Lanesboro Public Utilities Commission Regular Meeting Agenda Monday, June 17, 2024 at 5:30 p.m.

Lanesboro Community Center Meeting Room and Zoom

Zoom is provided as a way to offer more accessibility to council and committee meetings. However, due to potential technical issues, full functionality is not guaranteed

https://us02web.zoom.us/j/82892168693?pwd=YlBPbEpvU3oxK0lNejFaNldFL3ZSQT09

Meeting ID: 828 9216 8693 Passcode: 611594

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Call the Regular Meeting to Order

- A. Agenda Approval
- B. Public Comments
- C. Consent Agenda
 - a. Minutes of Regular Meeting, April 15, 2024
 - b. Financial Summary, May 2024
 - c. Accounts Payable
- D. Staff Update
- E. City Council Update

Continued Business

- A. Lead Service Line Inventory
- B. WWTF Significant Industrial User Agreement
- C. Capital Projects
- D. Semcac Conservation Improvement Program Contract

New Business

- A. 2024 Case 580SN Backhoe Purchase
- B. Commission Meeting Schedule

Miscellaneous

Next Meeting: Monday, July 15, 2024 at 5:30 p.m.

Adjourn Regular Meeting

Lanesboro Public Utilities Commission Regular Meeting Monday, April 15, 2024 Lanesboro Community Center Meeting Room & Zoom

<u>Present</u>			
Members:	X Jon Pieper	Elliot Riggott	X Brian Roelofs
Staff:	X Mitchell Walbridge	X Darla Taylor	X Jerod Wagner
Visitors:	Mindy Albrecht-Benson, B	onita Underbakke, And	y Heimdahl

Regular Meeting:

Member Pieper called the regular meeting to order at 5:30 p.m.

- **A. Public Comments:** No public comments were shared.
- **B. Agenda:** Member Pieper entered a motion to approve the agenda as submitted; Member Roelofs seconded the motion. Motion carried with all in favor.
- C. Consent Agenda:
 - a. Minutes of Regular Meeting, February 20, 2024
 - **b.** Accounts Payable

Member Pieper entered a motion to approve the Consent Agenda; Member Roelofs seconded the motion. Motion carried with all in favor.

- **D.** Staff Update: Public Utilities Supervisor Jerod Wagner shared a staff update.
 - On March 11, 2024 Supervisor Wagner attended a diesel generators operations roundtable in Arcadia, Wisconsin. Discussion was had about air emission permits.
 - On March 15, 2024 Supervisor Wagner attended a preliminary meeting regarding grant opportunities for batteries.
 - The generator was put back together in the past month. It is operating as it should.
 - On April 9, 2024 Supervisor Wagner met with Tom Vagts to discuss energy generation and batteries. There is potential to test the generator at full capacity in the future. Discussion was had to offset energy use during peak usage times by using battery-stored energy.
- **E.** City Council Update: City council member Mindy Albrecht-Benson shared that the city council is considering the terms and conditions for the Highway 250 project as the Minnesota Department of Transportation has sent a Letter of Intent to the City of Lanesboro.

Continued Business:

- **A.** Lead Service Line Inventory: No updates were available.
- **B. WWTF-Industrial User Agreement:** City administration is waiting on the final draft from the city attorney.
- C. Capital Projects:
 - a. Land Application: Member stated this could be removed from the agenda.
 - **b.** Electric Meter Replacement: All meters have been replaced except for the 3-phase meters which will be done in the near future.

New Business:

A. Semcac Conservation Improvement Program Contract: City Administrator Walbridge shared that the contract with Semcac is due for renewal. Administrator Walbridge asked members to consider renewal with the understanding that there are administrative fees associated with the services provided for Semcac's Conservation Improvement Program. Member Pieper entered a motion to not renew the contract with Semcac; Member Roelofs seconded the motion. Members explained there is a fund balance of more than what the annual budget shows for conservation improvement. Administrator

Draft 04/16/2024

Walbridge will verify what is left in the conservation improvement fund balance and will inform members at the next meeting. Member Pieper rescinded his motion and entered a new motion to table the contract consideration; Member Roelofs seconded the motion. Motion carried with all in favor.

Miscellaneous:

- Council member Albrecht-Benson asked if the current meeting time worked for members as member Riggott was absent. Administrator Walbridge will ask Member Riggott if the current meeting time is compatible with his schedule or if the meeting time should be rescheduled.

Member Pieper entered a motion to adjourn the meeting; Member Roelofs seconded the motion. Motion carried with all in favor. The meeting was adjourned at 5:55 p.m.

Respectfully submitted,

Mitchell Walbridge City Administrator/Clerk

Current Period: June 2024

Payments Batch 06152024PAY \$51,46	9.34			
Refer 425251 WAGNER, JEROD G	_			
Cash Payment E 640-60400-135 Employer Paid Other Invoice				\$25.00
Cash Payment E 620-60200-135 Employer Paid Other Invoice				\$12.50
Cash Payment				\$12.50
Invoice Transaction Date 5/31/2024	Checking	10101	Total	\$50.00
Refer 425252 NORBY, JEFF				
Cash Payment E 640-60400-135 Employer Paid Other Invoice				\$25.00
Cash Payment E 620-60200-135 Employer Paid Other Invoice				\$12.50
Cash Payment E 610-60100-135 Employer Paid Other Invoice				\$12.50
Transaction Date 5/31/2024	Checking	10101	Total	\$50.00
Refer 425253 S & A PETROLEUM	·			
Cash Payment E 640-60400-212 Motor Fuels Invoice				\$210.68
Cash Payment E 620-60200-212 Motor Fuels Invoice				\$105.35
Cash Payment E 610-60100-212 Motor Fuels Invoice				\$105.35
Transaction Date 5/31/2024	Checking	10101	Total	\$421.38
Refer 425254 VIS PLUMBING & HEATING				
Cash Payment E 610-60100-404 Repairs/Maint Machine Invoice	Г		-	\$289.78
Transaction Date 5/31/2024	Checking	10101	Total	\$289.78
Refer 425255 ACENTEK				
Cash Payment E 640-60400-321 Telephone Invoice				\$110.01
Cash Payment E 620-60200-321 Telephone Invoice				\$112.41
Cash Payment E 610-60100-321 Telephone				\$148.07
Transaction Date 5/31/2024	Checking	10101	Total	\$370.49
Refer 425256 PRAXAIR	4			
Cash Payment E 610-60100-210 Operating Supplies (GE Invoice 43283041				\$37.17
Transaction Date 6/4/2024	Checking	10101	Total	\$37.17
Refer 425257 MOTOR PARTS & EQUIPMENT INC	Ē			
Cash Payment E 640-60400-404 Repairs/Maint Machine Invoice				\$31.25
Cash Payment E 620-60200-404 Repairs/Maint Machine Invoice	r			\$15.63

Current Period: June 2024

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Cash Payment E	610-60100-404	Repairs/Maint Machiner				\$15.63
Transaction Date	6/4/2024		Checking	10101	Total	\$62.51
Refer 425258	B CORE & MAIN		8			
		Repairs/Maint Structure	-			\$4,648.42
Invoice U955457					-	
Transaction Date	6/4/2024		Checking	10101	Total	\$4,648.42
Refer 425259	9 MN DEPT OF	REVENUE	Ck# 038847E 6/5/2024	4		
Cash Payment E	640-60400-450	Sales Tax Paid				\$3,512.00
Invoice						
Transaction Date	6/5/2024		Checking	10101	Total	\$3,512.00
Refer 425260	NINGSLEY ME	ERCANTILE				
Cash Payment E	620-60200-210	Operating Supplies (GE				\$36.99
Invoice						
Transaction Date	6/5/2024		Checking	10101	Total	\$36.99
Refer 42526	1 LANESBORO	PUBLIC UTILITIES	2			
Cash Payment E	610-60100-380	Utility Services (GENER	}			\$183.91
Invoice Cash Payment E	610-60100-380	Utility Services (GENER	₹			\$110.24
Invoice						
Cash Payment E	610-60100-380	Utility Services (GENER	2			\$104.49
	610-60100-380	Utility Services (GENER	R			\$240.41
Cash Payment E	610-60100-380	Utility Services (GENER	ł			\$1,456.97
Invoice Cash Payment E	610-60100-380	Utility Services (GENER	?			\$198.35
Invoice						#005 05
Cash Payment E Invoice	640-60400-380	Utility Services (GENER	R			\$665.85
Cash Payment E	610-60100-380	Utility Services (GENER	₹			\$213.89
Cash Payment E	620-60200-380	Utility Services (GENER	R			\$2,056.23
Invoice			0111	40404	Total	₱
Transaction Date	6/5/2024		Checking	10101	Total	\$5,230.34
		SK ADMINISTRATORS	-			0045.00
Cash Payment E Invoice	640-60400-150	Worker's Comp (GENE				\$815.88
Cash Payment E	620-60200-150	Worker s Comp (GENE				\$407.94
Cash Payment E	610-60100-150	Worker s Comp (GENE				\$407.94
Invoice	0.12.12.00		Observices	40404	Total	£1 621 76
Transaction Date	6/5/2024		Checking	10101	, Otal	\$1,631.76
	3 BOLTON & MI		÷ 1			¢3 /06 EE
Cash Payment E Invoice 0337074	: 422-60200-303	Engineering Fees				\$3,486.55
Transaction Date	6/6/2024		Checking	10101	Total	\$3,486.55

