

VILLAGE OF GILBERTS

RESOLUTION 12-2021

A RESOLUTION AUTHORIZING APPROVAL OF AN AGREEMENT WITH DAHM ENTERPRISES FOR ANNUAL SLUDGE HAULING IN AN AMOUNT NOT TO EXCEED \$45,000

WHEREAS, the Village of Gilberts ("Village") operates and maintains a sanitary sewer and treatment system; and

WHEREAS, the Village annually budgets for and performs routine system maintenance, including sludge hauling for which \$45,000 was budgeted in Fiscal Year 2022; and

WHEREAS, the Village solicited multiple quotes in 2020 with Dahm Enterprises submitting the lowest quote of \$0.068 per gallon for a one-year contract with the option to renew annually for an additional two years at a fixed rate with 2021 representing the first renewal.

THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF GILBERTS, ILLINOIS, as follows:

Section 1. Recitals. The recitals set forth above are hereby incorporated into and made a part of this Resolution as though set forth in this Section 1.

Section 2. Approval; Authorization. The Village Board of Trustees hereby authorizes the Village Administrator to execute an agreement and other necessary documents with Dahm Enterprises for sludge hauling in Fiscal Year 2022 in an amount not-to-exceed \$45,000.

Section 3. Waiver of Competitive Bidding. To the extent any competitive bidding requirements apply to the agreement between the Village and Dahm Enterprises for sludge hauling they are hereby waived pursuant to Section 8-9-1 of the Illinois Municipal Code (65 ILCS 5/8-9-1).

Section 4. Effective Date. This Resolution shall be in full force and effect after its approval in the manner provided by law.

PASSED BY VOTE OF THE BOARD OF TRUSTEES of the Village of Gilberts, Kane County, Illinois, this 16 day of May 2021.

	<u>Ayes</u>	<u>Nays</u>	<u>Absent</u>	<u>Abstain</u>
Trustee Dan Corbett	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Trustee David LeClercq Sr.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Trustee Brandon Coats	<input checked="" type="checkbox"/>	_____	_____	_____
Trustee Jeanne Allen	<input checked="" type="checkbox"/>	_____	_____	_____
Trustee Lou Hacker	_____	_____	<input checked="" type="checkbox"/>	_____
Trustee Justin Redfield	<input checked="" type="checkbox"/>	_____	_____	_____
President Guy Zambetti	_____	_____	_____	_____

APPROVED THIS 16 DAY OF May, 2021



Guy Zambetti
Guy Zambetti, Village President

ATTEST: Courtney Baker
Courtney Baker, Village Clerk



Woodstock, IL

June 10, 2020

Village of Gilberts Wastewater Treatment Plant
320 Raymond Dr.
Gilberts, IL 60136

Liquid Sludge Disposal

Dear Mr. John Castillo,

Dahm Enterprises, Inc. proposes to furnish all skills, personnel and equipment to complete the liquid sludge hauling and disposal. Land application will adhere to all guidelines set by the IEPA. Dahm will supply an operating report following the project. Pumping equipment will be supplied along with personnel to operate. A disposal site will be included. The hauling will be done when weather permits. The project is an annual occurrence and is estimated to take 3-4 days. Volume of sludge is 650,000 gallons per occurrence. We understand this is an estimate and may be higher or lower.

Compensation for the hauling and land application of the liquid sludge will be \$.068/gallon. This price reflects a 3 year agreement. A load sheet will be used during hauling to record the amount of liquid hauled.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Bryan Dahm", is written over the "Respectfully submitted," text.

Bryan Dahm
President
Dahm Enterprises, Inc.
815-482-2088

Accepted By:

