



Stantec Consulting Services Inc.
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 St. Paul MN 55113
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Item 4F.
 BCWMC 2-16-17
 Additional documents online
 Full documentation available upon request

February 6, 2017
 File: 193802816

Attention: Laura Jester
 Keystone Waters, LLC
 BCWMC Administrator
 16145 Hillcrest Lane
 Eden Prairie, MN 55346

Reference: Northwood Lake Improvements – Reimbursement Request #3
 City Project No.: 938, 967, 974

Dear Laura,

Per the terms of the Cooperative Agreement for the 2016 Northwood Lake Improvements Project, the City of New Hope is requesting reimbursement for expenses incurred during the preparation of the design plans, construction management, and construction of the project. The total reimbursement eligible for engineering services and constructions costs is **\$345,895.78**, and detailed breakdowns are provided below with additional backup information attached.

Engineering Services

The request for reimbursement for engineering is \$59,384.66, which accounts for engineering construction services. The summary breakdown of these costs per Concept A and C design concepts is shown in the table below:

Period Ending	Invoice No.	BCWMC Related Amount	Concept A (89%)	Concept C (11%)
5/27/2016	1069845	\$17,072.45	\$15,194.48	\$1,877.97
7/1/2016	1083385	\$22,676.58	\$20,182.16	\$2,494.42
7/29/2016	1094903	\$19,635.63	\$17,475.71	\$2,159.92
Total Amount		\$59,384.66	\$52,852.35	\$6,532.31

Construction Costs

The request for reimbursement of construction costs is \$570,723.66, which accounts for five contractor requests for payment. The summary breakdown of these costs per is shown per the objectives identified in the grants awarded as shown on the following page.



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Construction Cost Category	Total Amount BCWMC Related to Date	Total BCWMC Previously Reimbursed	Current Amount BCWMC Related for Reimbursement
Objective 2			
A) Construction costs - storm sewer redirect, treatment structure install ³	\$311,702.95	\$137,560.94	\$174,142.01
B) Construction costs - underground storage tank ⁴	\$558,207.82	\$446,967.72	\$111,240.10
C) Construction costs - water re-use piping and pumphouse ⁵	\$30,734.48	\$7,936.45	\$22,798.03
D) Construction costs - raingardens & curbcut ⁶	\$245,527.17	\$20,012.05	\$225,515.12
Objective 3			
A) Construction costs - pond construction ⁷	\$306,566.10	\$269,537.70	\$37,028.40
Total Amount	\$1,452,738.52	\$882,014.86	\$570,723.66

Although the total eligible BCWMC related reimbursement costs (engineering and construction costs) is \$630,108.32, only \$345,895.78 is available for reimbursement. See summary table below.

BCWMC Reimbursement Requests	Engineering Costs	Construction Costs	Total
Total BCWMC Reimbursement Request #1	\$83,484.84	\$0.00	\$83,484.84
Total BCWMC Reimbursement Request #2	\$71,872.00	\$882,014.85	\$953,886.85
Total BCWMC Reimbursement Request #3 (Current Eligible)	\$59,384.66	\$570,723.66	\$630,108.32
Total	\$214,741.50	\$1,452,738.51	\$1,667,480.01
Max BCWMC Reimbursement (\$1,433,740.00 less \$30,000 Feasibility Study Costs, less \$2,000 Educational Signage, less appr. \$19,000 BCWMC Expenses)			\$1,383,267.47
City of New Hope Contributions (greater than \$276,400 of Agreement Limit)			\$284,212.54
Actual Available BCWMC Reimbursement Request #3			\$345,895.78



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Reference: Northwood Lake Improvements – Reimbursement Request **#3**

Construction Status

The construction reimbursement request reflects Northdale Construction Company completing the majority off all work, excluding miscellaneous restoration and punch list items which will be addressed in the spring of 2017. The rain gardens and Jordan Avenue pond are complete, and are currently providing storm water treatment and storage. The storm water re-use irrigating the ballfields from the underground storm water tank will be in operation in 2017.

Enclosed please find the attached invoices from Stantec, proof of payment from the City, the contractor requests for payment, and detailed project coding for construction costs.

If you have any questions or require further information, please call me at (651)604-4808.

Sincerely,

STANTEC

Christopher W. Long, P.E.

Attachments: Stantec Invoices; Proof of Payment by New Hope; Pay Request No. 4-8; Detailed Project Coding for Construction Costs

Cc: Bernie Weber, Megan Albert, Shawn Markham – New Hope; Kellie Schlegel, Ann Dienhart, Adam Martinson – Stantec.