Current Period: June 2024

Refer 425264 MIENERGY COOPERATIVE	-			
Cash Payment E 640-60400-260 Meter Hosting & Monit	or			\$280.00
Invoice				
Cash Payment E 640-60400-218 Purchased Power				\$21,296.43
Invoice				
Transaction Date 6/6/2024	Checking	10101	Total	\$21,576.43
Refer 425265 SMITH SCHAFER & ASSOCIATES, L				
Cash Payment E 640-60400-301 Auditing and Acct g Se	er			\$250.00
Invoice 31413				
Cash Payment E 620-60200-301 Auditing and Acct g Se	er			\$125.00
Invoice 31413				\$125.00
Cash Payment E 610-60100-301 Auditing and Acct g Se	er er			\$125.00
Invoice 31413	Checking	10101	Total	\$500.00
Transaction Date 6/6/2024	Checking	10101		Ψ500.00
Refer 425266 GOPHER STATE ONE-CALL	i .			#05.05
Cash Payment E 640-60400-438 Gopher One Locates				\$25.65
Invoice 4050533		10101	Total	#05.05
Transaction Date 6/7/2024	Checking	10101	Total	\$25.65
Refer 425267 MN PEIP	(5)			
Cash Payment G 640-21708 Health Insurance				\$1,691.54
Invoice				C045 77
Cash Payment G 620-21708 Health Insurance				\$845.77
Invoice Cash Payment G 610-21708 Health Insurance				\$845.77
Invoice				φο το γ
Transaction Date 6/7/2024	Checking	10101	Total	\$3,383.08
Refer 425268 ZEP MANUFACTURING COMPANY				
Cash Payment E 620-60200-210 Operating Supplies (G	_			\$445.22
Invoice 9009848883	· _			
Transaction Date 6/7/2024	Checking	10101	Total	\$445.22
Refer 425269 UMMEG				
Refer 425269 UMMEG Cash Payment E 640-60400-218 Purchased Power				-\$1,983.08
Invoice 2867				* .,
Cash Payment E 640-60400-218 Purchased Power				\$6,096.00
Invoice 6794				
Cash Payment E 640-60400-218 Purchased Power				\$1,563.56
Invoice 6807			÷5	
Transaction Date 6/7/2024	Checking	10101	Total	\$5,676.48
Refer 425270 MINNESOTA DEPT. OF COMMERC				
Cash Payment E 640-60400-439 Conservation Improve				\$35.09
Invoice 1000051771				
Transaction Date 6/10/2024	Checking	10101	Total	\$35.09

Current Period: June 2024

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422 WWTF DESIGN

610 WATER FUND

620 SEWER FUND 640 ELECTRIC FUND 10101 Checking \$3,486.55 \$9,156.39 \$4,175.54 \$34,650.86 \$51,469.34

Pre-Written Checks

Checks to be Generated by the Computer

\$3,512.00 \$47,957.34

Total

\$51,469.34

Department		2024 Budget		January	- 1	February	8	March		April	979	May		YTD Total	% of Budget
Fund 410 WATER CAPITAL		DANISH NO.	11			-346									- C - 1
R 410-60100-37740 Cell Tower Rental Fee	\$	55,000.00	\$	4,698.38	\$	6,220.27	\$	3,176.49	\$	5,028.68	\$	3,182,97	\$	22,306.79	40.56%
Tota	1 \$	55,000.00	\$	4,698.38	\$	6,220.27	\$	3,176.49	\$	5,028.68	\$	3,182.97	\$	22,306.79	40.56%
Fund 440 ELECTRIC CAPITAL									N.					AND LEAVE	42.7404
R 440-60400-37414 Green Power	\$	2,200.00	\$	196,49		176,12		202.78	\$		\$	209.16	\$	961,55	43.71%
Total	\$	2,200.00	\$	196.49	\$	176.12	\$	202.78	\$	177.00	\$	209.16	\$	961.55	43.71%
Fund 610 WATER FUND							-		17.40					10.001.50	36,97%
E 610-60100-101 Wages and Salaries (GENERAL)	\$		\$		\$	3,375,84	\$	3,311.59	\$		\$	3,379.54		18,601,58	36.96%
E 610-60100-121 PERA	\$	3,774.04	\$		\$	253,15	\$	248,35	\$	250.16	\$	253.46	\$	1,395.00	27.47%
E 610-60100-122 FICA	\$	5,032.06	\$	388,87		250.06	\$	245.10	\$	247.98	\$	250,32	\$	1,382.33 3,430.37	37.22%
E 610-60100-131 Employer Paid Health	\$	9,216.50	\$	705.01	\$	699.50	\$		\$	646,50	\$	700,11	\$	165.22	38.88%
E 610-60100-134 Employer Paid Life	\$	425.00	\$	9.0	\$	55.07	\$	27.54	_	35.00		82,61	\$	125,00	33.33%
E 610-60100-135 Cell Phone	\$	375.00	\$	25.00	\$	25.00	\$	25.00	\$	25.00	\$	25,00	\$	123,00	0.00%
E 610-60100-150 Worker s Comp (GENERAL)	\$	885.00	\$	550	\$	8	\$	•	\$	156.53			\$	156.52	12.52%
E 610-60100-208 Training and Instruction	\$	1,250.00	\$		\$		\$	277.05	\$	156.52	\$	151.99	\$	2,330,01	30.16%
E 610-60100-210 Operating Supplies (GENERAL)	\$	7,725_00	\$	373.65	\$	1,490.86	\$	277.05	\$	36.46	\$	131.33	\$	229.08	26.95%
E 610-60100-212 Mator Fuels	\$	850.00	\$	**	\$	93,59	\$	2 617 15	\$	135.49	ŝ	-	\$	3,617.15	65.77%
E 610-60100-216 Chemicals and Chem Products	\$	5,500.00	\$		\$		\$	3,617.15	\$		\$:: :-	\$	3,017.13	0.00%
E 610-60100-219 Lab Tests	\$	500.00	\$	(2)	\$		\$		\$	-	\$	2	Ś	100	0.00%
E 610-60100-239 Clothing Allowance	\$	330.00	\$	3	\$		\$		\$		\$		\$		0.00%
E 610-60100-240 Small Tools and Minor Equip	\$	2,143.22	\$	300	\$	*	\$	107.44		107.60	\$		\$	415.95	11.88%
E 610-60100-300 Professional Srvs (GENERAL)	\$		\$	53,69	\$	102,44	\$	102.44	\$ \$	103.69	\$	53,69 1,400.00	\$	3,125.00	111.61%
E 610-60100-301 Auditing and Acct g Services	\$	2,800.00	\$	33	\$	330.00	\$		\$	1,725.00	\$	382.50	\$	712,50	14.25%
E 610-60100-303 Engineering Fees	\$	5,000.00	\$	242.22	\$	330.00	\$	1 137.00		2.2	\$	400.00	\$	1,769,33	48.12%
E 610-60100-311 Membership Dues	\$		\$	242.33	\$	140 47	\$	1,127.00	\$ \$	148.97	\$	147.37	\$	753,15	35.86%
E 610-60100-321 Telephone	\$	2,100,00	\$	149.37	\$	148.47	\$	158.97 112.38	\$	75.38	\$	193.98	Ş	532.87	36,75%
E 610-60100-322 Postage	\$		\$	75.38	\$	75.75	\$	112,38	\$	/3.30	\$	155,56	\$	332,07	0.00%
E 610-60100-331 Travel Expenses	\$	206,00	\$		\$		•	2	Ś	4	\$	22	Ś	757	0.00%
E 610-60100-350 Print/Binding (GENERAL)	\$	206,00	\$	4 225 24	\$		\$		\$		\$		Ś	1,335.31	72.02%
E 610-60100-361 General Liability Ins	\$	1,854,00	\$	1,335.31	\$		\$	*	\$		\$		Ś	8,739.00	91.99%
E 610-60100-362 Property Ins	\$	9,500.00	\$	8,739.00	\$	2	\$	#: #2	Ś	360	Ś	57 54	Ś	218.00	101.40%
E 610-60100-363 Automotive Ins	\$	215.00	\$	218.00	\$	2 670 25	\$	3,279.67	Ś	3,295,08	\$	2,966.78	Ś	16,030,66	32.06%
E 610-60100-380 Utility Services (GENERAL)	\$		\$	2,809.78	\$	3,679.35		3,2/3.0/	\$	3,233,00	\$	2,300.78	\$	175.00	3,33%
E 610-60100-402 Repairs/Maint Structures	\$	5,253.00	\$	53.00	\$	175.00	\$	** Si	ŝ	220 220	\$	92,15	\$	449.28	8.72%
E 610-60100-404 Repairs/Maint Machinery/Equip	\$	5,150,00	\$	57.00	\$	300.13	\$		\$	940	\$	32,13	\$		0.00%
E 610-60100-410 Rentals (GENERAL)	\$	103.00	\$	31.25	\$	**	\$	53	Ś		\$		\$	21.25	10.12%
E 610-60100-430 Miscellaneous (General)	¬ \$	210.00	\$	21.25	\$	54,050.00	\$	76 45	7		~		Ś	54,050,00	292.16%
E 610-60100-500 Capital Outlay (GENERAL)	\$ \$		\$		Ś	11,295.00	\$	27					Ś	11,295.00	50.00%
E 310-60100-611 Bond Interest	\$	97,000.00	\$		Ś	11,255.00	Ś						Ś	9	0.00%
E 310-60100-601 Debt Srv Bond Principal	ە د ب		7	250	~		•						\$	*	0.00%
Vehicle Replacement Transfer to General Fund:	7	30,004,10													
Aubum/Zenith Road Project	Ś	14,897.00											\$	22	0.00%
Wages and Benefits - Administration	Ś	21,256.53											\$	±8	0.00%
Subtot		. 90	\$	20,782.55	\$	76,399.21	\$	13,211.49	\$	10,181.81	\$	10,479.50	\$	131,054.56	33.57%
R 610-60100-36210 Interest Earnings	Ś	3,000.00	s	458.17			\$	516.47	\$	536,46			\$	1,971,09	65.70%
R 610-60100-37110 Residential Water	Ś	64,479.80	s		\$	4,741.80	\$	4,938.61	\$	4,552.85	\$	5,174.01	S	25,066.66	38.88%
R 610-60100-37111 Commercial Water	Ś	100,000.00	s	6,527.50		3,204.89	\$	3,577.84	\$	4,010.62	\$	4,318.65	\$	21,639.50	21.64%
R 610-60100-37114 State Water Fee	,	,	s	7,85		1.14	\$	4.25	\$	1,30	\$	1,99	\$	16,53	
R 610-60100-37160 Water Penalty			S	19.05	\$	9,01	\$	52.36	\$	19.25	\$	75,98	\$	175,65	
R 610-60100-36200 Miscellaneous Revenues			s	241	s	1,342,07	\$	45	\$	401.48	\$	(80)	\$	1,743,55	
R 310-60100-37112 Water Base Charge	\$	196,140.00	\$	18,180.05	5	16,896.45	\$	17,806.19	\$	17,121.22	\$	18,162,31	\$	88,166.22	44.95%
Subtob	_		\$	30,852.01	5		\$		\$	26,643.18	\$	27,732.94	\$	138,779.20	38.17%
Fund 620 SEWER FUND	1		10		r.	- 100		17.96							
E 620-60200-101 Wages and Salaries (GENERAL)	\$	50,320,60	\$	5,199.03	\$	3,375.84	\$	3,311.59	\$	3,335.58	\$	3,379.54	5	18,601.58	36.97%
E 620-60200-121 PERA	\$	3,774.04	\$	389.88		253.15	\$		\$	250,16	\$	253.46	\$	1,395.00	36.96%
E 620-60200-121 FERA E 620-60200-122 FICA	\$		\$	388,87			\$		\$	247.98	\$	250.32	\$	1,382,33	27.47%
E 620-60200-131 Employer Paid Health	\$		\$	705.01	\$	699,50	\$	679.25	\$	646,50	\$	700.11	\$	3,430.37	37.22%
E 620-60200-131 Employer Paid Friedlich	ŝ	555.00	\$	9.	\$	55,07	s	27,54			\$	82.61	\$	165.22	29.77%
E 620-60200-135 Cell Phone	Ś	375.00	\$	25.00	\$	25.00	\$		\$	25.00	\$	25.00	s	125.00	33.33%
E 620-60200-135 Cell Prione E 620-60200-150 Worker's Comp (GENERAL)	\$	895.00	\$	25.00	\$	-	Š	- 5					\$	23	0.00%
	\$		\$	100.00	\$	8	Š		\$	133.52			\$	233,52	7.56%
E 620-60200-208 Training and Instruction	\$	4,500.00	\$	17.80	\$	698.34	Š	902.46	-		\$	166.03	\$	1,784.63	39.66%
E 620-60200-210 Operating Supplies (GENERAL)	\$		\$	17,80	\$	93,59	Š		\$	135,49	•		s	229,08	30.54%
E 620-60200-212 Motor Fuels	\$	500.00	\$	320	\$	وديد	S	*1	•				s		0.00%
E 620-60200-213 Lubricants and Additives	\$	4,600.00	\$		\$	2	S	-					5	*	0.00%
E 620-60200-216 Chemicals and Chem Products	\$	5,150.00	\$	30	\$	8	s	1,450.00					\$	1,450.00	28,16%
E 620-60200-230 Permit Fees	\$	330.00	\$	(4).	ŝ		S	1,450.00					5	**	0.00%
E 620-60200-239 Clothing Allowance					\$	8	5	a/					s	÷)	0.00%
E 620-60200-240 Small Tools and Minor Equip	\$	642,97	\$	157.02	\$	697.68	S	532.54	\$	210,99	Ś	625,38	5	2,223,62	10.77%
E 620-60200-300 Professional Srvs (GENERAL)	\$		\$	157.03	\$	697,68	s	332,34	\$	1,725.00		1,400.00		3,125.00	111.61%
E 620-60200-301 Auditing and Acct g Services	\$		\$		\$	8	S		\$		\$	382.50	5	742.50	13.86%
E 620-60200-303 Engineering Fees	\$		\$	110.06		110.96	A)		\$		\$	111.01	0.00	556.80	43.30%
															36.23%
				/5,38		/5./5			Þ	12,38	J	130,30		432,27	0.00%
				87			500							-	0.00%
E 620-60200-321 Telephone E 620-60200-322 Postage E 620-60200-331 Travel Expenses E 620-60200-350 Print/Binding (GENERAL)	\$ \$ \$	1,248,48 206.00	\$ \$ \$	110.96 75.38	\$ \$	110.86 75.75	\$ \$ \$	111.86 75.38	\$	75,38		150,38	\$ \$ \$	452.27	