Village of Gilberts Representative



ENGINE

Model	FPT F5B FL413 D*C001
Emissions Certification	Tier 4 Final
Type	Diesel, Turbo – Direct Injection
Cylinders	4
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)
Displacement	207 in ³ (3.4 L)
Fuel injection	Direct
Fuel	#2 Diesel
Fuel filter:	
Pre-filter	Beta (30) = 200/spin-on
Main filter	Beta (4) = 20/spin-on
Air intake	Turbocharged w/ waste gate and external cooled EGR
Exhaust aftertreatment	Selective Catalytic Reduction (SCR)
Cooling	Liquid
Engine speeds	RPM
High idle – no load	2500 +/- 25
Rated – full load	2500
Low idle	1150 +/- 25
Horsepower @ 2500 RPM – SAE J1349:	
Gross	90 hp (67 kW)
Net	84 hp (63 kW)
Peak torque @ 1400 RPM	282 lb-ft (383 N-m)
Radiator:	
Core type	Aluminum bar and plate
Core size area	319 in ² (0.206 m ²)
Rows of tubes x columns	21
Cap pressure	16 +/- 2 psi (1.10 +/- 0.14 bar)
Fan:	
Diameter	22 in (560 mm)
Ratio	0.96:1 standard, 1.1:1 high-flow
Water pump:	
Style	Centrifugal
Flow	47.8 gpm (181 L/min)
Engine lubrication pump:	
Rotor pump w/ deep sump pan, plate cooler and pressurized under-piston nozzles	
Pump operating angle ratings:	
Side to side	45°
Bucket up	35°
Bucket Down	45°

LIFT GEOMETRY

Radial Lift

DRIVETRAIN

Drive pump controls	Servo-assist mechanical
Pump to engine ratio	1:1
Displacement	2.81 in ³ (46 cm ³)
Flow @ rated engine RPM:	
@ 97% efficiency	29.4 gpm (111 L/min)
Charge pressure	360 psi (24.5 bar)
System relief pressure	5,220 psi (360 bar)

Drive pump controls	Electro-hydraulic
Pump to engine ratio	1:1
Displacement	2.75 in ³ (45 cm ³)
Flow @ rated engine RPM:	
@ 97% efficiency	28.8 gpm (109 L/min)
Charge pressure	362 psi (25.0 bar)
System relief pressure	5,220 psi (360 bar)

Drive motors:	
Max. displacement	3.10 in ³ (50.9 cm ³)
Displacement:	
High speed	2.02 in ³ (33.1 cm ³)
Motor RPM @ high idle and 97% efficiency:	
2-speed	156
Motor torque @ max. displacement and relief pressure, calculated @ 5,220 psi (360 bar):	4,654 lb-ft (6 310 N-m)

Travel speed:	
Low range	5.1 mph (8.2 kph)
High range	8.0 mph (12.9 kph)

Final drive:	
Planetary gearbox w/ 2-speed motor	
Tractive effort	7,414 lb (3 370 kg)
Parking brake:	
Type	Spring-applied, hydraulic release multiple disc.
Engagement	Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat or stop engine.

ELECTRICAL

Alternator	160 amp
Starter	4.29 hp (3.2 kW)
Battery	12-volt low-maintenance 1,000 cold-cranking amps @ 0° F (-18° C)

OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy w/ side screens; Keyed start ignition; AM/FM radio w/ 2 speakers/Bluetooth; Keyless start ignition; Tilt ROPS/FOPS; Rear window w/ emergency escape; Suspension Seat, vinyl w/ 2 in (51 mm) retractable 3 point lap seat belt; Hand and Foot throttle; Alarm package – back-up and horn; Rearview mirror; Headliner; Dome Light; Top window; Cup holder; 12V Power plug socket; Foot rest; Seat Pocket; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Operator's

compartment floor cleanout; Proportional auxiliary hydraulic control – on joystick; Advanced Instrument Cluster w/ digital hour meter, tachometer, Fuel level LCD bar graph w/ alarm, diagnostic features and security lockout.

Warning lights with alarms:
Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature; Critical system stop, Engine system, Hydraulic system, Electrical and diagnostic system.

Warning alarms:
Battery voltage – plus display; Oil service.

Indicator light:
Engine preheat; Parking brake;
Seat bar reminder.

OPERATING WEIGHT

Unit equipped w/ open cab; 165 lb operator; 78 in Dirt & Foundry bucket; full of fuel:	10,000 lb (4 536 kg)
Shipping weight	9,656 lb (4 380 kg)
Add-on weights:	
Side cab glass	47 lb (21.3 kg)
Polycarbonate cab door	75 lb (34.0 kg)
Glass cab door w/ wiper	75 lb (34.0 kg)
Suspension seat	22 lb (10.0 kg)
Additional counterweight	600 lb (273.0 kg)

