

March 21, 2019

TO THE BOARD OF PUBLIC WORKS
CITY OF WAUKESHA, WISCONSIN

Periodical estimate for Partial Payment No. 7 to Super Excavators, Inc., N59 W14601 Boblink Avenue, Menomonee Falls, WI 53051, for Greenmeadow Sanitary Interceptor Sewer.

Contract No. # 4071

CONTRACT DATE: June 19, 2018

Original \$ 18,461,976.00

Amended \$ 18,785,639.11

Line No.	Item No.	Item Description	Unit	Bid Quantities	Completed Quantity	Unit Price	Amount
GREENMEADOW INTERCEPTOR SEWER BID ITEMS							
1	01001	TRAFFIC CONTROL	LS	1	0.40	\$ 80,000.00	\$ 32,000.00
2	01010	MOBILIZATION	LS	1	0.90	\$ 1,125,000.00	\$ 1,012,500.00
3	01017	TEMPORARY SAFETY FENCE	LF	1,120	2,226	\$ 2.00	\$ 4,452.00
4	01018	TEMPORARY CONCRETE SAFETY BARRIER	LF	250	137.5	\$ 50.00	\$ 6,875.00
5	01020	FIELD OFFICE	LS	1	0.70	\$ 75,000.00	\$ 52,500.00
6	01995	DEWATERING (SPECIAL, IF NEEDED AT DEEP EXCAVATIONS AND TUNNEL SHAFTS)	LS	1	0.95	\$ 525,000.00	\$ 498,750.00
7	02002	SILT FENCE	LF	3,200	2,798	\$ 2.00	\$ 5,596.00
8	02005	INLET PROTECTION	EACH	34	12	\$ 80.00	\$ 960.00
9	02010	CONSTRUCTION ENTRANCE	EACH	3	3	\$ 3,000.00	\$ 9,000.00
10	02110	CONCRETE WASH-OUT BASIN	LS	1	0.5	\$ 3,000.00	\$ 1,500.00
11	03001	CLEARING	LS	1	1	\$ 30,000.00	\$ 30,000.00
12	03002	GRUBBING	LS	1	1	\$ 30,000.00	\$ 30,000.00
13	03100	REMOVE SEWER MANHOLE	EACH	14		\$ 1,000.00	\$ -
14	03110	REMOVE PIPE	LF	3,355		\$ 30.00	\$ -
15	03200	ABANDON SEWER MANHOLE	EACH	13		\$ 600.00	\$ -
16	03205	ABANDON PIPE	LF	11,483		\$ 20.00	\$ -
17	03300	REMOVE EXISTING CURB AND GUTTER	LF	1,254	25	\$ 10.00	\$ 250.00
18	03331	REMOVE EXISTING SIDEWALK	SY	578		\$ 20.00	\$ -
19	03990	DEMOLISH GREENMEADOW PUMP STATION	LS	1		\$ 275,000.00	\$ -
20	03991	DEMOLISH WOODFIELD PUMP STATION	LS	1		\$ 80,000.00	\$ -
21	04120	SLURRY BACKFILL (DOES NOT INCLUDE MH-5, MH-6, MH-7 AND MH-10)	CY	90		\$ 70.00	\$ -