128	EROSION CONTROL COMPOST BLANKET - BLOWN W/SEED 25-151	SY	420	5.33	420	420	\$2,238.60	\$	2,238.60	\$	-	\$	-	\$	-	\$	2,238.60	\$	-
129	HYDROMULCH W/SEED 25-151	SY	14920	1.05	14067.43	14067.43	\$14,770.80	\$	14,770.80	\$	-	\$	-	\$	-	\$	13,464.00	\$	1,306.80
130	HYDROMULCH (NO SEED)	AC	2.36	2076.75	1.191863	1.19	\$2,475.20	\$	2,475.20	\$	-	\$	-	\$	-	\$	2,475.20	\$	-
131	RAIN GARDEN PLANTINGS	LS	1	27061.65	0.91	0.91	\$24,691.65	\$	24,691.65	\$	-	\$	-	\$	-	\$	24,691.65	\$	-
132	DOUBLE SHREDDED HARDWOOD MULCH	CY	30	52.98	90	90	\$4,768.20	\$	4,768.20	\$	-	\$	-	\$	-	\$	4,768.20	\$	-
133	LAWN EDGING	LF	917	2.24	850	850	\$1,904.00	\$	1,904.00	\$	-	\$	-	\$	-	\$	1,904.00	\$	-
134	RAIN GARDEN CUSTOM TALL FESCUE SEED MIX	SY	250	2.61	125	125	\$326.25	\$	326.25	\$	-	\$	-	\$	-	\$	326.25	\$	-
135	4" SOLID WHITE PAINT	LF	300	3.30	300	300	\$990.00	\$	990.00	\$	-	\$	-	\$	-	\$	990.00	\$	-
TOTAL PART 5 - NORTHWOOD PARK GRADING:							\$329,709.58	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
PART 6 - NORTHWOOD PARK STORMWATER:							\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
136	REMOVE CATCH BASIN	EA	1	375.00	1	1	\$375.00	\$	375.00	\$	-	\$	-	\$	-	\$	375.00	\$	-
137	CONNECT TO EXISTING STORM SEWER PIPE	EA	2	1250.00	2	2	\$2,500.00	\$	2,500.00	\$	-	\$	-	\$	-	\$	2,500.00	\$	-
138	STORMWATER STORAGE TANK	LS	1	533233.00	1.01	1.01	\$539,145.50	\$	539,145.50	\$	-	\$	-	\$	-	\$	539,145.50	\$	-
139	7' DIAMETER MH WITH OVERFLOW WIER	LS	1	11975.00	1	1	\$11,975.00	\$	11,975.00	\$	-	\$	-	\$	-	\$	11,975.00	\$	-
140	4" PVC PERFORATED DRAIN TILE, WITH SOCK (SPECIAL)	LF	362	16.75	40	40	\$670.00	\$	670.00	\$	-	\$	-	\$	-	\$	-	\$	670.00
141	CONNECT DRAIN TILE TO STORM STRUCTURE	EA	1	125.00			\$0.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
142	12" RCP STORM SEWER	LF	524	44.95	447	447	\$20,092.65	\$	20,092.65	\$	-	\$	-	\$	-	\$	20,092.65	\$	-
143	36" RCP STORM SEWER	LF	364	134.66	382	382	\$51,440.12	\$	51,440.12	\$	-	\$	-	\$	-	\$	51,440.12	\$	-
144	12" RCP FLARED END SECTION	EA	5	689.00	5	5	\$3,445.00	\$	3,445.00	\$	-	\$	-	\$	-	\$	3,445.00	\$	-
145	OVERFLOW CONTROL STRUCTURE	EA	3	4395.00	3	3	\$13,185.00	\$	13,185.00	\$	-	\$	-	\$	-	\$	13,185.00	\$	-
146	4' DIAMETER STORM MH	EA	2	1833.00	2	2	\$3,666.00	\$	3,666.00	\$	-	\$	-	\$	-	\$	3,666.00	\$	-
147	4' DIAMETER STORM CATCH BASIN WITH 3' SUMP	EA	2	2295.00	2	2	\$4,590.00	\$	4,590.00	\$	-	\$	-	\$	-	\$	4,590.00	\$	-
148	5' DIAMETER STORM CATCH BASIN MANHOLE WITH 4' SUMP	EA	1	3833.00	1	1	\$3,833.00	\$	3,833.00	\$	-	\$	-	\$	-	\$	3,833.00	\$	-
149	6' DIAMETER STORM MH	EA	2	3895.00	2	2	\$7,790.00	\$	7,790.00	\$	-	\$	-	\$	-	\$	7,790.00	\$	-
150	27" DIAMETER CATCH BASIN (MNDOT TYPE G)	EA	2	798.00			\$0.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
151	CLASS 3 RIP RAP	CY	33	125.00	20.51	20.51	\$2,563.75	\$	2,563.75	\$	-	\$	-	\$	-	\$	2,563.75	\$	-
152	STORMSCCEPTER MANHOLE	LS	1	61884.27	1	1	\$61,884.27	\$	61,884.27	\$	-	\$	-	\$	-	\$	61,884.27	\$	-
153	4" HDPE FORCE MAIN, DIRECTIONAL DRILLED	LF	720	22.90	630	630	\$14,427.00	\$	14,427.00	\$	-	\$	-	\$	-	\$	14,427.00	\$	-
154	4" 90 DEGREE HDPE BEND	EA	2	148.65	2	2	\$297.30	\$	297.30	\$	-	\$	-	\$	-	\$	297.30	\$	-
155	IRRIGATION ENCLOSURE IMPROVEMENTS	LS	1	9642.86	1	1	\$9,642.86	\$	9,642.86	\$	-	\$	-	\$	-	\$	9,642.86	\$	-
156	SIGNS	SF	6	53.25			\$0.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL PART 6 - NORTHWOOD PARK STORMWATER:							\$751,522.45	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
PART 7 - NORTHWOOD PARK WATERMAIN:							\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