Separation Sep																
Exemple	E 620-60200-361 General Liability Ins		\$ 500.00	Ś	155.31	Ś		Ś						Ś	155.31	31.06%
Controlled State Professor (Controlled State S							500									346.09%
Exercised Plane Performance	E 620-60200-363 Automotive Ins	9	\$ 1,765.00	\$	1,916.50	\$::::::::::::::::::::::::::::::::::::::	\$						\$	1,916.50	108.58%
CEMPORNOMEN INTERVINENCIA \$ 0.000.0					1,481.43		2,398.27		2,003.07	\$	1,960.57	\$	2,248.28	\$	10,091.62	16.82%
CERONICHION S	• •				*			-								0.00%
Exposition Section S						•			650.80					-		12.48%
Separation Sep					-											0.00% 10.32%
Base					21,23	•			8					Þ	21.25	10.32%
Exemption					*	•	19.175.36							5	19.175.36	37.90%
Magnification Seed Interest.							36		2						,	0.00%
Manuface S. 1877.00 S. 1877.00 S. 1878.00 S. 187	Transfer to General Fund:															
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		Subtotal	\$ 1,079,202.95	\$								23				39.21%

The City of Lanesboro Conservation Improvement Program For

Low-Income Participants

This Agreement is between SEMCAC, a Community Action Agency and the City of Lanesboro ("THE CITY"), a municipality organized under the laws of the State of Minnesota, including its Utilities Commission.

WITNESSETH:

WHEREAS, SEMCAC is a non-profit agency in the business of providing energy efficiency services to low-income residents of Minnesota; and the City, through its municipality and utilities commission, provides energy to its customers.

WHEREAS, SEMCAC performs Weatherization services for low-income customers in the City's service territory; and replaces existing inefficient room air conditioners, refrigerators, and/or clothes washers with new ENERGY STAR® rated appliances, and/or installs microwave ovens and/or ENERGY STAR LED light bulbs where none already exist.

WHEREAS, the City and SEMCAC desire to contract for the performance of certain appliance replacement services in Minnesota by SEMCAC, as specified in Article I set forth below, and upon the terms and conditions of this Agreement (the "Services").

NOW THEREFORE, for the mutual covenants contained herein and other good and valuable consideration, the parties agree as follows:

ARTICLES

I. Scope of Work

A. Introduction

SEMCAC will carry out the work described in Article I.C. Participants in the City's utility Low-Income Program must receive their electric utility service exclusively from the City's Utility and must meet the low-income eligibility as defined in the current Department of Energy State Plan ("State Plan") submitted by the State of Minnesota.

All Services will be in compliance with Federal Regulation 10 CFR 440 and any other applicable local, state and federal laws, rules or regulations. SEMCAC warrants and represents to the City that the Services provided will be performed by qualified and competent personnel in accordance with industry practice and the high standards of care and practice appropriate to the nature of the Services rendered, that the equipment supplied will meet the equipment and other specifications provided herein or by the City, and the Services will be fit for the particular purpose intended by the City, and be free from defects.

SEMCAC will document all Services performed hereunder according to data collection requirements described in Article I.D.

B. Consumer Selection and Participation

1. Qualifying customers:

Qualifying low-income customers must reside in an owner-occupied residence or occupy a rental property and own the appliances.

- 2. The suggested order of ranking:
- a. Owner-occupied residence
- b. Consumers with highest electrical usage
- c. Senior citizens over the age of 60
- d. Handicapped consumers
- e. Families with children under the age of six
- f. Renters that own the appliances

SEMCAC will use its best efforts to prioritize those homes in the order they appear on the priority list; beginning with the top-ranked home, inasmuch is feasible and practical in SEMCAC's reasonable judgment.

SEMCAC will also use its best efforts to prioritize by the following rank/order appliances to be replaced within the home when more than one Energy Efficiency Measure (EEM) exists:

- a. LED Light Bulbs (LEDs)
- b. Efficient Furnace Fan Motor
- c. Refrigerator
- d. Microwave oven
- e. Room air conditioners
- f. Clothes washer

C. Energy Efficiency Measures to be implemented

SEMCAC will ensure that the following Energy Efficiency Measures ("EEMs") will be added to the Services performed, where applicable, feasible and allowed by the consumer. The City's utilities will fund the cost of performing or installing these EEMs according to Article II of this Agreement.

a. LED Light Bulbs (EEM) LEDs will be given to eligible participants who 1) receive electric City from the City's Utility and 2) agree to have the LEDs installed in high usage areas (minimum average usage of 3 hours/day). SEMCAC will contact the City's Utility or the City to make arrangements for pick-up or delivery of the ENERGY STAR qualified LEDs to be installed at the consumer's residence before purchasing them

from a local distributor. The existing incandescent lights will be removed and properly recycled. This service will be done with the consumer's knowledge.

- b. Natural Gas Furnace Fan Motor Replacement (EEM) An electronically commutated motor (ECM) or equivalent will be installed in an existing natural gas furnace for eligible participants who 1) receive electric from the City's Utility, 2) agree to have their old, working furnace blower motor replaced by a qualified contractor. SEMCAC will work with an HVAC contractor to obtain the best price for an ECM or equivalent furnace fan motor to be installed in the consumer's residence. The existing blower motor will be removed by the contractor for the agreed purchase price. This service will be done with the consumer's knowledge.
- c. Refrigerator Replacement (EEM) A refrigerator will be given to eligible participants who 1) receive electricity from the City's Utility, 2) agree to have their old, working refrigerator removed and properly recycled by a contractor, and 3) agree to have the new refrigerator professionally installed by a contractor. SEMCAC will work with a local contractor to obtain the best price for an ENERGY STAR rated refrigerator to be installed at the consumer's residence. The existing unit will be removed and properly recycled by the contractor for the agreed purchase price. This service will be done with the consumer's knowledge.
- d. *Microwave Oven (BEM)* A microwave unit will be given to eligible participants who 1) receive electricity from the City's Utility, 2) have an existing electric cooking stove and 3) do not have an existing microwave unit. SEMCAC will work with a local distributor to obtain the best price for an appropriate sized microwave unit to be placed in the consumer's residence. This service would be done with the consumer's knowledge.
- e. Room Air Conditioner (RAC) Replacement (EEM) A room air conditioner will be given to eligible participants who 1) receive electric from the City's Utility, 2) agree to have their old, working room air conditioner(s) removed and properly recycled by a contractor, and 3) agree to have the equipment professionally installed by a contractor. SEMCAC will work with a local contractor to obtain the best price for an ENERGY STAR room air conditioner to be installed at the consumer's residence. The existing unit will be removed and properly recycled by the contractor for the agreed purchase price. Up to two working room air conditioners will be replaced per household. This service will be done with the consumer's knowledge.
- f. Clothes Washer Replacement (EEM) A clothes washer will be given to eligible participants who 1) receive electric from the City's Utility, 2) agree to have their old, working clothes washer removed and properly recycled by a contractor, and 3) agree to have the new clothes washer professionally installed by a contractor. SEMCAC will work with a local distributor to obtain the best price for an ENERGY STAR Most Efficient 2016 qualified or Consortium for Energy Efficiency (CEE) Tier 3 model clothes washer to be placed in the consumer's residence. The existing unit will be removed

and properly recycled by the contractor for the agreed purchase price. This service will be done with the consumer's knowledge.

