



975 E. 22nd Street, Suite 400
Wheaton, IL 60189
630.480.7889
www.rwg-engineering.com

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST
for
703-723 W. ALGONQUIN ROAD BUILDING
ARLINGTON HEIGHTS, IL
ARLINGTON HEIGHTS, ILLINOIS
(BASED ON PLANS BY RWG ENGINEERING, LLC, LATEST DATE 12/06/17)

DATE: 12/7/2017

FILE: 322-127-17

PHASE 1

<u>ITEM</u>	<u>DESCRIPTION</u>		<u>UNIT</u>		<u>UNIT PRICE</u>		<u>EXTENSION</u>
I. DEMOLITION, EXCAVATION, GRADING & EROSION CONTROL							
1.	SILT FENCE	1,821	L.F.	\$	2.50	\$	4,552.50
2.	CONSTRUCTION ENTRANCE	1	EA.	\$	2,500.00	\$	2,500.00
3.	REMOVE EXISTING ONSITE PAVT/SIDEWALK	16,520	S.Y.	\$	8.00	\$	132,160.00
4.	REMOVE EXISTING CURB & GUTTER	2741	L.F.	\$	8.50	\$	23,298.50
5.	REMOVE/ABANDON EXISTING UTILITY LINES	1805	L.F.	\$	25.00	\$	45,125.00
6.	REMOVE/ASBANDON EXISTING UTILITY STRUCTURES	12	EA.	\$	400.00	\$	4,800.00
7.	REMOVE EXISTING BUIDLING	1	EA.	\$	152,000.00	\$	152,000.00
8.	SITE CLEARING, EXISTING TREE REMOVAL	1	LS	\$	30,000.00	\$	30,000.00
9.	TREE PROTECTION FENCE	18	EA.	\$	90.00	\$	1,620.00
10.	SITE EXCAVATION, GRADING (PAD PREP)	7.4	AC.	\$	15,000.00	\$	111,000.00
11.	SOIL EROSION CONTROL MAINTENANCE	1	LS	\$	2,500.00	\$	2,500.00
12.	TOPSOIL RESPREAD	5,936	S.Y.	\$	2.00	\$	11,872.00
13.	INLET PROTECTION FILTER BASKETS	24	EA.	\$	250.00	\$	6,000.00
TOTAL SCHEDULE I						\$	527,428.00
II. UNDERGROUND IMPROVEMENTS							
A. SANITARY SEWER IMPROVEMENTS							
1.	6" PVC SANITARY SEWER - SDR 26	180	L.F.	\$	35.00	\$	6,300.00
2.	8" PVC SANITARY SEWER - SDR 26	61	L.F.	\$	40.00	\$	2,440.00
3.	48" MANHOLE TYPE A W/FRAME & LID	2	EA.	\$	2,500.00	\$	5,000.00
4.	48" MANHOLE TYPE A W/FRAME & LID - CONSTRUCT OVER EXIST SAN SEWER	2	EA.	\$	4,500.00	\$	9,000.00
5.	ADJUST EXISTING SANITARY MANHOLE RIM	2	EA.	\$	350.00	\$	700.00
6.	SELECT GRANULAR TRENCH BACKFILL (CA-6)	98	L.F.	\$	30.00	\$	2,940.00
7.	TELEWISE SEWER POST CONSTRUCTION	241	L.F.	\$	3.00	\$	723.00
SUBTOTAL A						\$	27,103.00
B. WATERMAIN IMPROVEMENTS							
1.	8" DUCTILE IRON WATERMAIN, INCL FITTINGS AND POLYETHYLENE	185	L.F.	\$	45.00	\$	8,325.00
2.	10" DUCTILE IRON WATERMAIN, INCL FITTINGS AND POLYETHYLENE	148	L.F.	\$	55.00	\$	8,140.00
3.	RELOCATE EX FIRE HYDRANT w/AUX VALVE	1	EA.	\$	2,000.00	\$	2,000.00
4.	FIRE HYDRANT w/AUX VALVE	1	EA.	\$	4,500.00	\$	4,500.00
5.	16" DUCTILE IRON CASING PIPE	22	L.F.	\$	80.00	\$	1,760.00
6.	DIRECT CONNECTION TO EXISTING 8" WM	1	EA.	\$	1,500.00	\$	1,500.00
7.	8" VALVE & VAULT (4' DIA)	1	EA.	\$	3,000.00	\$	3,000.00
8.	10" VALVE IN 60" VAULT PRESSURE CONNECTION	1	EA.	\$	7,500.00	\$	7,500.00
9.	ADJUST EXISTING VAULT RIM	1	EA.	\$	350.00	\$	350.00