157	REMOVE DRINKING FOUNTAIN	EA	1	275.00	1	1	\$275.00	\$	275.00	\$	-	\$	-	\$	-	\$	275.00	\$	-
158	REMOVE GATE VALVE & BOX	EA	2	235.00	2	2	\$470.00	\$	470.00	\$	-	\$	-	\$	-	\$	235.00	\$	-
159	REMOVE 6" CIP WATERMAIN	LF	450	5.65	200	200	\$1,130.00	\$	1,130.00	\$	-	\$	-	\$	-	\$	778.44	\$	351.56
160	REMOVE HYDRANT VALVE & BOX	EA	1	275.00	1	1	\$275.00	\$	275.00	\$	-	\$	-	\$	-	\$	275.00	\$	-
161	CONNECT TO EXISTING WATERMAIN	EA	1	1500.00	3	3	\$4,500.00	\$	4,500.00	\$	-	\$	-	\$	-	\$	-	\$	4,500.00
162	HYDRANT, INCLUDING 6" GATE VALVE AND BOX	EA	1	5430.15	1	1	\$5,430.15	\$	5,430.15	\$	-	\$	-	\$	-	\$	5,430.15	\$	-
163	6" GATE VALVE AND BOX	EA	2	1236.25	2	2	\$2,472.50	\$	2,472.50	\$	-	\$	-	\$	-	\$	1,236.25	\$	-
164	1" PE WATER SERVICE	LF	158	31.58	235	235	\$7,409.20	\$	7,409.20	\$	-	\$	-	\$	-	\$	7,409.20	\$	-
165	CONNECT 1" PE TO PARK SHELTER BUILDING	LS	1	318.34	1	1	\$318.34	\$	318.34	\$	-	\$	-	\$	-	\$	-	\$	318.34
166	1" CURB BOX	EA	1	414.45	2	2	\$828.90	\$	828.90	\$	-	\$	-	\$	-	\$	-	\$	828.90
167	6" C900 DR18 PVC WATER MAIN WITH TRACER WIRE	LF	270	29.84	214	421	\$12,549.80	\$	6,379.34	\$	-	\$	-	\$	-	\$	5,434.25	\$	945.09
168	WATERMAIN OFFSET	EA	1	1450.00	1	1	\$1,450.00	\$	1,450.00	\$	-	\$	-	\$	-	\$	1,450.00	\$	-
169	DRINKING FOUNTAIN (INCLUDES PIPE, FITTINGS, CURB STOPS AND BOXES, BLOWOUT, AND ALL NECESSARY MATERIALS)	LS	1	2854.75	1	1	\$2,854.75	\$	2,854.75	\$	-	\$	-	\$	-	\$	2,854.75	\$	-
170	DUCTILE IRON FITTINGS	LB	325	5.36	460	460	\$2,465.60	\$	2,465.60	\$	-	\$	-	\$	-	\$	2,465.60	\$	-
171	INSULATION - 4" THICK	SY	15	36.10	7	7	\$252.70	\$	252.70	\$	-	\$	-	\$	-	\$	252.70	\$	-
TOTAL PART 7 - NORTHWOOD PARK WATERMAIN:							\$42,681.94	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
PART 8 - NORTHWOOD PARK PLAYGROUND:							\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$
172	CONCRETE PLAYGROUND CURB	LF	460	42.60	446	446	\$18,999.60	\$	18,999.60	\$	-	\$	-	\$	-	\$	-	\$	18,999.60
173	GRANULAR MATERIAL PLACEMENT, FROM ON-SITE STOCKPILE	CY	175	5.95	175	175	\$1,041.25	\$	1,041.25	\$	-	\$	-	\$	-	\$	-	\$	1,041.25
174	SELECT GRANULAR BORROW	TN	50	25.00	20	20	\$500.00	\$	500.00	\$	-	\$	-	\$	-	\$	-	\$	500.00
175	PLAYGROUND SAND	TN	80	32.00	53.82	53.82	\$1,722.24	\$	1,722.24	\$	-	\$	-	\$	-	\$	-	\$	1,722.24
176	SYNTHETIC RESILIENT SURFACING	SF	135	41.25	168	168	\$6,930.00	\$	6,930.00	\$	-	\$	-	\$	-	\$	-	\$	6,930.00
177	PLAYGROUND MATS	EA	7	275.00	7	7	\$1,925.00	\$	1,925.00	\$	-	\$	-	\$	-	\$	-	\$	1,925.00
178	GEOTEXTILE FABRIC - PLAYGROUND	SY	1520	2.85	1520	1520	\$4,332.00	\$	4,332.00	\$	-	\$	-	\$	-	\$	-	\$	4,332.00
179	4" PVC NON-PERFORATED DRAIN TILE	LF	170	23.28	30	30	\$698.40	\$	698.40	\$	-	\$	-	\$	-	\$	-	\$	698.40
180	4" PVC PERFORATED DRAIN TILE, WRAPPED IN ROCK AND FABRIC	LF	105	34.03			\$0.00	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
181	4" PVC PERFORATED DRAIN TILE, WITH SOCK (PLAYGROUND)	LF	280	34.03	228	228	\$7,758.84	\$	7,758.84	\$	-	\$	-	\$	-	\$	-	\$	7,758.84
182	4" PVC CLEANOUT	EA	3	442.13	2	2	\$884.26	\$	884.26	\$	-	\$	-	\$	-	\$	-	\$	884.26
183	REMOVE BITUMINOUS TRAIL	SY	1364	4.35	1364	1364	\$5,933.40	\$	5,933.40	\$	-	\$	-	\$	-	\$	-	\$	5,933.40
184	GEOTEXTILE FABRIC - TRAIL	SY	1600	2.85	1600	1600	\$4,560.00	\$	4,560.00	\$	-	\$	-	\$	-	\$	-	\$	4,560.00
185	AGGREGATE BASE, CLASS 5 - TRAIL & WALK	TN	60	28.50	149.70	149.70	\$4,266.48	\$	4,266.48	\$	-	\$	-	\$	-	\$	-	\$	4,266.48
186	AGGREGATE BASE, CLASS 5 - PLAYGROUND	TN	140	28.50	204.42	204.42	\$5,825.97	\$	5,825.97	\$	-	\$	-	\$	-	\$	-	\$	5,825.97
187	TYPE S.P. 9.5 BITUMINOUS WEARING MIXTURE (2,B) - TRAIL	TN	260	83.60	265	265	\$22,154.00	\$	22,154.00	\$	-	\$	-	\$	-	\$	-	\$	22,154.00