22	04167	TUNNELING - ROCK	LS	1		\$ 3,075,000.00	\$ -
23	04175	SOLID ROCK EXCAVATION (IN TRENCHES)	CY	665		\$ 135.00	\$ -
24	04176	LOOSE ROCK EXCAVATION (IN TRENCHES)	CY	1,330		\$ 75.00	\$ -
25	04216	HORIZONTAL DIRECTIONAL DRILL 18 INCH PIPE - RIVER CROSSING 1	LF	680	635	\$ 870.00	\$ 552,450.00
26	04216	HORIZONTAL DIRECTIONAL DRILL 18 INCH PIPE - RIVER CROSSING 2	LF	700	691	\$ 870.00	\$ 601,170.00
27	04217	INTENTIONALLY LEFT BLANK					\$ -
28	04217	INTENTIONALLY LEFT BLANK					\$ -
29	04990	TRENCH STABILIZATION	LF	200	54	\$ 50.00	\$ 2,700.00
30	04991	42-INCH CARRIER PIPE INSTALLATION TUNNEL (SPECIAL)	LS	1		\$ 750,000.00	\$ -
31	04992	BACKFILL GROUTING-CELLULAR CONCRETE (SPECIAL)	LS	1		\$ 200,000.00	\$ -
32	04993	GROUNDWATER CONTROL GROUT (TBM AND DRILL AND BLAST)	94 lb Bag	1,700		\$ 1.00	\$ -
33	04994	GROUNDWATER CONTROL GROUTING (SET-UP)	EACH	140		\$ 1.00	\$ -
34	04995	WATERTIGHT SHAFT (LOWELL PARK SHAFT - SPECIAL)	EACH	1	0.50	\$ 830,000.00	\$ 415,000.00
35	04996	WATERTIGHT SHAFT (INTERMEDIATE SHAFT 1 - SPECIAL. THIS SHAFT IS CONSIDERED OPTIONAL GIVEN CONTRACTOR'S PROPOSED METHOD)	EACH	1		\$ 1.00	\$ -
36	04997	WATERTIGHT SHAFT (INTERMEDIATE SHAFT 2 - SPECIAL, MADISON AND JOELLEN)	EACH	1	1.00	\$ 1,150,000.00	\$ 1,150,000.00
37	04998	PORTAL CONSTRUCTION (SPECIAL - JOELLEN AND AMERICAN) (DOES NOT INCLUDE OPEN CUT ROCK EXCAVATION	EACH	1	1	\$ 475,000.00	\$ 356,250.00
38	04999	SETTLEMENT AND VIBRATION MONITORING	EACH	1	0.70	\$ 60,000.00	\$ 42,000.00
39	05030	CHIMNEY REPLACEMENT	EACH	10		\$ 1,500.00	\$ -
40	05040	8-INCH SANITARY SEWER OUTSIDE DROP	VF	22		\$ 400.00	\$ -
41	05041	10-INCH PVC SANITARY SEWER OUTSIDE DROP	VF	6		\$ 500.00	\$ -
42	05050	INTERNAL CHIMNEY SEAL	EACH	27	1	\$ 500.00	\$ 500.00
43	05055	CLEANOUT	EACH	4		\$ 85.00	\$ -
44	05108	8-INCH PVC SANITARY SEWER PIPE	LF	173		\$ 200.00	\$ -
45	05110	10-INCH PVC SANITARY SEWER PIPE	LF	10		\$ 280.00	\$ -
46	05112	12-INCH PVC SANITARY SEWER PIPE	LF	67		\$ 240.00	\$ -
47	05115	15-INCH PVC SANITARY SEWER PIPE	LF	60		\$ 230.00	\$ -
48	05118	18-INCH PVC SANITARY SEWER PIPE	LF	53		\$ 320.00	\$ -