10. SELECT GRANULAR TRENCH BACKFILL (CA-6)	255	L.F.	\$	25.00	\$	6,375.00
11. WATER PRESSURE TEST & CHLORINATION	1	L.S.	\$	1,000.00	\$	1,000.00

SUBTOTAL B **\$ 44,450.00**

C. STORM SEWER IMPROVEMENTS

1. 4" PVC PERFORATED LEVEL SPREADER (w/STANDPIPE)	165	L.F.	\$	22.00	\$	3,630.00
2. 6" PVC PERFORATED UNDERDRAIN	355	L.F.	\$	22.00	\$	7,810.00
3. 8" PVC STORM SEWER	22	L.F.	\$	25.00	\$	550.00
4. 10" RCP CL IV STORM SEWER	200	L.F.	\$	25.00	\$	5,000.00
5. 10" RCP CL IV STORM SEWER (w/C-443 JOINTS)	86	L.F.	\$	28.00	\$	2,408.00
6. 12" RCP CL IV STORM SEWER	189	L.F.	\$	30.00	\$	5,670.00
7. 12" RCP CL IV STORM SEWER (w/C-443 JOINTS)	82	L.F.	\$	33.00	\$	2,706.00
8. 15" RCP CL IV STORM SEWER	336	L.F.	\$	35.00	\$	11,760.00
9. 18" RCP CL IV STORM SEWER	535	L.F.	\$	40.00	\$	21,400.00
10. 21" RCP CL IV STORM SEWER	123	L.F.	\$	45.00	\$	5,535.00
11. 21" RCP CL IV STORM SEWER (w/C-443 JOINTS)	68	L.F.	\$	50.00	\$	3,400.00
12. 24" RCP CL IV STORM SEWER	348	L.F.	\$	50.00	\$	17,400.00
13. 36" RCP CL IV STORM SEWER	248	L.F.	\$	60.00	\$	14,880.00
14. 18" FES (w/GRATE)	1	EA.	\$	1,800.00	\$	1,800.00
15. 24" FES (w/GRATE)	1	EA.	\$	2,400.00	\$	2,400.00
16. STORM CLEANOUT	2	EA.	\$	700.00	\$	1,400.00
17. 24" DIA STORM INLET	10	EA.	\$	900.00	\$	9,000.00
18. 48" DIA STORM MANHOLE	10	EA.	\$	2,000.00	\$	20,000.00
19. 60" DIA STORM MANHOLE	6	EA.	\$	2,400.00	\$	14,400.00
20. 72" DIA STORM MANHOLE	2	EA.	\$	3,500.00	\$	7,000.00
21. 48" DIA STORM CATCH BASIN	1	EA.	\$	2,250.00	\$	2,250.00
22. 60" DIA STORM CATCH BASIN	2	EA.	\$	2,700.00	\$	5,400.00
23. 72" DIA STORM CATCH BASIN	1	EA.	\$	3,900.00	\$	3,900.00
24. CONNECT TO EXISTING STORM SEWER	2	EA.	\$	750.00	\$	1,500.00
25. STEEL ORIFICE PLATE RESTRICTOR BOLTED TO MANHOLE WALL	1	EA.	\$	800.00	\$	800.00
26. UNDERGROUND DETENTION VAULT	1	LS	\$	210,000.00	\$	210,000.00
27. SELECT GRANULAR TRENCH BACKFILL (CA-6)	2,592	L.F.	\$	25.00	\$	64,800.00