188	PLACEMENT OF RECLAIM SALVAGED FROM JORDAN	CY	194	39.95	194	194	\$7,750.30	\$	7,750.30	\$	-	\$	-	\$	-	\$	-	\$	7,750.30
189	4" CONCRETE SIDEWALK - PLAYGROUND	SF	1620	8.47	1716	1716	\$14,534.52	\$	14,534.52	\$	-	\$	-	\$	-	\$	-	\$	14,534.52
TOTAL PART 8 - NORTHWOOD PARK PLAYGROUND:							\$109,816.26	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
ALTERNATE NO. 1 - NORTHWOOD PARK BLOWN MULCH:								\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
190	EROSION CONTROL COMPOST BLANKET BLOWN W/ MNDOT 25-151 SEED	SY	14920	3.95	14920	14920	\$58,934.00	\$	58,934.00	\$	-	\$	-	\$	-	\$	-	\$	53,720.00
191	HYDROMULCH W/ MNDOT 25-151 SEED	SY	-14920	0.99	-14920	-14920	(\$14,770.80)	\$	(14,770.80)	\$	-	\$	-	\$	-	\$	-	\$	(13,464.00)
TOTAL ALTERNATE NO. 1 - NORTHWOOD PARK BLOWN MULCH:							\$44,163.20	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
ALTERNATE NO. 2 - BENCH WITH CONCRETE PAD:								\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
192	BENCH WITH CONCRETE PAD	EA	3	1918.85	3	3	\$5,756.55	\$	5,756.55	\$	-	\$	-	\$	-	\$	-	\$	5,756.55
TOTAL ALTERNATE NO. 2 - BENCH WITH CONCRETE PAD:							\$5,756.55	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
CHANGE ORDER NO. 1								\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
193	SANITARY SEWER REVISION, INCL LOWERING MAIN LINE AND TWO SERVICES	LS	1	10340.25	1	1	\$10,340.25	\$	10,340.25	\$	-	\$	10,340.25	\$	-	\$	-	\$	-
194	EXPLORATORY DIGGING TO DETERMINE IF EXISTING SANITARY SEWER SERVICES WERE IN CONFLICT WITH NEW STORM	LS	1	1898.88	\$1.00	1	\$1,898.88	\$	1,898.88	\$	-	\$	1,898.88	\$	-	\$	-	\$	-
TOTAL CHANGE ORDER NO. 1							\$12,239.13	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL PART 1 - GENERAL:							\$63,685.57	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL PART 2 - JORDAN AVE. STORMWATER:							\$410,782.50	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL PART 3 - JORDAN AVE. WATERMAIN:							\$52,962.95	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL PART 4 - JORDAN AVE. STREET:							\$233,243.96	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL PART 5 - NORTHWOOD PARK GRADING:							\$329,709.58	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL PART 6 - NORTHWOOD PARK STORMWATER:							\$751,522.45	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL PART 7 - NORTHWOOD PARK WATERMAIN:							\$42,681.94	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL PART 8 - NORTHWOOD PARK PLAYGROUND:							\$109,816.26	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL ALTERNATE NO. 1 - NORTHWOOD PARK BLOWN MULCH:							\$44,163.20	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL ALTERNATE NO. 2 - BENCH WITH CONCRETE PAD:							\$5,756.55	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL CHANGE ORDER NO. 1							\$12,239.13	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL WORK COMPLETED TO DATE							\$2,056,564.10	\$	2,050,393.64	\$	-	\$	-	\$	-	\$	-	\$	-