49	05155	4-INCH SANITARY SEWER LATERAL REPLACEMENT (OPEN CUT)	LF	418		\$ 190.00	\$ -
50	05157	6-INCH SANITARY SEWER LATERAL REPLACEMENT (OPEN CUT)	LF	610		\$ 200.00	\$ -
51	05174	4 INCH SANITARY SEWER RISER	VF	150		\$ 60.00	\$ -
52	05176	6 INCH SANITARY SEWER RISER	VF	222		\$ 75.00	\$ -
53	05400	48-INCH DIA SANITARY MANHOLE	VF	32		\$ 270.00	\$ -
54	05401	72-INCH DIA SANITARY MANHOLE	VF	48	10.3	\$ 635.00	\$ 6,540.50
55	05485	2'X3' STORM INLET	EACH	2		\$ 1,500.00	\$ -
56	05512	12 INCH RCP STORM SEWER PIPE	LF	186		\$ 160.00	\$ -
57	05536	36 INCH RCP STORM SEWER PIPE	LF	140		\$ 300.00	\$ -
58	05590	STORM SEWER INLET REPAIR	VF	60		\$ 325.00	\$ -
59	05595	STORM SEWER MANHOLE REPAIR	VF	20		\$ 325.00	\$ -
60	05850	CONCRETE COLLAR	EACH	9		\$ 2,000.00	\$ -
61	05951	SANITARY SEWER CLEANING AND TELEVISIONING - PREPAVING	LF	2,234		\$ 30.00	\$ -
62	05952	SANITARY SEWER LATERAL TELEVISIONING - PREPAVING	EACH	71		\$ 1,600.00	\$ -
63	05980	36 INCH PVC SANITARY SEWER PIPE - F679, PS46	LF	5,044	833.0	\$ 550.00	\$ 458,150.00
64	05981	36 INCH PVC SANITARY SEWER PIPE - C900	LF	1,086	987.0	\$ 750.00	\$ 740,250.00
65	05982	72-INCH DIA SANITARY MANHOLE, WITH REDUCED RISER	VF	232	30.7	\$ 400.00	\$ 12,280.00
66		72-INCH DIA SANITARY MANHOLE, WITH FLAT SLAB	VF	7		\$ 750.00	\$ -
67	05984	96-INCH SANITARY MANHOLE, CONSTRUCTED OVER EXISTING SEWER (SAN MH 27)	LS	1	1	\$ 17,000.00	\$ 17,000.00
68	05985	96-INCH SANITARY SEWER MANHOLE, WITH REDUCED RISER	VF	14		\$ 1,200.00	\$ -
69	05986	96-INCH SANITARY SEWER MANHOLE, FLAT SLAB	VF	8	8	\$ 1,800.00	\$ 14,400.00
70	05987	12-INCH PVC SANITARY SEWER OUTSIDE DROP	VF	8		\$ 600.00	\$ -
71	05988	SANITARY MANHOLE MH-5, WITH VORTEX UNIT	LS	1		\$ 260,000.00	\$ -
72	05989	SANITARY MANHOLE MH-6 (IF SHAFT IS REQUIRED FOR TUNNEL CONSTRUCTION)	LS	1		\$ 1.00	\$ -
73	05990	SANITARY MANHOLE MH-7	LS	1		\$ 45,000.00	\$ -
74	05991	SANITARY MANHOLE MH-10	LS	1		\$ 30,000.00	\$ -
75	05992	SIPHON STRUCTURES - INLET AND OUTLET	LS	1	0.5	\$ 300,000.00	\$ 150,000.00

76	05995	PLUG 18-IN. SANITARY SEWER CONNECTION IN MH 200' WEST OF SAN MH-1 (CONEVIEW CONNECTION)	LS	1		\$ 500.00	\$ -
77	05996	SANITARY MANHOLE MH-18, WITH VORTEX UNIT	LS	1		\$ 250,000.00	\$ -
78	05997	FURNISH AND INSTALL POLYSTYRENE INSULATION FOR 36-INCH INTERCEPTOR	LF	155		\$ 90.00	\$ -
79	07008	8-INCH CONCRETE PAVEMENT	SY	88	142.7	\$ 125.00	\$ 17,837.50
80	07130	30" TYPE A CONCRETE CURB & GUTTER	LF	1,254	25.0	\$ 40.00	\$ 1,000.00
81	07301	CURB RAMP DETECTABLE WARNING FIELDS	SF	242		\$ 38.00	\$ -
82	07302	PEDESTRIAN CURB	LF	100		\$ 40.00	\$ -
83	07304	4-INCH CONCRETE SIDEWALK	SF	4,625		\$ 7.00	\$ -
84	07326	6-INCH CONCRETE DRIVE APPROACH	SF	1,388		\$ 12.00	\$ -
85	08012	MILL EXISTING ASPHALT ROADWAY - 2"	SY	24,000		\$ 3.00	\$ -
86	08020	FOUNDATION PREPARATION OF MILLED PAVEMENT	SY	24,000		\$ 0.50	\$ -
87	08050	UTILITY TRENCH PATCH - TEMPORARY	SY	200		\$ 140.00	\$ -
88	08065	HMA PAVEMENT PATCHING	SY	1,200		\$ 85.00	\$ -
89	08206	HMA PAVEMENT TYPE 3LT5828H	TON	1,431		\$ 250.00	\$ -
90	08208	HMA PAVEMENT TYPE 5LT5828H	TON	2,631		\$ 80.00	\$ -
91	08990	CRACKFILLING - ASPHALT PAVEMENT MILLED	SY	24,000		\$ 2.00	\$ -
92	12201	PAVEMENT MARKING EPOXY, LINE, 4-INCH (YELLOW)	LF	3,805		\$ 1.00	\$ -
93	12201	PAVEMENT MARKING EPOXY, LINE, 4-INCH (WHITE)	LF	5,394		\$ 1.00	\$ -
94	12204	PAVEMENT MARKING EPOXY, LINE 8-INCH	LF	517		\$ 1.00	\$ -
95	12220	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH	LF	1,339		\$ 8.00	\$ -
96	12250	PAVEMENT MARKING EPOXY, STOP LINE, 18-INCH	LF	342		\$ 11.00	\$ -
97	12258	PAVEMENT MARKING EPOXY, SYMBOL, BIKE LANE	EACH	9		\$ 170.00	\$ -
98	12259	PAVEMENT MARKING EPOXY, SYMBOL, BIKE STRAIGHT ARROW	EACH	9		\$ 100.00	\$ -
99	12263	PAVEMENT MARKING EPOXY, SYMBOL, LEFT ARROW	EACH	8		\$ 270.00	\$ -
100	12270	PAVEMENT MARKING EPOXY, WORD ONLY	EACH	6		\$ 300.00	\$ -
101	12990	PAVEMENT MARKING EPOXY, SYMBOL, HANDICAP	EACH	1		\$ 150.00	\$ -
102	13005	REMOVE, STORE AND RE-INSTALL SIGNS & POSTS	EACH	3		\$ 100.00	\$ -