SUBTOTAL C **\$ 446,799.00**
TOTAL SCHEDULE II **\$ 518,352.00**

III. PAVING, CURB, SIDEWALK, LIGHTING IMPROVEMENTS

1. B6.12 CONCRETE CURB & GUTTER	3,340	L.F.	\$	18.00	\$	60,120.00
2. 2" BITUMINOUS SURFACE COURSE (N50)	10,095	S.Y.	\$	11.00	\$	111,045.00
3. BITUMINOUS TACK COAT (0.05 gal/sy)	505	GAL	\$	2.50	\$	1,261.88
4. 2 " BITUMINOUS BINDER COURSE (N50)	3,675	S.Y.	\$	10.00	\$	36,750.00
5. 2 1/4" BITUMINOUS BINDER COURSE (N50)	6,420	S.Y.	\$	11.25	\$	72,225.00
6. 5" BITUMINOUS BINDER COURSE (N30)	6,420	S.Y.	\$	22.00	\$	141,240.00
7. 4" AGGREGATE BASE COURSE	6,420	S.Y.	\$	6.00	\$	38,520.00
8. 8" AGGREGATE BASE COURSE	3,062	S.Y.	\$	12.00	\$	36,744.00
9. 12" AGGREGATE BASE COURSE	613	S.Y.	\$	18.00	\$	11,034.00
10. BITUMINOUS PRIME COAT (0.30 gal/sy)	3,029	GAL	\$	2.50	\$	7,572.50
11. 8" PCC PAVT ON 6" AGGREGATE BASE (CA-6)	2,436	S.Y.	\$	45.00	\$	109,620.00
12. PAVEMENT MARKING & SIGNAGE	1	L.S.	\$	5,000.00	\$	5,000.00
13. CONCRETE SIDEWALK (5" PCC ON 4" AGG CA-6)	1,373	S.F.	\$	5.00	\$	6,865.00
14. SITE LIGHTING (BUDGET FROM CONTRACTOR/HINSDALE ELECTRIC CO.)	1	L.S.	\$	43,200.00	\$	43,200.00

TOTAL SCHEDULE III **\$ 681,197.38**

IV. LANDSCAPE IMPROVEMENTS

1. BUDGET FROM WINGREN LANDSCAPE	1	LS	\$	108,162.12	\$	108,162.12
----------------------------------	---	----	----	------------	----	------------

TOTAL SCHEDULE IV **\$ 108,162.12**

PHASE 1 SUMMARY

I. DEMOLITION, EXCAVATION, GRADING & EROSION CONTROL		\$ 527,428.00
II. UNDERGROUND IMPROVEMENTS		\$ 518,352.00
A. SANITARY SEWER IMPROVEMENTS	\$ 27,103.00	
B. WATERMAIN IMPROVEMENTS	\$ 44,450.00	
C. STORM SEWER IMPROVEMENTS	\$ 446,799.00	
III. PAVING, CURB, SIDEWALK, LIGHTING IMPROVEMENTS		\$ 681,197.38
IV. LANDSCAPE IMPROVEMENTS		\$ 108,162.12
TOTAL		\$ 1,835,139.50

PHASE 2

ITEM	DESCRIPTION		UNIT	UNIT PRICE	EXTENSION
I.	DEMOLITION, EXCAVATION, GRADING & EROSION CONTROL				
1.	SILT FENCE	1,667	L.F.	\$ 2.50	\$ 4,167.50
2.	CONSTRUCTION ENTRANCE	1	EA.	\$ 2,500.00	\$ 2,500.00
3.	REMOVE EXISTING ONSITE PAVT/SIDEWALK	20,618	S.Y.	\$ 8.00	\$ 164,944.00
4.	REMOVE EXISTING CURB & GUTTER	2933	L.F.	\$ 8.50	\$ 24,930.50
5.	REMOVE/ABANDON EXISTING UTILITY LINES	3104	L.F.	\$ 25.00	\$ 77,600.00
6.	REMOVE/ABANDON EXISTING UTILITY STRUCTURES	14	EA.	\$ 400.00	\$ 5,600.00
7.	EXIST PAVEMENT REMOVE & REPLACE TO DISCONNECT WAT SERVICE FROM EX MAIN	1	EA.	\$ 2,000.00	\$ 2,000.00
8.	REMOVE EXISTING BUILDING	1	EA.	\$ 170,000.00	\$ 170,000.00
9.	SITE CLEARING/EXISTING TREE REMOVAL	1	LS	\$ 20,000.00	\$ 20,000.00
10.	SITE EXCAVATION, GRADING (PAD PREP)	8.6	AC.	\$ 15,000.00	\$ 129,000.00
11.	MODULAR BLOCK RETAINING WALL (WITH LANDSCAPE ITEMS)		S.F.	\$	-
12.	SOIL EROSION CONTROL MAINTENANCE	1	LS	\$ 2,500.00	\$ 2,500.00
13.	TOPSOIL RESPREAD	5,040	S.Y.	\$ 2.00	\$ 10,080.00
14.	INLET PROTECTION FILTER BASKETS	24	EA.	\$ 250.00	\$ 6,000.00
	TOTAL SCHEDULE I				\$ 619,322.00
II.	UNDERGROUND IMPROVEMENTS				
	A. SANITARY SEWER IMPROVEMENTS				
1.	6" PVC SANITARY SEWER - SDR 26	272	L.F.	\$ 35.00	\$ 9,520.00
2.	8" PVC SANITARY SEWER - SDR 26	759	L.F.	\$ 40.00	\$ 30,360.00
3.	48" MANHOLE TYPE A W/FRAME & LID	5	EA.	\$ 2,500.00	\$ 12,500.00
4.	CONNECT TO EXISTING SANITARY MANHOLE	2	EA.	\$ 1,500.00	\$ 3,000.00
5.	SELECT GRANULAR TRENCH BACKFILL (CA-6)	728	L.F.	\$ 30.00	\$ 21,840.00
6.	TELEWISE SEWER POST CONSTRUCTION	1031	L.F.	\$ 3.00	\$ 3,093.00
	SUBTOTAL A				\$ 80,313.00
	B. WATERMAIN IMPROVEMENTS				
1.	8" DUCTILE IRON WATERMAIN, INCL FITTINGS AND POLYETHYLENE	616	L.F.	\$ 45.00	\$ 27,720.00
2.	FIRE HYDRANT w/AUX VALVE	2	EA.	\$ 4,500.00	\$ 9,000.00
3.	8" VALVE IN 60" VAULT PRESSURE CONNECTION	1	EA.	\$ 7,000.00	\$ 7,000.00
4.	SELECT GRANULAR TRENCH BACKFILL (CA-6)	520	L.F.	\$ 25.00	\$ 13,000.00
5.	WATER PRESSURE TEST & CHLORINATION	1	L.S.	\$ 1,000.00	\$ 1,000.00
	SUBTOTAL B				\$ 57,720.00
	C. STORM SEWER IMPROVEMENTS				
1.	4" PVC PERFORATED LEVEL SPREADER (w/STANDPIPE)	105	L.F.	\$ 22.00	\$ 2,310.00
2.	6" PVC PERFORATED UNDERDRAIN	918	L.F.	\$ 22.00	\$ 20,196.00