HYDRAULICS

Implement pump type	Gear
Displacement:	
Standard aux.	2.23 in ³ (36.6 cm ³)
High-flow aux.	1.24 in ³ (20.4 cm ³)
Standard flow @ rated engine RPM:	
@ 100% efficiency	24.2 gpm (91.5 L/min)
Optional high-flow @ rated engine RPM:	
@ 100% efficiency	37.6 gpm (142.5 L/min)
Enhanced high-flow @ rated engine RPM:	
@ 100% efficiency	35.0 gpm (132.5 L/min)
Loader control valve:	
Type	3 spool/open center/series - series
Relief pressure	3,046 psi (210 bar)
Port relief pressures:	
Loader raise	3,263 psi (225 bar)
Bucket curl	3,770 psi (260 bar)
Bucket dump	1,160 psi (80 bar)
Hydraulic lines:	
Tubing	37° JIC Flare
Loop hoses	SAE 100 R19
Hydraulic oil cooler:	
Number of fins	10 per inch (3.94 per cm)
Number of tube rows x columns	9 bar/plate
Area	130.7 in ² (843.2 cm ²)
Hydraulic filter	Beta (4) = 75/spin-on

HYDRAULICS CONT.

Lift cylinders:	
Bore diameter	2.75 in (69.85 mm)
Rod diameter	1.75 in (44.5 mm)
Stroke	32.20 in (817.9 mm)
Closed length	45.60 in (1 158.0 mm)

Bucket cylinders:	
Bore diameter	3.0 in (76.2 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	16.4 in (410.0 mm)
Closed length	24.0 in (610.0 mm)

SERVICE CAPACITIES

Fuel Tank	25.5 gal (96.5 L)
Engine oil w/ filter	8.9 qt (8.5 L)
Hydraulic system:	
Reservoir	6.0 gal (22.7 L)
Total	11.9 gal (45.4 L)
Diesel Exhaust Fluid (DEF) Tank	2.8 gal (10.7 L)

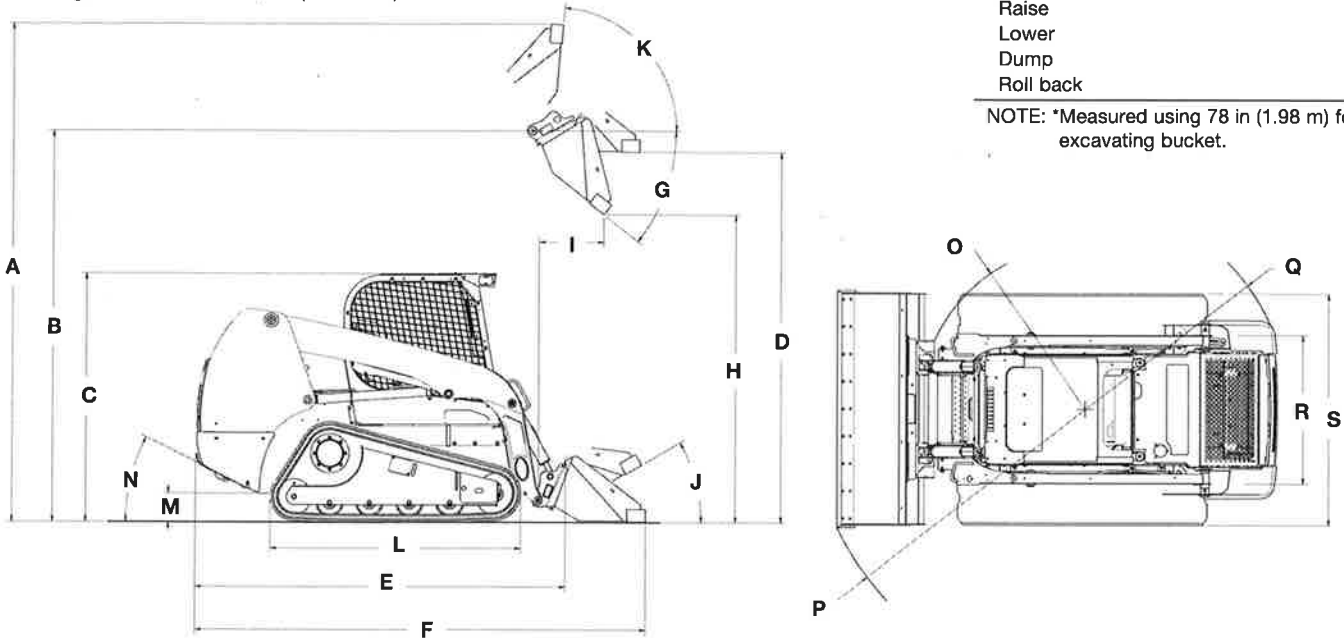
PERFORMANCE SPECS

Rated operating capacity – ROC*:	
35% of tipping load	2,380 lb (1 079 kg)
50% of tipping load	3,400 lb (1 542 kg)
w/ additional counterweight	3,600 lb (1 633 kg)
Tipping load*	6,800 lb (3 084 kg)