103	14003	TOPSOIL, FERTILIZER, SEED & EROSION MAT	SY	3,437		\$ 6.00	\$ -
104	14005	TOPSOIL AND SOD	SY	10,960		\$ 9.00	\$ -
105	15990	FURNISH AND INSTALL 8-INCH D.I. WATERMAIN AND FITTINGS AT STA 13+00 SAN MH 1 LOCATION (MICHIGAN AVE.)	LS	1		\$ 10,000.00	\$ -
106	15999	FURNISH AND INSTALL 8-INCH D.I. WATER MAIN AND FITTINGS FOR HORIZONTAL OFFSET AT STA 52+80 SHAFT LOCATION (JOELLEN DR.), INCLUDING TEMPORARY RESTRAINED CAPS	LS	1	0.2	\$ 22,000.00	\$ 4,400.00
107	04990	ALLOWANCE FOR CONTAMINATED MATERIAL DISPOSAL	LS	1	0.02	\$ 165,600.00	\$ 3,547.20
107 A		CO #1 - EXTRA #1 - ADDITIONAL COSTS DUE TO NORMAL FLOW BORE - REDIRECTS	LS		1	\$ 65,990.24	\$ 65,990.24
107 B		CO #1 - EXTRA #2 - ADDITIONAL COSTS DUE TO NORMAL FLOW BORE - INADVERTENT RETURNS	LS		1	\$ 22,216.33	\$ 22,216.33
107 C		CO #1 - EXTRA #3 - ADDITIONAL COSTS DUE TO NORMAL FLOW BORE - CHANGE IN CONDITION: ROCK LEDGE	LS		1	\$ 26,082.49	\$ 26,082.49
107 D		CO #1 - EXTRA #4 - ADDITIONAL COSTS DUE TO HIGH FLOW BORE - CHANGE IN CONDITION: BORE THROUGH BEDROCK	LS		1	\$ 217,829.11	\$ 217,829.11
107 E		CO #1 - EXTRA #5 - PIPING CHANGES RELATED TO INLET SIPHON RELOCATION	LS		1	\$ 13,544.94	\$ 13,544.94
GREENMEADOW INTERCEPTOR SEWER SUBTOTAL:							\$ 6,575,521.31

AREA 5 STORM SEWER BID ITEMS							
108	01001	TRAFFIC CONTROL	LS	1		\$ 20,000.00	\$ -
109	01010	MOBILIZATION	LS	1		\$ 15,000.00	\$ -
110	02005	INLET PROTECTION	EACH	3		\$ 80.00	\$ -
111	03100	REMOVE SEWER MANHOLE	EACH	1		\$ 1,000.00	\$ -
112	03101	REMOVE INLET	EACH	1		\$ 165.00	\$ -
113	03110	REMOVE PIPE	LF	50		\$ 30.00	\$ -
114	03300	REMOVE EXISTING CURB AND GUTTER	LF	85		\$ 13.00	\$ -
115	03331	REMOVE EXISTING SIDEWALK	SY	20		\$ 20.00	\$ -
116	05479	96-INCH STORM SEWER MANHOLE	EACH	4		\$ 7,000.00	\$ -
117	05485	2'X3' STORM INLET	EACH	4		\$ 1,200.00	\$ -
118	05495	144-INCH DIA STORM SEWER (STM MH 7)	LS	1		\$ 60,000.00	\$ -