3. 10" RCP CL IV STORM SEWER	218	L.F.	\$	25.00	\$	5,450.00
4. 10" RCP CL IV STORM SEWER (w/C-443 JOINTS)	84	L.F.	\$	28.00	\$	2,352.00
5. 12" RCP CL IV STORM SEWER	332	L.F.	\$	30.00	\$	9,960.00
6. 12" CMP STORM SEWER	8	L.F.	\$	30.00	\$	240.00
7. 15" RCP CL IV STORM SEWER	325	L.F.	\$	35.00	\$	11,375.00
8. 18" RCP CL IV STORM SEWER	341	L.F.	\$	40.00	\$	13,640.00
9. 24" RCP CL IV STORM SEWER	182	L.F.	\$	50.00	\$	9,100.00
10. 30" RCP CL IV STORM SEWER	405	L.F.	\$	55.00	\$	22,275.00
11. 36" RCP CL IV STORM SEWER	60	L.F.	\$	60.00	\$	3,600.00
12. 12" FES (w/GRATE)	2	EA.	\$	1,300.00	\$	2,600.00
13. STORM CLEANOUT	3	EA.	\$	700.00	\$	2,100.00
14. 24" DIA STORM INLET	13	EA.	\$	900.00	\$	11,700.00
15. 48" DIA STORM MANHOLE	12	EA.	\$	2,000.00	\$	24,000.00
16. 60" DIA STORM MANHOLE	3	EA.	\$	2,400.00	\$	7,200.00
17. 72" DIA STORM MANHOLE	1	EA.	\$	3,500.00	\$	3,500.00
18. CONNECT TO EXISTING STORM SEWER	1	EA.	\$	750.00	\$	750.00
19. STEEL ORIFICE PLATE RESTRICTOR BOLTED TO MANHOLE WALL	1	EA.	\$	900.00	\$	900.00
20. UNDERGROUND DETENTION VAULT	1	LS	\$	460,000.00	\$	460,000.00
21. SELECT GRANULAR TRENCH BACKFILL (CA-6)	2,678	L.F.	\$	25.00	\$	66,950.00