Total Amount Completed	\$ 209,902.2874	\$ 13,618.9562	\$ 84,069.3940	\$ 140,780.1754	\$ 1,466,836.1617	\$ 135,186.6626
20000 Retainage Held	\$ 2,007.04	\$ 14.36	\$ 945.30	\$ 1,487.64	\$ 14,097.64	\$ 1,448.02
Total Amount Paid by City thru Pay Req. 8	\$ 207,895.25	\$ 13,604.60	\$ 83,124.09	\$ 139,292.54	\$ 1,452,738.52	\$ 133,738.64
	STREET (10.04%)	SANITARY (0.07%)	WATER (4.73%)	STORM (7.44%)	BCWMC (70.49%)	PARKS (7.24%)

Construction Cost Category	Grant Cost Estimate	% Grant Amount Estimate	Amount to Date	\$14,097.64 BCWMC Related Total Retainage Held	Total Amount BCWMC Related to Date	Total BCWMC Previously Reimbursed	Current Amount BCWMC Related for Reimbursement
Objective 2							
A) Construction costs - storm sewer redirect, treatment structure install ³	194,510.00	17.83%	\$314,215.96	\$2,513.01	\$311,702.95	\$137,560.94	\$174,142.01
B) Construction costs - underground storage tank ⁴	328,739.00	30.13%	\$562,455.03	\$4,247.21	\$558,207.82	\$446,967.72	\$111,240.10
C) Construction costs - water re-use piping and pumphouse ⁵	225,630.00	20.68%	\$33,649.55	\$2,915.07	\$30,734.48	\$7,936.45	\$22,798.03
D) Construction costs - raingardens & curbcut ⁶	220,817.00	20.24%	\$248,380.05	\$2,852.89	\$245,527.17	\$20,012.05	\$225,515.12
Objective 3							
A) Construction costs - pond construction ⁷	121,479.00	11.13%	\$308,135.57	\$1,569.47	\$306,566.10	\$269,537.70	\$37,028.40
Total Amount	969,696.00	100.0%	\$1,466,836.16	\$14,097.64	\$1,452,738.52	\$882,014.86	\$570,723.66