119	05512	12 INCH RCP STORM SEWER PIPE	LF	64		\$ 150.00	\$ -
120	05536	36 INCH RCP STORM SEWER PIPE	LF	8		\$ 400.00	\$ -
121	05542	42 INCH RCP STORM SEWER PIPE	LF	8		\$ 450.00	\$ -
122	05743	43 INCH X 68 INCH TYPE I HERCP STORM SEWER PIPE	LF	8		\$ 500.00	\$ -
123	05850	CONCRETE COLLAR	EACH	3		\$ 1,500.00	\$ -
124	05955	STORM SEWER CLEANING AND TELEVISIONING - PREPAVING	LF	6,806		\$ 2.50	\$ -
125	05993	108-INCH STORM SEWER MANHOLE	EACH	2		\$ 15,000.00	\$ -
126	05994	54-INCH RCP STORM SEWER PIPE	LF	1,252		\$ 260.00	\$ -
127	07130	30" TYPE A CONCRETE CURB & GUTTER	LF	85		\$ 40.00	\$ -
128	07304	4-INCH CONCRETE SIDEWALK	SF	180		\$ 7.00	\$ -
129	08012	MILL EXISTING ASPHALT ROADWAY - 2"	SY	1,075		\$ 5.00	\$ -
130	08020	FOUNDATION PREPARATION OF MILLED PAVEMENT	SY	1,075		\$ 1.00	\$ -
131	08065	HMA PAVEMENT PATCHING	SY	55		\$ 80.00	\$ -
132	08206	HMA PAVEMENT TYPE 3LT5828H	TON	90		\$ 250.00	\$ -
133	08208	HMA PAVEMENT TYPE 5LT5828H	TON	180		\$ 80.00	\$ -
134	08990	CRACKFILLING - ASPHALT PAVEMENT MILLED	SY	1,075		\$ 3.00	\$ -
135	12201	PAVEMENT MARKING EPOXY, LINE, 4-INCH (WHITE)	LF	533		\$ 1.00	\$ -
136	12220	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH	LF	77		\$ 8.00	\$ -
137	12250	PAVEMENT MARKING EPOXY, STOP LINE, 18-INCH	LF	18		\$ 11.00	\$ -
138	12258	PAVEMENT MARKING EPOXY, SYMBOL, BIKE LANE	EACH	1		\$ 170.00	\$ -
139	12259	PAVEMENT MARKING EPOXY, SYMBOL, BIKE STRAIGHT ARROW	EACH	1		\$ 100.00	\$ -
140	14005	TOPSOIL AND SOD	SY	50		\$ 11.00	\$ -
141	15991	LOWER 1" COPPER SERVICE LATERAL	EACH	8		\$ 1,300.00	\$ -
142	15992	LOWER 1-1/4" COPPER SERVICE LATERAL	EACH	1		\$ 1,400.00	\$ -
143	15993	LOWER 1-1/2" COPPER SERVICE LATERAL	EACH	1		\$ 1,500.00	\$ -
144	15994	LOWER 2" COPPER SERVICE LATERAL	EACH	1		\$ 1,600.00	\$ -
145	15995	FURNISH AND INSTALL 6-INCH D.I. WATER MAIN AND FITTINGS FOR LOWERING AT STA 67+17 (DOPP ST.)	LS	1		\$ 12,000.00	\$ -

146	15996	FURNISH AND INSTALL 16-INCH D.I. WATER MAIN AND FITTINGS FOR LOWERING AT STA 13+85 (S. MORELAND BLVD), INCLUDING 8-INCH D.I. WATER MAIN AND 8-INCH VALVE AND BOX (IF NECESSARY)	LS	1		\$ 35,000.00	\$ -	
147	15997	FURNISH AND INSTALL 8-INCH D.I. WATER MAIN AND FITTINGS FOR LOWERING AT STA 13+90 (S. MORELAND BLVD.), INCLUDING 8-INCH D.I. WATER MAIN AND 8-INCH VALVE AND BOX (IF NECESSARY)	LS	1		\$ 14,000.00	\$ -	
148	15998	FURNISH AND INSTALL POLYSTYRENE INSULATION AT WATER MAIN RELOCATIONS, WHERE NEEDED	LF	36		\$ 90.00	\$ -	
AREA 5 STORM SEWER BID ITEMS							\$ -	