D. Data Collection

SEMCAC will provide the data necessary to evaluate the annual energy saved, the peak demand reduced, and the cost to obtain those savings and reductions. This will include all receipts/purchase orders of the measures/equipment paid for by SEMCAC and those paid for by the City. SEMCAC will provide survey data of homes with potential appliances to be replaced in the future. SEMCAC will supply reasonable requests for data from the City in a reasonable time.

Existing appliances should be a minimum of ten (10) years old and in working condition to qualify for replacement, and be recycled in compliance with all environmental regulations. SEMCAC will provide replacement appliance age(s) to confirm that old equipment qualifies for replacement. Auditors will have the discretion whether old appliances are to be replaced based on a) visual observation of the particular unit, b) the model number of the appliance, c) use of National Energy Audit Tool (NEAT) software or d) data-logger.

II. Compensation

A. The City's Utilities will fund according to Table A below for the period from March 1, 2023 to December 31, 2023. <u>SEMCAC will verify funds are available prior to proceeding with the project.</u>

Table A

City of Lanesboro	Budget
Lanesboro City Office, PO Box 333, 202 Parkway Ave S, Lanesboro, MN 55949	\$6,423

- a. There is a maximum of five (5) EEM measures per customer.
- b. The City's utility cost to be itemized to show administrative charges, equipment cost, recycling/disposal fee, and other costs.
- Administration fees to be a \$50 minimum and not to exceed 15% of the City's utility cost for each customer.
- d. SEMCAC to provide a description of Services performed and measures installed.
- e. Funding not to exceed budgeted amount per utility without prior approval by the City and the City's utility.
- f. SEMCAC to administer all transactions including purchase of appliances.

B. Energy Efficiency Measure Requirements

1. LED Light Bulb Requirements:

- ENERGY STAR rated LED bulb to be placed in <u>high usage interior</u> areas of owner-occupied residence (minimum average usage of 3 hours/day).
- b. Replace a minimum of four (4) and maximum of ten (10) 60W minimum incandescent light bulbs with LED bulbs of equivalent light output.
- c. Contact the City's utility or the City to make arrangements for pick-up or delivery of LEDs before purchasing LEDs from local distributors.
- d. Maximum \$7 per LED, not to exceed actual purchase price, up to a maximum amount of \$70 per household (maximum 10 LEDs).

LEDs in Air Conditioned Spaces:

Annual Energy Savings = LED Wattage x 938 hours x 0.003053 Annual Bill Reduction = Annual Energy Savings x \$0.10/kWh

LEDs in Non-Air Conditioned Spaces:

Annual Energy Savings = LED Wattage x 938 hours x 0.00284 Annual Bill Reduction = Annual Energy Savings x \$0.10/kWh

Savings Example (non-air conditioned space):

Annual Energy Savings = 8.5 Watt LED x 938 hours x 0.00284 = 23 kWh Annual Bill Reduction = 23 kWh x \$0.10/kWh = \$2.30

(Data Source: State of MN — 2015 CIP Technical Reference Manual)

2. Efficient Furnace Fan Motor Requirements:

- a. Replacement of furnace fan motor must be for owner-occupied residences. ,
- Existing natural gas furnace must be no more than ten (10) years old and in working condition; and existing motor must not be an electronically commutated motor (ECM) or equivalent.
- c. New furnace fan motor must be an ECM or equivalent, and <u>HVAC contractor must</u> provide manufacturer documentation showing that the new motor is an ECM or equivalent.
- d. \$500 maximum amount for new efficient furnace fan motor including administrative charges, ECM motor and installation costs, and other costs.

Maximum amount may only be exceeded with written approval by the City and the City's utility.

Energy Savings (with existing Central AC) = 732 kWh Annual Bill Reduction = $732 \text{ kWh} \times \$0.10/\text{kWh} = \73.20

Energy Savings (no existing Central AC) = **644 kWh** Annual Bill Reduction = 644 kWh x \$0.10/kWh = \$64.40

(Data Source: State of MN —2015 CIP Technical Reference Manual)

3. Refrigerator Requirements:

- a. Replacement of refrigerator, for <u>owner-occupied</u> residences, that are at least ten (10) years old and in working condition.
- b. New refrigerator must be ENERGY STAR rated of equal or lesser by their City.
- c. Replaced refrigerators must be recycled in compliance with all environmental regulations.
- d. \$1600 maximum amount for refrigerator replacement including administrative charges, appliance cost, recycling fee, and other costs. Maximum amount may only be exceeded with written approval by the City and the City's utility.

Annual Energy Savings: 130 kWh

Annual Bill Reduction: 130 kWh x \$0.10/kWh = \$13.00

(Data Source: State of MN — 2015 CIP Technical Reference Manual)

4. Microwave Oven Requirements:

- a. Microwave to be given only for owner-occupied residences or renters that own the appliances.
- b. \$125 maximum amount for new microwave including administrative charges, equipment cost and other costs. Maximum amount may only be exceeded with written approval by the City and the City's utility.
- c. Customers must own an existing electric cooking stove and not have an existing microwave unit.

Annual Energy Savings = 357 kWh (510 kWh electric stove @ 70%) - 143 kWh microwave = 214 kWh

Annual Bill Reduction = 214 kWh x \$0.10/kWh = \$21.40 (Data Source: ESource)

5. Room Air Conditioner (RAC) Requirements:

- a. Replacement room air conditioners must be for owner-occupied residences or renters that own the appliances.
- b. Old room air conditioner must be at least 10 years old and in working condition.
- c. New room air conditioners must be ENERGY STAR rated.
- d. Limit of two working room air conditioners will be replaced per household.
- e. \$500 maximum amount for each room air conditioner replacement including administrative charges, equipment cost, recycling fee and other costs. Maximum amount may only be exceeded with written approval by the City and the City's utility.
- f. Replaced RAC must be recycled in compliance with all environmental regulations.

Annual Energy Savings will be calculated as specified in the State of MN's 2015 CIP Technical Reference Manual using the style, rated cooling by the City, and rated efficiency of the new unit, along with the deemed cooling hours for the respective utility.

Annual Bill Reduction = Annual Energy Savings x \$0.10/kWh

Savings Example:

New 12,000 BTU ENERGY STAR RAC, louvered sides, 13 EER, located in Preston Annual Energy Savings = 92 kWh

Annual Bill Reduction = 92 kWh x \$0.10/kWh = \$9.20

6. Clothes Washer Requirements:

- a. Replacement of clothes washer must be for owner-occupied residences,
- b. Old clothes washer must be at least ten (JO) years old and in working condition,
- c. Use Appendix A for referencing serial numbers of major appliance brands to determine ages.
- d. \$1000 maximum amount for a new qualifying clothes washer including administrative charges, appliance cost, recycling/disposal fee and other costs. Maximum amount may only be exceeded with written approval by the City and the City's utility,
- e. New clothes washer must be ENERGY STAR Most Efficient 2016 qualified or a Consortium for Energy Efficiency (CEE) Tier 3 model, Qualifying ENERGY STAR Most Efficient 2016 models can be found at: https://data.uners ly_4:41ky/A4.1tiKe-Specifications/ENERGY-STAR-Most-Efficient-Clothes-Washers/d36s-eh9f. the list of qualifying CEE Tier 3 models is updated monthly and can be found at: http://library.ceel.org/conicnilifying.product-lisis-resideniialekAlies-washers.

Annual Energy Savings will be calculated using the savings algorithms specified in the State of MN's 2016 CIP Technical Reference Manual along with the water heater and clothes dryer fuel type (electric, gas, or unknown) of the respective customer.

Savings Example:

Energy Savings (with gas water heater and electric dryer) = 257 kWh Annual Bill Reduction = $257 \text{ kWh } \times \$0.10/\text{kWh} = \$25.70$

Annual Water Savings = 1,044 gallons

(Data Source: State of MN — 2016 CIP Technical Reference Manual)

C. Method of Payment

The City's utility will pay SEMCAC based on monthly invoices itemizing materials, labor and supplies used on the Project. Copies of receipts/purchase orders will also be provided to verify the costs of the Services actually completed. Each invoice will itemize any applicable sales and/or use taxes. Invoices <u>receipts/purchase orders and data collection reports will be sent to the the City's utility contact person in Table A.</u>

D. Right to Audit

The City has the right to review, audit and verify any information connected with this Agreement at SEMCAC's regular place of business during normal business hours. The City's utility has the right to conduct on-site inspections to verify Services performed and measures installed.

III. Termination

This Agreement will terminate on December 31, 2023; however, all Parties have the right to terminate this Agreement upon thirty (30) days written notice if SEMCAC's performance is not satisfactory to the City, or if the City and SEMCAC are unable to agree on amendments to the Agreement. Upon notice of termination SEMCAC will not begin work on any additional homes and will confer with the City as to the status of homes currently receiving Services. SEMCAC will bill the City's utility after the in-progress Services have been completed.