Breakout forces @ 3,150 psi (217 bar)*:	
Bucket cylinders	8,700 lb (38.7 kN)
Lift cylinders – hydraulic limit	7,760 lb (34.5 kN)

Cycle times:	
Raise	4.4 sec
Lower	2.6 sec
Dump	2.6 sec
Roll back	2.0 sec

NOTE: *Measured using 78 in (1.98 m) foundry/ excavating bucket.



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

DIMENSIONS

A. Overall operating height:	
with foundry/excavating bucket	157.2 in (3.99 m)
with heavy-duty dirt bucket	161.4 in (4.10 m)
with low profile extended bucket	166.2 in (4.22 m)
Height to:	
B. Bucket hinge pin	126.7 in (3.22 m)
C. Top of ROPS	80.4 in (2.04 m)
D. Bottom of level bucket, fully raised	118.7 in (3.02 m)
Overall length:	
E. without attachment with coupler	118.2 in (3.00 m)
F. with foundry/excavating bucket on ground	142.6 in (3.62 m)
with heavy-duty bucket	146.8 in (3.73 m)
with low profile extended bucket	151.7 in (3.85 m)
G. Maximum dump angle	38.1°
H. Dump height:	
with foundry/excavating bucket	102.2 in (2.59 m) @ 38.1°
with low profile bucket	99.5 in (2.53 m) @ 38.1°
I. Dump reach at maximum height with heavy-duty bucket	24.7 in (0.63 m) @ 38.1°
Maximum attachment rollback:	
J. Bucket on ground	30.6°
K. Bucket at full height	100.0°
L. Track on ground	64.5 in (1.64 m)
M. Ground clearance – bottom of belly pan	9.5 in (0.24 m)
N. Angle of departure	32.0°
Clearance circle:	
O. without bucket	55.8 in (1.42 m)
P. with 78 in (1.98 m) foundry/excavating bucket in carry position	86.2 in (2.19 m)
with 78 in (1.98 m) heavy-duty bucket on ground	90.0 in (2.29 m)
with 78 in (1.98 m) extended low profile on ground	94.4 in (2.40 m)
Q. Clearance circle rear	68.6 in (1.74 m)
R. Track gauge	58.6 in (1.49 m)
S. Over the track width	76.5 in (1.94 m)

TRACK SELECTION

Type	Area	Ground Pressure	Width to Outside Track
17.7 in (450 mm)	2,286 in ² (1,475 m ²)	4.4 psi (30.3 kPa)	76 in (1.93 m)