WAUKESHA WATER UTILITY BID ITEMS							
149	03300	REMOVE EXISTING CURB AND GUTTER	LF	218		\$ 13.00	\$ -
150	07130	30" TYPE A CONCRETE CURB & GUTTER	LF	218		\$ 40.00	\$ -
151	08012	MILL EXISTING ASPHALT ROADWAY - 2"	SY	2,900		\$ 5.00	\$ -
152	08020	FOUNDATION PREPARATION OF MILLED PAVEMENT	SY	2,900		\$ 1.00	\$ -
153	08065	HMA PAVEMENT PATCHING	SY	145		\$ 80.00	\$ -
154	08206	HMA PAVEMENT TYPE 3LT5828H	TON	243		\$ 250.00	\$ -
155	08208	HMA PAVEMENT TYPE 5LT5828H	TON	317		\$ 80.00	\$ -
156	08990	CRACKFILLING - ASPHALT PAVEMENT MILLED	SY	2,900		\$ 3.00	\$ -
157	12201	PAVEMENT MARKING EPOXY, LINE, 4-INCH (WHITE)	LF	1,044		\$ 1.00	\$ -
158	12220	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH	LF	69		\$ 8.00	\$ -
159	12250	PAVEMENT MARKING EPOXY, STOP LINE, 18-INCH	LF	13		\$ 11.00	\$ -
160	12258	PAVEMENT MARKING EPOXY, SYMBOL, BIKE LANE	EACH	2		\$ 170.00	\$ -
161	12259	PAVEMENT MARKING EPOXY, SYMBOL, BIKE STRAIGHT ARROW	EACH	2		\$ 100.00	\$ -
162	15001	FURNISH AND INSTALL 12" WATER MAIN AND FITTINGS WITH COMPACTED GRANULAR BACKFILL, CHLORINATING, FLUSHING AND PRESSURE TESTING	LF	60		\$ 400.00	\$ -
163	15002	FURNISH AND INSTALL 8" WATER MAIN AND FITTINGS WITH COMPACTED GRANULAR BACKFILL, CHLORINATING, FLUSHING AND PRESSURE TESTING	LF	920		\$ 125.00	\$ -

164	15003	FURNISH AND INSTALL 6" D.I. WATER MAIN AND FITTINGS FOR THE CONNECTION AT S. MORELAND BLVD. AND DOPP STREET WITH COMPACTED GRANULAR BACKFILL AND SWAB PIPE WITH CHLORINATED WATER	LS	1		\$ 6,600.00	\$ -
165	15004	FURNISH AND INSTALL TWO (2) 6" CAPS TO DISCONNECT WATER MAIN AT S. MORELAND BLVD. AND MOTOR AVENUE WITH COMPACTED GRANULAR BACKFILL	LS	1		\$ 3,600.00	\$ -
166	15005	FURNISH AND INSTALL FOUR (4) 6" CAPS TO DISCONNECT WATER MAIN AT S. MORELAND BLVD. AND W. ST. PAUL AVENUE WITH COMPACTED GRANULAR BACKFILL	LS	1		\$ 6,000.00	\$ -
167	15006	FURNISH AND INSTALL 20" BUTTERFLY VALVE & BOX	EACH	1		\$ 12,000.00	\$ -
168	15007	FURNISH AND INSTALL 16" BUTTERFLY VALVE & BOX	EACH	1		\$ 7,000.00	\$ -
169	15008	FURNISH AND INSTALL 8" GATE VALVE & BOX	EACH	2		\$ 1,500.00	\$ -
170	15009	FURNISH AND INSTALL HYDRANT VALVE, 6" D.I. LEAD AND HYDRANT	EACH	4		\$ 10,000.00	\$ -
171	15010	WWU TO FURNISH AND INSTALL 20"X6" TAPPING SLEEVE AND 6" TAPPING VALVE, CONTRACTOR TO FURNISH AND INSTALL 6" - 90° SWIVEL X SWIVEL AND HYDRANT	EACH	1		\$ 15,000.00	\$ -
172	15011	CONNECT 1" COPPER SERVICE LATERAL (CONNECT WITH A DIRECT TAP USING A 1" CORP. AND BEND EXISTING PIPE INTO NEW CORP.) (NOTED ON DRAWING AS SL1)	EACH	15		\$ 900.00	\$ -
173	15012	CONNECT 1" COPPER SERVICE LATERAL (CONNECT WITH AN 8"X1" TAPPING SADDLE, A 1" CORP. AND BEND EXISTING PIPE INTO NEW CORP.) (NOTED ON DRAWING AS SL2)	EACH	5		\$ 1,000.00	\$ -
174	15013	CONNECT 1-1/4" COPPER SERVICE LATERAL (CONNECT WITH AN 8"X1-1/4" TAPPING SADDLE, A 1-1/4" CORP. AND BEND EXISTING PIPE INTO NEW CORP.) (NOTED ON DRAWING AS SL3)	EACH	3		\$ 1,100.00	\$ -
175	15014	CONNECT 1" COPPER SERVICE LATERAL (CONNECT WITH AN 8"X1" TAPPING SADDLE, A 1" CORP., ~6' OF 1" PE(CTS) PIPE AND A 1" STRAIGHT COUPLING) (NOTED ON DRAWING AS SL4)	EACH	3		\$ 1,500.00	\$ -
176	15015	CONNECT 2" COPPER SERVICE LATERAL (CONNECT WITH AN 8"X2" TAPPING SADDLE, A 2" CORP., ~6' OF 2" PE(CTS) PIPE AND A 2" STRAIGHT COUPLING) (NOTED ON DRAWING AS SL5)	EACH	1		\$ 2,000.00	\$ -