I. Indemnification

SEMCAC, for itself and the parties SEMCAC contracts with, agrees to assume all risk of loss and to defend, indemnify and hold the City, its officers, employees and agents harmless against any and all claims, liabilities, damages, losses, costs or expenses of whatever nature or character for all injuries or damage of any type to any person or property, including injuries or damage of third parties or employees of both parties and employees of or the parties SEMCAC contracts with pursuant to this Agreement, occasioned wholly or in part by any act or omission of SEMCAC, and the parties SEMCAC contracts with pursuant to this Agreement or of anyone directly or indirectly employed by any of them or for whose acts any of them may be

liable, resulting from or arising out of the referred Services, or any of the activities of SEMCAC, and the parties SEMCAC contracts with pursuant to this Agreement, whether or not such injuries or damage are occasioned in part by the City, its officers, employees or agents.

I. Insurance

SEMCAC will provide and maintain Public Liability and Property Damage Insurance so as to provide protection and indemnification against any and all such claims or suits in connection with the Services performed pursuant to this Agreement. Upon request, SEMCAC will furnish to the City certificates issued by insurance companies showing policies carried and the coverage limits. Coverage must be in accordance with *Minnesota Statutes* Chapter 466 and to the extent of other statutory law (i.e. Workers' Compensation).

VI. Independent Contractor

SEMCAC agrees that it is an independent contractor and will be at all times solely responsible for itself, as well as its employees, agents, and subcontractors as to workmanship, accidents, injuries, wages, supervision and control. The City will exercise only limited supervision of the Services in order to keep itself informed as to the progress thereof. This Agreement may not be altered in any manner so as to change the relationship of SEMCAC from that of independent contractor or to alter SEMCAC's responsibilities, except as required under Article II.F.

VII. Laws

This Agreement will be governed by the laws of the State of Minnesota and venues will be in Dodge, Fillmore and Steele County, Minnesota. Contractor's obligation to perform under this Agreement will remain in effect during the resolution of disputes.

VIII. Amendments

This Agreement contains the entire understanding between the parties and any amendments / waivers must be in writing and signed by both parties. SEMCAC would like to hold this contract with any/all utilities companies that wish to partner with SEMCAC and amendments can be done per job when needed.

SEMCAC

Doug Growt
, Executive Director
CITY OF LANESBORO;

February 21, 2023

Date

BY: Jon Pieper

Attest: Michele Peterson

Jon Pieper, LPU President

Michele Peterson, City Administrator/Clerk

APPENDIX A

General Electric Appliances

This information is provided to assist in finding the *manufacturing date* of GE (USA) built appliances. GE makes Hotpoint, GE, and the American RCA.

The date code is in the letters on your serial number.

Example serial number: LT221102

11'221102 - 1 = month - , June

LT221102 - 1 = year 1986 or 1998

I A' was built June 1998 or June 1986

Date codes - First letter is the month and the second letter is the year.

A = January D = February F = March G = April H = May L = June M = July R = August S = Sept. T = Oct. V = Nov. Z = Dec.

F = 1991, 2003 G = 1980, 1992, 2004 H = 1981, 1993, 2005 L = 1982, 1994,2006 M =

1983, 1995, 2007 R = 1984, 1996, 2008 S = 1985, 1997, 2009 T = 1986, 1998, 2010 V =

1987, 1999, 2011 Z = 1988, 2000, 2012 A = 1989, 2001, 2013 D = 1990 & 2002

Visit http://www.eleetrical-forensies.com/MajorAnpliances/GeDateCodes.html for more information.

This information is provided to assist in finding the *manufacturing date* of GE (Canadian - Cameo) built appliance. Cameo makes Hotpoint, GE Moffat and McClary.

The date code is in the letters on your serial number.

Example serial number: MS731902A

The first 2 letters show the manufacturing date.

MS731902A shows the month made - July

MS731902A shows the year made - 1997

The above appliance with serial # MS731902A was made in July 1997.

H = 1993 and May L = 1994 and June M = 1995 and July R = 1996 and August S = 1997 and Sept. T = 1998 and Oct. V = 1999 and Nov. Z = 2000 and Dec. A = 2001 and January D = 2002 and February F = 2003 and March G = 2004 and April

Frigidaire Appliances

This information is provided to assist in finding the *manufacturing date* of Frigidaire. Frigidaire makes White/Westinghouse, Tappan, Frigidaire, and Kelvinator.

Example #1 serial number:

NF11910958 = NF(manufactured location code and product type code)

NF11910958 = I (made in a year ending in 1, such as 2001 or 2011)

NF11910958 = 19 (made in the 19th week of that year)

If this range looks 10 years old, it was probably made in April of 2001.

Example #2 serial number: LA84501552

LA84501552 = year, this could be 1998 or 2008.1f the appliance looks 10 years old it is probably 1998, otherwise it's probably 2008.

LA84501552 -45 = 45"' week of either 1998 or 2008

Kitchen Aid Appliances

This information is provided to assist in finding the *manufacturing date* of Kitchen Aid. The serial numbers and letters from your <u>model/serial tag</u>, are required.

KA date codes only:

Serial example - XL1601009

Ist # is factory where the product was made.

 $2n^d$ # is the year (J = 1999, K = 2000, L =2001, M = 2002, N =2003, etc.) $3r^d$ & 4^{th} #'s = week produced

XL1601009 = 16' week of 2001 or 2011

Maytag Appliances

This information is provided to assist in finding the manufacturing date of your Maytag built appliance. Maytag owns Maytag Jenn-Air, MagicChef.

Example serial number: 15114672UY

15114672UY - UY is the date code. The first letter is the year - U = 1998. The second letter is the month - Y = November. This appliance was made November of 1998.

Visit http://www.electrical-forensics.com/MajorAppliances/MaytagDateCodes.html for more information.

Whirlpool Appliances

This information is provided to assist in finding the manufacturing date of Whirlpool built appliances.

The date code is in the letter on your model number.

Example model numbers: LRS6233BW1= 1994 or SF367PEYW1.

1986 or

K = 1982 or 2001 L = 1983 or 2002 M

19fi4 or 2003 P = 1985 or 2004 R

2005 S = 1987 or 2006 T = 1988 or 2007 V = 1989 or 2008 W = 1990 or 2009 X

1991 or

2010 Y = 1992 or 2011 A = 1993 or 2012 B = 1994 or 2013 D = 1995 or 2014 E = 1996

or 2015 F= 1997 or 2016 G= 1998 or 2017 H = 1999 or 2018 J = 2000 or 2019

1992 or LE6685XPW1= 1985 or ET22PKXXWO= 1991 or EV150CXKWO = 1982

Electrolux Appliances

This information is provided to assist in finding the manufacturing date of Electrolux built appliances

The date code is in the serial number:

1st and 2nd Alpha Character = Where Manufactured

1st Numeric Character = Last Digit of Year Manufactured

2nd and 3rd Numeric Characters = Week of Year Manufactured

Example: LA81503430 is a refrigerator manufactured in the 15th week (April) of 1



2024 CASE 580SN BACKHOE QUOTE

-Quote based off this specific units build sheet

OLD BUILD SHEET

COMMERCIAL MODEL	580SN 4WD T4 FINAL.	-580SN 4WD T4 FINAL.
MODEL	58SNT4F	-58SN T4 FEAT
REGION	ww	-WORLD WIDE
TRACTION	4WD	-MFD
Base machine price		
QUICK PICKS	463757	-NO QUICK PICK
TRANSMISSION	423061	-4WD Powershift S-Type Trans.
FRONT WHEELS	8201110	-12x16.5, 10PR lug tread
REAR WHEELS	8401140	-19.5LX24, 10PR STD
BACKHOE	423076	-Extendahoe (EHOE)
FRONT BALLAST	423047	-Heavy Front CWT, Extndhoe
BACKHOE CONTROLS	423078	-Pilot Controls w/Power Lift
BACKHOE AUXILIARY HYDRAULICS	423084	-1-way/2-way w/ Pilot Controls
BACKHOE COUPLER	442018	-Mechanical Quick Coupler
BACKHOE BUCKET	423072	-24" Hi-Capacity Bucket
STABILIZER PADS	442056	-Flip Over/Stabilizer Pads Comb
THUMB OPTION	745274	-THUMB OPTION
FRONT VALVE FOR LOADER	747864	-Aux. Hyd. loader w/Pilot Cont
LOADER BUCKET	423049	-Hydraulic Ldr quick attach
ROLLOVER PROTECTIVE	747853	-Cab, 2 Door with Heat and AC

STRUCTURES		
CAB INTERIOR PACKAGE	442083	-Deluxe Cab Package
RADIO OPTION	745273	-BLUETOOTH RADIO
OPERATOR'S SEAT	747897	-Deluxe Air Susp, Cloth - Cab
4WD Drive Shaft Guard	745136	-4WD Drive Shaft Guard
FRONT FENDERS	742803	-Front Fenders
LIGHTS	745243	-Standard Lights
LOCKING DEF COVER	745167	-Locking DEF/Fuel Cover
RIDE CONTROL	423090	-Auto Ride Control
ROTATING BEACON	728758	-Rotating beacon
TOOL BOX RH	747875	-Tool box
COLD START/BATTERIES	423093	-Cold Start Dual Battery
TELEMATICS ON BOARD	745121	-CASE SiteWatch Telematics
TELEMATICS SERVICE	745131	-3yr Advanced Tele Subscription
AXLES	745269	-STD 4WD FRONT AXLE





N1626 Wuensch Road, La Crosse, WI 54601 Business (608) 788-1025 / Cell (608) 667-0876

Email: zachary.wellman@titanmachinery.com

NEW BUILD SHEET:

COMMERCIAL MODEL	580SN 4WD T4 FINAL	580SN 4WD T4 FINAL.
MODEL	58SNT4F	58SN T4 FEAT
REGION	ww	WORLD WIDE
TRACTION	4WD	MFD
Base machine price		
QUICK PICKS	463757	NO QUICK PICK
TRANSMISSION	423062	Powershift H-Type Transmission
FRONT WHEELS	8201110	12x16.5, LUG Tread Tires (2)
REAR WHEELS	8401140	19.5LX24, STD Tire Rear Wheels
BHOE PERFORMANCE PKG	464074	1-WAY OR 2-WAY AUX & EHOE PKG
FRONT BALLAST	423047	Heavy Front CWT, Extndhos
BACKHOE CONTROLS	423078	Pilot Controls w/Power Lift
BACKHOE COUPLER	442018	Mechanical Quick Coupler
BACKHOE BUCKET	423069	24" Universal Bucket
STABILIZER PADS	442056	Flip Over/Stabilizer Pads Comb
THUMB OPTION	745274	THUMB OPTION
LDR PERFORMANCE PKG	464079	RC, CS, 3SPL, HYD CP
LOADER BUCKET	423049	Hydraulic Ldr quick attach
ROLLOVER PROTECTIVE STRUCTURES	747853	Cab, 2 Door with Heat and AC
OPERATOR'S SEAT	745161	Premium Air Susp Heated
RIDE CONTROL	423090	Auto Ride Control
Transport Protection	464957	Transport Protection
FRONT FENDERS	742803	Front Fenders
LIGHTS	745242	LED Light Package
COLD START/BATTERIES	423093	Cold Start Dual Battery
SEVERE COLD WEATHER	745252	Severe Cold Weather
TELEMATICS ON BOARD	480018	CONNECTIVITY 480018
TELEMATICS SERVICE	480026	5YR CUSTOMER 480026
AXLES	745269	STD 4WD FRONT AXLE
ITEM: 0020	QUANTITY: 1	
47959394		DEF Locking Covera





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BUILD SHEET DESCRIPTIONS:

423062: Powershift H-Type Transmission PowerDrive H-Type transmission

- H-Type Auto Shifting with Direct Drive Lock-Up feature standard. Includes automatic 4wd braking. Includes additional Forward-Neutral-Reverse switch on loader joystick
 - 423047: Heavy Front CWT, Extndhoe
 900 lb. counterweight 580N EP
 1100 lb. counterweight 580N and 580SN
- 423078: Pilot Controls w/Power Lift

 Includes Power Lift and Power Boost feature on 580SN,
 580SN WT and 590SN.

BACKHOE COUPLER 20039

442018: Mechanical Quick Coupler

745274:THUMB OPTION

CASE hydraulic Thumb, factory installed directly to EHOE outer section & direct plumbed. Thumb tucks & locks back against EHOE when not in use, includes: 2 replaceable,

high strength, bolt on times w/ two positions for Universal or Hi-Cap buckets. Meshes w/ Bucket teeth on 18" & 24" Bucket.
 Requires EXTENDAHOE
 Requires 2 way Aux Hydraulics

464079: RC, CS, 3SPL, HYD CP Includes bundle 464078 and:

-Hydraulic Ldr Quick Attach - Engage/release attachment from operators seat. ONLY available on 4WD models

Comfort Steer(CS) is Not available on EP models. Ride Control (RC) is Not available on EP models. All bundles for EP model showing CS & RC have CS & RC deducted. This bundle is not available on 2WD models

747853: Cab, 2 Door with Heat and AC Includes two doors, defroster, door activated dome light, four front, four rear, and two adjustable side lights, floor mat, tinted glass, Bluetooth radio, front & rear wiper and fender extensions.

Deluxe Cab Package: Deluxe interior, viscous fan (standard on 580SN and larger), visor and 72 dba sound level.

- 745161: Premium Air Susp Heated
 Premium multi-color, hand stitched cloth, heated air suspension seat. Not for use with ROPS Canopy option
 - 423090: Auto Ride Control For use with 4WD models
 - 745242: LED Light Package
 4 Front, 4 rear and 2 LED side lights

423093: Cold Start Dual Battery
Cold Start option: Dual 850 CCA Batteries, Engine Block
Heater and a heated CCV hose.

This option is recommended for machine start-up and operation at temperatures below 32° F (0° C). Required when ordering Severe Cold weather option 745252.

745252: Severe Cold Weather Includes Hy Tran Ultraction SSL Transmission & Hyd. Fluids, & SAE 0W40 CJ-4 Engine Oil - recommended for machine start-up and operation at temperatures consistently below 0 degrees Fahrenheit.

If ordered, you MUST also order 423093 Dual Batteries/Grid Heater/Engine Block Heater Option for EP. (423093 is standard on N - 590 models)





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580SN

CONSTRUCTION KING BACKHOE LOADER

TIER 4 FINAL CERTIFIED



Later	

Model		FPT FSBFL4138
Emissions Certif	cation	Tier 4 Final
Туре	Dieset 4-stroke	e, Turbocharged
Cylinders		4
Bore/Stroke		3.90 x 4.33 in (99 x 110 mm)
Displacement		207 in ³ (3.4 L)
Fuel injection		ct, high pressure mon reil – HPCR

Fuel	Diesel
Engine speeds*	RPM
Rated speed - full load	2200
Law idle	900 - 1000
High idle – no load	2330 - 2430
Horsepower @ 2200 RPM:	
Gross	97 hp (72 kW)
Net	95 hp (71 kW)

Net					95 hp (7	7
Maximum	torque	0	1400	RPM:		

Gross	334 lb/ft (453 N/m)
Net	333 lb-ft (452 N·m)
Torque rise at rated speed	45% +/- 5%
Radiator:	
Core type	Square wave
Core size area	486 in2 (3 145 cm²)
Rows of tubes	4

4
9 blade suction
19.65 in (499 mm)
1.4:1

Pump operating angle ratings:	
Side to side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable,
	full flow ambridge

NOTE: Tengine speeds w/ standard transmission.
Maets federal emission regulations.
"Viscous fan.

DRIVETRAIN

Transmission – standard: 4F-4R Power Shuttle Synchromesh Transmission manual gear shift, fully synchronized

Gear ratios - Power Shuttle	Forward/Reverse
191	5.603/4.643
2nd	3.481/2.884
3rd	1.584/1.313
4th	0.793/0.657

Travel speeds -	Standard Power Shi	uttle
Transmission	Forward	Reverse
	mph (kiph)	mph (kph)
1st	3.8 (6.1)	4.5 (7.3)
2nd	6.0 (9.7)	7.2 (11.6)
3rd	13.1 (21.1)	15.7 (25.3)
4th	24.6 (39.6)	29.5 (47.5)

Transmission – optional: PowerDrive H-Type, 4F-4R hydraulic clutch shifting w/ auto shift mode and direct drive

Gear Ratios - H Type	Forward/Reverse
1st	5.533/4.549
2nd	3.359/2.762
3rd	1.533/1.260
4th	0.811/0.667

Travel speeds - Optional H-Type PowerDrive		
DO Transmission	Forward	Reverse
	mph (kph)	mph (liqoh)
1st	3.9 (6.2)	4.6 (7.4)
2nd	6.3 (10.1)	7.5 (12.1)
3rd w/ DD Feature Off	13.6 (21.9)	16.4 (26.3)
3rd w/ DD	14.2 (22.8)	17.0 (27.4)
4th w/ DD Feature Off	24.2 (39.0)	29.0 (46.7)
4th w/ DD	25.0 (40.2)	29.8 (48.0)

Torque converter ratio Differential-lock:

On-the-go push-button activation

Front/Rear axie (w/ 4WD 12x16.5	front tires):
Differential ratio	2.0/2.5
Planetary hub ratio	6.0/6.4
Total reduction ratio	12.0/16.0

Service brakes:

Individually applied, power assisted, hydraulically actuated, maintenance-free, self-adjusting, outboard mounted, wet disc, 2 per side.

Total disc area 384 in¹ (0.25 m²)
Parking brakee Trans Mounted spring-applied hydraulic release – SAHR

NOTE: Travel speeds at 2312 engine RPM specified: w/ 19.5 L x 24.0 tires.

ELECTRICAL

Voltage	12 Volts, negative ground
Alternator	160 amp
Dual batteries:	
	850 cold-cranking amos each

Power plugs - 2

30 amps total

OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy;
Anti-vandalism cover for dash – w/ canopy
only; Rear fenders extensions; Coat hook w/
garment strap; Interior rearview convex mirror;
Mechanical suspension seat – 180° swivel – Vinyl;
3 in (76 mm) retractable seat belt; Cup holder/
storage tray mounted on left-hand fender;
Right-hand storage compartment w/ lid,
tilt-steering wheel on cab models.

Gauges:

Engine water temperature; Converter oil temperature; Fuel level; Tachometer/ hourmeter; DEF level.

Warning lights:

Air cleaner restriction; Afternator; A/C high pressure; Cold start; Engine oil pressure; Hydraulic oil filter bypass; Parking brake engagement; Low fuel; Water in fuel; Low DEF.

Audible alarms w/ diagnostics:

Coolant temperature; Engine oil pressure; Parking brake engagement; Converter oil temperature; Shuttle engagement/seat position; Backup alarm; Low DEF.

Hom

22

Dual switched front and rear

OPERATING WEIGHT

Configuration 1 - SAE Transport:

No Operator, Loader Bucket, Cab, AC, 1,100 lb front counter weight, 2WD, Full of Fuel, SAE Carry T4 Final Engine, Pilot Controls, 11 L – 16 @ 52 psi front tires, 19.5 L – 24 Rear Tires.

17,810 lb (8 078 kg)

Configuration 2 - SAE Transport:

No Operator, 4:1 Loader Bucket, E-hoe, Cab, 1,100 lb front counter weight, Full of Fuel, SAE Carry T4 Final Engine, Pilot Controls, 12 x 16.5 © 50 psi front tires, 4WD w/ driveshaft guard, 19.5 L – 24 © 30 psi rear tires.

19,750 lb (8 958 kg)

Add-on weights:

Cab-over canopy Fabricated stabilizer pads Extendance⁶ 309 lb (140 kg) 141 lb (64 kg) 286 lb (130 kg)





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HYDRAULICS

Pumo:

Bosch Revroth Series 31 Variable Displacement Axial Piston Pump

Main relief pressure:

Standard 3,450 +/- 50 cer (238 +/- 3.5 bar) Power Lift 3,625 +/- 50 per 1250 +/- 3.5 bar)

Filtretion:

7-micron, full flow replaceable cartridge on return line, condition indicator light for filter.

Loader flow & rated engine RPM:

41 gpm @ 2,340 psi (156.2 L/min @ 161 bar)

Loader control valve w/ pilot or manual backhoe controls:

Two or three-spool closed center sectional control valve. Single lever manual control for lift and bilt functions. The three-spool valve uses a proportional Electro-Hydraulic control for the auxiliary function. The lift lever has a positive hold "Float" position and a "returnto-dig" feature.

