

Christopher B. Burke Engineering, Ltd.  
 9575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 Project Number: 13-0605  
 Date: January 8, 2015

Village of Wilmette, Proposed Storm Sewer Improvements  
 ALTERNATIVE 2 - Centralized Storage at Community Playfield

ITEMS	UNIT	QUANTITY	UNIT PRICE	TOTAL COST
TREE ROOT PRUNING	EACH	50	\$145.00	\$7,250.00
TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	50	\$129.00	\$6,450.00
TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	50	\$170.00	\$8,500.00
TREE PROTECTION	EACH	50	\$100.00	\$5,000.00
EARTH EXCAVATION	CU YD	89,000	\$44.00	\$3,916,000.00
UNDERGROUND STORAGE TANK	AC-FT	55	\$300,000.00	\$16,500,000.00
TOPSOIL FURNISH AND PLACE	SQ YD	7,000	\$7.00	\$49,000.00
SODDING, SPECIAL	SQ YD	7,000	\$11.00	\$77,000.00
SYNTHETIC TURF SURFACE	SQ FT	205,000	\$6.00	\$1,230,000.00
STONE BASE COURSE FOR TURF SURFACE, CA-7, 14"	SQ YD	23,000	\$15.00	\$345,000.00
LIME SOIL STABILIZATION	TON	6,600	\$80.00	\$528,000.00
UNDERDRAINS FOR TURF SURFACE (1"x12")	FOOT	9,500	\$15.00	\$142,500.00
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,000	\$45.00	\$45,000.00
TRENCH BACKFILL, CA-7	CU YD	87,700	\$30.00	\$2,631,000.00
AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1,000	\$54.00	\$54,000.00
AGGREGATE FOR TEMPORARY ACCESS	TON	500	\$22.00	\$11,000.00
BITUMINOUS MATERIALS (PRIME COAT)	GAL	10,500	\$3.00	\$31,500.00
AGGREGATE (PRIME COAT)	TON	230	\$15.00	\$3,450.00
LEVELING BINDER (MACHINE METHOD), N50	TON	2,100	\$88.00	\$184,800.00
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 6"	TON	6,500	\$76.00	\$494,000.00
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 2.5"	TON	2,700	\$89.00	\$240,300.00
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 1.5"	TON	7,850	\$89.00	\$698,650.00
AGGREGATE BASE COURSE, 10"	SQ YD	27,000	\$12.00	\$324,000.00
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,500	\$6.00	\$15,000.00
SIDEWALK REMOVAL	SQ FT	2,500	\$2.00	\$5,000.00
DETECTABLE WARNINGS	SQ FT	1,000	\$43.00	\$43,000.00
PAVEMENT REMOVAL	SQ YD	20,000	\$13.50	\$270,000.00
HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	90,000	\$5.00	\$450,000.00
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	33,500	\$24.00	\$804,000.00
CLASS B PATCH, SPECIAL	SQ YD	350	\$90.00	\$31,500.00
CLASS D PATCH, SPECIAL	SQ YD	31,200	\$93.00	\$2,901,600.00
STORM SEWER REMOVAL, 8"	FOOT	50	\$10.00	\$500.00
STORM SEWER REMOVAL, 12"	FOOT	29	\$10.00	\$290.00
STORM SEWER REMOVAL, 15"	FOOT	100	\$10.00	\$1,000.00
STORM SEWER REMOVAL, 21"	FOOT	144	\$10.00	\$1,440.00
STORM SEWER REMOVAL, 36"	FOOT	665	\$20.00	\$13,300.00
STORM SEWER REMOVAL, 48"	FOOT	635	\$20.00	\$12,700.00
STORM SEWER REMOVAL, 54"	FOOT	791	\$20.00	\$15,820.00
STORM SEWER REMOVAL, 60"	FOOT	503	\$20.00	\$10,060.00
STORM SEWERS, 24" RCP	FOOT	12,795	\$192.00	\$2,456,640.00
STORM SEWERS, 30" RCP	FOOT	2,225	\$218.00	\$485,050.00
STORM SEWERS, 36" RCP	FOOT	3,300	\$252.00	\$831,600.00
STORM SEWERS, 48" RCP	FOOT	5,940	\$328.00	\$1,948,320.00
STORM SEWERS, 60" RCP	FOOT	3,675	\$414.00	\$1,521,450.00
STORM SEWERS, 72" RCP	FOOT	2,460	\$650.00	\$1,599,000.00
STORM SEWERS, 78" RCP	FOOT	1,500	\$875.00	\$1,312,500.00
STORM SEWERS, 84" RCP	FOOT	685	\$1,000.00	\$685,000.00
MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	55	\$3,600.00	\$198,000.00
MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	27	\$5,200.00	\$140,400.00
MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	18	\$7,300.00	\$131,400.00
MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	19	\$11,000.00	\$209,000.00
MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	9	\$16,500.00	\$148,500.00
MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	\$20,000.00	\$100,000.00
MANHOLES, TYPE A, 10'x10', TYPE 1 FRAME, CLOSED LID	EACH	9	\$48,000.00	\$432,000.00
PUMP FOR UNDERGROUND STORAGE BASIN	L. SUM	1	\$750,000.00	\$750,000.00
PUMP STATION UPDATED - 6th PUMP	L. SUM	1	\$750,000.00	\$750,000.00
STABILIZED CONSTRUCTION ENTRANCE	L. SUM	1	\$15,000.00	\$15,000.00
RELOCATE WATER SERVICE LINE, LONG SIDE	EACH	197	\$3,600.00	\$709,200.00
REMOVE AND REPLACE WATER MAIN	FOOT	11,000	\$240.00	\$2,640,000.00
RELOCATE SANITARY SEWER SERVICE LINE	EACH	201	\$1,900.00	\$381,900.00
REMOVE AND REPLACE SANITARY MAIN	FOOT	5,840	\$150.00	\$876,000.00
SOIL EROSION/SEDIMENT CONTROL	L. SUM	1	\$250,000.00	\$250,000.00
THERMOPLASTIC PAVEMENT MARKINGS	L. SUM	1	\$25,000.00	\$25,000.00
TRAFFIC CONTROL	L. SUM	1	\$750,000.00	\$750,000.00
CONSTRUCTION LAYOUT	L. SUM	1	\$200,000.00	\$200,000.00