177	15016	CONNECT 1" OR 3/4" SERVICE LATERAL (CONNECT WITH A DIRECT TAP USING A 1" CORP., ~35' OF 1" PE(CTS) PIPE AND A 1" OR A 1"X3/4" STRAIGHT COUPLING) (NOTED ON DRAWING AS SL6)	EACH	6		\$ 5,000.00	\$ -	
178	15017	CONNECT 1" OR 3/4" SERVICE LATERAL (CONNECT WITH DIRECT TAP USING A 1" CORP., ~55' OF 1" PE(CTS) PIPE AND A 1" OR A 1"X3/4" STRAIGHT COUPLING) (NOTED ON DRAWING AS SL7)	EACH	15		\$ 5,600.00	\$ -	
179	15018	CONNECT 1" OR 3/4" SERVICE LATERAL (CONNECT WITH A DIRECT TAP USING A 1" CORP., ~15' OF 1" PE(CTS) PIPE AND A 1" CURB STOP, ROD AND BOX) (NOTED ON DRAWING AS SL8)	EACH	2		\$ 3,000.00	\$ -	
180	15019	CONNECT 6" SERVICE LATERAL (20"X6" TAPPING SLEEVE AND 6" TAPPING VALVE - PROVIDED BY WWU, ~75' OF 6" D. I. PIPE, (AND IF NEEDED) A 6" - 45° BENDS OR 6" SOLID SLEEVE OR 6"X4" REDUCER) (NOTED ON DRAWING AS SL9)	EACH	1		\$ 28,000.00	\$ -	
181	15020	INSULATION 2' WIDE X 4" THICK - (2) 2" POLYSTYRENE BOARD	LF	100		\$ 60.00	\$ -	
182	15021	FURNISH AND INSTALL CURB BOXES & RODS (IF NEEDED)	EACH	10		\$ 400.00	\$ -	
183	15022	FURNISH AND INSTALL CURB STOP (IF NEEDED)	EACH	10		\$ 400.00	\$ -	
184	15023	ABANDON EXISTING HYDRANT	EACH	3		\$ 500.00	\$ -	
185	15024	ABANDON VALVE BOXES & MANHOLES	LS	1		\$ 250.00	\$ -	
WAUKESHA WATER UTILITY SUBTOTAL:							\$ -	\$ -

Total \$ 6,575,521.31
 Less Retainage \$ 328,776.07

 Total \$ 6,246,745.24
 Less Previously Paid \$ 5,344,765.74

 Total Amount Due \$ 901,979.50

This estimate has been checked by the Engineering Division and we recommend that the above amount of \$901,979.50 be allowed.

Respectfully Submitted,



Fred V. Abadi, PhD., P.E.
 Director of Public Works