SUBTOTAL C	\$	680,198.00
TOTAL SCHEDULE II	\$	818,231.00

III. PAVING, CURB, SIDEWALK, LIGHTING IMPROVEMENTS

1. B6.12 CONCRETE CURB & GUTTER	3,236	L.F.	\$	18.00	\$	58,248.00
2. 2" BITUMINOUS SURFACE COURSE (N50)	11,128	S.Y.	\$	11.00	\$	122,408.00
3. BITUMINOUS TACK COAT (0.05 gal/sy)	556	GAL	\$	2.50	\$	1,390.00
4. 2 " BITUMINOUS BINDER COURSE (N50)	2,586	S.Y.	\$	10.00	\$	25,860.00
5. 2 1/4" BITUMINOUS BINDER COURSE (N50)	8,542	S.Y.	\$	11.25	\$	96,097.50
6. 5" BITUMINOUS BINDER COURSE (N30)	8,542	S.Y.	\$	22.00	\$	187,924.00
7. 4" AGGREGATE BASE COURSE	8,542	S.Y.	\$	6.00	\$	51,252.00
8. 8" AGGREGATE BASE COURSE	1,444	S.Y.	\$	12.00	\$	17,328.00
9. 12" AGGREGATE BASE COURSE	1,142	S.Y.	\$	18.00	\$	20,556.00
10. BITUMINOUS PRIME COAT (0.30 gal/sy)	3,338	GAL	\$	2.50	\$	8,345.00
11. 8" PCC PAVT ON 6" AGGREGATE BASE (CA-6)	3,999	S.Y.	\$	45.00	\$	179,955.00
12. PAVEMENT MARKINGS & SIGNAGE	1	L.S.	\$	5,000.00	\$	5,000.00
13. CONCRETE SIDEWALK (5" PCC ON 4" AGG CA-6)	1,822	S.F.	\$	5.00	\$	9,110.00
14. SITE LIGHTING (BUDGET FROM CONTRACTOR/HINSDALE ELECTRIC CO)	1	L.S.	\$	37,600.00	\$	37,600.00

TOTAL SCHEDULE III	\$	821,073.50
---------------------------	-----------	-------------------

IV. LANDSCAPE IMPROVEMENTS

1. BUDGET FROM WINGREN LANDSCAPE	1	LS	\$	187,265.33	\$	187,265.33
----------------------------------	---	----	----	------------	----	------------

TOTAL SCHEDULE IV	\$	187,265.33
--------------------------	-----------	-------------------

PHASE 2 SUMMARY

I. DEMOLITION, EXCAVATION, GRADING & EROSION CONTROL	\$	619,322.00
II. UNDERGROUND IMPROVEMENTS	\$	818,231.00
A. SANITARY SEWER IMPROVEMENTS	\$	80,313.00
B. WATERMAIN IMPROVEMENTS	\$	57,720.00
C. STORM SEWER IMPROVEMENTS	\$	680,198.00
III. PAVING, CURB, SIDEWALK, LIGHTING IMPROVEMENTS	\$	821,073.50
IV. LANDSCAPE IMPROVEMENTS	\$	187,265.33
TOTAL	\$	2,445,891.83

TOTAL SUMMARY - PHASE 1 & 2

	<u>PHASE 1</u>	<u>PHASE 2</u>	<u>TOTAL</u>
I. DEMOLITION, EXCAVATION, GRADING & EROSION CONTROL	\$ 527,428.00	\$ 619,322.00	\$ 1,146,750.00
II. UNDERGROUND IMPROVEMENTS	\$ 518,352.00	\$ 818,231.00	\$ 1,336,583.00
III. PAVING, CURB, SIDEWALK, LIGHTING IMPROVEMENTS	\$ 681,197.38	\$ 821,073.50	\$ 1,502,270.88
IV. LANDSCAPE IMPROVEMENTS	<u>\$ 108,162.12</u>	<u>\$ 187,265.33</u>	<u>\$ 295,427.45</u>
TOTALS	\$ 1,835,139.50	\$ 2,445,891.83	\$ 4,281,031.33

NOTES:

1. EXISTING TOTAL SITE AREA = 15.41 +/- AC. PROPOSED DISTURBANCE BY PHASE (TO INCLUDE MISC WORK IN OFFSITE EAEMENT AREAS): PH1 = 7.4 +/- ACS; PH2 = 8.6 +/- ACS
- 2 THIS ENGINEER'S OPINION OF PROBABLE COST HAS BEEN PREPARED BASED ON THE ENGINEER'S EXPERIENCE AS A DESIGN PROFESSIONAL AND IS FURNISHED FOR INFORMATION ONLY. IT DOES NOT CONSTITUTE A GUARANTEE OF ACTUAL CONSTRUCTION COSTS.