CATEGORY	TOTAL COST
UNDERGROUND	\$14,884,970.00
UNDERGROUND STORAGE	\$23,285,500.00
PAVING	\$6,568,800.00
WM RELOCATION	\$3,475,200.00
SANITARY RELOCATION	\$1,383,900.00
MISCELLANEOUS	\$1,305,200.00
<b>TOTAL</b>	<b>\$50,903,570.00</b>

SUBTOTAL = \$51,653,570.00  
 CONTINGENCY (20%) = \$10,330,714.00  
**CONSTRUCTION TOTAL = \$61,984,284.00**

DESIGN ENGINEERING (6%) = \$3,719,057.04  
 CONSTRUCTION OBSERVATION (6%) = \$3,719,057.04  
 PERMITTING = \$250,000.00

**TOTAL PROJECT COST INCLUDING ENGINEERING = \$69,672,398.08**

NOTES:

1. THIS ESTIMATE DOES NOT INCLUDE ROW ACQUISITION, TEMPORARY OR CONSTRUCTION EASEMENTS, OR RELOCATING ANY EXISTING UTILITIES.
2. THESE UNIT PRICES ARE BASED ON OUR DESIGN MEMO DATED DECEMBER 5, 2014 AND ARE 2014 CONSTRUCTION COSTS.
3. PAVEMENT THICKNESS REMOVAL WAS ASSUMED TO BE 21".
4. TRENCH BACKFILL IS INCLUDED IN THE COST OF THE WATER MAIN AND SANITARY MAIN REMOVAL AND REPLACEMENT.