall be composed by volume of one (1) part Portland cement, two (2) parts sand, and four (4) parts gravel or crushed stone, mixed with sufficient water to make a quaking mass. Each drop inlet shall be furnished with a cover consisting of a frame weighing two hundred seventy-five (275) pounds, and a grate weighing one hundred twenty-five (125) pounds; including all excavating, backfilling with sand, and removal of all surplus excavated material, constructed complete, and cover set to grade, at \$90.00 each

concrete drop inlets constructed integral with the herein proposed concrete culverts. Two (2) inlets to be constructed over and integral with culvert in Ravinia Road, and two (2) inlets to be constructed over and integral with culvert across Burton Avenue at Lot 35, Block 1, Ravinia Highlands. Inside diameter at top of culvert shall be three (3) feet; from top of culvert to top of the concrete of the inlets the diameter shall be uniformly decreased to two (2) feet at the top of the concrete in such manner as to fit and support the cover. The sidewalls shall be eight (8) inches thick, and the average depth of the concrete shall be composed by volume of one (1) part Portland cement, two (2) parts sand, and four (4) parts gravel or crushed stone, mixed with sufficient water to make a quaking mass. Each drop inlet shall be furnished with a cover consisting of a frame weighing two hundred seventy-five (275) pounds, and a grate weighing one hundred twenty-five (125) pounds; including all excavating, backfilling with sand, and removal of all surplus excavated material, constructed complete, and cover set to grade, at \$90.00 each

TILE PIPE DRAINS

The following drains shall be vitrified salt-glazed, hub and spigot tile pipe drains, inside diameter as indicated by the size stated below, including connections to catchbasins, catchbasin-manholes, manholes, and drop inlets, all trenching, backfilling the trenches with sand from the bottom of the trenches to the surface of the subgrade; joints of mortar composed by volume of one (1) part Portland cement and two (2) parts sand, mixed with sufficient water to make a quaking mass, removal of all surplus excavated material; the depth of the trench shall be double strength.

Table with 2 columns: Quantity and Description. Includes items like 'lineal feet of eight (8) inch tile pipe drain', 'lineal feet of ten (10) inch tile pipe drains', etc.

The following drains shall be vitrified, salt-glazed, hub and spigot tile pipe drains, inside diameter as indicated by the size stated below, including connections to catchbasins, catchbasin-manholes, manholes, and drop inlets, and outlet culverts or outlet drains, laid with OPEN joints; including all trenching, backfilling the trenches with EARTH, flushing the backfill, and removal of all surplus excavated materials; the depth of the drains refers to the flow line of said drains. All drains fifteen (15) inches and over shall be double strength.

Table with 2 columns: Quantity and Description. Includes items like 'lineal feet of six (6) inch tile pipe drains', 'lineal feet of eight (8) inch tile pipe drains', etc.

Table with 2 columns: Quantity and Description. Includes items like 'lineal feet of twelve (12) inch tile pipe drains', 'lineal feet of fifteen (15) inch tile pipe drains', etc.

OUTLET DRAINS

Table with 2 columns: Quantity and Description. Includes items like 'lineal feet of twenty-two (22) inch inside diameter vitrified, salt-glazed, hub and spigot, double strength tile pipe drains', 'lineal feet of thirty (30) inch inside diameter vitrified, salt-glazed, hub and spigot, double strength tile pipe drains', etc.

HEADWALLS

The following headwalls for outlet drains and outlet culverts shall be constructed of concrete; the body portion of said headwalls shall be composed by volume of one (1) part Portland cement, two (2) parts sand, and one (1) part gravel or crushed stone; the exposed surface after backfilling to a depth of one (1) inch, shall be composed by volume of one (1) part Portland cement and two (2) parts sand; both mortar and concrete shall be mixed with sufficient water to make a quaking mass; the bottom of the outlet drains or culverts; including all excavating, backfilling, and removal of all surplus excavated materials. Dimensions as stated below.

Table with 2 columns: Quantity and Description. Includes items like 'concrete headwall located in Ravine south of Bellevue Place', 'concrete headwall located in Lot 35, Block 1, Ravinia Highlands', etc.

CULVERTS

The following culverts shall be constructed of concrete composed by volume of one (1) part Portland cement, two (2) parts sand, and four (4) parts gravel or crushed stone, mixed with sufficient water to make a quaking mass. Dimensions as stated below.

Table with 2 columns: Quantity and Description. Includes items like 'concrete culvert two hundred forty-five (245) feet long', 'concrete culvert one hundred eighty (180) feet long', etc.

Engineering services 16,082.61

\$283,902.99

All lawful expenses attending the proceedings for making said proposed improvement, including the court costs and the making, laying, and collection of the assessment for said proposed improvement, not in excess of six per centum (6%) of the cost of said improvement. 17,087.74

TOTAL ESTIMATED COST OF SAID PROPOSED IMPROVEMENT \$301,000.00

Respectfully submitted,

SAMUEL M. HASTINGS, Mayor of the City of Highland Park, and President of the Board of Local Improvements of the City of Highland Park.