Loader auxiliary hydraulics w/ proportional thumb switch w/ detent on loader control handles

> 0 - 41 gpm @ 2,340 pei (0 - 156.2 L/min @ 161 bar)

Backhoe flow @ rated engine RPM:

41 gpm @ 3,100 pei (156.2 L/min @ 214 bar)

Manual backhoe control valve:

Six-spool monoblock open center control valve w/ seventh and eighth spool bolt-on sections. Features "Pro-Control" which includes custom designed spools for each individual function along w/ "swing cushioning" valve for zero-wag swing control. Basic control valve has an open center parallel circuit for all functions.

Pilot backhoe control valve:

Six, seven, or eight spool sectional closed center control valve. Features "Pro-Control" which includes custom designed spools for each individual function along w/ "swing cushioning" valve for zero-wag swing control. Basic control valve is closed center, w/ circuits in parallel w/ a post-compensated, flow sharing feature for simultaneous operation of all circuits.

1-way flow auxiliary hydraulica:

1-way flow hydraulic valve is equipped w/ an adjustable LS relief valve to control attachment pressure and a 6 position flow control selector for 6 detented, distinct flow settings. Actuation:

Manual backhoe controls - cab floor pedal Pilot controls - left-hand joystick

2-way flow auxiliary hydraulics*:

4WD Standard

4WD PowerDrive H-Type

Activate the 2-way flow switch located on the rear console

Manual shift - 2-way flow linkage on far right of backhoe towe

Pilot controls - left-hand joystick.

NOTE: "Available w/ 1-way/2-way Aux. Hyd. option.

SERVICE CAPACITIES	
Fuel tank	35.0 gal (132.0 L)
DEF tank	3.6 gal (13.5 L)
Hydraulic system:	
Total	125 qt (118.0 L)
w/ Extendahoe®	131 qt (123.6 L)
Reservoir w/ filter	53 qt (50.5 L)
Reservoir w/o filter	55 qt (52.4 L)
Transmission - total system:	
2WD Standard	18 gt (17.0 L)

21 qt (19.4 L)

19 of (18.0 L)

Standard front axie: 4WD Differential 8.1 qt (7.7 L) 4WD Planetaries - each 0.5 qt (0.5 L) Reer axie Differential and planetaries 14.4 qt (13.6 L) 8.5 at (8.0 L) Engine oil w/ filter Cooling system: w/ heater 19.0 qt (18.0 L) w/o heater 18.3 qt (17.3 L)

3.0 ot (2.8 L)

12 ft 3 m (3.72 m)

Window washer reservoir

OTHER SPECIFICATIONS

Front tires:	
2WD	11.0 L x 16.0, 10-pty rating
4VAD	12.0 L x 16.5, 10-ply rating
4WD	12.5/80 x 18.0 10-pily rating
Rear tires	
2/4WD	19.5 L x 24.0, 10-pily rating
2/4WD	500/70 R24, 10-pily rating
Turning radius: Cu	arb to Curte:
2V/D:	
Brakes on	10 ft 8 in (3.24 m)
Brakes off	12 ft 4 in (3.75 m)
4WD - engaged":	
Brakes on	11 ft 4 in (3.45 m)
Brakes off	13 ft 10 in (4.21 m)
4WD - disengage	d":
Brakes on	11 ft 0 in (3.36 m)

Brakes off NOTE: Turning radius dimensions ourb to curb w/ 12.0 x 16.5 front tires and 19.5 L x 24.0

LOADER BUCKET SIZES	distribution of the second	3 10 10 10 10	The state of	A LONG THE
Туре	Width	Weight	Struck	Heaped Capacity
Long Lip Bucket:				
without bolt-on edge	82 in (2.08 m)	864 lb (392 kg)	0.88 yd ^a (0.67 m ³)	1.0 yd ³ (0.79 m ³)
with boit-on edge	93 in (2.36 m)	1,188 lb* (539 kg)	1.10 yd ⁹ (0.89 m ³)	1.3 yd ³ (0.99 m³)
4 IN 1 Bucket with bolt-on edge	82 in (2.08 m)	1,572 lb* (713 kg)	0.85 yd ² (0.55 m ³)	1.0 yd ² (0.80 m ³)

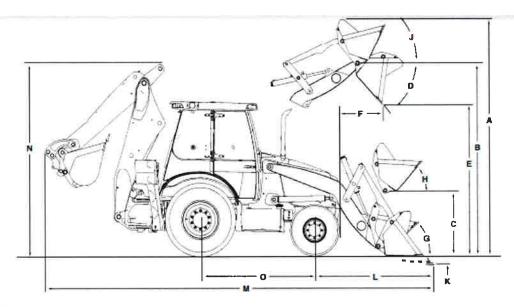
NOTE: "Weight of 4 IN 14 bucket includes edges, cylinders and tube lines.

BACKHOE BUCKET SIZES			
Туре	Width	Weight	Heaped Capacity
Universal Buckets	12 in (305 mm)	295 lb (134 kg)	3,40 ft ² (0.10 m ³)
	18 in (457 mm)	356 lb (162 kg)	5.30 ft ³ (0.15 m ³)
	24 in (610 mm)	427 lb (194 kg)	7.70 ft ¹ (0.22 m ²)
	30 in (762 mm)	489 to (222 kg)	10.20 ft³ (0.29 m³)
	36 in (914 mm)	552 to (251 kg)	12.70 ft ³ (0.36 m ³)
High Capacity Buckets	24 in (610 mm)	447 th (203 kg)	8.50 ft ³ (0.24 m ³)
- 5	36 in (762 mm)	502 lb (228 kg)	10.60 R3 (0.30 m2)





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Line drawings are for illustrative purpose only and may not be exact representation of unit.

	Long Lip Bucket	4 IN 1º Bucket
A. Overall operating height – fully raised	13 ft 9 in (4.18 m)	13 ft 8 in (4.16 m)
Height to:		
B. Bucket hinge pin fully raised	11 ft 3 in (3.42 m)	11 ft 3 in (3.42 m)
C. Bucket hinge pin at SAE carry	13.6 in (345 mm)	13.6 in (345 mm
D. Dump angle at full height	47*	47*
E. Dump dearance at full height, 45° dump:		
Bucket	B ft 10 in (2.69 m)	8 ft 11 in (2.71 m
Clam open		9 ft 8 in (2.96 m
F. Dump reach at full height, 45° dump – from bumper:		_
Bucket	31.5 in (801 mm)	29.1 in (738 mm)
Clam open		15.3 in (388 mm
Bucket rollback:	101	42
G. # Groundline	42° 42°	42
H. © SAE carry J. © Full height	Adjustable	Adjustable
) white the control of the control o	7 Hajiratian
K. Digging depth below grade: Bucket flat	6.1 in (155 mm)	4.8 in (122 mm
Clam open – dozing	G. 7 III (123 IIIII)	4.1 in (103 mm
L. Reach from front axie centerline - bucket on ground	6 ft f0 in (2.07 m)	6 ft 8 in (2.03 m
Lift capacity to full height - calculated values	7,044 to (3 195 kg)	6,703 % (3 040 kg
Breakout force:		
Lift cylinders	9,833 lb (4 460 daN)	9.610 lb (4 359 daN
Dump cylinders	10,947 lb (4 965 daN)	11,658 lb (5 288 daN
Bucket cutting edge width	82.5 in (2.09 m)	82.0 in (2.08 m
Maximum grading angle	1141	114
Maximum clam opening	i i i i i i i i i i i i i i i i i i i	38.3 in (972 mm
Moldboard height		35.8 in (934 mm
Raising time to full height - manual/pilot controls	2.6/3.2 sec	2.6/3.2 se
Bucket dumping time	0.8/1.2 sec	0.8/1.2 se
Lowering time:		
Power down	1.9/2.1 sec	1.9/2.1 se
Return-to-dig	2.5/2.2 sec	2.5/2.2 se
Clanz		
Open time	2.=2,	1.1 se
Close time		1.1 98





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DIMENSIONS		
	2WD with 17.5 L x 24.0 rear tires	4WD with 19.5 L x 24.0 thres
M. Overall transport length:		
Long Lip bucket with Quick Coupler	23 ft 5 in 17.14 mi)	23 ft 4 in (7.10 m
4 IN 1* bucket with Oulck Coupler	23 ft 3 in (7.07 mi)	23 ft 1 n 7.04 m
Long Lip bucket with Straight Links	23 ft 6 in (7.15 ml)	23 ft 4 m (7.12 m
4 IN 1 bucket with Straight Links	23 ft 3 in [7,09 ml)	23 ft 2 n [7.06 m
Overall transport width	7 lt 2 in (2.17 m)	7 ft 2 n 2.17 m
Height:		
To top of canopy	8 ft 8 in (2.64 m)	8 ft 9 n (2.66 m
To top of cab	8 ft 9 n (2.68 m)	8 ft 11 m (2.72 m
To top of exhaust stack	8 ft 5 in (2.58 mi)	8 ft 7 n (2.62 m
N. Transport	10 ft 10 in (3.29 m)	11 ft 1 n (3.37 m
Ground clearance at backhoe frame	12 in 304 mm	15.0 in (381 mm
Angle of departure	15.3"	19.0
Front wheel tread:		
11.0 L x 16.0	67.5 n (1.72 m)	67.5 in (1.72 m
12.0 L x 16.5	67.7 in (1.72 m)	67.7 in (1.72 m
12.5/80 x 18.0	70.3 in (1.79 m)	70.3 n (1.79 n
19.5 L x 24.0	61.2 in (1.55 m)	61.2 n (1.55 m
17.5 L x 24.0	63.1 in (1.60 m)	63.1 in (1.60 m
Width over tires:		
11.0 L x 16.0	79.3 in (2.02 m)	79.3 in (2.02 n
12.0 L x 16.5	81.1 in (2.06 m)	81.1 in (2.06 m
12.5/80 x 18.0	82.9 in (2.10 m)	82.9 in (2.10 m
19.5 L x 24.0	81.4 in (2.07 m)	81.4 m (2.07 m
17.5 L x 24.0	81.7 in (2.07 m)	81.7 in (2.07 m
O. Wheelbase:		
19.5 L x 24.0	84.0 in (2.13 m)	84.5 m (2.15 m
17.5 L x 24.0	84.0 in (2.13 m)	84.5 in (2.15 n