OPTIONAL BUCKETS

Type	Width	Weight	Heaped Capacity
Dirt & Foundry	72 in (1.83 m)	420 lb (190 kg)	16.2 ft ³ (0.46 m ³)
	78 in (1.98 m)	440 lb (200 kg)	17.7 ft ³ (0.50 m ³)
Low Profile	72 in (1.83 m)	480 lb (218 kg)	14.8 ft ³ (0.42 m ³)
Low Profile Extended	72 in (1.83 m)	510 lb (232 kg)	17.7 ft ³ (0.50 m ³)
	78 in (1.98 m)	540 lb (245 kg)	19.1 ft ³ (0.54 m ³)
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft ³ (0.58 m ³)
Light Material	72 in (1.83 m)	475 lb (216 kg)	23.3 ft ³ (0.66 m ³)
	84 in (2.13 m)	540 lb (245 kg)	27.5 ft ³ (0.78 m ³)
Manure & Slurry	72 in (1.83 m)	480 lb (218 kg)	19.1 ft ³ (0.54 m ³)
	72 in (1.83 m)	510 lb (230 kg)	14.1 ft ³ (0.40 m ³)
Heavy-Duty	72 in (1.83 m)	530 lb (240 kg)	15.5 ft ³ (0.44 m ³)
	78 in (1.98 m)	550 lb (250 kg)	17.0 ft ³ (0.48 m ³)
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft ³ (0.48 m ³)
Heavy-Duty Extended with SmartFit Teeth	72 in (1.83 m)	667 lb (303 kg)	17.4 ft ³ (0.49 m ³)
	78 in (1.98 m)	697 lb (316 kg)	18.9 ft ³ (0.54 m ³)
	84 in (2.13 m)	728 lb (330 kg)	20.5 ft ³ (0.58 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5B FL413 D*C001
207 CID (3.4 L) Turbo
Tier 4 Final Certified
Selective Catalytic Reduction (SCR)
Charged Air Cooler (CAC)
High Pressure Common Rail (HPCR)
fuel injection
Horsepower:
Gross: 90 hp (67 kW)
Net: 84 hp (63 kW)
Peak torque: 282 lb-ft (383 N·m)
160 amp alternator
Dual element air cleaner
Organic Acid Technology (OAT)
Anti-freeze solution to -34° F
Fuel tank - 25.5 gal (U.S.)
Over and under radiator and oil cooler
3-stack after cooler/radiator/oil
cooler configuration
Glow plugs
Integral engine oil cooler
Fuel filter with water trap
1,000 CCA 12V battery
Master electrical disconnect
Jump Start Terminal

DRIVETRAIN

2-speed hydrostatic four wheel drive
SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics:
@ 3,050 psi (210 bar) – 24.2 gpm
(91.5 L/min)
6 micron oil filtration system
3-spool loader control valve
Auxiliary hydraulic disconnects, ISO
flat-face – connect-under-pressure
with case drain
Hydraulic circuit pedal lock
Auxiliary function lockout override
Loader lift lockout override
Heavy-duty hydraulic oil cooler
Loader arm float position
Loader function lockout system

LOADER

Heavy Duty Hydraulic attachment coupler
Radial lift geometry
Loader lift arm support strut
SAE operating load: 3,400 lbs
Tipping load: 6,800 lbs

TRACKS

Rubber Tracks

OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood
Pre-wired for rotating beacon
Lockable service access hood
Single-point daily servicing
Rear tail lights
Remote oil drain
Remote oil and fuel filters
Block heater
Debris ingress sealing
Mounting points for add-on counterweights

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Enclosed cab:

- Fully sealed and pressurized – FSP
- Glass door with wiper and washer
- Sliding side windows – removable
- Ventilation system with integrated heater
- Heater and air conditioner
- AM/FM Bluetooth radio with 2 speakers and USB port
- Keyless start ignition

8 in Color LCD Display

Economy Mode (auto idle shutdown)

Auto Engine Protection Shutdown

Electro-hydraulic controls:

- For drive/steering, loader functions
- Switchable between H and ISO patterns
- Adjustable sensitivity of controls

Mechanical hand controls

Hand and foot controls:

- Hand controls the loader drive function and foot controls the bucket and boom

Deluxe cloth air suspension seat w/ heater and lumbar support

Open cab interior trim package

Demolition cab door with polycarbonate

FOPS Level 2

Ignition Timeout

Machine Settings User Access Levels

Operator Security Codes

HYDRAULICS

High-flow auxiliary hydraulics – combined:

- @ 3,050 psi (210 bar) – 37.6 gpm (142.5 L/min)

Enhanced High-flow auxiliary hydraulics – EHF:

- @ 4,000 psi (276 bar) – 35.0 gpm (132.5 L/min)

Second auxiliary hydraulics

Hydraulic one-way self-leveling

Ride control

LOADER

Auxiliary front electric control

Manual attachment coupler

DRIVETRAIN

Creep Speed Mode

OTHER

Language decals

Factory-installed tires – see page 3

Buckets – see page 3

Bolt-on bucket cutting edges

Bolt-on heavy-duty bucket spill guard

Special paint

Offsite service arrangement

Telematics

FACTORY SUPPLIED ATTACHMENTS

Add-on counterweights

Road lights

Rotating beacon

Four-corner LED strobe

48 in (1.22 m) pallet forks

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt

Bolt-on heavy-duty bucket teeth

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IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.



CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

Form No. CCE202002TR340B

Replaces Form No. CCE201911TR340B

TR340B