CYLINDERS					
	Bore Diameter	Rod Diameter	Stroke	Closed Length	
Loader:					
Lift - 2	3.25 in (82.6 mm)	1.75 in (44.5 mm)	28.86 in (733.0 mm)	42.95 in (1 062.0 mm)	
Dump - 2	3.00 in (76.2 mm)	1.50 in (38.1 mm)	20.33 in (516.5 mm)	29.90 in (759.5 mm)	
4 IN 1* clam - 2	3.00 in (75.2 mm)	1.75 in (44.5 mm)	9.08 in (230.6 mm)	19.62 in (498.3 mm)	
Backhoe:					
Boom	5.00 in (127.0 mm)	2.50 in (63.5 mm)	38.25 in (971.6 mm)	52.82 in (1 341.6 mm)	
Dipperstick	4.75 in (120.7 mm)	2.50 in (63.5 mm)	25.14 in (628.5 mm)	39.65 in (1 007.0 mm)	
Bucket	3.50 in (88.9 mm)	2.50 in (63.5 mm)	35.35 in (897.9 mm)	48.17 in (1 223.6 mm)	
Extendahoe*	3.00 in (76.2 mm)	1.75 in (44.5 mm)	42.05 in (1 068.0 mm)	56.22 in (1 428.0 mm)	
Świng – 2	4.00 in (101.6 mm)	2,00 in (50.8 mm)	11.50 in (292.0 mm)	24.44 in (620.8 mm)	
Stabilizer - 2	4.50 in (114.3 mm)	2.25 in (57.2 mm)	21.37 in (542.9 mm)	33.87 in (860.2 mm)	

AXLE RATINGS	XLE RATINGS			
	Front - ZWD	Rear	Front - 4WD	
Maximum static	70.821 lb (32 124 kg)	90,145 to (40 889 kg)	64.613 lb (29 308 kg)	
Dynamic operating	44,261 lb (20 076 kg)	56,200 to (25 492 kg)	39,328 lb (17 839 kg)	
Static operating	17,704 lb (8 030 kg)	22,480 to (10 197 kg)	15,732 lb (7 136 kg)	
Oscillation - front axie	22" total - 11" sade to side	=======================================	22" total - 11" side to side	





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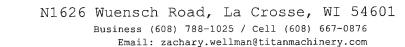
BACKHOE LIFT CAPACITIES

	Standard	l Backhoe		Exten	dahoe ^a		
			Retr	acted	Ext	Extended	
	Standard	Power Lift	Standard	Power Lift	Standard	Power Lif	
Boom Lift	Lift Capacity Ib (kg)	Lift Capacity	Lift Capacity lb (kg)	Lift Capacity b (kg)	Lift Capacity lb (kg)	Lift Capacity Ib (kg	
+15 N (4.87 m)		=		_	2,115 (959)	2,298 (1,043	
+14 ft (4.27 m)	3,039 (1 378)	3,285 (1 490)	2,837 (1 287)	3,063 (1 398)	2,395 (1 086)	2,603 (1.181	
+12 ft (3.66 m)	3,413 (1 548)	3,691 (1 674)	3,201 (1.452)	3,479 (1 578)	2,536 (1 151)	2,757 (1 250	
+10 ft (3.05 in)	3,499 (1.587)	3,784 (1 716)	3,281 (1.488)	3,566 (1.618)	2,593 (1.176)	2,818 (1 276	
+8 ft (2,44 m)	3,485 (1 581)	3,768 (1 709)	3,263 (1 480)	3,546 (1 6 08)	2,564 (1 163)	2,786 (1 264	
+6 ft (1.83 m)	3,438 (1 559)	3,717 (1 686)	3,213 (1 457)	3,492 (1 584)	2,549 (1 156)	2,770 (1 257	
+4 ft (1.22 m)	3,374 (1 530)	3,648 (1 655)	3,146 (1 427)	3,420 (1.551)	2,521 (1.144)	2,741 (1 243	
+2 ft (0.61 m)	3,307 (1 500)	3,575 (1 622)	3,077 (1 386)	3,345 (1 517)	2,489 (1 129)	2,708 (1 22)	
Ground Level	3,251 (1 475)	3,513 (1 594)	3,018 (1 389)	3,280 (1 468)	2,489 (1 129)	2,706 (1.22)	
-2 ft (0.61 m)	3,201 (1 452)	3,459 (1 569)	2,965 (1 345)	3,223 (1.462)	2,456 (1 118)	2,680 (1 215	
-4 ft (1.22 m)	3,175 (1 440)	3,430 (1.556)	2,935 (1 331)	3,190 (1 447)	2,446 (1 109)	2,659 (1 208	
-6 ft (1.83 m)	3,182 (1 443)	3,437 (1 559)	2,938 (1 333)	3,193 (1 448)	2,443 (1 108)	2,656 (1.20)	
-8 ft (2.44 m)	3,258 (1 478)	3,520 (1 597)	3,007 (1 384)	3,269 (1 483)	2,485 (1 118)	2,679 (1 21	
-10 ft (3.05 m)	3,441 (1 561)	3,717 (1 686)	3,175 (1 440)	3,451 (1 565)	2,530 (1 148)	2,750 (1 24	
-12 ft (3.66 m)	-	-			2,707 (1 228)	2,943 (1.33)	
-14 ft (4.27 m)	_	-			3,239 (1 469)	3,521 (1.59)	
Dipper Lift							
+14 ft (4.27 m)		-			4,281 (1 942)	4,281 (1.94)	
+12 ft (3.66 m)	5,822 (2 641)	5,822 (2 641)	5,818 (2 548)	5,618 (2 548)	4,046 (1 835)	4,046 (1 83)	
+10 ft (3.05 m)	5,600 (2 540)	5,600 (2 540)	5,399 (2 449)	5,399 (2 449)	3,984 (1 807)	3,984 (1 80	
+8 ft (2.44 m)	5,582 (2 523)	5,582 (2 523)	5,360 (2 431)	5,380 (2 431)	3,913 (1 775)	3,913 (1 77)	
+6 ft (1.83 m)	6,236 (2 829)	6,236 (2 829)	6,030 (2 735)	6.030 (2 735)	4,166 (1 889)	4,166 (1.88)	
+4 ft (1.22 m)	7,424 (3 368)	7,424 (3 368)	7,203 (3 267)	7,203 (3 267)	4,102 (1.861)	4,102 (1.86	
+2 ft (0.61 m)		=	7-2		4,850 (2 200)	4,850 (2.20)	

NOTE: Boom and Dipper Lift Capacities are rated per SAE J31 and are 87% of the maximum hydraulic lift force available with the specified options.

	Standard Backhoe	Exte	ndahoe*
		Retracted	Extended
Digging depth:			
Maximum	14 ft 6 in (4.41 m)	14 ft 6 in (4.41 m)	17 R 11 in (5.47 m
Maximum with hi-capacity bucket	15 ft 0 in (4.51 m)	15 ft 0 in (4.51 m)	18 ft 6 in [5.63 m
2 ft (610 mm) flat bottom	14 ft 4 in (4.37 m)	14 ft 4 in (4.37 m)	17 ft 10 in (5,43 m
B ft (2.44 m) flat bottom	13 ft 4 in (4.06 m)	13 ft 4 in (4.98 m)	17 ft 1 in (5.19 m
Overall reach from:			
Rear axie centerline	21 ft 10 m (6.66 m)	21 ft 10 in (6.56 m)	25 h 3 in [7,69 m
Swing pivat	18 ft 2 in (5,55 m)	18 ft 2 in (5.55 m)	21 ft 7 in (6.58 m
Loading height	12 ft 1 in (3.67 m)	12 ft 1 in (3.67 m)	14 ft 5 in (4,38 m
Loading reach	4 ft 7 in (1,41 m)	4 ft 7 in (1.41 m)	7 ft 3 in [2.20 m
Swing arć	1B0°	180°	160
Bucket rotation:			
Straight links	175.6°	175.6°	175.6
Mechanical coupler	198.0°	198.0*	198.0
Hydraulic coupler – Extendance* dipper	194.8"	194.81	194,8
Hydraulic couplet – standard dipper	198.0°	198.0"	198.3
Stabilizer spread - operating:			
Piip pad	9 ft 3 in (2.82 m)	9 ft 3 in (2.82 m)	9 ft 3 in 2,82 m
Cast pad	9 ft 7 in (2.93 m)	9 ft 7 in (2.93 m)	9 lt 7 m (2.93 m
Digging force:			
Bucket cylinder - SAE rated 3,460 psi	13,975 lb (61 363 N)	13,975 lb (61 363 N)	13,975 lb (61 363 N
Bucket cylinder - Power Lift	14,452 lb (64 240 N)	14,452 lb (64 240 N)	14,452 tb (64 240 N
Dipper cylinder - SAE rated 3,460 psi	8,657 tb (38 508 N)	8,657 lb (38 508 N)	6,305 b (28 045 N
Dipper cylinder – Power Lift	9,070 b (40 345 N)	9,070 lb (40 345 N)	6,606 lb (29 382.7 N
Leveling angle.			
Flip pad	11.8°	11.6"	11.6
Cast pad	12.8°	12.67	12.8







Total CASH Price for 2024 CASE 580SN w/o Trade Including Delivery: \$135,500.00

- *Price does not include tax (unless tax exempt)*
- *Quote based off MNContract pricing*
- *This is a NEW unit with full factory warranty*
- *Iyear/Unlimited hours, 2 year/2,000hour full factory warranty*

Total Trade-In Price for 2019 CASE 580SN: \$72,000.00

Total CASH Price for 2024 CASE 580SN w/ Trade Including Delivery: \$63,500.00

- *Price does not include tax (unless tax exempt)*
- *Quote based off MNContract pricing and an extra \$1,507 discount*
- *This is a NEW unit with full factory warranty*
- *1year/Unlimited hours, 2 year/2,000hour full factory warranty*





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